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**Department of Defense
Fiscal Year (FY) 2022 Budget Estimates**

May 2021



Army

Justification Book Volume 2 of 3

Other Procurement, Army

Communications and Electronics Equipment, Budget Activity 2

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Army • Budget Estimates FY 2022 • Procurement

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Cost Statement

The following Justification Books were prepared at a cost of \$472,560: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 – Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

OTHER PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, production, and modification of Other Procurement, Army, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$8,873,558,000 to remain available for obligation until September 30, 2024.

The FY 2022 Overseas Contingency Operations accounted for in the base budget are as follows:

Direct War costs accounted for in the Base Budget: \$265,947,000: Direct War costs are those combat or direct combat support costs that will not continue to be expended once combat operations end at major contingency locations.

Enduring costs accounted for in the Base Budget: \$318,830,000: Enduring Requirements are enduring in theater and in CONUS costs that will likely remain after combat operations cease, and have previously been funded in OCO.

FY 2021 includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

FY 2020 includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

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Department of the Army
 FY 2022 President's Budget
 Exhibit P-1 FY 2022 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

05 May 2021

Appropriation -----	FY 2020 Actual*	FY 2021 Enacted** -----	FY 2022 Request -----
Other Procurement, Army	8,551,633	9,527,935	8,873,558
Total Department of the Army	8,551,633	9,527,935	8,873,558

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05 May 2021

Appropriation: Other Procurement, Army

Budget Activity -----	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
01. Tactical and Support Vehicles	1,814,863	1,690,185	939,081
02. Communications and Electronics Equipment	4,219,959	5,276,078	5,822,037
03. Other Support Equipment	2,507,054	2,551,722	2,103,168
04. Spare and Repair Parts	9,757	9,950	9,272
Total Other Procurement, Army	8,551,633	9,527,935	8,873,558

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Department of the Army
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 (Dollars in Thousands)

05 May 2021

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tactical and Support Vehicles									
Tactical Vehicles									
1	Tactical Trailers/Dolly Sets	A		12,993		9,653			U
2	Semitrailers, Flatbed:	A		102,386		22,460		12,539	U
3	Semitrailers, tankers	A				17,082		17,985	U
4	HI MOB MULTI-PURP WHLD VEH (HMMWV)			127,271		126,747		60,706	U
5	Ground Mobility Vehicles (GMV)	A		37,038		29,247		29,807	U
6	ARNG HMMWV Modernization Program	A				100,000			U
7	JOINT LIGHT TACTICAL VEHICLE	A		972,407					U
8	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICL	A				884,414		574,562	U
9	TRUCK, DUMP, 20T (CCE)			13,006		29,368		9,882	U
10	Family Of Medium Tactical Veh (FMTV)			138,057		181,092		36,885	U
11	Family of Cold Weather All-Terrain Vehicle (C	A				9,249		16,450	U
12	Firetrucks & Associated Firefighting Equip			28,048		27,687		26,256	U
13	Family Of Heavy Tactical Vehicles (FHTV)			38,718		6,500		64,282	U
14	PLS ESP	A		25,543		33,146		16,943	U
15	Hvy Expanded Mobile Tactical Truck Ext Serv			95,683		92,619			U
16	HMMWV Recapitalization Program			36,734					U
17	Tactical Wheeled Vehicle Protection Kits	A		85,113		63,563		17,957	U
18	Modification Of In Svc Equip			73,627		56,112		29,349	U

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05 May 2021

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Non-Tactical Vehicles									
19	Heavy Armored Vehicle			791					U
20	Passenger Carrying Vehicles			1,416		1,246		1,232	U
21	NonTactical Vehicles, Other	A		26,032				24,246	U
Total Tactical and Support Vehicles				1,814,863		1,690,185		939,081	
Budget Activity 02: Communications and Electronics Equipment									
Comm - Joint Communications									
22	Signal Modernization Program	A		128,913		151,179		140,036	U
23	Tactical Network Technology Mod In Svc	A		483,439		347,782		436,524	U
24	SITUATION INFORMATION TRANSPORT	A		46,693		63,396			U
25	Disaster Incident Response Comms Terminal (DI	A						3,863	U
26	JCSE Equipment (USRDECOM)			5,075		5,170		4,845	U
Comm - Satellite Communications									
27	Spectrum METSAT	A		6,800					U
28	Spectrum Portal	A		51					U
29	Defense Enterprise Wideband Satcom Systems			98,399		101,498		97,369	U
30	Transportable Tactical Command Communications	A		99,071		110,450		120,550	U
31	SHF Term			15,054		13,173		38,129	U
32	Assured Positioning, Navigation and Timing	A		43,452		140,953		115,291	U
33	SMART-T (SPACE)			11,340		8,900		15,407	U
34	Global Brdcst Svc - GBS			11,800		8,510		2,763	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
35	ENROUTE MISSION COMMAND (EMC)	A		8,609					U
36	Spectrum Microwave			17,233					U
	Comm - C3 System								
37	COE Tactical Server Infrastructure (TSI)	A		67,533	86,198		99,858		U
	Comm - Combat Communications								
38	Handheld Manpack Small Form Fit (HMS)	A		468,026	547,148		775,069		U
39	Radio Terminal Set, MIDS LVT(2)	A		24,128	8,237				U
40	ARMY LINK 16 SYSTEMS	A					17,749		U
41	Spider Family of Networked Munitions Incr	A		10,930					U
42	Unified Command Suite	A		18,291	19,579		17,984		U
43	COTS Communications Equipment	A		76,030	108,556		191,702		U
44	Family of Med Comm for Combat Casualty Care	A		19,221	19,570		15,957		U
45	Army Communications & Electronics	A		37,856	51,480		89,441		U
	Comm - Intelligence Comm								
47	CI AUTOMATION ARCHITECTURE-INTEL	A		17,078	14,376		13,317		U
48	Defense Military Deception Initiative	A		3,704	5,624		5,207		U
49	MULTI-DOMAIN INTELLIGENCE	A					20,095		U
	Information Security								
50	FAMILY OF BIOMETRICS	A		1,000					U
51	Information System Security Program-ISSP	A		3,600	4,596		987		U
52	Communications Security (COMSEC)	A		147,097	159,400		126,273		U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
53	Defensive CYBER Operations	A		56,962		41,153		27,389	U
54	Insider Threat Program - Unit Activity Monito	A		756		1,760			U
55	Persistent Cyber Training Environment	A		3,000					U
56	SIO CAPABILITY	A						21,303	U
57	BIOMETRIC ENABLING CAPABILITY (BEC)							914	U
58	Items Less Than \$5M (Info Security)	A				260			U
Comm - Long Haul Communications									
59	Base Support Communications			56,052		30,761		9,209	U
Comm - Base Communications									
60	Information Systems			208,721		162,973		219,026	U
61	Emergency Management Modernization Program	A		4,854				4,875	U
62	Home Station Mission Command Centers (HSMCC)	A		47,174		15,227			U
63	Joint Information Environment (JIE)	A				3,177			U
64	Installation Info Infrastructure Mod Program	A		341,314		343,724		223,001	U
Elect Equip - Tact Int Rel Act (TIARA)									
67	JTT/CIBS-M	B		7,686		5,304		5,463	U
68	TERRESTRIAL LAYER SYSTEMS (TLS)					8,081		39,240	U
69	DRUG INTERDICTION PROGRAM (DIP) (TIARA)			5,063					U
70	DCGS-A-INTEL			205,219		197,595		92,613	U
71	JOINT TACTICAL GROUND STATION (JTAGS)-INTEL	A						8,088	U
72	TROJAN	B		20,965		19,359		30,828	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
73	MOD OF IN-SVC EQUIP (INTEL SPT)			61,103		127,508		39,039	U
74	BIOMETRIC TACTICAL COLLECTION DEVICES	A		1,800		13,336		11,097	U
	Elect Equip - Electronic Warfare (EW)								
75	Lightweight Counter Mortar Radar	A		5,400		5,332			U
76	EW Planning & Management Tools (EWPMT)	A		7,568		7,849		783	U
77	AIR VIGILANCE (AV)	A		8,953		8,160		13,486	U
78	Multi-Function Electronic Warfare (MFEW) Syst	A				8,669			U
79	FAMILY OF PERSISTENT SURVEILLANCE CAP.	A		31,493		42,043		14,414	U
80	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES			7,418		40,913		19,111	U
81	CI MODERNIZATION	A		121		300		421	U
	Elect Equip - Tactical Surv. (Tac Surv)								
82	Sentinel Mods			133,910		92,380		47,642	U
83	Night Vision Devices	A		85,202		867,823		1,092,341	U
84	Small Tactical Optical Rifle Mounted MLRF			22,623		7,715		21,103	U
85	Indirect Fire Protection Family Of Systems	A		29,127		61,069		6,153	U
86	FAMILY OF WEAPON SIGHTS (FWS)	A		81,541		86,389		184,145	U
87	ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SE							2,371	U
88	Forward Looking Infrared (IFLIR)	A						11,929	U
89	COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)	A						60,058	U
90	JOINT BATTLE COMMAND - PLATFORM (JBC-P)	A		282,114		243,850		263,661	U
91	JOINT EFFECTS TARGETING SYSTEM (JETS)			25,330		54,206		62,082	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
92	Mod Of In-Svc Equip (LLDR)	A		6,044					U
93	Computer Ballistics: LHMC XM32	A		4,474		7,789		2,811	U
94	Mortar Fire Control System			28,538		17,472		17,236	U
95	Mortar Fire Control Systems Modifications			10,000		7,292		2,830	U
96	Counterfire Radars			16,416		71,404		31,694	U
	Elect Equip - Tactical C2 Systems								
97	Army Command Post Integrated Infrastructure (A				23,000		49,410	U
98	Fire Support C2 Family	A		13,197		9,390		9,853	U
99	AIR & MSL Defense Planning & Control Sys			39,061		62,517		67,193	U
100	IAMD Battle Command System	A		29,629		198,587		301,872	U
101	Life Cycle Software Support (LCSS)			5,420		2,495		5,182	U
102	Network Management Initialization and Service	A		24,448		18,651		31,349	U
103	Maneuver Control System (MCS)	A		260					U
104	Global Combat Support System-Army (GCSS-A)	A		8,815		2,792		11,271	U
105	Integrated Personnel and Pay System-Army (IPP	A		14,100		9,071		16,077	U
106	Reconnaissance and Surveying Instrument Set	A		11,000		12,117			U
107	MOD of In-Svc Equipment (ENFIRE)	A		15,317		14,004		3,160	U
	Elect Equip - Automation								
108	Army Training Modernization			19,220		19,262		9,833	U
109	Automated Data Processing Equip			179,715		151,187		130,924	U
110	ACCESSIONS INFORMATION ENVIRONMENT (AIE)							44,635	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
111	General Fund Enterprise Business Systems Fam	A		15,002		4,448		1,452	U
112	High Perf Computing Mod Pgm (HPCMP)	A		72,610		88,405		69,943	U
113	Contract Writing System	A		6,000		2,459		16,957	U
114	CSS Communications	A		24,700		51,129		73,110	U
115	Reserve Component Automation Sys (RCAS)			27,879		14,848		12,905	U
	Elect Equip - Audio Visual Sys (A/V)								
116	Items Less Than \$5M (Surveying Equipment)			5,000		4,995			U
	Elect Equip - Support								
117	BCT Emerging Technologies	A		19,312		8,491		13,835	U
999	Classified Programs			11,910		1,582		18,304	U
Total Communications and Electronics Equipment				4,219,959		5,276,078		5,822,037	
Budget Activity 03: Other Support Equipment									

Chemical Defensive Equipment									
118	Family Of Non-Lethal Equipment (FNLE)	A		28,480		32,480			U
119	Base Defense Systems (BDS)	A		39,984		98,960		62,295	U
120	CBRN Defense	A		43,289		47,343		55,632	U
121	Smoke & Obscurant Family: SOF (Non AAO Item)			5,050		13,995			U
Bridging Equipment									
122	Tactical Bridging			64,705		60,945		9,625	U
123	Tactical Bridge, Float-Ribbon			57,661		72,074		76,082	U
124	BRIDGE SUPPLEMENTAL SET	A		14,373		32,493		19,867	U

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Line No	Item Nomenclature	Ident Code	FY 2020 Actual*		FY 2021 Enacted**		FY 2022 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
125	Common Bridge Transporter (CBT) Recap Engineer (Non-Construction) Equipment	A		46,748		55,032		109,796	U
126	Handheld Standoff Minefield Detection Sys-HST	B		7,570		5,570		5,628	U
127	Grnd Standoff Mine Detectn Sysm (GSTAMIDS)			40,680		2,497			U
128	HUSKY MOUNTED DETECTION SYSTEM (HMDS)	A		75,586		95,608		26,823	U
129	Robotic Combat Support System (RCSS)			5,300					U
130	EOD Robotics Systems Recapitalization	A		23,115		36,584			U
131	Robotics and Applique Systems			101,056		172,744		124,233	U
132	Render Safe Sets kits Outfits	A		102,684		145,313		84,000	U
133	Family of Boats and Motors Combat Service Support Equipment	A		5,745		5,289			U
134	Heaters and ECU's	A		5,876		8,570		7,116	U
135	Soldier Enhancement							1,286	U
136	Personnel Recovery Support System (PRSS)	A		9,382		8,346		9,741	U
137	Ground Soldier System	A		122,400		137,481		150,244	U
138	Mobile Soldier Power	A		29,364		34,297		17,815	U
139	Force Provider	A		64,400		62,400		28,860	U
140	Field Feeding Equipment			15,973		2,279		2,321	U
141	Cargo Aerial Del & Personnel Parachute System			44,662		55,061		40,240	U
142	Family Of Engr Combat and Construction Sets	A		11,451		23,324		36,163	U
143	Items Less Than \$5M (Eng Spt)	A		4,128		8,014			U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Petroleum Equipment									
144	QUALITY SURVEILLANCE EQUIPMENT	A						744	U
145	Distribution Systems, Petroleum & Water			84,527		76,722		72,296	U
Medical Equipment									
146	Combat Support Medical			147,874		75,875		122,145	U
Maintenance Equipment									
147	Mobile Maintenance Equipment Systems	A		140,053		168,106		14,756	U
148	Items Less Than \$5.0M (Maint Eq)	A		5,608		5,570			U
Construction Equipment									
149	Grader, Road Mtzd, Hvy, 6X4 (CCE)	A				5,406			U
150	Scrapers, Earthmoving	A		3,910		4,188			U
151	Loaders			380		7,711			U
152	Hydraulic Excavator	B		600		12,786			U
153	Tractor, Full Tracked	A		13,060		12,165			U
154	All Terrain Cranes	A		22,403		70,560		112,784	U
155	High Mobility Engineer Excavator (HMEE)	A		30,188		3,703			U
156	Const Equip ESP			38,560		9,582		8,694	U
157	Items Less Than \$5.0M (Const Equip)	A		5,331					U
Rail Float Containerization Equipment									
158	Army Watercraft Esp	A		42,232		40,910		44,409	U
159	Maneuver Support Vessel (MSV)	B		14,185		76,576		76,660	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
160	Items Less Than \$5.0M (Float/Rail) Generators	A		6,920		1,844			U
161	Generators And Associated Equip	A		115,912		101,239		47,606	U
162	Tactical Electric Power Recapitalization Material Handling Equipment	A		14,814		22,216		10,500	U
163	Family Of Forklifts Training Equipment	A		19,016		17,995		13,325	U
164	Combat Training Centers Support			125,411		90,580		79,565	U
165	Training Devices, Nonsystem			215,453		161,814		174,644	U
166	Synthetic Training Environment (STE)			14,449		13,063		122,104	U
167	Aviation Combined Arms Tactical Trainer			4,840					U
168	Gaming Technology In Support of Army Training Test Measure and Dig Equipment (TMD)			13,463		1,950		11,642	U
169	Calibration Sets Equipment			3,030		2,511			U
170	Integrated Family Of Test Equipment (IFTE)			81,058		77,214		42,934	U
171	Test Equipment Modernization (TEMOD)			10,732		14,941			U
172	Test Equipment Modernization (TEMOD) Other Support Equipment	A					399	24,304	U
173	Rapid Equipping Soldier Support Equipment	A		27,877		17,129			U
174	Physical Security Systems (OPA3)	A		88,974		89,251		86,930	U
175	Base Level Common Equipment			15,340		15,650		27,823	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
176	Modification Of In-Svc Equipment (OPA-3)			106,812		66,485		32,392	U
177	BUILDING, PRE-FAB, RELOCATABLE	A		114,559		31,845		32,227	U
178	Special Equipment For User Testing			9,821					U
179	Special Equipment for Test and Evaluation	B				39,436		76,917	U
	Total Other Support Equipment			2,507,054		2,551,722		2,103,168	
Budget Activity 04: Spare and Repair Parts									

OPA2									
180	INITIAL SPARES - C&E			9,757		9,950		9,272	U
	Total Spare and Repair Parts			9,757		9,950		9,272	
	Total Other Procurement, Army			8,551,633		9,527,935		8,873,558	

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5	01	10	3484D15501	Ground Mobility Vehicles (GMV).....	Volume 1 - 35
6	01	10	3636D10000	ARNG HMMWV Modernization Program.....	Volume 1 - 44
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8	01	10	5731D15610	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES.....	Volume 1 - 48
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14	01	10	8331D16506	PLS ESP.....	Volume 1 - 118
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21	01	20	2450D30000	NonTactical Vehicles, Other.....	Volume 1 - 163

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23	02	12	1982B07100	Tactical Network Technology Mod In Svc.....	Volume 2 - 14
24	02	12	1983BW7200	SITUATION INFORMATION TRANSPORT.....	Volume 2 - 20
25	02	12	2161B47200	Disaster Incident Response Comms Terminal (DIRECT).....	Volume 2 - 21
26	02	12	2930BB5777	JCSE Equipment (USRDECOM).....	Volume 2 - 23
27	02	18	2936B09800	Spectrum METSAT.....	Volume 2 - 25
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34	02	18	9915BC4120	Global Brdcst Svc - GBS.....	Volume 2 - 88
35	02	18	9922B08400	ENROUTE MISSION COMMAND (EMC).....	Volume 2 - 90
36	02	18	9923B09900	Spectrum Microwave.....	Volume 2 - 92
37	02	24	8151B70000	COE Tactical Server Infrastructure (TSI).....	Volume 2 - 93
38	02	32	6458B95004	Handheld Manpack Small Form Fit (HMS).....	Volume 2 - 100
39	02	32	6948B22603	Radio Terminal Set, MIDS LVT(2).....	Volume 2 - 119
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91	02	86	0254K32101	JOINT EFFECTS TARGETING SYSTEM (JETS).....	Volume 2 - 438
92	02	86	0255KA3100	Mod Of In-Svc Equip (LLDR).....	Volume 2 - 447
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Items Less Than \$5M (Surveying Equipment)	9998BL5300	116	02	95.....	Volume 2 - 609
JCSE Equipment (USRDECOM)	2930BB5777	26	02	12.....	Volume 2 - 23
JOINT BATTLE COMMAND - PLATFORM (JBC-P)	0245W61990	90	02	86.....	Volume 2 - 427

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
JOINT EFFECTS TARGETING SYSTEM (JETS)	0254K32101	91	02	86.....	Volume 2 - 438
JOINT TACTICAL GROUND STATION (JTAGS)-INTEL	9692BZ8401	71	02	80.....	Volume 2 - 297
JTT/CIBS-M	9522V29600	67	02	80.....	Volume 2 - 278
Joint Information Environment (JIE)	9683B80000	63	02	73.....	Volume 2 - 255
Life Cycle Software Support (LCSS)	9442BD3955	101	02	89.....	Volume 2 - 505
Lightweight Counter Mortar Radar	8387B05201	75	02	83.....	Volume 2 - 320
MOD OF IN-SVC EQUIP (INTEL SPT)	9912BZ9750	73	02	80.....	Volume 2 - 310
MOD of In-Svc Equipment (ENFIRE)	9971B99901	107	02	89.....	Volume 2 - 535
MULTI-DOMAIN INTELLIGENCE	0287BZ6100	49	02	36.....	Volume 2 - 197
Maneuver Control System (MCS)	9742BA9320	103	02	89.....	Volume 2 - 518
Mod Of In-Svc Equip (LLDR)	0255KA3100	92	02	86.....	Volume 2 - 447
Mortar Fire Control System	7500K99300	94	02	86.....	Volume 2 - 451
Mortar Fire Control Systems Modifications	7563AD9300	95	02	86.....	Volume 2 - 459
Multi-Function Electronic Warfare (MFEW) Systems	8491B05000	78	02	83.....	Volume 2 - 328
Network Management Initialization and Services	9705BA9301	102	02	89.....	Volume 2 - 509
Night Vision Devices	0140KA3500	83	02	86.....	Volume 2 - 355
Persistent Cyber Training Environment	0132B65010	55	02	64.....	Volume 2 - 224
Radio Terminal Set, MIDS LVT(2)	6948B22603	39	02	32.....	Volume 2 - 119
Reconnaissance and Surveying Instrument Set	9966BZ9966	106	02	89.....	Volume 2 - 533
Reserve Component Automation Sys (RCAS)	9956BE4167	115	02	92.....	Volume 2 - 603

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
SHF Term	9810BA9350	31	02	18.....	Volume 2 - 54
SIO CAPABILITY	0150B68000	56	02	64.....	Volume 2 - 225
SITUATION INFORMATION TRANSPORT	1983BW7200	24	02	12.....	Volume 2 - 20
SMART-T (SPACE)	9910BC4002	33	02	18.....	Volume 2 - 82
Sentinel Mods	0125WK5057	82	02	86.....	Volume 2 - 340
Signal Modernization Program	1981B00010	22	02	12.....	Volume 2 - 1
Small Tactical Optical Rifle Mounted MLRF	0155K35110	84	02	86.....	Volume 2 - 381
Spectrum METSAT	2936B09800	27	02	18.....	Volume 2 - 25
Spectrum Microwave	9923B09900	36	02	18.....	Volume 2 - 92
Spectrum Portal	2937B09700	28	02	18.....	Volume 2 - 26
Spider Family of Networked Munitions Incr	8558B54020	41	02	32.....	Volume 2 - 131
TERRESTRIAL LAYER SYSTEMS (TLS)	9546B97600	68	02	80.....	Volume 2 - 282
TROJAN	9704BA0326	72	02	80.....	Volume 2 - 301
Tactical Network Technology Mod In Svc	1982B07100	23	02	12.....	Volume 2 - 14
Transportable Tactical Command Communications (T2C	2956B85800	30	02	18.....	Volume 2 - 43
Unified Command Suite	8563B58601	42	02	32.....	Volume 2 - 133

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Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Lookup Matrix by Model

Model:	Sentinel [AN/MPQ-64]	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
WK5057	Sentinel Mods	No

Model:	AN/TPQ-53	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
BA5315	AN/TPQ-53 MOD-IN-SERVICE LINE	No

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Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

Funding (\$ M)

P-3a Modification Title	PYS	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Exhibit P-3a										
Sentinel Mods	640.578	133.910	92.380	47.642	-	47.642	-	-	-	-
AN/TPQ-53 MOD-IN-SERVICE LINE	-	-	-	31.694	-	31.694	-	-	-	-
Totals (Total Obligation Authority)										
Total Obligation Authority	640.578	133.910	92.380	79.336	0.000	79.336	0.000	0.000	0.000	0.000

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604818A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	90	233	339	339	-	339	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	527.846	128.913	151.179	140.036	-	140.036	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	527.846	128.913	151.179	140.036	-	140.036	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	527.846	128.913	151.179	140.036	-	140.036	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	5,864.956	553.275	445.956	413.086	-	413.086	-	-	-	-	-	-

Description:

This funding line is directly aligned to the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

This funding line also supports the Army Network Modernization Strategy LOE 3, Interoperability and LOE 4, Command Post Communications. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

SIGMOD funding line will procure additional and enhanced capabilities to modernize tactical network components by reducing Size, Weight and Power (SWaP) and providing more expeditionary communications, leveraging the current Tactical Network found in Expeditionary Signal Battalions (ESB), future Expeditionary Signal Battalions- Enhanced (ESB-E), Maneuver and Multi-Functional Brigades, and Division and Corps Headquarters. SIGMOD capabilities augment and increase capabilities to units equipped with Tactical Network, allowing them to support the full spectrum of operations with Command Post Secure Wireless (4G LTE & WIFI), Commercial, Coalition, and Top Secret networking enclaves. SIGMOD will provide redundant communications in a satellite denied environment by providing improved Line of Sight Terrestrial Transmission System (TRILOS) and beyond line of sight Troposcatter Transmission System (TROPO) radio systems.

SIGMOD provides the Local Area Network for Mission Partner Environment (MPE), which enables Army units to establish an enduring, tactical and strategic network that allows US Army units to train, integrate, and fight in any theater regardless of the theaters current security classification, and participating coalition Unified Action Partner(s) (UAP).

SIGMOD supports Network Modernization Capability sets/ Integrated Tactical Network (ITN) with Line-of-Sight (LOS) Backhaul, Voice/Radio Bridging, and Command Post Communications capabilities. This includes Cyber Security Updates and Secure But Unclassified (SBU) Domain for improved interoperability, usability, flexibility, and readiness as well as, smaller more expeditionary technology. It includes but is not limited to LOS radios with Point to Point, Point to Multipoint and Mesh networking topologies, as well as integrated waveforms. Also provides wireless coverage for a squad (5-10 soldiers) and provides Mobile Broadband networking capabilities.

The following SIGMOD Capabilities/Systems are part of the base effort for this funding line:

Commercial Coalition Equipment (CCE): Provides both Commercial and Coalition communications LANs and radio cross-banding capabilities supporting command control and coalition partners in order to enable Mission Command between forces. By integrating disparate and unique forces communications, the network is extended and Mission Command is further enabled.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604818A
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Line Item MDAP/MAIS Code: N/A

There are two variants for CCE, the CCEv2 AN/TYQ-167(V)2 and the CCEv4 AN/TYQ-167(V)4. The CCEv2 is primarily designed to support Defense Support to Civil Authorities but can also support Mission Partner Environment (MPE) as needed. The CCEv4 is primarily designed to support MPE.

Modular Communications Node - Advanced Enclave (MCN-AE): Provides Top Secret/Sensitive Compartmented Information (TS/SCI) communications to Brigades, Divisions, and Corps, over the Tactical Network. MCN-AE enables operation/intelligence conversion and reduction of satellite communications systems in the Command Post (CP). MCN-AE also supports expeditionary / initial entry operations.

Command Post Secure Wireless (4G LTE and WiFi): Expands the Tactical network below battalion, using an expeditionary 4G LTE cellular and wireless (WiFi) network. The 4G LTE network enables Situational Awareness (SA) and Mission Command (MC) communications capability. The WiFi capability enables wireless Mission Command within the command post for wireless laptops, tablets and phone, dramatically reduces TOC set-up and teardown times. Secure Wireless allows Brigade and above command posts (Up to 200 soldiers) and Command Post Integrated Infrastructure (CPI2) mobile command post vehicles to connect to and use the Tactical Network as backhaul.

Terrestrial Transmission System (TRILOS): Enables broadband communications in a satellite denied environment at higher throughput than the current High Capacity Line of Sight System (HCLOS). TRILOS will enable Army units to reduce reliance on costly satellite bandwidth. TRILOS will extend the network by utilizing a significantly reduced SWaP radio versus the aging HCLOS system. TRILOS will also provide RF path diversity, making the system more resilient to jamming in a contested environment. Provides point to point and point to multi point. The Transmission Systems Capability Production Document (CPD) was approved on 30 Jan 2015.

Troposcatter Transmission System (TROPO): Enables broadband communications in a satellite denied environment by providing Beyond Line of Sight (BLOS) capability over longer ranges and at higher throughput than the Tropo System, originally fielded in the 1970s. The new TROPO extends the network by utilizing a significantly reduced SWaP radio versus the legacy system. TROPO will enable Army units to reduce reliance on costly satellite bandwidth. TROPO will also provides RF path diversity, making the system more resilient to jamming in a contested environment.

M-DRIVE is a pre-integrated hardware/software suite that provides enhanced capabilities to further converge Army server infrastructure, increasing Warfighter mission capabilities and agility. M-DRIVE is an (COTS) integrated, virtualized, software defined networking hosting platform that allows multiple mission network enclaves (up to 7) to operate on a single hyper-converged platform. It is a revolutionary Cross Domain Solution for Access (CDS-A). It requires integration with a Commandant Command's Mission Partner Environment.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	206	209	254	-	254	-	-	-	-
	Total Obligation Authority	119.040	80.900	108.699	-	108.699	-	-	-	-
ANG	Quantity	25	124	67	-	67	-	-	-	-
	Total Obligation Authority	8.712	47.712	23.323	-	23.323	-	-	-	-
AR	Quantity	2	6	18	-	18	-	-	-	-
	Total Obligation Authority	1.161	22.567	8.014	-	8.014	-	-	-	-
Total: Secondary Distribution	Quantity	233	339	339	-	339	-	-	-	-
	Total Obligation Authority	128.913	151.179	140.036	-	140.036	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 12: Comm - Joint Communications

P-1 Line Item Number / Title:
 1981B00010 / Signal Modernization Program

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604818A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B00010 / Signal Modernization Program	P-5a, P-21			90 / 527.846	233 / 128.913	339 / 151.179	339 / 140.036	- / -	339 / 140.036
P-40	Total Gross/Weapon System Cost				90 / 527.846	233 / 128.913	339 / 151.179	339 / 140.036	- / -	339 / 140.036

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base procurement dollars in the amount of \$140.036 million supports procurement of twelve (12) Commercial Coalition Equipment V2 (CCE); one hundred and twelve (112) Commercial Coalition Equipment V4 (CCE); sixty (60) Secure Wireless systems; one hundred and thirty-one (131) TRILOS to support line of sight communications supporting the Tactical Network; six (6) Integrated Tactical Network Silvus Radios and eighteen (18) Troposcatter Transmission System (TROPO) radio systems. Also, procures two (2) M-Drive systems to support Multi Domain Task Force (MDTF) #1.

The Transmission Systems Capability Production Document (CPD) was approved on 30 Jan 2015.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				90	233	339	339	-	339
Gross/Weapon System Cost (\$ in Millions)				527.846	128.913	151.179	140.036	-	140.036
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				527.846	128.913	151.179	140.036	-	140.036
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				527.846	128.913	151.179	140.036	-	140.036
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				5,864.956	553.275	445.956	413.086	-	413.086

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MCN-AE HW-Equipment ^(f)	74.554	166	12.376	73.738	42	3.097	69.944	18	1.259	-	-	-	-	-	-	-	-	-
CCE V2 HW-Equipment ^(f)	220.878	90	19.879	211.000	18	3.798	162.667	18	2.928	165.917	12	1.991	-	-	-	165.917	12	1.991
CCE V4 HW-Equipment ^(f)	-	-	-	-	-	-	-	-	-	132.821	112	14.876	-	-	-	132.821	112	14.876
Cellular Solution HW - Equipment	880.000	30	26.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secure Wireless (WiFi) HW - Equipment ^(f)	231.161	62	14.332	266.575	40	10.663	229.148	54	12.374	233.733	60	14.024	-	-	-	233.733	60	14.024
TROPO HW-Equipment ^(f)	385.611	18	6.941	-	-	-	-	-	-	412.778	18	7.430	-	-	-	412.778	18	7.430
TRILOS HW - Equipment ^(f)	181.740	300	54.522	168.093	150	25.214	166.562	203	33.812	172.595	131	22.610	-	-	-	172.595	131	22.610
M-Drive	-	-	-	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	2.500
Integrated Tactical Network (ITN) Silvus	-	-	-	-	-	-	39.696	46	1.826	40.500	6	0.243	-	-	-	40.500	6	0.243
SBU VSAT and gateway (SFAB)	-	-	189.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Tactical Network VSAT (ITN)	-	-	-	-	-	25.049	-	-	34.359	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program						Item Number / Title [DODIC]: B00010 / Signal Modernization Program					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Engineering / Integration / Tech Services Support	-	-	45.663	-	-	8.897	-	-	9.747	-	-	9.897	-	-	-	-	-	9.897
Technical Refresh	-	-	-	-	-	0.125	-	-	1.049	-	-	1.589	-	-	-	-	-	1.589
Non- Recurring Engineering	-	-	36.994	-	-	0.054	-	-	0.535	-	-	-	-	-	-	-	-	-
System Test / Validation	-	-	8.987	-	-	2.127	-	-	0.793	-	-	0.528	-	-	-	-	-	0.528
Data	-	-	1.895	-	-	5.758	-	-	4.509	-	-	3.804	-	-	-	-	-	3.804
Spares	-	-	18.476	-	-	5.777	-	-	6.408	-	-	11.207	-	-	-	-	-	11.207
Training	-	-	23.851	-	-	7.767	-	-	6.392	-	-	6.897	-	-	-	-	-	6.897
Fielding	-	-	19.707	-	-	4.046	-	-	3.348	-	-	3.605	-	-	-	-	-	3.605
Software	-	-	20.433	-	-	9.525	-	-	13.621	-	-	19.290	-	-	-	-	-	19.290
<i>Subtotal: Recurring Cost</i>	-	-	499.456	-	-	111.897	-	-	132.960	-	-	120.491	-	-	-	-	-	120.491
Non Recurring Cost																		
COVID 19 unused travel funds excess	-	-	-	-	-	0.192	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.192	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	499.456	-	-	112.089	-	-	132.960	-	-	120.491	-	-	-	-	-	120.491
Support - Program Management Cost																		
Government Management	-	-	16.627	-	-	7.632	-	-	11.186	-	-	12.372	-	-	-	-	-	12.372
Contractor Management	-	-	11.763	-	-	9.192	-	-	7.033	-	-	7.173	-	-	-	-	-	7.173
<i>Subtotal: Support - Program Management Cost</i>	-	-	28.390	-	-	16.824	-	-	18.219	-	-	19.545	-	-	-	-	-	19.545
Gross/Weapon System Cost	5,864.956	90	527.846	553.275	233	128.913	445.956	339	151.179	413.086	339	140.036	-	-	-	413.086	339	140.036

Remarks:

MCN-AE: FY20 HW buy was completed in 2 separate orders resulting in higher unit pricing due to lower lot qty's/lower discounting.
 CCE V2: FY20 HW buy included additional Commercial Radio Case (CoRCs) required from previous year buy. CCE V4 unit price is less than CCE V2 due to no CoRC requirement. CCE V2 HW Equipment - FY22 unit cost increase is ~2% due to inflation.
 Secure Wireless (WiFi) HW: - FY22 unit cost increase is ~2% due to inflation.
 TRILOS: FY20 thru FY22 unit costs reflect lot quantity pricing.
 ITN Silvus: FY21 and FY22 funds Silvus radio requirements. FY22 unit cost increase is ~2% due to inflation.
 Technical Refresh: FY21 and FY22 funds TROJAN Network Control Center (TNCC) Enhanced Gateway (TEG) upgrades which were fielded in FY15; this is a critical component to the MCN-AE program in support of Transport Convergence (Phase 1).
 Non-Recurring Engineering: FY20 and FY21 NRE is required to fund the TROPO planner effort.

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Exhibit P-5, Cost Analysis: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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System Test/Validation: FY20-22 TROPO IOTE requirements; test originally scheduled for FY20; therefore, majority of testing documentation funded in FY20.
 Spares:FY22 increase due to requirements for Secure Wireless and TRILOS pipeline spares as well as CCE V4 and TROPO initial spares.
 Software: FY21 and FY22 ramps up due to increased requirements in TRILOS and CCE V4 software licenses.

Unit cost increase for each of the items was less than 2%, consistent with estimate for inflation.
 Gov't management is for Matrix support from other organizations, travel, and PM.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	206	209	254	-	254
	Total Obligation Authority	119.040	80.900	108.699	-	108.699
ANG	Quantity	25	124	67	-	67
	Total Obligation Authority	8.712	47.712	23.323	-	23.323
AR	Quantity	2	6	18	-	18
	Total Obligation Authority	1.161	22.567	8.014	-	8.014
Total:	Quantity	233	339	339	-	339
Secondary Distribution	Total Obligation Authority	128.913	151.179	140.036	-	140.036

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
2035A / 02 / 12			1981B00010 / Signal Modernization Program					B00010 / Signal Modernization Program				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MCN-AE HW-Equipment		2017	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Aug 2017	Jan 2018	24	76.300	Y		
MCN-AE HW-Equipment		2019	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2019	Jun 2019	48	70.854	Y		
MCN-AE HW-Equipment		2020	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2020	May 2020	42	73.738	Y		
MCN-AE HW-Equipment		2021	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2021	May 2021	18	69.944	Y		
CCE V2 HW-Equipment		2017	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jul 2017	Dec 2017	24	238.000	Y		
CCE V2 HW-Equipment		2018	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2018	Sep 2018	24	241.000	Y		
CCE V2 HW-Equipment		2019	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2019	Jun 2019	18	159.056	Y		
CCE V2 HW-Equipment		2020	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2020	May 2020	18	211.000	Y		
CCE V2 HW-Equipment		2021	GDMS CHS IV / Taunton, MA	C / IDDQ	Aberdeen Proving Ground, MD	Jan 2021	May 2021	18	162.667	Y		
CCE V2 HW-Equipment		2022	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2022	May 2022	12	165.917	Y		
CCE V4 HW-Equipment ^(†)		2022	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2022	May 2022	112	132.821	Y		
Secure Wireless (WiFi) HW - Equipment ^(†)		2019	GDMS CHS IV / Taunton, MA	C / IDDQ	Aberdeen Proving Ground, MD	Jan 2019	May 2019	32	248.188	Y		
Secure Wireless (WiFi) HW - Equipment ^(†)		2020	GDMS CHS IV / Taunton, MA	C / IDDQ	Aberdeen Proving Ground, MD	Jan 2020	May 2020	40	266.575	Y		
Secure Wireless (WiFi) HW - Equipment ^(†)		2021	GDMS CHS IV / Taunton, MA	C / IDDQ	Aberdeen Proving Ground, MD	Jan 2021	May 2021	54	229.148	Y		
Secure Wireless (WiFi) HW - Equipment ^(†)		2022	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2022	May 2022	60	233.733	Y		
TROPO HW-Equipment ^(†)		2019	Raytheon Company / Dulles , VA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2019	Nov 2019	18	385.611	Y		
TROPO HW-Equipment ^(†)		2022	Raytheon Company / Dulles , VA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2022	Nov 2022	18	412.778	Y		
TRILOS HW - Equipment ^(†)		2017	ADS / Virginia Beach, VA	C / IDIQ	Aberdeen Proving Ground, MD	Aug 2017	Jan 2018	120	179.000	Y		
TRILOS HW - Equipment ^(†)		2018	ADS / Virginia Beach, VA	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2018	Jan 2019	110	185.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12			P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program					Item Number / Title [DODIC]: B00010 / Signal Modernization Program				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
TRILOS HW - Equipment ^(†)		2019	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2019	Jan 2020	70	181.314	Y		
TRILOS HW - Equipment ^(†)		2020	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDDQ	Aberdeen Proving Ground, MD	Feb 2020	Sep 2020	150	168.093	Y		
TRILOS HW - Equipment ^(†)		2021	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDDQ	Aberdeen Proving Ground, MD	Feb 2021	Sep 2021	203	166.562	Y		
TRILOS HW - Equipment ^(†)		2022	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2022	Sep 2022	131	172.595	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
CCE V4 HW-Equipment																															
1		2022	ARMY	112	0	112																							112		
Secure Wireless (WiFi) HW - Equipment																															
Prior Years Deliveries: 30																															
2		2019	ARMY	32	0	32																						32			
2		2020	ARMY	40	0	40																						40			
2		2021	ARMY	54	0	54																						54			
2		2022	ARMY	60	0	60																						60			
TROPO HW-Equipment																															
3		2019	ARMY	18	0	18																						18			
3		2022	ARMY	18	0	18																						18			
TRILOS HW - Equipment																															
4		2017	ARMY	120	0	120																						120			
4		2018	ARMY	110	0	110																						110			
5		2019	ARMY	70	0	70																						70			
5		2020	ARMY	150	0	150																						150			
5		2021	ARMY	203	0	203																						203			
5		2022	ARMY	131	0	131																						131			

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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Cost Elements (Units in Each)					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
CCE V4 HW-Equipment																																	
	1	2022	ARMY	112	0	112																							112				
Secure Wireless (WiFi) HW - Equipment																																	
Prior Years Deliveries: 30																																	
	2	2019	ARMY	32	0	32								5	5	5	5	5	5	5	2									0			
	2	2020	ARMY	40	0	40																							15				
	2	2021	ARMY	54	0	54																							54				
	2	2022	ARMY	60	0	60																							60				
TROPO HW-Equipment																																	
	3	2019	ARMY	18	0	18																							0				
	3	2022	ARMY	18	0	18																							18				
TRILOS HW - Equipment																																	
	4	2017	ARMY	120	105	15	10	5																					0				
	4	2018	ARMY	110	0	110	-	-	-	10	10	10	10	10	10	10	15	15	15	5										0			
	5	2019	ARMY	70	0	70																							0				
	5	2020	ARMY	150	0	150																							140				
	5	2021	ARMY	203	0	203																							203				
	5	2022	ARMY	131	0	131																							131				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12										P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program										Item Number / Title [DODIC]: B00010 / Signal Modernization Program				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														B A L A N C E						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A S O F 1 O C T	Calendar Year 2021														Calendar Year 2022																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
CCE V4 HW-Equipment																																								
1		2022	ARMY	112	0	112																							A -	-	-	-	14	14	14	14	14	42		
Secure Wireless (WiFi) HW - Equipment																																								
Prior Years Deliveries: 30																																								
2		2019	ARMY	32	32	0																																		0
2		2020	ARMY	40	25	15	5	4	4	2																														0
2		2021	ARMY	54	0	54					A -	-	-	-	3	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
2		2022	ARMY	60	0	60																																		39
TROPO HW-Equipment																																								
3		2019	ARMY	18	18	0																																	0	
3		2022	ARMY	18	0	18																																	18	
TRILOS HW - Equipment																																								
4		2017	ARMY	120	120	0																																	0	
4		2018	ARMY	110	110	0																																	0	
5		2019	ARMY	70	70	0																																	0	
5		2020	ARMY	150	10	140	10	10	10	10	10	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	0	
5		2021	ARMY	203	0	203					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	120
5		2022	ARMY	131	0	131																																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2022 Army													Date: May 2021																		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program													Item Number / Title [DODIC]: B00010 / Signal Modernization Program												

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
CCE V4 HW-Equipment																																	
	1	2022	ARMY	112	70	42	14	14	9	-	-	-	-	5															0				
Secure Wireless (WiFi) HW - Equipment																																	
Prior Years Deliveries: 30																																	
	2	2019	ARMY	32	32	0																							0				
	2	2020	ARMY	40	40	0																							0				
	2	2021	ARMY	54	54	0																							0				
	2	2022	ARMY	60	21	39	5	5	5	5	5	5	5	4															0				
TROPO HW-Equipment																																	
	3	2019	ARMY	18	18	0																							0				
	3	2022	ARMY	18	0	18	-	2	2	2	2	2	2	2	2	2													0				
TRILOS HW - Equipment																																	
	4	2017	ARMY	120	120	0																							0				
	4	2018	ARMY	110	110	0																							0				
	5	2019	ARMY	70	70	0																							0				
	5	2020	ARMY	150	150	0																							0				
	5	2021	ARMY	203	203	0																							0				
	5	2022	ARMY	131	11	120	11	11	11	11	11	11	11	11	11	11	10												0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	GDMS CHS IV - Taunton, MA	1	15	30	0	4	0	4	0	4	4	4	8
2	GDMS CHS IV - Taunton, MA	1	15	30	0	4	0	4	0	4	4	4	8
3	Raytheon Company - Dulles , VA	1	15	30	0	7	0	7	0	4	7	7	11
4	ADS - Virginia Beach, VA	1	15	30	0	6	0	6	0	9	7	7	16
5	Ultra - Canadian Commercial Corp - Ottawa, Canada	1	15	30	0	7	0	7	0	4	7	7	11

Remarks:
Production rates represent monthly values.

"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	982.645	483.439	347.782	436.524	-	436.524	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	982.645	483.439	347.782	436.524	-	436.524	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	982.645	483.439	347.782	436.524	-	436.524	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line enables Joint All Domain Command and Control (JADC2) by providing network connectivity and transport for the ground domain. TNT MIS supports the Army Network Modernization Strategy Line of Effort 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team Capability Set approach to achieve the Network Modernization Strategy.

Tactical Network Technology Modernization in Service (TNT MIS) funding modernizes the Army's Tactical Network Transport. Tactical Network Transport provides both networking at-the-halt and networking on-the-move, keeping highly mobile and dispersed forces connected to one another and to the Army's global information network. It connects all users to each other to allow information sharing from theater down to the maneuver battalion and to select Company-level roles, to joint and multinational elements, and the Department of Defense Information Network (DoDIN). With essential voice, video and data services, at all levels of security, commanders can make decisions faster than ever before and from anywhere on the battlefield. Tactical Network Transport employs a combination of terrestrial and satellite-based transport options to provide robust, redundant connectivity with greater network reliability and better end-to-end connectivity than traditional point-to-point networks. In FY22, the primary focus of TNT MIS is modernizing Tactical Network Transport At the Halt.

TNT MIS supports the near-term objectives of the Army Network Modernization Strategy by standardizing the Tactical Network Transport baseline to help create the first "future state" of the network. TNT MIS supports the Army's Mission Command Network Modernization Implementation Plan mid-term goals by providing technology insertion that incorporates cyber and electronic warfare resiliency required for the expeditionary Army. TNT MIS will introduce new capabilities and new technologies through engineering changes to the tactical network baseline. TNT MIS provides the Army with acquisition agility to respond to the network environment in which it operates and remain the world's most lethal land force. Modernizing the Army's Tactical Network Transport is one of the Army's top six priorities.

TNT MIS provides technology insertion for tactical network transport and modernization of unsustainable/end of life commercial technology and other information technology (IT) component end item equipment (switches, routers, servers etc.) procured under tactical networking efforts. Technology insertion and modernization are critical to ensure the Army's tactical network maintains its security posture and compliance with new Information Assurance policies. Modernization reduces life cycle costs by reducing size, weight and power through collapsing and converging capabilities that previously resided on individual hardware components, and leverages common COTS solutions across various programs.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	483.439	347.782	436.524	-	436.524	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications					P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	483.439	347.782	436.524	-	436.524	-	-	-	-

Empty space for detailed justification										
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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 12: Comm - Joint Communications

P-1 Line Item Number / Title:
 1982B07100 / Tactical Network Technology Mod In Svc

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B07110 / Tactical Network Technology Mod In Svc		A		- / 982.645	- / 483.439	- / 347.782	- / 436.524	- / -	- / 436.524
P-40	Total Gross/Weapon System Cost				- / 982.645	- / 483.439	- / 347.782	- / 436.524	- / -	- / 436.524

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$436.524 million focus on procuring and fielding At the Halt Mission Network refresh, initial spares, and modernization of unsustainable/end of life commercial technology in Army units (Division, Brigade Combat Team (BCT) and Corps), Regional Hub Nodes (RHN), and lab assets.

(a) Upgrades RHN infrastructure to provide the uppermost level of network architecture, enabling regionalized reach-back capabilities to the Army's global network via commercial and military SATCOM transport. The five RHNs around the globe provide Combatant Commanders with an Army asset that provides all encompassing, seamless tactical global network point of presence that can be leveraged anywhere, anytime. (\$16.089 million)

(b) Supports Tactical Public Key Infrastructure (PKI), allowing equipment and services on the Army's tactical network to be cryptographically authenticated as genuine. (\$1.727 million)

(c) SATCOM obsolescence procures and fields modernized Satellite Transportable Terminals (STT) to 20 units as well as funds Tactical Hub Node (THN) redesign to address obsolescence at Division headquarters, with many of these systems approaching 20 years in the field. STT modernization consolidates multiple supply items and configurations into a single supportable package with container mounted electronics for ease of repair, eliminates obsolete high failure components and provides a more stable antenna platform. THN funding supports redesign of a modernized mobile communications system to integrate, manage, and control all communications within a Division's footprint. The SATCOM obsolescence cost elements modernize a total of 768 STT and 18 THN by FY27. This ensures previously fielded baseband and SATCOM configuration items remain interoperable with new capabilities to ensure the network extends to the tactical edge of the battlefield. (STT: \$43.094 million, THN: \$2.540 million)

(d) Technology Insertion: Procures and fields technology insertion and modernization to ensure the Army's tactical network maintains its security posture and compliance with Information Assurance policies required to maintain Authority to Operate (ATO). Network Integration Technology Enhancement (NITE), formerly 5th Gen Tech Insert, addresses obsolescence in 22 At the Halt units and reduces life cycle costs by reducing size, weight and power through collapsing and converging capabilities that previously resided on individual hardware components, and leveraging common COTS solutions across various programs. The significant FY22 investment modernizes end of life components in the At the Halt baseline. These FY22 upgrades are critical to defending the network from emerging cyber threats, ensuring commanders maintain communications in contested or congested environments. (\$155.662 million)

(e) Supports procurement and fielding of Scalable Network Nodes (SNN) for expeditionary communications. This effort provides units with a tailorable capability for full spectrum early-entry signal support. The SNN has the capacity to integrate JWICS (Joint Worldwide Intelligence Communications Systems)/SIPRNet (Secret Internet Protocol Router Network)/NIPRNet (Non-Secure Internet Protocol Router Network)/ Coalition voice, data and VTC to scale across all phases of military operations. The Joint Communications Support Element-like equipment purchase delivers modular and scalable capabilities and is intended to modernize elements of Tactical Network Transport. (\$124.227million)

(f) Supports integration of commercial satellite communications into Tactical Network Transport, including but not limited to LEO (Low Earth Orbit)/ MEO (Medium Earth Orbit)/ GEO (Geosynchronous Orbit) HTS (High Throughput Satellites). (\$12.000 million)

(g) Fielding, training, engineering and other support to Tactical Network Transport equipped units. (\$81.185 million)

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc	Item Number / Title [DODIC]: B07110 / Tactical Network Technology Mod In Svc

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	982.645	483.439	347.782	436.524	-	436.524
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	982.645	483.439	347.782	436.524	-	436.524
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	982.645	483.439	347.782	436.524	-	436.524

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Lab Assets	-	-	8.417	-	-	0.540	-	-	6.839	-	-	7.634	-	-	-	-	-	7.634
RHN Obsolescence	-	-	38.865	-	-	58.980	-	-	15.774	-	-	16.089	-	-	-	-	-	16.089
TNMS	-	-	7.664	-	-	0.547	-	-	1.515	-	-	1.546	-	-	-	-	-	1.546
Tactical PKI	-	-	0.017	-	-	-	-	-	1.693	-	-	1.727	-	-	-	-	-	1.727
SATCOM Obsolescence - STT	-	-	158.947	-	-	17.466	-	-	11.669	-	-	43.094	-	-	-	-	-	43.094
SATCOM Obsolescence - THN	-	-	5.775	-	-	4.590	-	-	10.598	-	-	2.540	-	-	-	-	-	2.540
TCN-L	-	-	58.939	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOSC-L	-	-	4.994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NextGen POP B-Kit	-	-	82.936	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NextGen SNE B-kit	-	-	13.655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NextGen SNE A-Kit	-	-	10.278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NextGen PoP A-Kit	-	-	2.188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMMWVs	-	-	21.213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRAP A-kits	-	-	5.587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tech Insertions	-	-	46.440	-	-	20.358	-	-	78.840	-	-	155.662	-	-	-	-	-	155.662
Scalable Network Nodes (SNN)	-	-	47.651	-	-	102.276	-	-	69.020	-	-	124.227	-	-	-	-	-	124.227

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Exhibit P-5, Cost Analysis: PB 2022 Army													Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc						Item Number / Title [DODIC]: B07110 / Tactical Network Technology Mod In Svc						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Post Deployment Software Support	-	-	183.914	-	-	80.945	-	-	20.194	-	-	12.845	-	-	-	-	-	12.845
Commercial Broadband	-	-	-	-	-	-	-	-	10.379	-	-	12.000	-	-	-	-	-	12.000
ABCT On the Move	-	-	-	-	-	71.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>697.480</i>	-	-	<i>356.702</i>	-	-	<i>226.521</i>	-	-	<i>377.364</i>	-	-	-	-	-	<i>377.364</i>
Non Recurring Cost																		
Engineering	-	-	32.012	-	-	20.808	-	-	14.206	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>32.012</i>	-	-	<i>20.808</i>	-	-	<i>14.206</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>729.492</i>	-	-	<i>377.510</i>	-	-	<i>240.727</i>	-	-	<i>377.364</i>	-	-	-	-	-	<i>377.364</i>
Support - Fielding Cost																		
Fielding	-	-	58.893	-	-	29.205	-	-	34.739	-	-	15.796	-	-	-	-	-	15.796
<i>Subtotal: Support - Fielding Cost</i>	-	-	<i>58.893</i>	-	-	<i>29.205</i>	-	-	<i>34.739</i>	-	-	<i>15.796</i>	-	-	-	-	-	<i>15.796</i>
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	82.425	-	-	16.554	-	-	30.636	-	-	16.550	-	-	-	-	-	16.550
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<i>82.425</i>	-	-	<i>16.554</i>	-	-	<i>30.636</i>	-	-	<i>16.550</i>	-	-	-	-	-	<i>16.550</i>
Support - Program Management Cost																		
Contractor Management	-	-	41.410	-	-	14.508	-	-	14.775	-	-	7.890	-	-	-	-	-	7.890
Government Management	-	-	28.269	-	-	16.973	-	-	11.980	-	-	11.736	-	-	-	-	-	11.736
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>69.679</i>	-	-	<i>31.481</i>	-	-	<i>26.755</i>	-	-	<i>19.626</i>	-	-	-	-	-	<i>19.626</i>
Support - System Engineering Cost																		
System Engineering	-	-	27.093	-	-	5.790	-	-	7.249	-	-	7.188	-	-	-	-	-	7.188
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>27.093</i>	-	-	<i>5.790</i>	-	-	<i>7.249</i>	-	-	<i>7.188</i>	-	-	-	-	-	<i>7.188</i>
Support - System Test and Evaluation Cost																		
Development Test and Evaluation	-	-	3.717	-	-	0.108	-	-	2.598	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	<i>3.717</i>	-	-	<i>0.108</i>	-	-	<i>2.598</i>	-	-	-	-	-	-	-	-	-
Support - Training Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc	Item Number / Title [DODIC]: B07110 / Tactical Network Technology Mod In Svc
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Services	-	-	11.346	-	-	22.791	-	-	5.078	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	11.346	-	-	22.791	-	-	5.078	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	982.645	-	-	483.439	-	-	347.782	-	-	436.524	-	-	-	-	-	436.524

Remarks:

P5 Cost category TNMS is the Tactical NetOps Management System (TNMS)
 FY22 increase in total funding driven by Tactical Network Transport On the Move transition to CECOM sustainment in FY21 and the FY22 focus on modernizing the At the Halt baseline
 FY22 Post Deployment Software Support decreases from FY20 as Tactical Network Transport On the Move transitions to CECOM sustainment
 FY22 training services decrease as Tactical Network Transport On the Move transitions to CECOM sustainment
 FY22 fielding and contractor management decreases from FY21 as Tactical Network Transport On the Move transitions to CECOM sustainment
 FY22 funding increases for Initial Spares and Repair Parts to units fielded NITE under Tech Insertions
 FY22 Technology insertion increases from 5 units in FY21 to 22 units in FY22 as the Army begins procuring operational equipment to modernize end of life components in the At the Halt baseline.
 FY22 SATCOM Obsolescence - STT increases slightly as procurement ramps up
 FY22 SNN fieldings increase to 4 ESB-Es per year in FY22+, up from 3 in FY21

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	483.439	347.782	436.524	-	436.524
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	483.439	347.782	436.524	-	436.524

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	P-1 Line Item Number / Title: 1983BW7200 / SITUATION INFORMATION TRANSPORT
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	65.485	46.693	63.396	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	65.485	46.693	63.396	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	65.485	46.693	63.396	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line supports the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

In FY21, Situational Information Transport (SIT) completes fielding of networking-on-the-move to the last two Stryker Brigade Combat teams of a combined program total of 33 active component Infantry Brigade Combat Teams and Stryker Brigade Combat Teams receiving SIT equipment. SIT also funds the procurement of initial spares and repair parts for these BCTS. SIT and the Tactical Network Technology Modernization in Service (TNT MIS) budget line provide unity of effort as part of the Army Network Modernization Strategy to provide on-the-move capability. Tactical Network Transport systems will be modernized and upgraded over time via TNT MIS.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	46.693	63.396	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	46.693	63.396	-	-	-	-	-	-

Justification:

BW7200 has no FY2022 funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	P-1 Line Item Number / Title: 2161B47200 / Disaster Incident Response Comms Terminal (DIRECT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	3.863	-	3.863	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	3.863	-	3.863	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	3.863	-	3.863	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Disaster Incident Response Emergency Communications Terminal (DIRECT) capability provides communication to each of the 50 States and 4 Territories to meet the information exchange requirements of the States National Guard (NG) operational commanders while performing Defense Support of Civil Authorities (DSCA) missions. DIRECT leverages the Army's Tactical Network to provide seamless network connectivity to support first responders and emergency managers.

DIRECT Capabilities consist of:

Commercial Coalition Equipment (CCE): Provides commercial internet access to civilian and multinational partners to reduce Size Weight and Power (SWaP) technology, thus fully addressing the increasingly high demand for accelerated capabilities. Interconnects disparate voice communications networks/devices used by multiple response agencies at an incident site.

Cellular Solution (Commercial Wireless and 4th Generation Long Term Evolution (4G LTE)): Provides immediate cellular and wireless network connectivity to first responders, state authorities, and federal authorities allowing for enhanced Command and Control (C2) and shared situational awareness at an incident site.

DIRECT capability was previously funded under The Joint Incident Site Communications Capability (JISCC) (B0009) and are realigned to B47200 beginning in FY22. This is a new start and not a realignment as funding ended in FY 2019 in JISCC line.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.863	-	3.863	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.863	-	3.863	-	-	-

Justification:

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications		P-1 Line Item Number / Title: 2161B47200 / Disaster Incident Response Comms Terminal (DIRECT)
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
FY 2022 Base procurement dollars in the amount of \$3.863 million supports government and SETA support, software license renewal and system maintenance. Funds in this budget line are a new start as the last year of funding in the Joint Incident Site Communications Capability (JISCC) (B0009) funding line was FY 2019.		
Disaster Incident Response Comms Terminal (DIRECT) is a new start in FY 2022.		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	P-1 Line Item Number / Title: 2930BB5777 / JCSE Equipment (USRDECOM)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	169.202	5.075	5.170	4.845	-	4.845	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	169.202	5.075	5.170	4.845	-	4.845	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	169.202	5.075	5.170	4.845	-	4.845	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE, assigned under Joint Enabling Capabilities Command (JECC), US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide Command, Control, Communications and Computers (C4) systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The JCSE mission is to provide, on short notice, those critical communications required to support Joint Task Force support (JTF) and Joint Special Operations Task Force (JSOTF) headquarters. These assets support the warfighter's ability to deploy rapidly and immediately provide the positive command and control required. This support includes contingency and crisis communications for the Joint Chiefs of Staff, Combatant Commands, Services, Defense agencies, non-Defense agencies, and foreign governments. The program's modernization goals include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. Per Defense Planning Guidance (DPG) and Director, Joint Staff Memorandum (DJSM) 0148-20, the Army is mandated to fund 1/3rd of JCSE's validated equipment modernization plan.

Note: Note: Currently employed commercial-off-the-shelf (COTS) equipment is approaching the end of its life cycle and requires replacement, along with technology refresh, to meet the modernization program goals which include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command and Control communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.075	5.170	4.845	-	4.845	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.075	5.170	4.845	-	4.845	-	-	-

Justification:

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications		P-1 Line Item Number / Title: 2930BB5777 / JCSE Equipment (USRDECOM)
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2022 Base funding in the amount of \$4.845 million procures communications equipment. This equipment encompasses major upgrades to large and small aperture mobile satellite systems, everything over internet protocol (EoIP), airborne/en-route, forced entry, single-channel radios, and power generation equipment.</p> <p>Note: Currently employed commercial-off-the-shelf (COTS) equipment is approaching the end of its life cycle and requires replacement, along with technology refresh, to meet the modernization program goals which include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command and Control communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 2936B09800 / Spectrum METSAT
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	22.788	6.800	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	22.788	6.800	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	22.788	6.800	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Commercial Spectrum Enhancement Act (CSEA) Title II, Public Law 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the costs associated with relocating communication systems from spectrum bands which were auctioned for commercial purposes.

- The SRF is funded with proceeds from Federal Communications Commission (FCC) conducted auctions of spectrum licenses.
- SRF funds have an indefinite obligation period and remain available until expended (X Year).
- The Department of Defense (DoD) Information Officer (CIO) executes oversight of the DoD spectrum relocation and sharing efforts.

Spectrum METSAT funds support the utilization of the National Oceanic and Atmospheric Administration (NOAA) Radio Frequency Interference Monitoring System (RFIMS) to design, build, install and maintain a system to monitor and detect undesirable radio frequency interference at seven (7) Army ground stations, with a centralized monitoring hub.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.800	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.800	-	-	-	-	-	-	-

Justification:

B09800 has no funding request in FY22.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 2937B09700 / Spectrum Portal
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.508	0.051	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.508	0.051	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.508	0.051	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Commercial Spectrum Enhancement Act (CSEA) Title II, Public Law 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the costs associated with relocating communication systems from spectrum bands which were auctioned for commercial purposes.

- The SRF is funded with proceeds from Federal Communications Commission (FCC) conducted auctions of spectrum licenses.
- SRF funds have an indefinite obligation period and remain available until expended (X Year).
- The Department of Defense (DoD) Information Officer (CIO) executes oversight of the DoD spectrum relocation and sharing efforts.

Spectrum Portal is a web-based, secure tool to provide coordination between Advance Wireless Services (AWS-3) licenses and affected federal spectrum users. The overall cost is shared between the Department of Commerce (DoC), Department of Defense (DoD), and the Department of Labor (DoL).

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.051	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.051	-	-	-	-	-	-	-

Justification:

B09700 has no funding request in FY22.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,187.311	98.399	101.498	97.369	-	97.369	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,187.311	98.399	101.498	97.369	-	97.369	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,187.311	98.399	101.498	97.369	-	97.369	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	72,438.886	-	-	-	-	-	-	-	-	-	-	-

Description:

The Defense Enterprise Wideband Satellite Communications (SATCOM) Systems (DEWSS) funding line provides Super High Frequency (SHF) wideband with Anti-Jam (AJ) military satellite communications readiness and resiliency supporting critical national strategic and tactical Command, Control, Communications and Intelligence (C3I) requirements. The DEWSS supports not only the Army, but it may be considered a Joint program supporting all of the Department of Defense (DoD) and has oversight at the Chairman of the Joint Chief of Staff (CJCS) level. The DEWSS/Wideband Global SATCOM (WGS) will be used in conjunction with the terrestrial transmissions of the Department of Defense Information Network (DoDIN) and other communications systems to provide end-to-end communications and long-haul connectivity. DEWSS is a system of systems composed of various hardware and software components; large earth terminal antenna, baseband terrestrial transmission terminals and payload control systems. Requirements vary based on geographic area, terrain, end users, and joint partners (both national and international). DEWSS consists of the following efforts: B08701/GMF Enhancement, B08900/Special Communications Links Program, BB8416/Enterprise Wideband Satellite Terminal (Mod) - The Modernization of Enterprise Terminals (MET), BB8501/Enterprise Wideband Satellite Terminal Digital EQ, and BB8509/Enterprise Wideband Sat Payload Control System.

B08701/GMF Enhancement - The AN/TSC-93E Tactical Satellite Service Life Extension Program (SLEP) provides satellite communications (SATCOM) capability in the SHF (Super High Frequency) range. AN/TSC-93E operates over both commercial and military SHF satellites for Army Expeditionary Signal Battalions (ESBs). 93E, along with the Warfighter Information Network - Tactical (WIN-T) program's AN/TSC-156 Phoenix Terminal, is the Army's primary means of extending Defense Information Systems Network (DISN) services (Unclassified but Sensitive Internet Protocol Router Network (NIPR), Secret Internet Protocol Router Network (SIPR), Joint Worldwide Intelligence Communications System (JWICS), Defense Switched Network (DSN), Defense Red Switched Network (DRSN), and Secure Video Teleconference (SVTC) to deployed Army forces. AN/TSC-93E SLEP has replaced existing "D" models with "E" models. E model upgrades the AN/TSC-93E from 20 Mbps to 50 Mbps, and extends the service life of the AN/TSC-93E until 2025. AN/TSC-93E configuration is as follows: up-armored, consisting of antenna pallet housing the AS-3036D antenna mounted on an M1152 D1 vehicle towing a M1102 trailer. The M1102 transports two MEP-803A generators, a SN-571 SYNC box, and a 20 gallon fuel cell. The cell will increase fuel capacity over 200%. A second M1152A1 will tow a fifth wheel commercial trailer transporting the AN/TSC-93E 250 shelter. The 93E configuration will also work in a non-up armored mode using the M1097 and the M1113.

B08900/Special Communications Links Program - The Senior National Leadership Communications (SNLC) program and the required modernization efforts exist through a bilateral agreement that requires continual technology and communications equipment modernization. Per Lead MILDEP designation memorandum - dated 28 July 2000, this is a must fund effort. This funding is for the acquisition, delivery and integration activities that supports the equipment modernization required for this unique and critical communications program. This program supports the Direct Communications Link (DCL) which provides critical communications to support the continuing relations between the President of the United States, the U.S. Department of State (DoS), U.S. Secretary of Defense (SECDEF), and other high level United States members and their foreign counterparts.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A

Line Item MDAP/MAIS Code: N/A

BB8416/Enterprise Wideband Satellite Terminal (Mod) - The Modernization of Enterprise Terminals (MET) program is a complete modernization of fixed X-Band enterprise satellite communications terminals. The MET family of terminal equipment will increase the capacity of existing satellite communications facilities by adding military Ka-Band capability, enabling the Army to maximize its use of the Wideband Global SATCOM (WGS) constellation. The MET's modular design and incorporation of Commercial-Off-The-Shelf (COTS) systems will improve the sustainability of Army enterprise satellite communications systems, reduce life cycle costs, and extend the life of the enterprise terminal family beyond 2025.

BB8501/Enterprise Wideband Satellite Terminal Digital EQ - The Digital Communications Satellite Subsystem (DCSS) is an array of baseband equipment that is integral to the Defense Enterprise Wideband SATCOM System (DEWSS). DCSS is the interconnection between the Department of Defense Information Network (DoDIN) and the DEWSS satellite earth terminal equipment, providing users with access to the Wideband Global SATCOM (WGS) system, the DoDIN, and other military and commercially available satellite constellations. Provides deployed Warfighters with global connectivity to military command and control systems, reach back to the sustaining base, and access to enterprise information resources and the Defense Information Systems Network. Interfaces with the national strategic communications infrastructure to support Presidential and senior DoD leadership communications.

BB8509/Enterprise Wideband Sat Payload Control System - The Enterprise Wideband Satellite Payload Control System is responsible for the Department of Defense (DoD) readiness and resiliency for the management of Defense Satellite Communications System (DSCS) and Wideband Global SATCOM (WGS) satellite resources, which are required for rapid and efficient reaction to operational needs for all DOD users to include the President and International Partners. The Enterprise Wideband Satellite Payload Control System ensure efficient use and security of satellite power and spectrum, overcoming existing and projected bandwidth constraints, and allow U.S. forces to achieve information superiority on the battlefield. This system provides reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	98.399	101.498	97.369	-	97.369	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	98.399	101.498	97.369	-	97.369	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications **P-1 Line Item Number / Title:** 2948BB8500 / Defense Enterprise Wideband Satcom Systems

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303142A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B08701 / GMF Enhancement				2 / 80.466	- / 0.800	- / -	- / -	- / -	- / -
P-5	B08900 / Special Communications Links Program				- / 36.914	- / 2.348	- / 2.393	- / 2.242	- / -	- / 2.242
P-5	BB8416 / Enterprise Wideband Satellite Terminal - (Mod)				- / 930.329	- / 26.659	- / 28.401	- / 32.000	- / -	- / 32.000
P-5	BB8501 / Enterprise Wideband Satellite Terminal Digital EQ				- / 962.967	- / 29.902	- / 28.866	- / 25.559	- / -	- / 25.559
P-5	BB8509 / Enterprise Wideband Sat Payload Control System				- / 1,176.635	- / 38.690	- / 41.838	- / 37.568	- / -	- / 37.568
P-40	Total Gross/Weapon System Cost				- / 3,187.311	- / 98.399	- / 101.498	- / 97.369	- / -	- / 97.369

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 BB8500 Base procurement dollars in the amount of \$97.369 million support the following programs:

B08701 has no FY 2022 funding request.

FY 2022 B08900 Base procurement dollars in the amount of \$2.242 million supports modernization of the Direct Communications Link (DCL) software suite to support modern computers, network hardware and operating systems. Funding provides integration, installation and training support for software and associated hardware.

FY 2022 BB8416 Base Procurement dollars in the amount of \$26.442 million supports the engineering, systems integration, post-production integration, testing and installation support of Modernization of Enterprise Terminals (MET) systems fielding; MET Interactive Electronic Technical Manual (IETM) upgrades, technology refresh of the terminal systems; and the procurement, site preparation and installation of radomes.

FY 2022 BB8416 Base procurement dollars of \$5.558 million will support procurement of a High Altitude Electromagnetic Pulse (HEMP) survivable shelter and power generation capability to support installation of a Future Beyond-Line-of-Site Terminal (FAB-T) satellite communications terminal providing Nuclear Command and Control communications at US Army Europe Headquarters in Stuttgart Germany in support of the Enduring Requirement for Operation European Deterrence Initiative (EDI).

FY 2022 BB8501 Base procurement dollars in the amount \$25.559 million procures satellite terminal and baseband equipment and associated management systems in support of Network Enterprise Technology Command (NETCOM) relocation of the satellite earth station Ft. Buckner, Okinawa. Provides the minimum essential baseband and telecommunications equipment to support the modernization of Digital Communications Satellite System (DCSS) components and their integration into the Defense Enterprise Wideband SATCOM Systems (DEWSS), including procurement, installation, and testing of the SATCOM Unified Net-centric System (SUNS). Additionally, provides replacement of legacy Enhanced Bandwidth Efficient Modem (EBEM) with a modernized Frequency Division Multiple Access (FDMA) Modem which is now more appropriately named Enhanced Digital Intermediate Frequency (IF) Modem (EDIM). Supports Chairman, Joint Chiefs of Staff (CJCS) validated Combatant Commanders/Service long haul communication requirements and provides baseband equipment support for the Modernization of Enterprise Terminals (MET) program.

FY 2022 BB8509 Base procurement dollars in the amount of \$37.568 million supports the readiness and resiliency in the procurement of hardware/software and security (including cyber anti-jam efforts) for the enterprise wideband satellite payload control system, which acquires and installs state-of-the-art strategic and tactical satellite payload control, spectrum monitoring, transmission control and network planning systems for wideband satellite constellations.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A
Line Item MDAP/MAIS Code: N/A		
<p>"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), these items are necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: B08701 / GMF Enhancement

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	2	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	80.466	0.800	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	80.466	0.800	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	80.466	0.800	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	40,233.000	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	74.333	-	-	0.350	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	74.333	-	-	0.350	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Package Fielding Cost</i>	-	-	74.333	-	-	0.350	-	-	-	-	-	-	-	-	-	-	-	-
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	1,750.000	1	1.750	-	-	0.155	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	1.750	-	-	0.155	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	3.151	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	3.151	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	1.232	-	-	0.245	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	1.232	-	-	0.245	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	40,233.000	2	80.466	-	-	0.800	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: B08701 / GMF Enhancement
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution						
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.800	-	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.800	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army											Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems						Item Number / Title [DODIC]: B08900 / Special Communications Links Program					
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Procurement Quantity (Units in Each)				-		-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				36.914		2.348		2.393		2.242		-		2.242			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				36.914		2.348		2.393		2.242		-		2.242			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				36.914		2.348		2.393		2.242		-		2.242			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		-		-		-		-	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Recurring Cost																		
Software Development Integration	-	-	2.802	-	-	0.688	-	-	0.205	-	-	0.246	-	-	-	-	-	0.246
Subtotal: Recurring Cost	-	-	2.802	-	-	0.688	-	-	0.205	-	-	0.246	-	-	-	-	-	0.246
Subtotal: Software Cost	-	-	2.802	-	-	0.688	-	-	0.205	-	-	0.246	-	-	-	-	-	0.246
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	3.302	-	-	0.550	-	-	0.898	-	-	0.526	-	-	-	-	-	0.526
Subtotal: Recurring Cost	-	-	3.302	-	-	0.550	-	-	0.898	-	-	0.526	-	-	-	-	-	0.526
Subtotal: Package Fielding Cost	-	-	3.302	-	-	0.550	-	-	0.898	-	-	0.526	-	-	-	-	-	0.526
Support - Program Management Cost																		
Government Management	-	-	30.810	-	-	1.110	-	-	0.128	-	-	0.134	-	-	-	-	-	0.134
Subtotal: Support - Program Management Cost	-	-	30.810	-	-	1.110	-	-	0.128	-	-	0.134	-	-	-	-	-	0.134
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	1.162	-	-	1.336	-	-	-	-	-	1.336
Subtotal: Support - System Engineering Cost	-	-	-	-	-	-	-	-	1.162	-	-	1.336	-	-	-	-	-	1.336
Gross/Weapon System Cost	-	-	36.914	-	-	2.348	-	-	2.393	-	-	2.242	-	-	-	-	-	2.242

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: B08900 / Special Communications Links Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Remarks:
Program Management consists of travel, training and supplies.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.348	2.393	2.242	-	2.242
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	2.348	2.393	2.242	-	2.242

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				930.329	26.659	28.401	32.000	-	32.000
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				930.329	26.659	28.401	32.000	-	32.000
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				930.329	26.659	28.401	32.000	-	32.000
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				93,032.900	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Modernization of Enterprise Terminals (MET) Hardware	-	-	673.291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MET Depot Support	-	-	14.817	-	-	4.500	-	-	-	-	-	-	-	-	-	-	-	-
MET Post Deployment Software Support (PDSS)	-	-	6.586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MET Tech Refresh	-	-	5.361	-	-	8.160	-	-	0.300	-	-	1.572	-	-	-	-	-	1.572
Radome Hardware & Install	-	-	-	-	-	2.400	-	-	3.451	-	-	4.841	-	-	-	-	-	4.841
Digital Intermediate Frequency (IF)	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
High Altitude Electromagnetic Pulse (HEMP)	-	-	-	-	-	-	-	-	-	-	-	5.535	-	-	-	-	-	5.535
<i>Subtotal: Recurring Cost</i>	-	-	<i>700.055</i>	-	-	<i>15.060</i>	-	-	<i>3.751</i>	-	-	<i>12.948</i>	-	-	-	-	-	<i>12.948</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>700.055</i>	-	-	<i>15.060</i>	-	-	<i>3.751</i>	-	-	<i>12.948</i>	-	-	-	-	-	<i>12.948</i>
Support - Fielding Cost																		
Fielding	-	-	54.154	-	-	3.722	-	-	17.434	-	-	11.632	-	-	-	-	-	11.632
<i>Subtotal: Support - Fielding Cost</i>	-	-	<i>54.154</i>	-	-	<i>3.722</i>	-	-	<i>17.434</i>	-	-	<i>11.632</i>	-	-	-	-	-	<i>11.632</i>
Support - Program Management Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Government Management	-	-	130.671	-	-	4.780	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Support - Program Management Cost</i>	-	-	130.671	-	-	4.780	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
Support - System Engineering Cost																		
System Engineering	-	-	45.449	-	-	3.097	-	-	6.966	-	-	7.170	-	-	-	-	-	7.170
<i>Subtotal: Support - System Engineering Cost</i>	-	-	45.449	-	-	3.097	-	-	6.966	-	-	7.170	-	-	-	-	-	7.170
Gross/Weapon System Cost	93,032.900	-	930.329	-	-	26.659	-	-	28.401	-	-	32.000	-	-	-	-	-	32.000

Remarks:

FY 2022 BB8416 Base Procurement dollars in the amount of \$26.442 million supports the engineering, systems integration, post-production integration, testing and installation support of Modernization of Enterprise Terminals (MET) systems fielding; MET Interactive Electronic Technical Manual (IETM) upgrades, technology refresh of the terminal systems; and the procurement, site preparation and installation of radomes.

FY2022 Base procurement dollars of \$5.558 million procures High Altitude Electromagnetic Pulse (HEMP) Shelter in support of the Enduring Requirement for Operation European Deterrence Initiative (BEDI). This HEMP Shelter is a survivable shelter and power generation capability to support installation of a Future Beyond-Line-of-Site Terminal (FAB-T) satellite communications terminal providing Nuclear Command and Control communications at US Army Europe Headquarters in Stuttgart Germany.

These efforts listed below explain the fluctuation amongst unit cost from FY 21 to FY 22 for this program effort as it is comprised of multiple components:

- FY 2021 to FY 2022 Modernization of Enterprise Terminals (MET) Tech Refresh cost increase is due to initial planning and engineering for future MET tech insertion and tech refresh.
- FY 2021 to FY 2022 Radome Hardware and Install cost increase is due to cover production lead times for radome procurements for Camp Humphreys and installation for Ft. Buckner, Menwith Hill and Ft. Greely.
- FY 2022 Digital Intermediate Frequency (IF) \$1.000 million is for integration and test of COTS products.
- FY 2021 and FY 2022 Fielding cost increases from FY2020 are due to supporting the fielding for Camp Humphreys (2 terminals), Menwith Hill, Buckner site prep and Kwajalein site prep for relocation to different facility. Increase also contributed by locations and conditions of these sites which are more costly.
- Program Management consists of travel, training and supplies.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	26.659	28.401	32.000	-	32.000
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	26.659	28.401	32.000	-	32.000

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	962.967	29.902	28.866	25.559	-	25.559
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	962.967	29.902	28.866	25.559	-	25.559
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	962.967	29.902	28.866	25.559	-	25.559

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	64,197.800	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Baseband Production Support	-	-	16.047	-	-	0.354	-	-	0.304	-	-	0.378	-	-	-	-	-	0.378
Landstuhl Baseband Installs	-	-	283.080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precision Timing Rack Modification	-	-	2.423	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Enhanced Bandwidth Efficient Modem (EBEM)	-	-	1.104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transport Convergence	-	-	2.781	-	-	0.750	-	-	-	-	-	-	-	-	-	-	-	-
Prototyping, Integration, Test, Training (PITT) Lab	-	-	3.506	-	-	1.173	-	-	-	-	-	-	-	-	-	-	-	-
SATCOM Unified Net-Centric System (SUNS)	-	-	25.822	-	-	20.836	-	-	8.903	-	-	4.590	-	-	-	-	-	4.590
Communication Configuration and Asset Management System (CCAMS)	-	-	4.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Power Distribution Rack	-	-	-	-	-	0.354	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems
		Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Ft. Buckner Equipment	-	-	-	-	-	1.316	-	-	9.134	-	-	3.405	-	-	-	-	-	3.405
Camp Roberts Equipment	-	-	-	-	-	0.452	-	-	-	-	-	-	-	-	-	-	-	-
Frequency Division Multiple Access (FMDA) Modem	-	-	-	-	-	-	-	-	6.880	-	-	-	-	-	-	-	-	-
Enhanced Digital Intermediate Frequency (IF) Modem (EDIM); previously named FDMA.	-	-	-	-	-	-	-	-	-	-	-	2.346	-	-	-	-	-	2.346
Enterprise SATCOM Gateway Modem (ESGM)	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Camp Humphreys Equipment	-	-	-	-	-	-	-	-	-	-	-	1.409	-	-	-	-	-	1.409
Serial Interface Patching System	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Recurring Cost</i>	-	-	338.763	-	-	25.735	-	-	25.221	-	-	14.128	-	-	-	-	-	14.128
<i>Subtotal: Flyaway Cost</i>	-	-	338.763	-	-	25.735	-	-	25.221	-	-	14.128	-	-	-	-	-	14.128
Support - Fielding Cost																		
Fielding	-	-	9.945	-	-	0.340	-	-	1.065	-	-	3.490	-	-	-	-	-	3.490
<i>Subtotal: Support - Fielding Cost</i>	-	-	9.945	-	-	0.340	-	-	1.065	-	-	3.490	-	-	-	-	-	3.490
Support - Production Engineering Cost																		
Production Engineering	-	-	13.676	-	-	1.000	-	-	0.665	-	-	3.250	-	-	-	-	-	3.250
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	13.676	-	-	1.000	-	-	0.665	-	-	3.250	-	-	-	-	-	3.250
Support - Program Management Cost																		
Government Management	-	-	397.382	-	-	1.527	-	-	0.175	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: Support - Program Management Cost</i>	-	-	397.382	-	-	1.527	-	-	0.175	-	-	0.350	-	-	-	-	-	0.350
Support - System Engineering Cost																		
System Engineering	-	-	203.201	-	-	1.300	-	-	1.740	-	-	4.341	-	-	-	-	-	4.341
<i>Subtotal: Support - System Engineering Cost</i>	-	-	203.201	-	-	1.300	-	-	1.740	-	-	4.341	-	-	-	-	-	4.341
Gross/Weapon System Cost	64,197.800	-	962.967	-	-	29.902	-	-	28.866	-	-	25.559	-	-	-	-	-	25.559

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Remarks:
 These efforts are multiple systems of sub-systems; consisting of multiple components. There should not be any quantities associated with these efforts.

- FY 2021 to FY 2022 SATCOM Unified Net-Centric System (SUNS) cost decrease is due to the procurement of only 1 SUNS.
- FY 2021 to FY 2022 Ft. Buckner equipment cost decrease is due to requirement to procure in order to meet production and integration lead time for newly constructed Satellite Earth Terminal Station in FY 2022. Beneficial Occupancy Date (BOD) is scheduled to be complete in FY 2022.
- In FY 2022, Frequency Division Multiple Access (FDMA) Modem is renamed to Enhanced Digital IF Modem (EDIM) as a more appropriate name indicative of its capabilities. Additionally, the funding required in FY2022 has been reduced as fewer modems are being procured.
- FY 2022 Enterprise SATCOM Gateway Modem (ESGM) cost increase is due to changes in system architecture and unique requirements at Tobyhanna Army Depot. Initial ESGM procurements were completed in FY2015.
- FY 2022 Camp Humphreys Military Construction, Army (MCA) equipment cost increase is due to requirement to procure in order to meet production and integration lead time for newly constructed Satellite Earth Terminal Station in FY 2023.
- FY 2022 Serial Interface Patching System (SIPS) cost increase is due to procure and field replacement for legacy Multiplexer Integration and DCSS Automation System (MIDAS) at Army Gateways.
- FY 2022 System and Production Engineering cost increase is due to increased Baseband Modernization project workload.
- FY 2022 Fielding cost increase is due to the procurement of Ft. Buckner Military Construction, Army (MCA) Equipment in FY 2021.
- Program Management consists of travel, training and supplies.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	29.902	28.866	25.559	-	25.559
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	29.902	28.866	25.559	-	25.559

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,176.635	38.690	41.838	37.568	-	37.568
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,176.635	38.690	41.838	37.568	-	37.568
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,176.635	38.690	41.838	37.568	-	37.568

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	69,213.824	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Wideband Satellite Communications Trend Analysis and Anomaly Resolution Solution (WSTARS)	-	-	129.335	-	-	4.715	-	-	3.904	-	-	6.903	-	-	-	-	-	6.903
Wideband Remote Monitoring System (WRMS)	-	-	133.959	-	-	1.792	-	-	4.178	-	-	0.939	-	-	-	-	-	0.939
Common Network Planning System (CNPS)	-	-	135.785	-	-	3.400	-	-	3.634	-	-	3.152	-	-	-	-	-	3.152
Global Satellite Configuration Control Element (GSCCE)	-	-	201.778	-	-	-	-	-	4.423	-	-	3.488	-	-	-	-	-	3.488
Wideband SATCOM Operational Management System (WSOMS)	-	-	14.271	-	-	4.574	-	-	12.850	-	-	8.908	-	-	-	-	-	8.908
Joint Mngmt. & Ops. System (JMOS)	-	-	132.902	-	-	0.040	-	-	0.226	-	-	-	-	-	-	-	-	-
Remote Monitor Control Equipment (RMCE)	-	-	182.137	-	-	1.100	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Wideband Trainer & Certification System (WTCS)	-	-	3.449	-	-	1.457	-	-	1.371	-	-	1.641	-	-	-	-	-	1.641
Radio Frequency Modulated Orderwire (RFMOW)	-	-	141.488	-	-	-	-	-	0.114	-	-	-	-	-	-	-	-	-
Power Control Management System (PCMS)	-	-	18.345	-	-	7.775	-	-	0.678	-	-	2.276	-	-	-	-	-	2.276
Post Gres Enterprise Class Data Management Platform	-	-	6.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Replacement and Patch Test Facility (RPTF)	-	-	0.368	-	-	-	-	-	0.464	-	-	-	-	-	-	-	-	-
Replacement Radio Frequency Interconnecting Subsystem (RRFIS)	-	-	-	-	-	-	-	-	0.271	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1,099.822	-	-	24.853	-	-	32.113	-	-	27.307	-	-	-	-	-	27.307
<i>Subtotal: Flyaway Cost</i>	-	-	1,099.822	-	-	24.853	-	-	32.113	-	-	27.307	-	-	-	-	-	27.307
Support - Fielding Cost																		
Fielding	-	-	0.128	-	-	1.000	-	-	0.933	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Support - Fielding Cost</i>	-	-	0.128	-	-	1.000	-	-	0.933	-	-	1.000	-	-	-	-	-	1.000
Support - Production Engineering Cost																		
Production Engineering	-	-	3.902	-	-	2.681	-	-	2.262	-	-	2.008	-	-	-	-	-	2.008
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	3.902	-	-	2.681	-	-	2.262	-	-	2.008	-	-	-	-	-	2.008
Support - Program Management Cost																		
Government Management	-	-	49.473	-	-	4.996	-	-	1.343	-	-	1.493	-	-	-	-	-	1.493
<i>Subtotal: Support - Program Management Cost</i>	-	-	49.473	-	-	4.996	-	-	1.343	-	-	1.493	-	-	-	-	-	1.493
Support - System Engineering Cost																		
System Engineering	-	-	23.310	-	-	5.160	-	-	5.187	-	-	5.760	-	-	-	-	-	5.760
<i>Subtotal: Support - System Engineering Cost</i>	-	-	23.310	-	-	5.160	-	-	5.187	-	-	5.760	-	-	-	-	-	5.760
Gross/Weapon System Cost	69,213.824	-	1,176.635	-	-	38.690	-	-	41.838	-	-	37.568	-	-	-	-	-	37.568

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Remarks:

- These efforts are multiple systems of sub-systems; consisting of multiple components. There should not be any quantities associated with these efforts.
- FY 2021 to FY 2022 Wideband Satellite Communications Trend Analysis and Anomaly Resolution Solution (WSTARS) cost increase is a direct result of transitioning from initial procurement to global procurement in FY 2022.
- FY 2021 to FY 2022 Wideband Remote Monitoring System (WRMS) cost decrease is a direct result of transitioning from procurement to sustainment.
- FY 2021 to FY 2022 Global Satellite Configuration Control Element (GSCCE) cost decrease is a direct result of meeting the initial WSTARS integration in FY21.
- FY 2021 to FY 2022 to Wideband Satellite Operations Management System (WSOMS) cost decrease is a direct result of the completion of a specific USASMDC CG cybersecurity and resiliency requirement to increase the WSOMS security posture.
- FY21 to FY22 Power Control and Management Subsystem (PCMS) cost increase is due to a two year slip in contract award from FY20 to FY22. Contract was not awarded in FY20 due to unacceptable Technology Readiness Level. FY20 funds were reallocated to implement United States Army Space and Missile Defense Command (USASMDC) cybersecurity and resiliency requirements to mitigate vulnerabilities identified in National Defense Authorization Act (NDAA) 1647 mandated cybersecurity evaluation of the Wideband Global SATCOM system.
- Program Management consists of frequent travel (CONUS/OCONUS), training and supplies.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	38.690	41.838	37.568	-	37.568
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	38.690	41.838	37.568	-	37.568

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	347	0	132	138	-	138	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	358.487	99.071	110.450	120.550	-	120.550	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	358.487	99.071	110.450	120.550	-	120.550	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	358.487	99.071	110.450	120.550	-	120.550	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,033.104	-	836.742	873.551	-	873.551	-	-	-	-	-	-

Description:

The Transportable Tactical Command Communications (T2C2) funding line supports the Army's Network Modernization Strategy Line of Effort #1, Unified Network. T2C2 provides a family of expeditionary and mobile satellite terminals. Industry innovation over the last four years has resulted in exponential market growth, with multiple vendors providing commercial terminals available for military needs. To meet Army Expeditionary Signal Battalion-Enhanced (ESB-E), Security Force Assistance Brigade (SFAB), Integrated Tactical Network (ITN) Brigade Combat Teams (BCTs), Multi-Domain Task Force (MDTF), SPACE Brigade, and other formation needs, the program office will be leveraging a T2C2 "Family of Terminals" (FoT) strategy, which will enable procurement of the most capable and formation appropriate terminals for the requirement. The FoT strategy includes communications packages ranging from small teams up to Command Post operations, and includes material solutions previously fielded. The program will transition the T2C2 Lite material solution from an inflatable satellite terminal solution to a lighter, more expeditionary and capable rigid dish solution. The new variant, T2C2 Lite v2, will be procured starting in FY22 to meet remaining T2C2 lite requirements.

The approved Army Procurement Objective (APO) is 885 T2C2 systems, and 633 Scalable Class of Unified Terminal (SCOUT) variants. The T2C2 Capability Production Document (CPD) was validated in November 2013. In 2018, the Army approved procurement of tri-band (X, Ka, Ku) systems for both variants to provide increased operational flexibility. T2C2 transitioned into Full Rate Production (FRP) in January 2018 after a successful FRP Decision and immediately began fielding in March 2018. The FoT strategy was approved by the MDA in an ADM signed 11 February 2021.

As part of its unified tactical network, the Army's scalable family of expeditionary ground satellite communication (SATCOM) terminals transmit voice, video and data to provide mission command, situational awareness and an improved common operational picture in support of multi-domain operations. With a variety of terminals and sizes to support different mission requirements, these SATCOM terminals provide interoperable high-speed, high-capacity connectivity, so Soldiers can communicate across vast distances and in austere locations and terrains, virtually anytime, anywhere, without the need of static infrastructure. The SATCOM systems in the portfolio support and complement the Army's tactical network and architecture and help increase the operational reach and situational awareness of the entire force.

The SCOUT terminals provide increased capability and superior performance at a reduced Size, Weight and Power (SWaP) as compared to the T2C2 Lite. Efficiencies of SCOUT include reduced setup/tear down time, lighter weight, and fewer transit cases when compared to the T2C2 Lite. The T2C2 Enhanced Lite Baseband enables up to 48 additional Users over Secure Internet Protocol Router/Non-Secure Internet Protocol Router (SIPR/NIPR), consistent with ITN requirements.

Global Rapid Response Information Package (GRRIP) systems are used to provide lightweight early-entry communications packages for small teams at the tactical edge. The GRRIP system will be utilized as the ultra-light solution under the T2C2 FoT strategy.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Deployable Ku-Band Earth Terminals (DKET) are satellite terminals which are used to augment the Army's communications network infrastructure in theater. The terminals operate as hubs, providing inter- and intra-theater satellite links and network hub services for disadvantaged forward operating bases (FOBs).		

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	75	102	-	102	-	-	-	-
	Total Obligation Authority	99.071	68.712	65.499	-	65.499	-	-	-	-
ANG	Quantity	-	54	24	-	24	-	-	-	-
	Total Obligation Authority	-	31.500	30.362	-	30.362	-	-	-	-
AR	Quantity	-	3	12	-	12	-	-	-	-
	Total Obligation Authority	-	10.238	24.689	-	24.689	-	-	-	-
Total:	Quantity	-	132	138	-	138	-	-	-	-
Secondary Distribution	Total Obligation Authority	99.071	110.450	120.550	-	120.550	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B85800 / Transportable Tactical Command Communications (T2C)	P-5a, P-21	A		347 / 358.487	0 / 99.071	132 / 110.450	138 / 120.550	- / -	138 / 120.550
P-40	Total Gross/Weapon System Cost				347 / 358.487	0 / 99.071	132 / 110.450	138 / 120.550	- / -	138 / 120.550

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 base procurement dollars of \$115.600 million supports the procurement of FRP quantities for T2C2 Lite v2 (55), T2C2 Lite Enhanced Basebands (24), T2C2 Heavy (18), and SCOUT ITN (60) tri-band systems. Funding also supports procurement of applicable spares, fielding and training of systems, maintains system engineering for current fielded systems, and any approved emerging modular communications or network package requirements as a result of ITN experimentation. Hardware configuration changes include improved modems, radome material, and Compact Inflation Units (CIUs). In addition, FY 2022 funding will be used to provide configuration management, engineering and logistics support for the GRRIP system. This funding supports SFAB units, including help desk and maintenance support for fielded systems, and fielding of Ka-Band Kit retrofits (Qty 216).

FY2022 base procurement dollars of \$2.223 million supports the procurement and fielding of modular communications and network packages to support the Enduring Requirement for Base Operation Spartan Shield (BOSS).

FY2022 base procurement dollars of \$2.727 million supports the procurement and fielding of commercially available modular communications systems to remote CENTCOM Area of Operation (AOR) locations with limited or challenged communications services, as well as fielding of units rapidly deploying. The communications and network package will be able to scale from a platoon to battalion size element, include a portable satellite antenna, small-form networking servers, and backup battery equipment. The communications and network package will be transportable by two-man teams to remote locations in order to respond to contingency deployment operations requiring tri-band capability (X, Ka, Ku), multiple enclave availability, easily transportable (commercial transport), and scalable communications. This requirement supports the the Direct War Cost for Operation Inherent Resolve (OIR).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)	Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	347	0	132	138	-	138
Gross/Weapon System Cost (\$ in Millions)	358.487	99.071	110.450	120.550	-	120.550
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	358.487	99.071	110.450	120.550	-	120.550
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	358.487	99.071	110.450	120.550	-	120.550

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,033.104	-	836.742	873.551	-	873.551

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
T2C2 Lite ^(†)	372.674	187	69.690	326.613	80	26.129	326.622	45	14.698	-	-	-	-	-	-	-	-	-
T2C2 Lite v2 ^(†)	-	-	-	-	-	-	-	-	-	326.618	55	17.964	-	-	-	326.618	55	17.964
T2C2 Lite Enhanced Baseband ^(†)	-	-	-	-	-	-	-	-	-	151.833	24	3.644	-	-	-	151.833	24	3.644
T2C2 Heavy ^(†)	467.299	147	68.693	454.318	66	29.985	454.321	84	38.163	454.333	18	8.178	-	-	-	454.333	18	8.178
T2C2 Tri-band Delta Kit	155.049	82	12.714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCOUT ITN ^(†)	-	-	-	-	-	-	-	-	-	442.417	60	26.545	-	-	-	442.417	60	26.545
Recurring Engineering	-	-	1.618	-	-	1.618	-	-	6.311	-	-	7.144	-	-	-	-	-	7.144
Subtotal: Recurring Cost	-	-	152.715	-	-	57.732	-	-	59.172	-	-	63.475	-	-	-	-	-	63.475
Non Recurring Cost																		
RHN Upgrades	-	-	16.849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercially Available Systems	760.960	25	19.024	630.000	11	6.930	925.000	4	3.700	545.400	5	2.727	-	-	-	545.400	5	2.727
Base Operations Spartan Shield (BOSS)	-	-	-	-	-	-	-	-	-	-	-	2.223	-	-	-	-	-	2.223
AN/PSC-15 (GRRIP) Upgrade	10.000	54	0.540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSS-VSAT	-	-	90.372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)						Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:							

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Non Recurring Cost</i>	-	-	126.785	-	-	6.930	-	-	3.700	-	-	4.950	-	-	-	-	-	4.950
<i>Subtotal: Hardware Cost</i>	-	-	279.500	-	-	64.662	-	-	62.872	-	-	68.425	-	-	-	-	-	68.425
Software Cost																		
Recurring Cost																		
Software	-	-	13.378	-	-	12.190	-	-	9.175	-	-	5.680	-	-	-	-	-	5.680
<i>Subtotal: Recurring Cost</i>	-	-	13.378	-	-	12.190	-	-	9.175	-	-	5.680	-	-	-	-	-	5.680
Non Recurring Cost																		
Production Verification Testing	-	-	-	-	-	-	-	-	0.177	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	0.177	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	13.378	-	-	12.190	-	-	9.352	-	-	5.680	-	-	-	-	-	5.680
Logistics Cost																		
Non Recurring Cost																		
GRRIP System Support	-	-	-	-	-	-	-	-	-	-	-	3.500	-	-	-	-	-	3.500
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.500	-	-	-	-	-	3.500
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.500	-	-	-	-	-	3.500
Support - Data Cost																		
Technical Publications	-	-	6.852	-	-	1.673	-	-	2.538	-	-	4.194	-	-	-	-	-	4.194
<i>Subtotal: Support - Data Cost</i>	-	-	6.852	-	-	1.673	-	-	2.538	-	-	4.194	-	-	-	-	-	4.194
Support - Fielding Cost																		
Fielding	-	-	33.324	-	-	12.937	-	-	18.910	-	-	19.584	-	-	-	-	-	19.584
<i>Subtotal: Support - Fielding Cost</i>	-	-	33.324	-	-	12.937	-	-	18.910	-	-	19.584	-	-	-	-	-	19.584
Support - Program Management Cost																		
Government Management	-	-	12.870	-	-	2.423	-	-	3.475	-	-	3.489	-	-	-	-	-	3.489
Contractor Management	-	-	10.571	-	-	4.500	-	-	6.453	-	-	6.478	-	-	-	-	-	6.478
<i>Subtotal: Support - Program Management Cost</i>	-	-	23.441	-	-	6.923	-	-	9.928	-	-	9.967	-	-	-	-	-	9.967
Support - System Engineering Cost																		
System Engineering	-	-	1.992	-	-	0.686	-	-	3.116	-	-	3.193	-	-	-	-	-	3.193

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)	Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - System Engineering Cost</i>	-	-	1.992	-	-	0.686	-	-	3.116	-	-	3.193	-	-	-	-	-	3.193
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	-	-	-	-	-	-	3.734	-	-	6.007	-	-	-	-	-	6.007
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	-	-	-	3.734	-	-	6.007	-	-	-	-	-	6.007
Gross/Weapon System Cost	1,033.104	347	358.487	-	0	99.071	836.742	132	110.450	873.551	138	120.550	-	-	-	873.551	138	120.550

Remarks:

T2C2 Lite v2 is a new variant implemented into the Program of Record (PoR) through FoT strategy starting in FY22.

T2C2 Lite Enhanced Basebands, in addition to the SCOUT ITN terminals, makeup the SATCOM portion of the ITN.

24 sets of T2C2 Lite Enhanced Basebands are planned for six BCTs scheduled in FY22. This quantity is not included in the overall procurement total because the Lite Enhanced Baseband is a component of the system and not an end item.

SCOUT variants start procurement in FY22 in accordance with approved APO.

Recurring Engineering includes Engineering Change Proposals (ECPs) for hardware and software configuration baseline. Changes include improved modems, radome material, Compact Inflation Units (CIUs), and updated software requirements. FY21-22 increase is due to the addition of ECPs and Support Services for SCOUT systems.

Commercially Available Systems represents Theatre Provided Equipment (TPE) to support CENTCOM mission operations. Unit cost includes hardware, spares, Government Furnished Equipment (GFE), software and support for new and previously fielded OCONUS systems. Unit costs vary from year to year because different systems are being purchased.

FY21-22 Software Cost decrease is due to reduction of license costs and transition to ELAs.

GRRIP Systems Support required in FY22 due to GRRIP systems being included as part of the FoT strategy, incorporating them into the PoR, providing configuration management, engineering and logistics support.

Data / Technical Publications represents Level of Repair Analysis (LORA) development and updates, and includes Technical Manual (TM) development and updates. FY21-22 increase is due to SCOUT ITN TM and LORA development.

FY22 Fielding increase is due to the increase of initial spares being fielded for light and heavy systems.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)	Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Systems Engineering increase is due to the transition of software configuration management from Original Equipment Manufacturer (OEM) to in-house services starting in FY21. Minimal increase from FY21-FY22 is due to inflation.

System Technical Support (STS) began in FY21. This represents sustainment of SFAB units, including help desk and maintenance support for fielded systems, and initial fielding of Ka-Band Kit retrofits (Qty 24). FY21-22 increase is due to completing the fielding of Ka-Band kit retrofits (Qty 216).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	75	102	-	102
	Total Obligation Authority	99.071	68.712	65.499	-	65.499
ANG	Quantity	-	54	24	-	24
	Total Obligation Authority	-	31.500	30.362	-	30.362
AR	Quantity	-	3	12	-	12
	Total Obligation Authority	-	10.238	24.689	-	24.689
Total:	Quantity	0	132	138	-	138
Secondary Distribution	Total Obligation Authority	99.071	110.450	120.550	-	120.550

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C				Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
T2C2 Lite		2020	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2020	Jun 2020	80	326.613	Y		Jun 2013
T2C2 Lite		2021	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2021	Sep 2021	45	326.622	N		Jun 2013
T2C2 Lite v2 ^(†)		2022	TBD / TBD	C / IDIQ	TBD	Mar 2022	Sep 2022	55	326.618	N		
T2C2 Lite Enhanced Baseband		2022	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2022	Aug 2022	24	151.833	N		
T2C2 Heavy ^(†)		2020	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2020	Jun 2020	66	454.318	Y		Jun 2013
T2C2 Heavy ^(†)		2021	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground MD	Mar 2021	Sep 2021	84	454.321	N		Jun 2013
T2C2 Heavy ^(†)		2022	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2022	Sep 2022	18	454.333	N		Jun 2013
SCOUT ITN ^(†)		2022	TAMPA Microwave / St. Petersburg, Florida	C / FFP	Aberdeen Proving Ground, MD	Mar 2022	Sep 2022	60	442.417	Y		Jun 2020

^(†) indicates the presence of a P-21

Remarks:

T2C2 executes Delivery Orders under an existing Small Business Innovated Research (SBIR) III, Firm Fixed Price (FFP), Indefinite Delivery, Indefinite Quantity (IDIQ) contract to procure system hardware. The current period of performance ends in September 2023. FY22 costs reflect most current contract values.

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18										P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)										Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
T2C2 Lite v2																																			
	1	2022	ARMY	55	0	55																								55					
T2C2 Heavy																																			
Prior Years Deliveries: 147																																			
	2	2020	ARMY	66	0	66									12	12	12	12	12	11	4	3									0				
	2	2021	ARMY	84	0	84																								69					
	2	2022	ARMY	18	0	18																								18					
SCOUT ITN																																			
	3	2022	ARMY	60	0	60																								60					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2022 Army			Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)			Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)		

Cost Elements (Units in Each)						Fiscal Year 2022												Fiscal Year 2023												B A L A N C E	
O C C O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
T2C2 Lite v2																															
1	2022	ARMY	55	0	55																										0
T2C2 Heavy																															
Prior Years Deliveries: 147																															
2	2020	ARMY	66	66	0																										0
2	2021	ARMY	84	15	69	15	15	15	15	9																					0
2	2022	ARMY	18	0	18																										0
SCOUT ITN																															
3	2022	ARMY	60	0	60																										0
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)
		Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	1	30	80	0	3	3	6	0	6	3	9
2	GATR Technologies - Huntsville, Alabama	1	30	80	0	3	3	6	0	6	3	9
3	TAMPA Microwave - St. Petersburg, Florida	1	80	120	0	3	5	8	0	3	5	8

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9810BA9350 / SHF Term
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	12	-	12	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	700.362	15.054	13.173	38.129	-	38.129	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	700.362	15.054	13.173	38.129	-	38.129	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	700.362	15.054	13.173	38.129	-	38.129	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line supports the Army Network Modernization Strategy Line of Effort (LOE) #1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team (N-CFT) capability set approach to achieve the network modernization strategy.

The Super High Frequency (SHF) Terminal (Phoenix, AN/TSC-156D) program procured and fielded the Army's only quad-band, multi-carrier, high throughput (max 52 Mbps), self-contained, satellite communications system that can be rapidly reconfigured with on-board equipment. The AN/TSC-156D is an Expeditionary Signal Battalion (ESB) asset that provides tactical, highly mobile, command and control, intelligence, fire support, air defense and logistics wideband communications requirements. New and emerging architectures levied in the Transmission Systems Increment 1 Capabilities Production Document (CPD), increasing demand for satellite bandwidth, and approaching end of life on the AN/TSC-156D, necessitates a modernization of the AN/TSC-156D to the AN/TSC-156E variant. The design of the AN/TSC-156E will leverage commercial off-the-shelf (COTS) solutions to increase commonality with lateral systems and any approved emerging modular communications and network package requirements. The AN/TSC-156E will utilize a transit-case based concept allowing for scalability with or without the vehicle support. This modernization effort focuses on building network capacity, improving system interoperability, and extending/adding flexibility to the network for the tactical formation. Specifically, the AN/TSC-156E will add Internet Protocol (IP) capable Frequency Division Multiple Access (FDMA) and Multi-frequency Time Division Multiple Access (MF-TDMA) Net-Centric Waveform (NCW) modems as well as provide a dual head capability to access two satellites and/or bands simultaneously in order to increase network diversity, robustness, and capacity. The network attributes that will be enabled network-wide by the Transmission CPD are: network extension, network flexibility, and network integration. This will align the AN/ TSC-156E with the Tactical Network (TN) and allow seamless integration with current and future proposed tactical communications networks at the high data rates and multiple bands required by current and future operations. Of note, the AN/TSC-156E will serve as the solution for the ESB-E's large SATCOM terminal. This program is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) for the SHF Terminal is 160.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	12	-	12	-	-	-	-
	Total Obligation Authority	15.054	7.245	38.129	-	38.129	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.952	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications					P-1 Line Item Number / Title: 9810BA9350 / SHF Term					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.976	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	12	-	12	-	-	-	-
	Total Obligation Authority	15.054	13.173	38.129	-	38.129	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9810BA9350 / SHF Term
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BA9350 / SHF Term	P-5a, P-21	A		- / 700.362	- / 15.054	- / 13.173	12 / 38.129	- / -	12 / 38.129
P-40	Total Gross/Weapon System Cost				- / 700.362	- / 15.054	- / 13.173	12 / 38.129	- / -	12 / 38.129

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$38.129 million supports the procurement of 12 E-Model terminals and pipeline spares under the new 5 year competitive Follow-on production contract. It will also support the required fielding, and training to add a standard Internet Protocol (IP) interface and Time Division Multiple Access (TDMA) modem capability. These modifications will significantly enhance Phoenix interoperability with the Tactical Network. These upgrades were specified in the Transmission Systems Increment 1 Capabilities Production Document (CPD) requirements. The 12 E-Model terminals will be fielded to 2 Expeditionary Signal Battalions- Enhanced (ESB-Es). The logistics strategy for the E-Model terminal has been updated from a Modification Work Order (MWO) to a Material Release (MR). Despite the change in logistics concept the E-Model terminal unit cost and fielding schedule remain the same.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 9810BA9350 / SHF Term
		Item Number / Title [DODIC]: BA9350 / SHF Term

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	12	-	12
Gross/Weapon System Cost (\$ in Millions)	700.362	15.054	13.173	38.129	-	38.129
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	700.362	15.054	13.173	38.129	-	38.129
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	700.362	15.054	13.173	38.129	-	38.129

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
SHF Terminals	-	-	184.906	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE	-	-	2.583	-	-	1.351	-	-	0.562	-	-	1.016	-	-	-	-	-	1.016
E-Model Terminals ^(†)	-	-	50.799	1,578.000	4	6.312	2,089.333	3	6.268	1,788.083	12	21.457	-	-	-	1,788.083	12	21.457
Subtotal: Recurring Cost	-	-	238.288	-	-	7.663	-	-	6.830	-	-	22.473	-	-	-	-	-	22.473
Non Recurring Cost																		
Data/ Test	-	-	0.914	-	-	2.150	-	-	0.550	-	-	0.670	-	-	-	-	-	0.670
Subtotal: Non Recurring Cost	-	-	0.914	-	-	2.150	-	-	0.550	-	-	0.670	-	-	-	-	-	0.670
Subtotal: Flyaway Cost	-	-	239.202	-	-	9.813	-	-	7.380	-	-	23.143	-	-	-	-	-	23.143
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	-	-	-	0.219	-	-	0.745	-	-	1.824	-	-	-	-	-	1.824
Training	-	-	-	-	-	0.179	-	-	0.650	-	-	1.073	-	-	-	-	-	1.073
Subtotal: Recurring Cost	-	-	-	-	-	0.398	-	-	1.395	-	-	2.897	-	-	-	-	-	2.897
Subtotal: Package Fielding Cost	-	-	-	-	-	0.398	-	-	1.395	-	-	2.897	-	-	-	-	-	2.897
Logistics Cost																		
Recurring Cost																		
Logistics Services	-	-	81.698	-	-	0.937	-	-	0.970	-	-	1.250	-	-	-	-	-	1.250

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: 9810BA9350 / SHF Term						Item Number / Title [DODIC]: BA9350 / SHF Term					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Obsolescence Mitigation/ D-Model Terminal Support	-	-	3.420	-	-	1.350	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>85.118</i>	-	-	<i>2.287</i>	-	-	<i>0.970</i>	-	-	<i>1.250</i>	-	-	-	-	-	<i>1.250</i>
Non Recurring Cost																		
Depot Pipeline / Organic Maintenance Build Up	-	-	-	-	-	0.211	-	-	1.036	-	-	7.486	-	-	-	-	-	7.486
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	<i>0.211</i>	-	-	<i>1.036</i>	-	-	<i>7.486</i>	-	-	-	-	-	<i>7.486</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>85.118</i>	-	-	<i>2.498</i>	-	-	<i>2.006</i>	-	-	<i>8.736</i>	-	-	-	-	-	<i>8.736</i>
Support - Program Management Cost																		
Government Management	-	-	21.108	-	-	0.707	-	-	0.722	-	-	1.082	-	-	-	-	-	1.082
Contractor Management	-	-	19.404	-	-	0.795	-	-	0.799	-	-	1.247	-	-	-	-	-	1.247
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>40.512</i>	-	-	<i>1.502</i>	-	-	<i>1.521</i>	-	-	<i>2.329</i>	-	-	-	-	-	<i>2.329</i>
Support - System Engineering Cost																		
System Engineering	-	-	322.520	-	-	0.843	-	-	0.871	-	-	1.024	-	-	-	-	-	1.024
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>322.520</i>	-	-	<i>0.843</i>	-	-	<i>0.871</i>	-	-	<i>1.024</i>	-	-	-	-	-	<i>1.024</i>
Support - Training Cost																		
Services	-	-	13.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	<i>13.010</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	700.362	-	-	15.054	-	-	13.173	-	12	38.129	-	-	-	-	12	38.129

Remarks:

Notes:
The competitive 5-year Follow-on Production contract will be initiated in FY22 with anticipated higher annual production quantities.

The E-Model unit cost decrease is a result of transitioning from Initial Production (IP), procuring 3 E-Models terminals in FY21, to Follow-on Production (FOP) in FY22, procuring 12 E-Model terminals in FY22.

The FY22 Depot Pipeline/Organic Maintenance P-5 COST ELEMENT reflects an increase from FY21 for continued stocking of the depot with pipeline spares in support of organic maintenance, annual on-board and regional spares requirements. The FY22 funds for on-board and pipeline spares will support the fielding of 2 complete ESB-Es (12 E-Model terminals).

In addition, the FY22 GFE funding is to provide trucks (IAW truck contract availability) and other equipment GFE required for the E-model terminals.

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9810BA9350 / SHF Term	Item Number / Title [DODIC]: BA9350 / SHF Term
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

FY22 Test requirements have increased to perform necessary tests for a potential new vendor as a result of the competitive solicitation, as well as an increased number of produced units to 12.

FY22 Program Management and Systems Engineering costs have also increased to manage the much larger 5 year Follow-on Production effort.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	12	-	12
	Total Obligation Authority	15.054	7.245	38.129	-	38.129
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	3.952	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.976	-	-	-
Total: Secondary Distribution	Quantity	-	-	12	-	12
	Total Obligation Authority	15.054	13.173	38.129	-	38.129

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9810BA9350 / SHF Term	Item Number / Title [DODIC]: BA9350 / SHF Term
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
E-Model Terminals ^(†)		2020	Envistacom / Duluth, GA	C / FFP	Duluth, GA	May 2020	Dec 2020	4	1,578.000	N		
E-Model Terminals ^(†)		2021	Envistacom / Duluth, GA	C / FFP	Duluth, GA	Dec 2020	Feb 2021	3	2,089.333	N		
E-Model Terminals ^(†)		2022	TBD / TBD	C / FFP	TBD	Mar 2022	Nov 2022	12	1,788.083	N		

^(†) indicates the presence of a P-21

Remarks:

The logistics strategy for the E-Model terminal has been updated from a Modification Work Order (MWO) to a Material Release (MR).

The vendor is currently TBD for the competitive Follow-on production contract to be initiated in FY22. The Initial Production OTA contract award was incrementally funded over FY20 and FY21.

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9810BA9350 / SHF Term	Item Number / Title [DODIC]: BA9350 / SHF Term
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
E-Model Terminals																																			
	2	2020	ARMY	4	0	4																								A - - - - - - - - - - 2 2	0				
	2	2021	ARMY	3	0	3																								A - - 1 2	0				
	1	2022	ARMY	12	0	12																									12				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9810BA9350 / SHF Term	Item Number / Title [DODIC]: BA9350 / SHF Term
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
E-Model Terminals																																			
	2	2020	ARMY	4	4	0																							0						
	2	2021	ARMY	3	3	0																							0						
	1	2022	ARMY	12	0	12															4	4	4						0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9810BA9350 / SHF Term	Item Number / Title [DODIC]: BA9350 / SHF Term
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	1	3	6	6	6	8	14	0	6	8	14
2	Envistacom - Duluth, GA	1	1	1	0	6	6	12	0	0	0	0

Remarks:
The logistics strategy for the E-Model terminal has been updated from a Modification Work Order (MWO) to a Material Release (MR).

The production rates are based on the statement of work objectives for the Follow-on production contract to be awarded FY22.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 1206120A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	615	2,757	1,933	-	1,933	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	43.452	140.953	115.291	-	115.291	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	43.452	140.953	115.291	-	115.291	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	43.452	140.953	115.291	-	115.291	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	70.654	51.125	59.644	-	59.644	-	-	-	-	-	-

Description:

The current Global Positioning System (GPS) capability is a fixed frequency system susceptible to electronic warfare and field environments (e.g. urban, dense vegetation). Assured Positioning, Navigation and Timing (APNT) provides Army ground maneuver forces access to assured PNT under conditions that may be limited or denied (jammed and spoofed) and in accordance with National Defense Authorization Act guidance. APNT products are ruggedized tactical systems that enable Army forces the ability to shoot, move, communicate, thereby allowing forces to maneuver from operational and strategic distances to close with, destroy, and exploit the enemy with sufficient combat power, tempo, and momentum. APNT addresses two critical capability gaps: Access and Integrity. Access is the ability to retrieve accurate PNT information in a contested Electronic Warfare/Cyber environment. Integrity is the ability to trust the PNT information. PNT is a critical enabler of many Army Maneuver, Fires, and Command and Control systems that are dependent on accurate Position and Timing, and a foundational Multi-Domain Battle capability to support: calibrated force posture (position and maneuver across strategic distances); multi-domain formations (operate in contested spaces against near-peer adversaries); convergence (continuous integration of capabilities in all domains).

Joint Requirements Oversight Council Memo (JROCM) 049-10, dated 05 April 2010, approved the PNT Assurance Initial Capabilities Document and designated the Army as the Lead Component for Assured PNT. Army Futures Command approved the Mounted APNT System (MAPS) Directed Requirement (DR) on 31 January 2019. The Dismounted APNT System (DAPS) Directed Requirement was approved 19 March 2019. The Alternative Navigation (ALTNAV) Directed Requirement was approved in 10 August 2019. On 12 September 2020, the Army Requirements Oversight Council (AROC) approved the MAPS Capabilities Development Document (CDD). DAPS CDD is planned to be approved in FY 2021. Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Modular Open Suite of Standards (CMOSS) in support of House Report 116-442, 2020 efforts will prototype modular cards and software according to the Modular Open System Architecture (MOSA) standards, for future modernization and new weapons systems. In addition, the CMOSS Mounted Form Factor Abbreviated Capabilities Development Document (A-CDD) was approved in 2QFY21.

Assured PNT consists of:

SSN K49010 - Mounted/Dismounted Receiver: Deploys Resiliency and Software Assurance Measures (RSAM) to legacy GPS systems, including Defense Advanced GPS Receiver (DAGR) and embedded Ground Based - GPS Receiver Applications Module (GB-GRAM). RSAM helps to mitigate risk in a GPS-challenged environment until future Positioning, Navigation and Timing solutions are fully deployed.

SSN K49020 - Dismounted Hub: The Dismounted Assured PNT (APNT) System (DAPS) is a near term and enduring capability that will provide Dismounted Soldiers, Commanders, and client systems (e.g. Nett Warrior (NW)) the resilient, survivable, M-Code capable timing and position data to effectively engage targets, share data across the network and conduct mission command in degraded or denied Global Positioning System (GPS) environments. The near term DAPS is being fielded to execute the DAPS Directed Requirement (March 2019). The enduring DAPS system is being developed to execute the DAPS Capability Development Document (4QFY21) requirements and will provide an increased capability to include ALTNAV signal, stand-alone operation and watch accessory. The DAPS consists of an M-Code

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 1206120A

Line Item MDAP/MAIS Code: N/A

capable receiver that distributes PNT information to the NW end user device, and associated antenna/radio integration cables. The DAPS will enable the Dismounted Team Leader up through the Commander with assured PNT capabilities critical to the targeting process for precision fires, command and control, and maneuver for selected Army units.

SSN K49030 - Mounted Hub A-PNT: The Mounted Assured Positioning, Navigation, and Timing (PNT) System (MAPS) is a near term and enduring capability platform-mounted, ruggedized tactical PNT system which provides electronic protection capabilities that enable combatant commanders the ability to move, shoot, communicate, and provide situational awareness in Global Positioning System (GPS) degraded or denied environments. The MAPS GEN I system is the near term equipping capability to execute the MAPS Directed Requirement (January 2019) and United States Army Europe (USAREUR) and Cyberspace Electromagnetic Activity (CEMA) Operational Needs Statement. The MAPS GEN II system is the enduring capability to meet Congressional (10 USC 2281) M-Code guidance and execute the MAPS Capability Development Document (CDD) requirement. The MAPS GEN II provides an increased capability to include M-Code, Alternative Navigation (ALTNAV) signal, and sensor fusion. The MAPS GEN II is comprised of two subsystems: a internally mounted navigation hub where data from sensors and receivers (to include M-code) are fused together to distribute an assured PNT solution to the platform and onboard client systems and an Anti-Jam antenna (AJAS) mounted externally on the platform to protect access to GPS and receive Alternative Navigation signals. The MAPS will enable critical Army Maneuver, Fires, Communications, Command (to include Blue Force Tracking), and Air Defense capabilities that are dependent on accurate position and timing data. The MAPS GEN II will be integrated into prioritized platforms in Armored, Stryker and Infantry Brigade Combat Teams and Key Strategic Units in the Multi-Domain Operations (MDO) Capable Force 2028.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	615	2,757	1,933	-	1,933	-	-	-	-
	Total Obligation Authority	43.452	140.953	115.291	-	115.291	-	-	-	-
Total: Secondary Distribution	Quantity	615	2,757	1,933	-	1,933	-	-	-	-
	Total Obligation Authority	43.452	140.953	115.291	-	115.291	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:
9897K49000 / Assured Positioning, Navigation and Timing

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 1206120A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K49010 / Mounted/Dismounted Receivers				- / -	- / 1.724	- / 5.894	- / 1.990	- / -	- / 1.990
P-5	K49020 / Dismounted Hub	P-5a, P-21	B		- / -	- / -	1,863 / 48.449	1,242 / 32.643	- / -	1,242 / 32.643
P-5	K49030 / Mounted Hub A-PNT	P-5a, P-21	B		- / -	615 / 41.728	894 / 86.610	691 / 80.658	- / -	691 / 80.658
P-40	Total Gross/Weapon System Cost				- / -	615 / 43.452	2,757 / 140.953	1,933 / 115.291	- / -	1,933 / 115.291

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base dollars in the amount of \$115.291 Million will support the following:

SSN K49010 - Mounted/Dismounted Receiver: FY 2022 base procurement dollars in the amount of \$1.990 Million supports Fielding Support Teams, and Post Software Release support for the deployment of Resiliency Software Assurance Measures (RSAM) to legacy GPS systems.

SSN K49020 - Dismounted Hub: FY 2022 base procurement dollars in the amount of \$32.643 Million supports procurement and equipping of 1,242 M-code capable Dismounted Assured Position Navigation and Timing Systems (DAPS) systems and associated spares, equipping, engineering efforts and logistics support to field one Infantry Brigade Combat Team (IBCT) in FY23. The near term DAPS capability (Quick Reaction Capability (QRC)) supports the urgent operational needs of the Army and allows the equipped IBCT access to Assured Positioning, Navigation and Timing (APNT) during multi-domain operations.

SSN K49030 - Mounted Hub A-PNT: FY 2022 base procurement dollars in the amount of \$77.026 million procures: 191 Mounted Assured Positioning, Navigation and Timing (PNT) Systems (MAPS) GEN I systems for equipping prioritized operational Units in accordance with the MAPS Directed Requirement and USAREUR and CEMA Operational Needs Statements; 500 MAPS GEN II systems for Initial Operational Test and Evaluation and demonstration of production rate ramp-up. In addition, funding procures associated spares, installation and fielding, host platform and client system integration and program management support.

FY 22 base procurement dollars in the amount of \$3.632 support the Enduring Requirement for Operation European Deterrence Initiative (EDI).

All Quantities are for the Active component.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49010 / Mounted/Dismounted Receivers

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	1.724	5.894	1.990	-	1.990
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	1.724	5.894	1.990	-	1.990
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	1.724	5.894	1.990	-	1.990

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Logistics Cost																		
Recurring Cost																		
FSR Support, SETA Support	-	-	-	-	-	0.500	-	-	1.073	-	-	1.730	-	-	-	-	-	1.730
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>0.500</i>	-	-	<i>1.073</i>	-	-	<i>1.730</i>	-	-	-	-	-	<i>1.730</i>
Non Recurring Cost																		
Post Software Release Product Support	-	-	-	-	-	0.580	-	-	3.858	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	<i>0.580</i>	-	-	<i>3.858</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	<i>1.080</i>	-	-	<i>4.931</i>	-	-	<i>1.730</i>	-	-	-	-	-	<i>1.730</i>
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	0.644	-	-	0.963	-	-	0.260	-	-	-	-	-	0.260
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	<i>0.644</i>	-	-	<i>0.963</i>	-	-	<i>0.260</i>	-	-	-	-	-	<i>0.260</i>
Gross/Weapon System Cost	-	-	-	-	-	1.724	-	-	5.894	-	-	1.990	-	-	-	-	-	1.990

Remarks:

FY 2022 funding supports Field Support Representatives (FSR) for Resiliency and Software Assurance Measures (RSAM) Defense Advanced Global Positioning System (GPS) Receiver (DAGR), RSAM Ground Based-GPS Receiver Applications Module (GB-GRAM) and the Project Management Office.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49010 / Mounted/Dismounted Receivers

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.724	5.894	1.990	-	1.990
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.724	5.894	1.990	-	1.990

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Exhibit P-5, Cost Analysis: PB 2022 Army						Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing			Item Number / Title [DODIC]: K49020 / Dismounted Hub		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	1,863	1,242	-	1,242
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	-	48.449	32.643	-	32.643
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	-	48.449	32.643	-	32.643
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	-	48.449	32.643	-	32.643
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (<i>\$ in Millions</i>)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)			-	-	26.006	26.283	-	26.283

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
DAPS Hardware ^(†)	-	-	-	-	-	-	24.617	1,242	30.574	-	-	-	-	-	-	-	-	-
DAPS Training	-	-	-	-	-	-	-	-	-	-	-	0.014	-	-	-	-	-	0.014
DAPS Hardware Handheld ^(†)	-	-	-	-	-	-	14.233	621	8.839	14.518	1,242	18.031	-	-	-	14.518	1,242	18.031
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	39.413	-	-	18.045	-	-	-	-	-	18.045
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	39.413	-	-	18.045	-	-	-	-	-	18.045
Package Fielding Cost																		
Non Recurring Cost																		
Initial Spares/Repairs Parts	-	-	-	-	-	-	-	-	3.271	-	-	4.327	-	-	-	-	-	4.327
Contract Logistics Support	-	-	-	-	-	-	-	-	0.389	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	3.660	-	-	4.327	-	-	-	-	-	4.327
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	3.660	-	-	4.327	-	-	-	-	-	4.327
Logistics Cost																		
Recurring Cost																		
Product Support Services	-	-	-	-	-	-	-	-	-	-	-	5.211	-	-	-	-	-	5.211
Interim Logistics Support Repairs	-	-	-	-	-	-	-	-	0.800	-	-	0.533	-	-	-	-	-	0.533

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49020 / Dismounted Hub
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.800	-	-	5.744	-	-	-	-	-	5.744
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	0.800	-	-	5.744	-	-	-	-	-	5.744
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	-	-	-	3.023	-	-	2.990	-	-	-	-	-	2.990
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	3.023	-	-	2.990	-	-	-	-	-	2.990
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	1.553	-	-	1.537	-	-	-	-	-	1.537
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	1.553	-	-	1.537	-	-	-	-	-	1.537
Gross/Weapon System Cost	-	-	-	-	-	-	26.006	1,863	48.449	26.283	1,242	32.643	-	-	-	26.283	1,242	32.643

Remarks:

DAPS Hardware Cost - Training: This cost element for FY22 includes the cost of purchasing 13 additional DAPS used for training. Actual training classes are conducted under the cost element Logistics Cost - Recurring Product Support Services.

Package Fielding - Non-Recurring Initial Spares: Completes the initial spares for DAPS Handheld DR with the purchase of 24% spares to support the quantity 1,242 in FY22 and the purchase of 13% spares needed to support the quantity of 1,863 in FY21.

Package Fielding - Non-Recurring Contractor Logistics Support: These activities are aligned with the anticipated equipping/fielding quantities. FY22 activities are covered under Recurring Logistics.

DAPS Logistics Cost - Recurring Logistics, Product Support Services: The FY22 cost includes recurring logistics activities accounts for all logistics requirements for storing, inspecting, handling, shipping and inventory, help desk, identifying serviceable or unserviceable items, obsolescence monitoring, training, and equipping.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	1,863	1,242	-	1,242
	Total Obligation Authority	-	48.449	32.643	-	32.643
Total: Secondary Distribution	Quantity	-	1,863	1,242	-	1,242
	Total Obligation Authority	-	48.449	32.643	-	32.643

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49020 / Dismounted Hub
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
DAPS Hardware		2021	Integrated Solutions for Systems, Inc. (IS4S) / Huntsville, AL	MIPR	TBD	Mar 2021	Mar 2022	1,242	24.617	N		
DAPS Hardware Handheld ^(†)		2021	TBD DAPS Handheld / TBD DAPS Handheld	C / TBD	TBD	Aug 2021	Mar 2022	621	14.233	N		
DAPS Hardware Handheld ^(†)		2022	TBD DAPS Handheld / TBD DAPS Handheld	C / TBD	TBD	Dec 2021	Aug 2022	1,242	14.518	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18 **P-1 Line Item Number / Title:** 9897K49000 / Assured Positioning, Navigation and Timing **Item Number / Title [DODIC]:** K49020 / Dismounted Hub

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
DAPS Hardware Handheld																															
	1	2021	ARMY	621	0	621																								0	
	1	2022	ARMY	1,242	0	1,242																								942	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49020 / Dismounted Hub
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
DAPS Hardware Handheld																															
	1	2021	ARMY	621	621	0																							0		
	1	2022	ARMY	1,242	300	942	150	150	150	150	150	150	42																0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49020 / Dismounted Hub
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD DAPS Handheld - TBD DAPS Handheld	100	200	300	0	0	0	0	0	0	0	0	0

Remarks:
The Dismounted Assured Positioning, Navigation, and Timing System (DAPS) Production manufacturing contract has not been awarded. Production rates are based upon the initial production of the analogous Defense Advanced Global Position System (GPS) Receiver (DAGR).

"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army						Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18				P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing			Item Number / Title [DODIC]: K49030 / Mounted Hub A-PNT		
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:			
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)				-	615	894	691	-	691
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-	41.728	86.610	80.658	-	80.658
Less PY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)				-	41.728	86.610	80.658	-	80.658
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)				-	41.728	86.610	80.658	-	80.658
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (<i>\$ in Millions</i>)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)				-	67.850	96.879	116.726	-	116.726

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Mounted APNT Systems GEN I QRC B-Kits ^(†)	-	-	-	44.566	615	27.408	51.233	894	45.802	52.461	191	10.020	-	-	-	52.461	191	10.020
Mounted APNT Systems GEN I QRC A-Kits	-	-	-	8.780	615	5.400	9.235	894	8.256	8.754	191	1.672	-	-	-	8.754	191	1.672
Mounted APNT Systems GEN II POR B-Kits ^(†)	-	-	-	-	-	-	-	-	-	56.844	500	28.422	-	-	-	56.844	500	28.422
Mounted APNT Systems GEN II POR A-Kits	-	-	-	-	-	-	-	-	-	7.798	500	3.899	-	-	-	7.798	500	3.899
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	32.808	-	-	54.058	-	-	44.013	-	-	-	-	-	44.013
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	32.808	-	-	54.058	-	-	44.013	-	-	-	-	-	44.013
Package Fielding Cost																		
Recurring Cost																		
Installation	-	-	-	-	-	1.141	-	-	8.329	-	-	5.858	-	-	-	-	-	5.858
Interim Contractor Logistic Support	-	-	-	-	-	-	-	-	3.472	-	-	1.500	-	-	-	-	-	1.500
Spares	-	-	-	-	-	4.784	-	-	7.592	-	-	3.845	-	-	-	-	-	3.845
Transportation	-	-	-	-	-	0.029	-	-	0.514	-	-	0.537	-	-	-	-	-	0.537
Training	-	-	-	-	-	0.246	-	-	2.282	-	-	1.675	-	-	-	-	-	1.675
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.200	-	-	22.189	-	-	13.415	-	-	-	-	-	13.415

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49030 / Mounted Hub A-PNT

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Non Recurring Cost																		
Mounted PNT Integration - Combat Platforms	-	-	-	-	-	-	-	-	-	-	-	3.507	-	-	-	-	-	3.507
Mounted PNT Integration - Combat Support Platforms	-	-	-	-	-	-	-	-	-	-	-	5.677	-	-	-	-	-	5.677
Mounted PNT Integration - Combat Systems Platforms	-	-	-	-	-	-	-	-	-	-	-	5.568	-	-	-	-	-	5.568
Engineering and Logistics Support	-	-	-	-	-	-	-	-	2.379	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	2.379	-	-	14.752	-	-	-	-	-	14.752
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	6.200	-	-	24.568	-	-	28.167	-	-	-	-	-	28.167
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	1.528	-	-	4.251	-	-	3.765	-	-	-	-	-	3.765
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	1.528	-	-	4.251	-	-	3.765	-	-	-	-	-	3.765
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	1.192	-	-	3.733	-	-	4.713	-	-	-	-	-	4.713
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	1.192	-	-	3.733	-	-	4.713	-	-	-	-	-	4.713
Gross/Weapon System Cost	-	-	-	67.850	615	41.728	96.879	894	86.610	116.726	691	80.658	-	-	-	116.726	691	80.658

Remarks:

Mounted Assured Position Navigation and Timing (MAPS) Hardware Cost - GEN I Unit Cost increase due to increased warranty of an additional 3 years, total 8 year warranty. Recurring: Unit cost increases from GEN I (Quick Reaction Capability) to the GEN II (Program of Record) is based on an increased capability (e.g. M-code and AltNav fusion capabilities) to defeat current and emerging threats against the most challenging adversaries. The GEN II system also respond to two approved requirements, MAPS CDD and ALTNAV Directed Requirement, and to the draft NAVWAR abbreviated CDD.

Package Fielding - Non-recurring Mounted PNT Integration: Combat and Combat Support Platforms elements support the integration efforts for the MAPS into host platforms transitions to Procurement funding post Milestone C decision in 2QFY22

Package Fielding - Non-recurring Engineering and Logistic Support: GEN I Technical Data Package updates

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Exhibit P-5, Cost Analysis: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49030 / Mounted Hub A-PNT
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	615	894	691	-	691
	Total Obligation Authority	41.728	86.610	80.658	-	80.658
Total:	Quantity	615	894	691	-	691
Secondary Distribution	Total Obligation Authority	41.728	86.610	80.658	-	80.658

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49030 / Mounted Hub A-PNT
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Mounted APNT Systems GEN I QRC B-Kits ^(†)		2020	General Dynamics 1 / Scottsdale, AZ	C / FFP	APG, MD	Feb 2020	Sep 2020	615	44.566	N		
Mounted APNT Systems GEN I QRC B-Kits ^(†)		2021	General Dynamics 1 / Scottsdale, AZ	C / FFP	APG, MD	Nov 2020	Jul 2021	753	51.233	N		
Mounted APNT Systems GEN I QRC B-Kits ^(†)		2021	General Dynamics 2 / Scottsdale, AZ	C / FFP	APG, MD	Nov 2020	Jun 2021	141	51.233	N		
Mounted APNT Systems GEN I QRC B-Kits ^(†)		2022	General Dynamics 1 / Scottsdale, AZ	C / FFP	APG, MD	Nov 2021	Jun 2022	191	52.461	N		
Mounted APNT Systems GEN II POR B-Kits ^(†)		2022	TBD / TBD	C / TBD	APG, MD	Feb 2022	Aug 2022	500	56.844	N		

^(†) indicates the presence of a P-21

Remarks:

Unit cost increases from GEN I (Quick Reaction Capability) to the GEN II (Program of Record) is based on an increased capability to defeat current and emerging threats against the most challenging adversaries. The GEN II system also responds to two approved requirements, MAPS Capability Development Document (CDD) and Alternative Navigation (ALTNAV) Directed Requirement, along with the draft Navigational Warfare (NAVWAR) abbreviated CDD.

FY 2022 Procures 191 MAPS to complete Operational Needs Statement (ONS) for the GEN I QRC. Quantities are based on Unit requirements.

FY 2022 Procures 500 MAPS Low Rate Initial Production systems for Initial Operational Test and Evaluation (IOTE) and fielding for GEN II.

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49030 / Mounted Hub A-PNT
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Mounted APNT Systems GEN I QRC B-Kits																															
1		2020	ARMY	615	0	615																								0	
1		2021	ARMY	753	0	753																								0	
2		2021	ARMY	141	0	141																								0	
1		2022	ARMY	191	0	191																								191	
Mounted APNT Systems GEN II POR B-Kits																															
3		2022	ARMY	500	0	500																								500	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18 **P-1 Line Item Number / Title:** 9897K49000 / Assured Positioning, Navigation and Timing **Item Number / Title [DODIC]:** K49030 / Mounted Hub A-PNT

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022													Fiscal Year 2023													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Mounted APNT Systems GEN I QRC B-Kits																																	
1		2020	ARMY	615	615	0																							0				
1		2021	ARMY	753	315	438	150	145	143																				0				
2		2021	ARMY	141	141	0																							0				
1		2022	ARMY	191	0	191		A	-	-	-	-	-	-	-	30	40	50	71										0				
Mounted APNT Systems GEN II POR B-Kits																																	
3		2022	ARMY	500	0	500										15	15	15	20	20	20	60	60	65	70	70	70		0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9897K49000 / Assured Positioning, Navigation and Timing	Item Number / Title [DODIC]: K49030 / Mounted Hub A-PNT
--	---	---

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	General Dynamics 1 - Scottsdale, AZ	20	180	300	0	0	0	0	0	0	0	0	0
2	General Dynamics 2 - Scottsdale, AZ	20	180	300	0	0	0	0	0	0	0	0	0
3	TBD - TBD	20	180	300	0	0	0	0	0	0	0	0	0

Remarks:
Estimated Production schedule

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	775.954	11.340	8.900	15.407	-	15.407	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	775.954	11.340	8.900	15.407	-	15.407	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	775.954	11.340	8.900	15.407	-	15.407	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line supports the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team (NCFT) capability set approach to achieve the network modernization strategy.

SMART-T is the Army's only protected satellite terminal that provides worldwide beyond line of sight resilient communication for the current and future tactical communications network. The SMART-T provides a robust anti-jam, protected communications capability enabling uninterrupted voice and data communications against Electronic Warfare (EW) attacks or other contested environments, including nuclear scintillation. SMART-T is the Army's only large throughput satellite capability with low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming or eavesdropping. The SMART-T system is integrated onto a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), operating in a standalone configuration.

New and emerging architectures levied in the Transmission Systems Capabilities Production Document (CPD) necessitate a modernization of the SMART-T configuration. The Army is taking a 2-tiered approach in addressing the continuance of the SMART-T terminal capability: 1) CECOM Integrated Logistics Support Center (ILSC) is mitigating the obsolescence through sustainment efforts to support SMART-T through FY32; and 2) Program Office is modernizing in accordance with the Transmission CPD.

SMART-T terminals use the AEHF satellite constellation, providing the US Army with our highest level of protected communications. Additionally, SMART-T provides fully interoperable communications with the AEHF and MILSTAR terminals of other services (Air Force, Navy, Marine Corps and other DoD agencies and activities). SMART-T is designated as an ACAT II DoD Space Program.

SMART-T effectively transitioned to Sustainment under CECOM ILSC in 2QFY18. The Program Office continues Life Cycle Management and modernization of terminals with Ethernet IP upgrades.

The Approved Acquisition Objective (AAO) is 324 terminals plus 14 terminals procured for the DoD Special Users; Army Procurement Objective (APO) is 278; ACAT Level II.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	10.590	8.900	10.407	-	10.407	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications					P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0303142A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.750	-	4.000	-	4.000	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.000	-	1.000	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	11.340	8.900	15.407	-	15.407	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BC4002 / SMART-T (SPACE)		A		- / 775.954	- / 11.340	- / 8.900	- / 15.407	- / -	- / 15.407
P-40	Total Gross/Weapon System Cost				- / 775.954	- / 11.340	- / 8.900	- / 15.407	- / -	- / 15.407

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$15.407 million supports Fielding upgrades; System Engineering (includes Maintenance & Support contract, Information Assurance Vulnerability Alerts (IAVA), and Acquisition Logistics Performance Scorecard (ALPS) Training Base support); and procurement (156 sets) of Ethernet IP cards. Program Management costs include Help Desk, Program Analysis, Cost and Budget support, and Government travel.

Fielding of upgrades includes performing a System Health Check prior to implementation of upgrades; access to Greater Than Five Satellite Communications Capability (in conjunction with Air Force launch of V6 and subsequent Advanced Extremely High Frequency (AEHF) satellites), and installation of Ethernet IP Cards. Fielding of upgrades also includes unit refresher training, necessary due to an increase in usage caused by intensified electronic warfare threats.

Note: Core Government program management is paid with OMA. System Test & Evaluation funds a SatSim Terminal leased annually from MIT/Lincoln Labs. Logistics funds efforts in support of fielding upgrades.

Note: Procurement funding supports Modification Work Order (MWO) upgrades to existing systems, therefore, no new quantities/end items will be procured.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)	Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	775.954	11.340	8.900	15.407	-	15.407
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	775.954	11.340	8.900	15.407	-	15.407
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	775.954	11.340	8.900	15.407	-	15.407

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
EHF SMART-T Terminal Cost	888.198	247	219.385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF Upgrade Mod Kits	637.085	247	157.360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SMART-T Terminal Cost	1,769.667	39	69.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Obsolescence	-	-	3.915	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transition to Sustainment	-	-	3.417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modularity/Army National Guard	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	457.494	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Ethernet Repeater Solution Engineering	-	-	13.531	-	-	3.272	-	-	-	-	-	-	-	-	-	-	-	-
Ethernet IP Technical Studies	-	-	1.402	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	14.933	-	-	3.272	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	472.427	-	-	3.272	-	-	-	-	-	-	-	-	-	-	-	-
Software Cost																		
Non Recurring Cost																		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)						Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Upgrades for SV6 and Beyond	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Software Cost	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package Fielding Cost																		
Recurring Cost																		
Ethernet IP Cards	-	-	-	-	-	-	-	-	1.328	-	-	4.901	-	-	-	-	-	4.901
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	1.328	-	-	4.901	-	-	-	-	-	4.901
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	1.328	-	-	4.901	-	-	-	-	-	4.901
Logistics Cost																		
Recurring Cost																		
Logistics Support to fielding efforts	-	-	-	-	-	0.094	-	-	0.212	-	-	0.142	-	-	-	-	-	0.142
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.094	-	-	0.212	-	-	0.142	-	-	-	-	-	0.142
Subtotal: Logistics Cost	-	-	-	-	-	0.094	-	-	0.212	-	-	0.142	-	-	-	-	-	0.142
Support - Data Cost																		
Management Data	-	-	2.467	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	2.467	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	60.777	-	-	2.876	-	-	3.397	-	-	6.237	-	-	-	-	-	6.237
<i>Subtotal: Support - Fielding Cost</i>	-	-	60.777	-	-	2.876	-	-	3.397	-	-	6.237	-	-	-	-	-	6.237
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	49.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	49.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	85.585	-	-	1.395	-	-	1.123	-	-	1.419	-	-	-	-	-	1.419
<i>Subtotal: Support - Program Management Cost</i>	-	-	85.585	-	-	1.395	-	-	1.123	-	-	1.419	-	-	-	-	-	1.419
Support - System Engineering Cost																		
System Engineering	-	-	71.800	-	-	2.103	-	-	1.080	-	-	1.036	-	-	-	-	-	1.036

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - System Engineering Cost</i>	-	-	71.800	-	-	2.103	-	-	1.080	-	-	1.036	-	-	-	-	-	1.036
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	31.725	-	-	0.485	-	-	0.265	-	-	0.240	-	-	-	-	-	0.240
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	31.725	-	-	0.485	-	-	0.265	-	-	0.240	-	-	-	-	-	0.240
Support - Training Cost																		
Services	-	-	-	-	-	1.015	-	-	1.495	-	-	1.432	-	-	-	-	-	1.432
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	1.015	-	-	1.495	-	-	1.432	-	-	-	-	-	1.432
Gross/Weapon System Cost	-	-	775.954	-	-	11.340	-	-	8.900	-	-	15.407	-	-	-	-	-	15.407

Remarks:

FY22 Fielding is to continue system upgrade efforts, to include upgraded United States Air Force Planning Tool, Greater Than 5 Satellite capability, system refresh, Unit training and Ethernet IP cards, when available.
 FY22 Systems Engineering is for Maintenance & Support Contract, IAVA, and ALPS Training Base support.
 FY22 Recurring Cost completes procurement of Ethernet IP cards (156 sets), to be fielded in FY23-24.
 FY22 Program Management Cost is for Help Desk, Program, Cost and Budget Analysts, and Government travel.
 FY22 System Test & Evaluation funds a SatSim Terminal leased annually from MIT/Lincoln Labs.
 FY22 Logistics is for logistics efforts in support of fielding upgrades.
 FY22 Training is for SMEs and SETA support to provide unit refresher training.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	10.590	8.900	10.407	-	10.407
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	0.750	-	4.000	-	4.000
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	1.000	-	1.000
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	11.340	8.900	15.407	-	15.407

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9915BC4120 / Global Brdcst Svc - GBS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	327.302	11.800	8.510	2.763	-	2.763	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	327.302	11.800	8.510	2.763	-	2.763	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	327.302	11.800	8.510	2.763	-	2.763	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	3,850.612	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line supports the Army Network Modernization Strategy Line of Effort (LOE) #1, Unified Network. Efforts are aligned to support the Network Cross-Functional Team (CFT) capability set approach to achieve the network modernization strategy. Global Broadcast Service (GBS) provides high-speed broadcast to receive only terminals of large-volume data and multimedia products including Unmanned Aerial Vehicles (UAV) and commercial video, imagery, intelligence, map data, weather, and biometric data. GBS gives deployed forces access to national level repositories of intelligence products and other critical mission planning information. This is a Joint Program and is designated as a Department of Defense Space System. GBS is used to deliver security and system software updates to other terminals in the Army Tactical Network by offloading of the Command and Control (C2) MILSATCOM bandwidth. GBS also reduces oversubscription on the Wideband Global SATCOM (WGS) constellation, providing deployed tactical operations centers (TOCs) and garrison forces worldwide greater bandwidth for two-way C2 traffic. The GBS system is being upgraded for increased cyber security.

GBS is a Joint Program and is designated as a Department of Defense Space System. The Air Force (USAF) is designated as the executive service (Joint ACAT IC program). The Army supports the Joint Program Office (JPO) on the development and procurement of the Transportable Ground Receive Suite (TGRS) (AN/TSR-11). The TGRS consists of a Receive Broadcast Manager (RBM) and very-small-aperture satellite antenna. The TGRS is fielded to Battalion, Brigade Combat Teams, Divisions, Corps and Theater level units in Active, National Guard, and Reserve components.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.800	8.510	2.763	-	2.763	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.000	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.000	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.800	8.510	2.763	-	2.763	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		P-1 Line Item Number / Title: 9915BC4120 / Global Brdcst Svc - GBS
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

Justification:
FY 2022 Base procurement funds in the amount of \$2.763 million will be used to complete fielding of previously procured AN/TSR-11 upgrades and for the participation in USAF testing of the GBS Transmission Security (TRANSEC) capability using the Enterprise Service Gateway Modem (ESGM). The ESGM modems will provide increased security of satellite transmissions over the WGS constellation to meet the TRANSEC capability requirements.

The Approved Acquisition Objective (AAO) for Global Broadcast Service (GBS) is 2,080.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9922B08400 / ENROUTE MISSION COMMAND (EMC)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	35	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	160.703	8.609	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	160.703	8.609	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	160.703	8.609	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	4,591.514	-	-	-	-	-	-	-	-	-	-	-

Description:

EMC supports the Global Response Force (GRF) requirement to conduct Airborne forcible entry operations with the ability to conduct mission command, to include mission planning and rehearsal, while enroute on board US Air Force Air Mobility Command (AMC) aircraft. EMC modernizes enroute communications to enable broadband reach-back data capability utilizing military or commercial networks with adequate bandwidth to support required Mission Command and Intelligence applications.

The Ka MWO will enable access to a faster, more reliable and robust network. The Ka satellite service increases the coverage map providing true worldwide coverage instead of regional coverage. Ka will provide a guaranteed data rate and up to 4 times higher throughput which will better enable mission command and simultaneous use of more data-intensive services that commanders can use such as UAV video streaming for greater situational awareness of the drop zone. Market research indicates multiple DoD stakeholders can collectively achieve price breaks and lower future bandwidth costs by up to 20-30% over Ku. This MWO, in conjunction with other DoD stakeholders' efforts, will provide a larger available pool of aircraft available for the Army and others to utilize decreasing maintenance downtime or unavailability of aircraft.

Operational Needs Statement (ONS) 09-9319 was revalidated by the HQDA G-3 on 5 Nov 2014 to support fielding of the objective capability, which will support a full brigade lift of the Alpha echelon for a forced entry operation. (ONS) 09-9319 was validated by HQDA G3 in 5 Mar 2013. \$21.275 million was provided in September 2013 via an Above Threshold Reprogramming (ATR) on SSN BB8417 Modification of In-Service Equipment (TACSAT) in support of that ONS to provide an initial capability.

Full Operational Capability (FOC) for Ku satellite band was met in Sep 2017. Commensurate with rephasing of FY2017 OPA funding into FY2018/2019, program was restructured in Dec 2015. MDA addressed schedule issues (Oct 2016) by authorizing to field a Ku SATCOM band FISA Full Operational Capability (FOC) (4QFY17) and complete a Modification Word Order (MWO), adding Ka SATCOM band FISA capability, post Ku FISA FOC.

Initial Operational Capability was met in May 2015 with modification of five C-17s with satellite antennae and installation kits, and roll-on/roll-off, battalion level, Key Leader Enroute Node (KEN). FOC is 35 Ku FISA equipped C-17s, eight KENs, 24 company level Dependent Airborne Nodes (DAN), and a Command and Staff Palletized Airborne Node (CASPAN) airborne command post suite.

The enduring requirement for EMC is documented in the Transmission Systems Capabilities Production Document (CPD), DAMO, CIC 30 January 2015.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9922B08400 / ENROUTE MISSION COMMAND (EMC)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.609	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	8.609	-	-	-	-	-	-	-	-

Justification:
 B08400 has no funding request in FY 22.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 9923B09900 / Spectrum Microwave
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.382	17.233	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.382	17.233	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.382	17.233	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Commercial Spectrum Enhancement Act (CSEA) Title II, Public Law 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the costs associated with relocating communication systems from spectrum bands which were auctioned for commercial purposes.

- The SRF is funded with proceeds from Federal Communications Commission (FCC) conducted auctions of spectrum licenses.
- SRF funds have an indefinite obligation period and remain available until expended (X Year).
- The Department of Defense (DoD) Information Officer (CIO) executes oversight of the DoD spectrum relocation and sharing efforts.

Spectrum Microwave efforts transition all Army activities out of 1755 MHz and 1780-1850 MHz band and relocates the activities microwave links to 7/8 GHz to facilitate compression of other systems into 1780-1850 MHz bands.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	17.233	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	17.233	-	-	-	-	-	-	-	-

Justification:

B09900 has no funding request in FY22.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 24: Comm - C3 System	P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0604818A	Other Related Program Elements: 0604818A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.497	67.533	86.198	99.858	-	99.858	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.497	67.533	86.198	99.858	-	99.858	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.497	67.533	86.198	99.858	-	99.858	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	47.011	123.235	239.439	188.767	-	188.767	-	-	-	-	-	-

Description:

This funding line is directly aligned to the Army Network Modernization Strategy LOE 2, Common Operating Environment (COE). This funding line also supports the Army Network Modernization Strategy LOE 1, Network Enabling Functions. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

COE TSI provides the hardware infrastructure to host capabilities, such as the command post computing environment (CPCE), movement and maneuver applications, network enabling tools and warfighting function applications.

COE TSI standardizes server configurations using Commercial-off-the-shelf (COTS) hardware and software. COE TSI is intended to provide a common hosting platform for mission command systems and will extend to support the migration of future warfighting capabilities, as well as taking cloud computing technologies into the tactical space. COE TSI provides a significant improvement in computing power over the legacy Battle Command Common Services server stacks.

The Milestone Decision Authority (MDA) approved the TSI Acquisition Strategy on 11 July 2019 and issued an Acquisition Decision Memorandum (ADM) approving a Full Deployment Decision (FDD) to field CPCE Increment 0 capability on the TSI. First Unit Equipped (FUE) fielding began 26 August 2019. Procurement and Fielding will continue in accordance with the approved CPCE/TSI Acquisition Strategy and fielding priorities established by HQDA G3/5/7.

Requirements for the CPCE/TSI program are established in the AROC approved COE Information Systems Initial Capability Document (IS ICD), TSI Requirements Definition Package (RDP), and CPCE RDP

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	64.993	68.959	71.899	-	71.899	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.695	12.930	20.970	-	20.970	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 24: Comm - C3 System					P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: 0604818A			Other Related Program Elements: 0604818A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	0.845	4.309	6.989	-	6.989	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	67.533	86.198	99.858	-	99.858	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 24: Comm - C3 System

P-1 Line Item Number / Title:
 8151B70000 / COE Tactical Server Infrastructure (TSI)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0604818A **Other Related Program Elements:** 0604818A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B70005 / Tactical Server Infrastructure (TSI)	P-5a			- / 20.497	- / 67.533	- / 86.198	- / 99.858	- / -	- / 99.858
P-40	Total Gross/Weapon System Cost				- / 20.497	- / 67.533	- / 86.198	- / 99.858	- / -	- / 99.858

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base procurement funding of \$99.858 million supports the purchase of 135 TSI Large servers and 394 TSI Small servers to host Command Post Computing Environment (CPCE) core infrastructure software and warfighting function applications.

Funding also procures TSI software necessary for server operation, including Operating System software, virtual machine configuration software, firewall software, password management software and integration of Network Enabling Tools (TDI and Cyber SU) into the COE TSI.

Funding supports product support documentation and services, fielding, and New Equipment Training (NET) of the hardware and software; bringing command and control, situational awareness, and executive decision making capabilities to the Warfighter.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24		P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)
		Item Number / Title [DODIC]: B70005 / Tactical Server Infrastructure (TSI)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	20.497	67.533	86.198	99.858	-	99.858
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	20.497	67.533	86.198	99.858	-	99.858
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.497	67.533	86.198	99.858	-	99.858

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	47.011	123.235	239.439	188.767	-	188.767

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Hardware TSI Large Server ^(f)	120.179	28	3.365	125.543	92	11.550	131.741	135	17.785	133.052	135	17.962	-	-	-	133.052	135	17.962
Hardware TSI Small Server (Laptop) ^(f)	19.767	86	1.700	20.150	227	4.574	27.533	225	6.195	21.589	394	8.506	-	-	-	21.589	394	8.506
<i>Subtotal: Recurring Cost</i>	-	-	5.065	-	-	16.124	-	-	23.980	-	-	26.468	-	-	-	-	-	26.468
<i>Subtotal: Hardware Cost</i>	-	-	5.065	-	-	16.124	-	-	23.980	-	-	26.468	-	-	-	-	-	26.468
Software Cost																		
Recurring Cost																		
TSI Large SW Licenses	106.000	28	2.968	124.000	92	11.408	117.652	135	15.883	107.378	135	14.496	-	-	-	107.378	135	14.496
TSI Small SW Licenses	13.965	86	1.201	18.568	227	4.215	13.733	225	3.090	19.272	394	7.593	-	-	-	19.272	394	7.593
Software License Maintenance	-	-	4.153	-	-	14.910	-	-	20.504	-	-	23.870	-	-	-	-	-	23.870
Post Deployment Software Support	-	-	-	-	-	-	-	-	1.981	-	-	4.492	-	-	-	-	-	4.492
<i>Subtotal: Recurring Cost</i>	-	-	8.322	-	-	30.533	-	-	41.458	-	-	50.451	-	-	-	-	-	50.451
<i>Subtotal: Software Cost</i>	-	-	8.322	-	-	30.533	-	-	41.458	-	-	50.451	-	-	-	-	-	50.451
Support - Fielding Cost																		
Fielding	-	-	3.287	-	-	5.017	-	-	2.622	-	-	3.393	-	-	-	-	-	3.393

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24	P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)	Item Number / Title [DODIC]: B70005 / Tactical Server Infrastructure (TSI)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Fielding Cost</i>	-	-	3.287	-	-	5.017	-	-	2.622	-	-	3.393	-	-	-	-	-	3.393
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	1.415	-	-	3.670	-	-	2.256	-	-	-	-	-	2.256
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	1.415	-	-	3.670	-	-	2.256	-	-	-	-	-	2.256
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	3.283	-	-	4.094	-	-	5.106	-	-	6.775	-	-	-	-	-	6.775
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	3.283	-	-	4.094	-	-	5.106	-	-	6.775	-	-	-	-	-	6.775
Support - Program Management Cost																		
Contractor Management	-	-	0.540	-	-	4.650	-	-	2.680	-	-	2.754	-	-	-	-	-	2.754
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.540	-	-	4.650	-	-	2.680	-	-	2.754	-	-	-	-	-	2.754
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	4.250	-	-	4.665	-	-	5.873	-	-	-	-	-	5.873
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	4.250	-	-	4.665	-	-	5.873	-	-	-	-	-	5.873
Support - Training Cost																		
Equipment	-	-	-	-	-	1.450	-	-	2.017	-	-	1.888	-	-	-	-	-	1.888
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	1.450	-	-	2.017	-	-	1.888	-	-	-	-	-	1.888
Gross/Weapon System Cost	47.011	-	20.497	123.235	-	67.533	239.439	-	86.198	188.767	-	99.858	-	-	-	188.767	-	99.858

Remarks:

- Note 1: The TSI Large hardware consists of three server assemblies for Brigade and higher formations, while the TSI Small is an expeditionary server supporting Battalion level formations and Continuity of Operations for Brigade headquarters and higher echelons..
- Note 2: Unit costs for hardware based on CHS contract costs and software unit costs based on current Extended License Agreement.
- Note 3: PDSS is a critical annual activity that enables the continual operations and deployment of updated software. As the software is updated through soldier feedback, PDSS supports the integration and configuration management of improvements into releasable builds.
- Note 4: Software License maintenance increases each year as more systems are fielded and annual maintenance costs for those systems must be funded by the program until CPCE/TSI transitions to sustainment after FY25.
- Note 5: Initial Spares/Repair parts allow for the repair of deficiencies during fielding or failures during unit operations.
- Note: There is no P-21 because the COE TSI program uses standardizes server configurations using Commercial-off-the-shelf (COTS) hardware and software.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24	P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)	Item Number / Title [DODIC]: B70005 / Tactical Server Infrastructure (TSI)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	64.993	68.959	71.899	-	71.899
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	1.695	12.930	20.970	-	20.970
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	0.845	4.309	6.989	-	6.989
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	67.533	86.198	99.858	-	99.858

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24				P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)				Item Number / Title [DODIC]: B70005 / Tactical Server Infrastructure (TSI)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware TSI Large Server		2019	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	May 2019	Aug 2019	28	120.179	Y		
Hardware TSI Large Server		2020	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Jan 2020	May 2020	92	125.543	Y		
Hardware TSI Large Server		2021	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2020	Mar 2021	135	131.741	Y		
Hardware TSI Large Server		2022	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2021	Feb 2022	135	133.052	Y		
Hardware TSI Small Server (Laptop)		2019	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	May 2019	Aug 2019	86	19.767	Y		
Hardware TSI Small Server (Laptop)		2020	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Jan 2020	May 2020	227	20.150	Y		
Hardware TSI Small Server (Laptop)		2021	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen, Proving Ground, MD	Nov 2020	Mar 2021	225	27.533	Y		
Hardware TSI Small Server (Laptop)		2022	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2021	Feb 2022	394	21.589	N		

Remarks:
Procured items are COTS.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A, 0605042A
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Line Item MDAP/MAIS Code: 385

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	985.550	468.026	547.148	775.069	-	775.069	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	985.550	468.026	547.148	775.069	-	775.069	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	985.550	468.026	547.148	775.069	-	775.069	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line is directly aligned to the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a single Acquisition Category IC program encompassing: handheld radios (one-channel Rifleman Radio (RR), two-channel Leader Radio (LR), and Single-Channel Data Radio (SCDR)) and Manpack (MP) radio (Generation 1 and Generation 2 radios). HMS provides voice and data communication to the expeditionary Warfighter with an on-the-move, at-the-halt, and stationary Line of Sight (LOS)/Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. HMS radio systems are software reprogrammable, networkable, multi-mode systems capable of simultaneous voice and data communication. HMS radios will support a variety of other platforms, including tactical End User Devices (EUD) voice and data needs. HMS provides tailorable and scalable, software-defined radio systems meeting U.S. Army, Air Force, Navy, Marine Corps and Special Operations Command communications needs.

HMS radios provide both Classified and Unclassified communications. HMS radios provide the Single Channel Ground and Airborne Radio System (SINCGARS) legacy waveform for Classified and Unclassified communications. HMS radios also provide advanced waveforms (e.g., TrellisWare TSM) that provide Secure but Unclassified (SBU) communications. The MP radio provides the Mobile User Objective System (MUOS) waveform for Tactical Satellite communications. These procurement efforts support Army Capability Set brigades as well as priority legacy TACSAT users. The HMS program is currently in the process of conducting testing, including Laboratory and Field Based Risk Reduction events, in support of an Operational Test event.

The HMS radio systems serve as the backbone of the Integrated Tactical Network (ITN) architecture, supporting a converged Mission Command network. Emerging requirements from ITN experimentation may include reconfiguration of existing communications equipment for additional use cases and/or new radio variants to meet Soldier networking needs. The Army intends to procure and integrate Manpack Radios in support of the Air to Ground Networking Radio (AGNR) mission.

HMS is currently executing a May 2014 approved Acquisition Strategy (AS) to procure Non-Developmental Items (NDI) through full and open competition open to all potential industry partners. An addendum to the AS was approved by the acting AAE on 8 March 2017, which incorporates the LR requirements. Two Firm-Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) contracts were awarded in support of this effort. The first contract was awarded on 29 April 2015 to procure Handheld radios; the initial Delivery Order on this contract was to procure RR. On 13 September 2016, the Army Acquisition Executive approved a decrease to the Basis of Issue (BOI) for the single-channel RR, an increase to the BOI for the two channel LR, and provided authority to move forward with acquisition activities for the two-channel LR. On 18 September 2018, HMS on-ramped LR capabilities to the existing Handheld IDIQ contract. The second contract was awarded on 26 February 2016 and will procure NDI MP radios for use in a classified environment. Through the Configuration Steering Board (CSB) process and a subsequent ADM signed January 14, 2020, the Army removed legacy HMS radio requirements and directed the incorporation of

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A, 0605042A
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Line Item MDAP/MAIS Code: 385

the new Single-Channel Data Radio (SCDR) in support of the Integrated Visual Augmentation System (IVAS) into the program baseline (104,496 radios). Single channel radios (SCDR) procured in the IVAS (K36402) program in FY21 will be procured in this program in FY22 and beyond. The Rifleman Radio Army Acquisition Objective (AAO) was reduced to reflect quantities procured to date (21,579), and the Small Form Fit (SFF) B and SFF D radio variant requirements were reduced to 0.

For MP, the Army will procure radios through a multiple step selection process:

- a. Awarded FFP Contracts to all qualified vendors based on technical acceptability and demonstrations (26 February 2016)
- b. Awarded initial delivery orders based on Qualification Test results (19 December 2016)
- c. Awarded second delivery orders based on Customer Test results (31 July 2017)
- d. Awarded LRIP delivery orders (30 April 2018, 06 June 2019, and 22 April 2020)
- e. Achieve Full Rate Production (3QFY21)

For LR, the Army will procure radios through a multiple step selection process:

- a. Awarded FFP Contracts to all qualified vendors based on technical acceptability and demonstrations (18 September 2018)
- b. Awarded LRIP delivery orders to support SFAB and ITN fieldings/evaluations (18 September 2018)
- c. Awarded LRIP delivery order based on best value trade off construct (20 December 2019)
- d. Awarded LRIP delivery order based on best value trade off construct (1QFY21, FY20 funds)
- e. Achieve Full Rate Production (3QFY21)

For SCDR, the Acquisition Strategy is pending approval, estimated no later than FY2021. The plan consists of procuring initial quantities through a Microsoft competitively awarded contract, followed by a multi-award IDIQ contract.

The current Handheld AAO (Army Acquisition Objective) is 226,075:

- 100,000 Leader Radios
- 21,579 Rifleman Radios
- 104,496 Single Channel Data Radio

The current Manpack AAO is 65,622.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	468.026	547.148	775.069	-	775.069	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	468.026	547.148	775.069	-	775.069	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A, 0605042A
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Line Item MDAP/MAIS Code: 385

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B95006 / Handheld Radio	P-5a, P-21			- / 312.022	- / 118.275	- / 141.311	- / 358.395	- / -	- / 358.395
P-5	B95007 / Manpack Radio	P-5a, P-21			- / 673.528	- / 349.751	- / 405.837	- / 416.674	- / -	- / 416.674
P-40	Total Gross/Weapon System Cost				- / 985.550	- / 468.026	- / 547.148	- / 775.069	- / -	- / 775.069

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$775.069 million support the procurement of:
 - 5,440 Leader Radios, 29,237 Single-Channel Data Radios, Non-Recurring Engineering (NRE), System Engineering and Program Management (SEPM), support equipment, fielding, and vehicle integration. (\$358.395 million).

 - 4,337 Manpack Radios, NRE, SEPM, support equipment, fielding, vehicle integration, AGNR assets, and AGNR NRE. (\$416.674 million).

 Single channel radios (SCDR) procured in the IVAS (K36402) program in FY21 will be procured in this program in FY22 and beyond.

 In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	312.022	118.275	141.311	358.395	-	358.395
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	312.022	118.275	141.311	358.395	-	358.395
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	312.022	118.275	141.311	358.395	-	358.395

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	51.151	24.336	33.415	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Manufacturing - Leader Radio ^(†)	33.744	6,100	205.837	23.160	3,420	79.206	23.545	4,229	99.572	26.090	5,440	141.932	-	-	-	26.090	5,440	141.932
Manufacturing - Single-Channel Data Radios ^(†)	-	-	-	-	-	-	-	-	-	4.798	29,237	140.285	-	-	-	4.798	29,237	140.285
<i>Subtotal: Recurring Cost</i>	-	-	205.837	-	-	79.206	-	-	99.572	-	-	282.217	-	-	-	-	-	282.217
Non Recurring Cost																		
Hardware NRE	-	-	11.384	-	-	7.070	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	11.384	-	-	7.070	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	217.221	-	-	86.276	-	-	99.572	-	-	282.217	-	-	-	-	-	282.217
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	23.196	-	-	2.692	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	23.196	-	-	2.692	-	-	-	-	-	-	-	-	-	-	-	-
Support - Data Cost																		
Engineering Data	-	-	38.567	-	-	6.087	-	-	4.425	-	-	10.209	-	-	-	-	-	10.209
<i>Subtotal: Support - Data Cost</i>	-	-	38.567	-	-	6.087	-	-	4.425	-	-	10.209	-	-	-	-	-	10.209
Support - Fielding Cost																		
Fielding	-	-	10.223	-	-	7.536	-	-	7.852	-	-	10.070	-	-	-	-	-	10.070

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)
		Item Number / Title [DODIC]: B95006 / Handheld Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Fielding Cost</i>	-	-	10.223	-	-	7.536	-	-	7.852	-	-	10.070	-	-	-	-	-	10.070
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	7.248	-	-	14.399	-	-	-	-	-	14.399
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	7.248	-	-	14.399	-	-	-	-	-	14.399
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	0.165	-	-	-	-	-	2.096	-	-	2.841	-	-	-	-	-	2.841
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	0.165	-	-	-	-	-	2.096	-	-	2.841	-	-	-	-	-	2.841
Support - Operational/Site Activation Cost																		
System Assembly, Installation and Checkout on Site	-	-	4.238	-	-	6.782	-	-	6.372	-	-	8.207	-	-	-	-	-	8.207
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	4.238	-	-	6.782	-	-	6.372	-	-	8.207	-	-	-	-	-	8.207
Support - System Engineering Cost																		
System Engineering	-	-	10.400	-	-	7.155	-	-	8.068	-	-	11.308	-	-	-	-	-	11.308
<i>Subtotal: Support - System Engineering Cost</i>	-	-	10.400	-	-	7.155	-	-	8.068	-	-	11.308	-	-	-	-	-	11.308
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	2.635	-	-	1.747	-	-	3.234	-	-	11.744	-	-	-	-	-	11.744
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	2.635	-	-	1.747	-	-	3.234	-	-	11.744	-	-	-	-	-	11.744
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	5.377	-	-	-	-	-	2.445	-	-	7.396	-	-	-	-	-	7.396
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	5.377	-	-	-	-	-	2.445	-	-	7.396	-	-	-	-	-	7.396
Gross/Weapon System Cost	51.151	-	312.022	24.336	-	118.275	33.415	-	141.311	-	-	358.395	-	-	-	-	-	358.395

Remarks:
Recurring Manufacturing: Leader Radio: Radio/Transmitter, radio vendor dismantled and mounted system ancillaries, SFAB refresh in FY20, and Common Hardware Systems (CHS) procured ancillaries.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Recurring Manufacturing: Single-Channel Data Radio: Radio/Transmitter and ancillaries.

Non-recurring Cost: Vehicle integration NRE for LR, TSM porting and Warrior Robust Enhanced Network (WREN)/TSM certification.

Support Equipment: Hardware (HW) geared toward maintenance and testing of the systems, not directly tied to operation of the systems. Note that costs previously captured as support equipment are now shifted to manufacturing. This includes radio vendor procured multi-bay chargers, radio and Nett Warrior (NW) manager, fires mission data cables, audio splitter cables, ethernet adaptors, CHS procured handset, tri-band antenna and tie down, screwdriver set, H250 and cable.

Data Costs: Radio vendor Services and Contractor Data Requirements List (CDRL) contractual costs outside of hardware and warranty.

Fielding Costs: Warranties, Contractor Logistics Support (CLS) Labor, Tobyhanna Army Depot (TYAD) costs.

Operational/Site Activation: Installation costs for mounted LR platforms.

Systems Engineering Costs: Matrix Government and SETA contract labor for system management and control, and PMO travel.

System Technical Support (STS) Costs: Leader Radio Post Deployment Software Support, Engineering Change Proposal Costs (ECPs).

Systems Test and Evaluation: Performance Verification Testing (PVT) and Unified Lab for Tactical Radios - Army (ULTR-A) laboratory costs for LR and SCDR.

NET: (New Equipment Training Cost) Note that NET costs were previously captured under fielding. Current P form breaks NET out separately.

Initial Spares: Initial spares components, assemblies, and subassemblies to support end item fielding. Note that previous form was assuming spare quantities are included as part of the AAO. Current form assumes additional spares above the AAO, and assumes procurement of spares in FY21-24 (for systems procured in FY18-23).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	118.275	141.311	358.395	-	358.395
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	118.275	141.311	358.395	-	358.395

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Manufacturing - Leader Radio ^(†)		2018	L3Harris Technologies / New York	SS / FFP	APG, MD	Sep 2018	May 2019	1,688	26.865	Y		Jul 2018
Manufacturing - Leader Radio ^(†)		2018	Thales Defense & Security, Inc. / Maryland	SS / FFP	APG, MD	Sep 2018	Mar 2019	2,408	26.865	Y		Jul 2018
Manufacturing - Leader Radio ^(†)		2019	L3Harris Technologies / New York	SS / FFP	APG, MD	Dec 2019	Jan 2020	1,244	25.590	Y		
Manufacturing - Leader Radio ^(†)		2019	Thales Defense & Security, Inc. / Maryland	SS / FFP	APG, MD	Dec 2019	Sep 2020	760	30.179	Y		
Manufacturing - Leader Radio ^(†)		2020	L3Harris Technologies / New York	C / FFP	APG, MD	Nov 2020	Dec 2020	2,290	21.141	Y	Jan 2020	Apr 2020
Manufacturing - Leader Radio ^(†)		2020	Thales Defense & Security, Inc. / Maryland	C / FFP	APG, MD	Nov 2020	Dec 2020	1,130	25.786	Y		Apr 2020
Manufacturing - Leader Radio ^(†)		2021	TBD / TBD	C / FFP	APG, MD	Jul 2021	Jan 2022	4,229	23.545	N	Aug 2020	May 2021
Manufacturing - Leader Radio ^(†)		2022	TBD / TBD	C / FFP	APG, MD	Apr 2022	Oct 2022	5,440	26.090	N	Aug 2021	Oct 2021
Manufacturing - Single-Channel Data Radios ^(†)		2022	TBD 2 / TBD	C / FFP	APG, MD	Jan 2022	Mar 2022	29,237	4.798	N	Aug 2021	Apr 2021

^(†) indicates the presence of a P-21

Remarks:

HMS contracts will be Firm Fixed Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) for Full Rate Production (FRP).

Vendors for the Handheld IDIQ contract are Harris Radio Corp (Rochester, NY) and Thales Communications (Clarksburg, MD). The Leader Radio meets the needs of SFAB, ITN, Nett Warrior, and the Warfighter community. Quantities shown may be split if multiple vendors qualify for award.

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Exhibit P-21, Production Schedule: PB 2022 Army Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS) Item Number / Title [DODIC]: B95006 / Handheld Radio

Table with columns for Cost Elements (Units in Thousands), Fiscal Year 2018, Fiscal Year 2019, and BALANCE. Sub-headers include Calendar Year 2018 and Calendar Year 2019.

Table titled 'Manufacturing - Leader Radio' with columns for O C O #, M F R #, FY, SERVICE, PROC QTY, ACCEPT PRIOR TO 1 OCT 2017, BAL DUE AS OF 1 OCT, and monthly columns (O C T to S E P) for years 2018-2022.

Table titled 'Manufacturing - Single-Channel Data Radios' with columns for O C O #, M F R #, FY, SERVICE, PROC QTY, ACCEPT PRIOR TO 1 OCT 2017, BAL DUE AS OF 1 OCT, and monthly columns (O C T to S E P) for year 2022.

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
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Cost Elements <i>(Units in Thousands)</i>				Fiscal Year 2020													Fiscal Year 2021													BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
Manufacturing - Leader Radio																																	
	1	2018	ARMY	1.688	.796	.892	.406	.175	.125	.048	.016	.019	.010	.093																.000			
	2	2018	ARMY	2.408	2.194	.214	-	-	-	-	-	.025	-	.076	-	-	-	.113												.000			
	1	2019	ARMY	1.244	.000	1.244				A -	.295	.100	.381	.404	.064														.000				
	2	2019	ARMY	.760	.000	.760				A -	-	-	-	-	-	-	.760												.000				
	1	2020	ARMY	2.290	.000	2.290														A -	.030	-	-	-	-	2.260			.000				
	2	2020	ARMY	1.130	.000	1.130														A -	.030	-	-	-	-	1.100			.000				
	3	2021	ARMY	4.229	.000	4.229																					A -	-	-	4.229			
	3	2022	ARMY	5.440	.000	5.440																							5.440				
Manufacturing - Single-Channel Data Radios																																	
	4	2022	ARMY	29.237	.000	29.237																							29.237				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
--	--	--

Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022														Fiscal Year 2023														BALANCE
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Manufacturing - Leader Radio																																			
	1	2018	ARMY	1.688	1.688	.000																								.000					
	2	2018	ARMY	2.408	2.408	.000																								.000					
	1	2019	ARMY	1.244	1.244	.000																								.000					
	2	2019	ARMY	.760	.760	.000																								.000					
	1	2020	ARMY	2.290	2.290	.000																								.000					
	2	2020	ARMY	1.130	1.130	.000																								.000					
	3	2021	ARMY	4.229	.000	4.229	-	-	-	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.353	.346							.000					
	3	2022	ARMY	5.440	.000	5.440							A -	-	-	-	-	-	.454	.454	.454	.454	.454	.454	.454	.454	.454	.454	.446	.000					
Manufacturing - Single-Channel Data Radios																																			
	4	2022	ARMY	29.237	.000	29.237				A -	-	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.437	2.430			.000						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	L3Harris Technologies - New York	100	300	900	0	0	0	0	0	0	0	0	0
2	Thales Defense & Security, Inc. - Maryland	100	150	450	0	0	0	0	0	0	0	0	0
3	TBD - TBD	200	300	900	0	0	0	0	0	0	0	0	0
4	TBD 2 - TBD	100	4,500	5,000	0	0	0	0	0	0	0	0	0

Remarks:
Based on the Army's requirements and the number of vendors, min/max production rates will be updated annually.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)
		Item Number / Title [DODIC]: B95007 / Manpack Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	673.528	349.751	405.837	416.674	-	416.674
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	673.528	349.751	405.837	416.674	-	416.674
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	673.528	349.751	405.837	416.674	-	416.674

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	169.313	101.672	93.813	97.468	-	97.468

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Recurring Manufacturing - Manpack ^(†)	76.284	4,180	318.869	53.810	3,440	185.106	53.746	4,326	232.504	51.634	4,337	223.935	-	-	-	51.634	4,337	223.935
<i>Subtotal: Recurring Cost</i>	-	-	318.869	-	-	185.106	-	-	232.504	-	-	223.935	-	-	-	-	-	223.935
Non Recurring Cost																		
Hardware NRE	-	-	48.606	-	-	63.514	-	-	38.646	-	-	19.216	-	-	-	-	-	19.216
<i>Subtotal: Non Recurring Cost</i>	-	-	48.606	-	-	63.514	-	-	38.646	-	-	19.216	-	-	-	-	-	19.216
<i>Subtotal: Flyaway Cost</i>	-	-	367.475	-	-	248.620	-	-	271.150	-	-	243.151	-	-	-	-	-	243.151
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	120.407	-	-	13.457	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	120.407	-	-	13.457	-	-	-	-	-	-	-	-	-	-	-	-
Support - Data Cost																		
Engineering Data	-	-	28.132	-	-	8.558	-	-	8.158	-	-	8.321	-	-	-	-	-	8.321
<i>Subtotal: Support - Data Cost</i>	-	-	28.132	-	-	8.558	-	-	8.158	-	-	8.321	-	-	-	-	-	8.321
Support - Fielding Cost																		
Fielding	-	-	39.949	-	-	41.674	-	-	49.601	-	-	49.940	-	-	-	-	-	49.940
<i>Subtotal: Support - Fielding Cost</i>	-	-	39.949	-	-	41.674	-	-	49.601	-	-	49.940	-	-	-	-	-	49.940

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)						Item Number / Title [DODIC]: B95007 / Manpack Radio					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	9.172	-	-	10.202	-	-	-	-	-	10.202
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	9.172	-	-	10.202	-	-	-	-	-	10.202
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	-	-	-	-	-	-	3.151	-	-	3.366	-	-	-	-	-	3.366
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	-	-	-	-	-	-	3.151	-	-	3.366	-	-	-	-	-	3.366
Support - Operational/Site Activation Cost																		
System Assembly, Installation and Checkout on Site	-	-	8.817	-	-	11.757	-	-	37.888	-	-	70.011	-	-	-	-	-	70.011
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	8.817	-	-	11.757	-	-	37.888	-	-	70.011	-	-	-	-	-	70.011
Support - System Engineering Cost																		
System Engineering	-	-	73.303	-	-	18.595	-	-	16.719	-	-	17.180	-	-	-	-	-	17.180
<i>Subtotal: Support - System Engineering Cost</i>	-	-	73.303	-	-	18.595	-	-	16.719	-	-	17.180	-	-	-	-	-	17.180
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	29.639	-	-	7.090	-	-	5.242	-	-	4.986	-	-	-	-	-	4.986
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	29.639	-	-	7.090	-	-	5.242	-	-	4.986	-	-	-	-	-	4.986
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	5.806	-	-	-	-	-	4.755	-	-	9.515	-	-	-	-	-	9.515
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	5.806	-	-	-	-	-	4.755	-	-	9.515	-	-	-	-	-	9.515
Gross/Weapon System Cost	169.313	-	673.528	101.672	-	349.751	93.813	-	405.837	97.468	-	416.674	-	-	-	97.468	-	416.674

Remarks:
 Recurring Manufacturing: Manpack Radio: Radio/Transmitter, radio vendor dismantled and mounted system ancillaries, and Common Hardware Systems (CHS) procured ancillaries.
 Non-recurring Cost: Vehicle integration NRE for MP, TSM porting and Warrior Robust Enhanced Network (WREN)/TSM certification.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Support Equipment: Hardware (HW) geared toward maintenance and testing of the systems, not directly tied to operation of the systems. Note that costs previously captured as support equipment have now been shifted to manufacturing.

Data Costs: Radio vendor Services and Contractor Data Requirements List (CDRL) contractual costs outside of HW and warranty.

Fielding Costs: Warranties, Contractor Logistics Support (CLS) Labor, Tobyhanna Army Depot (TYAD) costs, Air to Ground Networking Radio (AGNR) fielding.

Operational/Site Activation: Installation costs for mounted MP platforms.

Systems Engineering Costs: Matrix Government and SETA contract labor for system management and control, and PMO travel.

System Technical Support (STS) Costs: Gen1 MP sustainment and Gen2 Post Deployment Sustainment Support (PDSS). Note previous position was assuming TSM maintenance costs at 20% of initial TSM maintenance license and General Dynamics sustainment of Gen1 MP. The current forms reflect extended warranties cover TSM maintenance and Gen1 MP sustainment through TYAD. Previous forms also had ECPs included as part of STS.

Systems Test and Evaluation: Performance Verification Testing (PVT) and Unified Lab for Tactical Radios - Army (ULTR-A) laboratory costs for MP.

NET: (New Equipment Training Cost) Note that NET costs were previously captured under fielding.

Initial Spares: Initial spares components, assemblies, and subassemblies to support end item fielding. Note that previous form was assuming spare quantities are included as part of the AAO. Current form assumes additional spares above the AAO and assumes procurement of spares in FY21-24 (for systems procured in FY18-23).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	349.751	405.837	416.674	-	416.674
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	349.751	405.837	416.674	-	416.674

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Recurring Manufacturing - Manpack ^(†)		2018	Collins Aerospace / Iowa	SS / FFP	APG, MD	Apr 2018	Jan 2019	1,129	60.420	Y		Apr 2018
Recurring Manufacturing - Manpack ^(†)		2018	L3Harris Technologies / New York	SS / FFP	APG, MD	Apr 2018	Feb 2019	1,129	60.420	Y		Apr 2018
Recurring Manufacturing - Manpack ^(†)		2019	Collins Aerospace / Iowa	C / FFP	APG, MD	Jun 2019	Feb 2020	860	62.467	Y		Feb 2019
Recurring Manufacturing - Manpack ^(†)		2019	L3Harris Technologies / New York	C / FFP	APG, MD	Jun 2019	Oct 2019	860	62.467	Y		Feb 2019
Recurring Manufacturing - Manpack ^(†)		2020	TBD / TBD	C / FFP	APG, MD	Apr 2020	Oct 2020	3,440	53.810	N	Aug 2019	Nov 2019
Recurring Manufacturing - Manpack ^(†)		2021	TBD / TBD	C / FFP	APG, MD	Jul 2021	Jan 2022	4,326	53.746	N	Aug 2020	Nov 2020
Recurring Manufacturing - Manpack ^(†)		2022	TBD / TBD	C / FFP	APG, MD	Apr 2022	Oct 2022	4,337	51.634	N	Aug 2021	Jan 2021

^(†) indicates the presence of a P-21

Remarks:

HMS contracts will be Firm Fixed Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) for Full Rate Production (FRP).

As of July 2018, vendors for the Manpack IDIQ contracts are Harris Radio Corp (Rochester, NY) and Collins Aerospace (Cedar Rapids, IA). Both vendors were awarded an FY 2018 delivery order on 30 April 2018 (1,129 R/Ts per vendor), and a FY 2019 delivery order on 06 June 2019 (860 R/Ts per vendor), FY 2020 delivery order on 22 April 2020 (1,720 R/Ts per vendor). Future delivery order quantity split is notional and will be assessed as a best value tradeoff evaluation.

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 **P-1 Line Item Number / Title:** 6458B95004 / Handheld Manpack Small Form Fit (HMS) **Item Number / Title [DODIC]:** B95007 / Manpack Radio

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018												Fiscal Year 2019												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
Recurring Manufacturing - Manpack																															
Prior Years Deliveries: 202																															
	1	2018	ARMY	1,129	0	1,129																									
	2	2018	ARMY	1,129	0	1,129																									
	1	2019	ARMY	860	0	860																									
	2	2019	ARMY	860	0	860																									
	3	2020	ARMY	3,440	0	3,440																							3,440		
	3	2021	ARMY	4,326	0	4,326																							4,326		
	3	2022	ARMY	4,337	0	4,337																							4,337		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 **P-1 Line Item Number / Title:** 6458B95004 / Handheld Manpack Small Form Fit (HMS) **Item Number / Title [DODIC]:** B95007 / Manpack Radio

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 1 O C T 2 0 1 9	BAL D U E A S O F 1 O C T	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Recurring Manufacturing - Manpack																																	
Prior Years Deliveries: 202																																	
	1	2018	ARMY	1,129	751	378	378																						0				
	2	2018	ARMY	1,129	855	274	274																						0				
	1	2019	ARMY	860	0	860	-	-	-	-	385	-	-	-	196	-	93	93	93											0			
	2	2019	ARMY	860	0	860	291	-	-	-	-	291	-	-	-	-	-	66	212											0			
	3	2020	ARMY	3,440	0	3,440							A -	-	-	-	-	-	330	330	329	329	329	329	329	329	329	329	329	148	0		
	3	2021	ARMY	4,326	0	4,326																						A -	-	-	4,326		
	3	2022	ARMY	4,337	0	4,337																									4,337		

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 **P-1 Line Item Number / Title:** 6458B95004 / Handheld Manpack Small Form Fit (HMS) **Item Number / Title [DODIC]:** B95007 / Manpack Radio

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Recurring Manufacturing - Manpack																															
Prior Years Deliveries: 202																															
	1	2018	ARMY	1,129	1,129	0																							0		
	2	2018	ARMY	1,129	1,129	0																							0		
	1	2019	ARMY	860	860	0																							0		
	2	2019	ARMY	860	860	0																							0		
	3	2020	ARMY	3,440	3,440	0																							0		
	3	2021	ARMY	4,326	0	4,326	-	-	-	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	300	0		
	3	2022	ARMY	4,337	0	4,337																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Collins Aerospace - Iowa	30	60	180	0	1,576	0	1,576	0	0	0	0
2	L3Harris Technologies - New York	30	75	300	0	1,576	0	1,576	0	0	0	0
3	TBD - TBD	60	150	508	0	0	0	0	0	0	0	0

Remarks:
 An FY 2018 delivery order was awarded for Manpack (MP) Radios on 30 April 2018 and procured 1,129 MP radios from each vendor (2,258 MP radios total) as well as ancillary equipment, vehicle mounts, and support services.
 An FY 2019 delivery order was awarded for MP Radios on 06 June 2019 and procured 860 MP radios from each vendor (1,720 MP radios total) as well as ancillary equipment, vehicle mounts, and support services.
 An FY 2020 delivery order was awarded for MP Radios on 22 April 2020 and procured 1,720 MP radios from each vendor (3,440 MP radios total) as well as ancillary equipment, vehicle mounts, and support services.

"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 6948B22603 / Radio Terminal Set, MIDS LVT(2)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 554

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	118	214	55	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	134.651	24.128	8.237	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	134.651	24.128	8.237	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	134.651	24.128	8.237	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,141.110	112.748	149.764	-	-	-	-	-	-	-	-	-

Description:

The Multifunctional Information Distribution System program supports the Army Network Modernization Strategy Line of Effort 1, Unified Network.

The MIDS LVT is DoD's primary Link 16 tactical data link network providing joint/allied interoperability, situational awareness and support to air and missile defense engagement operations at Battalion through Corps. The MIDS provides secure, jam resistant transmission and reception of Link 16 messages with near real-time distribution of air and missile tracking and Precise Participant Location and Identification Location (PPLIs). The MIDS LVT Block Upgrade Two (BU2) effort supports National Security Agency (NSA) and Federal Aviation Administration (FAA) mandated cryptographic modernization and frequency remapping. This includes hardware and services procurements required to retrieve/re-issue the BU2 terminals to Army units and establish proper supportability in preparation for Transition to Sustainment.

The Army has procured 572 terminals through FY 2015. Planned fielding supports the purchase of 572 Block Upgrade 2 (BU2) kits in support of NSA and FAA mandates. Voice hardware purchases (cables and cards) support the LVT(2) to LVT(11) conversions required for the Integrated Air and Missile Defense Battle Command System's (IBCS) Link 16 voice requirement.

Army MIDS is part of the Joint Navy-led MIDS program. The Army provides funding to support MIDS modernization initiatives and Link-16 advanced capabilities in support of the Army ground platforms. Further the Army will align with the Joint Requirements Oversight Council Memorandum (JROCM) 089-19 dated 20 August 2018, which endorses the advanced capabilities of Concurrent Multi-Netting (CMN), Concurrent Contention Receive (CCR) and Enhanced Throughput (ET). The Army leverages Navy contracts to support Army MIDS LVT efforts and to procure BU2 kits. The BU2 retrofit improves the capabilities and security of the MIDS LVT by incorporating the cryptographic-modernization and mandated frequency remapping to ensure compliance with NSA and FAA mandates. The LVT Cryptographic Module (LCM) is a subcomponent required to support the BU2 retrofit kit, it is procured from ViaSat and provided as Government Furnished Equipment (GFE) to the vendors (ViaSat and Data Link Systems).

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	214	55	-	-	-	-	-	-
	Total Obligation Authority	24.128	8.237	-	-	-	-	-	-
Total:	Quantity	214	55	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	24.128	8.237	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 6948B22603 / Radio Terminal Set, MIDS LVT(2)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 554

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B22603 / Radio Terminal Set, MIDS LVT(2)	P-5a			118 / 134.651	214 / 24.128	55 / 8.237	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				118 / 134.651	214 / 24.128	55 / 8.237	- / -	- / -	- / -

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 B22603 has no funding request in FY22.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6948B22603 / Radio Terminal Set, MIDS LVT(2)	Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	118	214	55	-	-	-
Gross/Weapon System Cost (\$ in Millions)	134.651	24.128	8.237	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	134.651	24.128	8.237	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	134.651	24.128	8.237	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,141.110	112.748	149.764	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Other Hardware - BU2 ^(f)	57.824	346	20.007	100.000	214	21.400	71.309	55	3.922	-	-	-	-	-	-	-	-	-
Other Hardware - LCMs	3.580	417	1.493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Support	-	-	96.489	-	-	1.391	-	-	0.726	-	-	-	-	-	-	-	-	-
Software Support	-	-	8.203	-	-	0.400	-	-	0.400	-	-	-	-	-	-	-	-	-
Test	-	-	2.377	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Logistics (Transition to Sustainment)	-	-	1.843	-	-	0.587	-	-	1.536	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	130.412	-	-	23.778	-	-	6.584	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	130.412	-	-	23.778	-	-	6.584	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
Other Hardware - MIDS LVT(11)	324.500	8	2.596	350.000	1	0.350	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	2.596	-	-	0.350	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	2.596	-	-	0.350	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	1.643	-	-	-	-	-	1.653	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6948B22603 / Radio Terminal Set, MIDS LVT(2)	Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - System Engineering Cost</i>	-	-	1.643	-	-	-	-	-	1.653	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	1,141.110	118	134.651	112.748	214	24.128	149.764	55	8.237	-	-	-	-	-	-	-	-	-

Remarks:

Note: The Unit Cost of the MIDS BU2 Retrofit Kit pricing is based upon the number of quantities procured through an annual consolidated lot buy which incorporates the Joint US and Coalition forces.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	214	55	-	-	-
	Total Obligation Authority	24.128	8.237	-	-	-
Total:	Quantity	214	55	-	-	-
Secondary Distribution	Total Obligation Authority	24.128	8.237	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 6948B22603 / Radio Terminal Set, MIDS LVT(2)				Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Other Hardware - BU2		2017	ViaSat (121) / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	Nov 2017	Mar 2018	121	73.000	N		
Other Hardware - BU2		2018	ViaSat (109) / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	May 2018	May 2019	109	80.000	N		
Other Hardware - BU2		2019	Viasat (15) / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	Jun 2019	Jun 2020	15	74.333	N		
Other Hardware - BU2		2020	Viasat (214) / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	Mar 2020	Mar 2021	214	100.000	N		
Other Hardware - BU2		2021	Viasat (55) / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	Jul 2021	Jul 2022	55	71.309	N		

Remarks:
 FY 2021 Total dollars in the amount of \$8.237 million will procure 55 each BU2 retrofit kits, software support, logistics support and program management.
 The Unit Cost of the MIDS BU2 Retrofit Kit pricing is based upon the number of quantities procured through an annual consolidated lot buy, which incorporates the Joint US and Coalition forces.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 7264B24400 / ARMY LINK 16 SYSTEMS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	17.749	-	17.749	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	17.749	-	17.749	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	17.749	-	17.749	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Army Link16 program funding line is directly aligned to the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

B24400 Army Link16 Systems is the Parent Line to Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) Ground Variant (GV) (B24425).

Army Link 16 is a tactical data link that networks communication between land, sea, and air forces to support joint operations and improve interoperability. It allows for real-time transfer of combat data, voice communications, imagery, and relative navigation information using data encryption and frequency hopping to maintain secure communications. Interoperability provided by Army Link 16 allows the user in the communication link to electronically observe the battlespace, identify threats, and acquire targets.

The Army will procure Link 16 terminals, gateways, and radios along with services in support of the Army's Link 16 Modernization Strategy by providing interoperability and continuity through the procurement of tactical communication enhancement equipment, ancillaries, and related services. Components supported under Army Link16 include but are not limited to: Ground Army Integrated Air and Missile Defense (IAMD), Aviation, Communication Gateways, and Ground Fires Radios. These items will provide Concurrent Multi-netting (CMN), Concurrent Contentions Receive (CCR), Enhanced Throughput (ET) and Advanced TRANSEC capabilities.

MIDS JTRS GV is a modernization effort of the MIDS Low Volume Terminal (LVT), providing a software defined radio solution that introduces modernized Link16 networking capabilities. Upon completion of fielding, MIDS JTRS GV will fully displace Army MIDS LVT variant. MIDS JTRS GV will provide CMN, CCR, ET and TRANSEC.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	17.749	-	17.749	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 7264B24400 / ARMY LINK 16 SYSTEMS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	-	-	17.749	-	17.749	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 7264B24400 / ARMY LINK 16 SYSTEMS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B24425 / MIDS JTRS GROUND VARIANT	P-5a			- / -	- / -	- / -	- / 17.749	- / -	- / 17.749
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 17.749	- / -	- / 17.749

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY22 procurement dollars in the amount of \$17.749 million supports the procurement of MIDS JTRS GV equipment, spares, ancillaries, assessments, warranties, software licenses, schoolhouse equipment, training events, Army Network Design Facility (ANDF) support, manuals and Systems Engineering and Program Management (SEPM).

 In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

 ARMY LINK 16 SYSTEMS is a new start in FY 2022.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 7264B24400 / ARMY LINK 16 SYSTEMS	Item Number / Title [DODIC]: B24425 / MIDS JTRS GROUND VARIANT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	17.749	-	17.749
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	17.749	-	17.749
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	17.749	-	17.749

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
MIDS JTRS GV ^(†)	-	-	-	-	-	-	-	-	-	423.000	2	0.846	-	-	-	423.000	2	0.846
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.846	-	-	-	-	-	0.846
Non Recurring Cost																		
MIDS JTRS GV TYAD, Platform Integration and Interoperability Hardware	-	-	-	-	-	-	-	-	-	-	-	8.405	-	-	-	-	-	8.405
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	8.405	-	-	-	-	-	8.405
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	9.251	-	-	-	-	-	9.251
Software Cost																		
Recurring Cost																		
Software Maintenance	-	-	-	-	-	-	-	-	-	-	-	0.960	-	-	-	-	-	0.960
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.960	-	-	-	-	-	0.960
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.960	-	-	-	-	-	0.960
Support - Data Cost																		
Technical Publications	-	-	-	-	-	-	-	-	-	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.350	-	-	-	-	-	0.350
Support - Fielding Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 7264B24400 / ARMY LINK 16 SYSTEMS	Item Number / Title [DODIC]: B24425 / MIDS JTRS GROUND VARIANT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Fielding	-	-	-	-	-	-	-	-	-	-	-	0.290	-	-	-	-	-	0.290
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.290	-	-	-	-	-	0.290
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	1.270	-	-	-	-	-	1.270
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.270	-	-	-	-	-	1.270
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	-	-	-	2.668	-	-	-	-	-	2.668
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.668	-	-	-	-	-	2.668
Support - Training Cost																		
Equipment ^(†)	-	-	-	-	-	-	-	-	-	422.857	7	2.960	-	-	-	422.857	7	2.960
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.960	-	-	-	-	-	2.960
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	17.749	-	-	-	-	-	17.749

Remarks:

FY22 procurement dollars in the amount of \$17.749 million supports the procurement of MIDS JTRS GV equipment, spares, ancillaries, assessments, warranties, software licenses, schoolhouse equipment, training events, Army Network Design Facility (ANDF) support, manuals and Systems Engineering and Program Management (SEPM).

Recurring Manufacturing: MIDS JTRS GV Radio Transmitters (RTs) (OCONUS), ancillaries, and warranties.

Non-Recurring Cost: TYAD Facilitization effort which includes test station ancillary commercial parts and MIDS JTRS GV RTs; integration facility and Platform Integration RTs; associated ancillaries, and warranty (RTs only).

Software Cost: Maintenance of SW Licenses for the MIDS JTRS GV systems.

Support - Data Cost: Technical Manuals for MIDS JTRS GV system.

Support - Fielding Cost: MIDS JTRS GV Initial spares components (10%), assemblies, and subassemblies to support end item fielding and warranties.

Support - System Engineering Cost: MIDS JTRS GV Matrix Government and SETA contract labor for system management, control and execution, PMO travel.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 7264B24400 / ARMY LINK 16 SYSTEMS	Item Number / Title [DODIC]: B24425 / MIDS JTRS GROUND VARIANT

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Support - System Test and Evaluation Cost: MIDS JTRS GV ATEC and SETA contract labor for Lab Based Risk Reduction assessments (LBRR), Safety Certification, platform integration efforts, minor training event, and delivery of test report.

Support - Training Cost: MIDS JTRS GV schoolhouse RTs, ancillary schoolhouse equipment and associated warranties.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	17.749	-	17.749
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	17.749	-	17.749

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 7264B24400 / ARMY LINK 16 SYSTEMS				Item Number / Title [DODIC]: B24425 / MIDS JTRS GROUND VARIANT				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MIDS JTRS GV		2022	TBD / TBD	C / FFP	TBD	Jun 2022	Jun 2023	2	423.000	N		
Equipment		2022	TBD / TBD	C / FFP	San Diego, CA	Jun 2022	Jun 2023	7	422.857	N		

Remarks:

QTY of 2:
Recurring Manufacturing: MIDS JTRS GV Radio Transmitters (RTs) (OCONUS), ancillaries, and warranties.

QTY of 7:
Support - Training Cost: MIDS JTRS GV schoolhouse RTs, ancillary schoolhouse equipment and associated warranties.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 8558B54020 / Spider Family of Networked Munitions Incr
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	142	97	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	34.252	10.930	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	34.252	10.930	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	34.252	10.930	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	241.211	112.680	-	-	-	-	-	-	-	-	-	-

Description:

M7 Spider is a hand emplaced, remotely controlled, Man-In-The-Loop (MITL) anti-personnel munition system that is currently being fielded. Spider Increment 1A (M7E1) utilizes an evolutionary acquisition approach which builds upon the baseline Spider Increment 1 system. Spider Increment 1A will 1) replace the Spider Increment 1 Remote Control Unit (RCU) with a new Networked Munitions Control Station that includes mapping capability, the ability to provide obstacle situational awareness to Joint Battle Command Platform (JBC-P) and new technologies, 2) control current Spider Anti-Personnel (AP) munitions and 3) demonstrate the initiation of legacy GOTS Anti-Vehicle (AV) (lethal) and AP (lethal and non-lethal) effects. All other M7 Spider Increment 1 components (i.e. Control Station Transceiver (CST), Munition Control Units (MCUs)) will remain as is to ensure backwards compatibility. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. The Spider system has been identified as a part of the Army Modernization Strategy efforts. The M7E1 program requirement was withdrawn and excess funding was returned to the Army. The program is currently executing an orderly close out per the approved termination plan that is scheduled to be completed Dec FY 2021. This item is Code A approved for service use.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	62	-	-	-	-	-	-	-
	Total Obligation Authority	6.200	-	-	-	-	-	-	-
ANG	Quantity	35	-	-	-	-	-	-	-
	Total Obligation Authority	4.730	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	97	-	-	-	-	-	-	-
	Total Obligation Authority	10.930	-	-	-	-	-	-	-

Justification:

B54020 has no FY2022 funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		P-1 Line Item Number / Title: 8558B54020 / Spider Family of Networked Munitions Incr
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

(B54020) In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.418	18.291	19.579	17.984	-	17.984	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.418	18.291	19.579	17.984	-	17.984	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.418	18.291	19.579	17.984	-	17.984	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Unified Command Suite (UCS) supports the Army's 2018 Mission Command Network Modernization Strategy Line of Effort (LOE) 4 - Command Post (LOE 4 addresses the operational requirement of Deployable, Integrated, and Mobile Command Post and integration of Knowledge Management)

Establishment of Weapons of Mass Destruction Civil Support Teams (WMD-CST)

- * 1999 - Title 10 USC 12310, established WMD-CSTs
- * 2003 - The National Defense Authorization Act (NDAA) of 2003 authorized the establishment of 55 WMD CSTs
- * 2006 - Public law 109-364 amended Title 10 USC 12310, directs WMD-CSTs to prepare for or respond to any event involving the following:
 - The use or threatened use of a WMD in the United States;
 - A terrorist attack, or threatened terrorist attack in the United States that results, or could result, in catastrophic loss of life or property;
 - The intentional or unintentional release of nuclear, biological, radiological, or toxic or poisonous chemical materials in the United States that results, or could result, in catastrophic loss of life or property;
 - A natural or man-made disaster in the United States that results, or could result, in catastrophic loss of life or property.
- * 2006 (August) - The Joint Requirements Oversight Council (JROC) approved the UCS Capability Production Document (CPD) as a Program of Record (PoR).
- * 2013 - The NDAA of 2013 expanded the number of WMD-CST's from 55 teams to 57 teams, based on the recommendation of the "Advisory Panel on Department of Defense Capabilities for Support of Civil Authorities After Certain Incidents" (Additional teams in Florida and New York were established).

The UCS is a fully integrated mobile communications platform that is self-sufficient and highly interoperable by integrating commercial off the shelf (COTS) and government off the shelf (GOTS) military communications hardware. UCS provides communications interoperability with Federal, State, Local and Military Emergency Response elements at incident scenes. UCS provides reach back capability which allows Incident Commanders the ability to assess an incident scene, advise responders, and facilitate access to Department of Defense information. UCS provides critical Key Performance Parameter directed reach back communications for Analytical Laboratory Systems (ALS) and other WMD CST systems.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
ANG Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications					P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	18.291	19.579	17.984	-	17.984	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	18.291	19.579	17.984	-	17.984	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B58601 / Unified Command Suite				- / 93.418	- / 18.291	- / 19.579	- / 17.984	- / -	- / 17.984
P-40	Total Gross/Weapon System Cost				- / 93.418	- / 18.291	- / 19.579	- / 17.984	- / -	- / 17.984

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base funding in the amount of \$17.984 million will modernize, upgrade, and procure components for the Unified Command Suite (UCS) for the National Guard Bureau Weapons of Mass Destruction Civil Support Teams (WMD-CST). FY2022 funding will allow for the continued progress of upgrading the network components, which is included in the Change Package VI Work Breakdown Structure (WBS). Additionally, FY2022 funding will be used to initiate efforts to the modernize radio network systems and cryptographic equipment, which are the work packages included in the Change Package VII WBS.

The network component upgrades consist of SIPR and NIPR routers, switches, modems, printers, middleware, and network management hardware and software. The radio network system modernization includes the radio interoperability and cross-banding capability currently housed by the ACU-1000, which is no longer manufactured and has minimal spares available. The cryptographic system modernization includes encryption devices for NIPR and SIPR network data to ensure continued compliance with cyber policies. Overall, these system modernization efforts are necessary to:

- * Prevent denied Authority to Operate or being quarantined on the DoD Information Network (DoDIN).
- * Address Manufacturer end of support of equipment that causes equipment to be incompatible with latest DoD vulnerability patch updates.
- * Ensure program complies with DoD orders and policies for end-to-end data encryption requirements.
- * Prevent loss of network connectivity and use of servers, including apps and data, breaking communication with C2 and critical reach back capabilities.
- * Prevent inability to transmit or receive classified information critical to national security/homeland security.
- * Prevent inability to promulgate COP data to JFHQ-ST, USNORTHCOM, and communicate with Incident Command.

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	93.418	18.291	19.579	17.984	-	17.984
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	93.418	18.291	19.579	17.984	-	17.984
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	93.418	18.291	19.579	17.984	-	17.984

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Program Office Support	-	-	3.174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	30.650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Equipment Training	-	-	0.512	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware	285.567	150	42.835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	77.171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	77.171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
Recurring Manufacturing - VTC / BGAN	21.609	64	1.383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Recurring Manufacturing - SATCOM / LMR's	231.658	38	8.803	112.000	55	6.160	-	-	-	-	-	-	-	-	-	-	-	-
Recurring Manufacturing - Server Modernization	-	-	-	61.000	40	2.440	-	-	-	-	-	-	-	-	-	-	-	-
Recurring Manufacturing - Network Components	-	-	-	-	-	-	63.000	57	3.591	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite
		Item Number / Title [DODIC]: B58601 / Unified Command Suite

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Recurring Manufacturing - Radio Interconnection	-	-	-	29.000	22	0.638	30.000	107	3.210	-	-	-	-	-	-	-	-	-
Change Package VII	-	-	-	-	-	-	-	-	-	32.710	156	5.103	-	-	-	32.710	156	5.103
<i>Subtotal: Recurring Cost</i>	-	-	10.186	-	-	9.238	-	-	6.801	-	-	5.103	-	-	-	-	-	5.103
Non Recurring Cost																		
Non-Recurring Manufacturing - VTC / BGAN	12.781	64	0.818	13.000	194	2.522	-	-	-	-	-	-	-	-	-	-	-	-
Non-Recurring Manufacturing - Secure Voice	-	-	-	-	-	-	6.000	64	0.384	-	-	-	-	-	-	-	-	-
Non-Recurring Manufacturing - ADVON Shelter	-	-	-	-	-	-	28.000	64	1.792	-	-	-	-	-	-	-	-	-
Non-Recurring Manufacturing - ADP Obsolescence Kit	-	-	-	-	-	-	8.000	129	1.032	-	-	-	-	-	-	-	-	-
Non-Recurring Manufacturing - Enterprise Server Obsolescence Kit	-	-	-	-	-	-	23.000	42	0.966	-	-	-	-	-	-	-	-	-
Change Package VI	-	-	-	-	-	-	-	-	-	62.730	74	4.642	-	-	-	62.730	74	4.642
<i>Subtotal: Non Recurring Cost</i>	-	-	0.818	-	-	2.522	-	-	4.174	-	-	4.642	-	-	-	-	-	4.642
<i>Subtotal: Hardware Cost</i>	-	-	11.004	-	-	11.760	-	-	10.975	-	-	9.745	-	-	-	-	-	9.745
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	1.576	-	-	2.092	-	-	3.268	-	-	3.441	-	-	-	-	-	3.441
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	1.576	-	-	2.092	-	-	3.268	-	-	3.441	-	-	-	-	-	3.441
Support - Government Furnished Materials Cost																		
Government Furnished Materials	3.797	64	0.243	-	-	0.125	-	-	0.164	-	-	0.161	-	-	-	-	-	0.161
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	0.243	-	-	0.125	-	-	0.164	-	-	0.161	-	-	-	-	-	0.161
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	0.312	-	-	0.364	-	-	0.515	-	-	0.507	-	-	-	-	-	0.507

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	0.312	-	-	0.364	-	-	0.515	-	-	0.507	-	-	-	-	-	0.507
Support - Program Management Cost																		
Government Management	-	-	2.513	-	-	2.096	-	-	1.620	-	-	1.177	-	-	-	-	-	1.177
<i>Subtotal: Support - Program Management Cost</i>	-	-	2.513	-	-	2.096	-	-	1.620	-	-	1.177	-	-	-	-	-	1.177
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.052	-	-	0.053	-	-	0.062	-	-	0.008	-	-	-	-	-	0.008
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.052	-	-	0.053	-	-	0.062	-	-	0.008	-	-	-	-	-	0.008
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	0.684	-	-	1.674	-	-	1.891	-	-	-	-	-	1.891
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	0.684	-	-	1.674	-	-	1.891	-	-	-	-	-	1.891
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	0.418	-	-	0.978	-	-	1.090	-	-	0.845	-	-	-	-	-	0.845
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	0.418	-	-	0.978	-	-	1.090	-	-	0.845	-	-	-	-	-	0.845
Support - Training Cost																		
Equipment	-	-	0.129	-	-	0.139	-	-	0.211	-	-	0.209	-	-	-	-	-	0.209
<i>Subtotal: Support - Training Cost</i>	-	-	0.129	-	-	0.139	-	-	0.211	-	-	0.209	-	-	-	-	-	0.209
Gross/Weapon System Cost	-	-	93.418	-	-	18.291	-	-	19.579	-	-	17.984	-	-	-	-	-	17.984

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	18.291	19.579	17.984	-	17.984
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	18.291	19.579	17.984	-	17.984

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,957	4,459	4,899	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	85.734	76.030	108.556	191.702	-	191.702	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	85.734	76.030	108.556	191.702	-	191.702	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	85.734	76.030	108.556	191.702	-	191.702	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	43.809	17.051	22.159	-	-	-	-	-	-	-	-	-

Description:

The COTS program funding line is directly aligned to the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

BU8100 COTS Communication Equipment (CE) is the Parent Line to Low Cost Tactical Radio Replacement (B08105), Tactical Communications Components (B08111), Communication Gateways (B98111), High Frequency (HF) Radios (B98120), and Small Unit Locator and Evader Locator Communications (B98121).

COTS CE procures non-developmental items (NDI) and services in support of the Army's Network Modernization Strategy by providing interoperability and continuity through the procurement of tactical communication enhancement equipment, ancillaries, and related services. Components supported under COTS CE include but are not limited to: HF radios, Link-16 radios, communication gateways, line-of-sight (LOS) radios, beyond line-of-sight (BLOS) radios and radio gateway tactical integration kits. These items will provide resilient software-defined communication systems and operational utility and adaptability through simplified and protected communications and are key enablers to the Integrated Tactical Network Capability Set (CS) fielding concept in support of the Army Network Modernization Strategy.

The Integrated Tactical Network (ITN) family of radios capability fills critical communications gaps and allows the Army to pivot strategically and adjust agilely to changes in combatant environments. ITN provides assured tactical network transport; reduced complexity; security requirements; reduced cost and SWaP for dismounted soldiers; Secure-but-Unclassified (SBU) network; expeditionary command posts not reliant upon mounted assets; and simplified and reduced NetOps toolset capability. ITN's acquisition approach is based upon the results from the Army approved Middle-Tier Acquisition (MTA) rapid prototyping ITN CS experimentation which informs procurement decisions. Approved critical components will transition into a traditional Joint Capabilities Integration and Development System (JCIDS) approved program of record or utilize the MTA rapid fielding acquisition pathway to execute.

Low Cost Tactical Radio Replacement (B08105) supports the replacement and modernization of legacy Single Channel Ground and Airborne Radio System (SINCGARS) to address emerging threats and meet National Security Agency (NSA)/Office of Secretary Defense mandated cryptographic modernization requirements. This Commercial off the Shelf (COTS) radio solution provides resilient and secured communications for Army ground forces to conduct Multi-Domain Operations (MDO) over extended mission ranges. Capabilities will provide reliable, secure, and easily maintained long distance, fixed, on the move, ground-to-air communications, and modernizes Communications Security (COMSEC).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Tactical Communications Components (B08111) provide for several communication components in support of the ITN which integrates the Army's current tactical applications, services and communications with commercial network components and transport capabilities to form a more flexible, resilient network environment for tactical warfighting with joint and coalition partners. Components include but is not limited to: Link 16, LOS, BLOS, and TSM capable radios. The current acquisition approach utilizes the MTA rapid fielding pathway to support capability set procurements and fielding.

Communication Gateways (B98111) provide critical voice and data communication bridging across multiple echelons. The small gateway is a rapidly deployable simultaneous 2-channel, Air/Ground, LOS and SATCOM system, the large gateway is a simultaneous 3-channel Air/Ground, LOS and SATCOM system, and radio gateways tactical integration kits for routing and switching between various waveforms. The communication gateways acquisition approach utilizes the MTA rapid fielding pathway for capability set procurements and fielding.

HF Radios (B98120) support the long distance, wide area voice and data communications for ground, air-to-ground, and fixed position mission command while at the halt or on the move. HF can augment or replace SATCOM in operational environments where SATCOM is degraded or denied. HF radios acquisition approach is based on a Class II Engineering Change Proposal (ECP) that will utilize existing COTS NDI radios to perform a technology refresh of the current HF Radio/Transmitter (R/T) to mitigate crypto-modernization and obsolescence issues.

Small Unit and Emergency Locator Communications (B98121) provides for several small unit communications devices, including the ITN family of radios. Components include but are not limited to: LOS, BLOS, and TSM capable radios. In addition, this line provides critical Security Force Assistance Brigade (SFAB) support and sustainment. The current acquisition approach utilizes the MTA rapid fielding pathway to support capability set procurements and fielding.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	4,459	4,899	-	-	-	-	-	-	-
	Total Obligation Authority	76.030	108.556	191.702	-	191.702	-	-	-	-
Total: Secondary Distribution	Quantity	4,459	4,899	-	-	-	-	-	-	-
	Total Obligation Authority	76.030	108.556	191.702	-	191.702	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications

P-1 Line Item Number / Title:
9164BU8100 / COTS Communications Equipment

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B08105 / Low Cost Tactical Radio Replacement (LCTRR)	P-5a, P-21			- / -	- / -	- / -	- / 51.632	- / -	- / 51.632
P-5	B08111 / TACTICAL COMMUNICATIONS COMPONENTS	P-5a, P-21			- / -	- / -	- / -	- / 31.819	- / -	- / 31.819
P-5	B98105 / COTS Communication Products with Accessories	P-5a			1,957 / 85.734	4,459 / 76.030	- / -	- / -	- / -	- / -
P-5	B98111 / COMMUNICATIONS GATEWAYS	P-5a, P-21			- / -	- / -	103 / 47.182	- / 40.039	- / -	- / 40.039
P-5	B98120 / HIGH FREQUENCY RADIOS	P-5a, P-21			- / -	- / -	391 / 15.040	- / 20.989	- / -	- / 20.989
P-5	B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS	P-5a, P-21			- / -	- / -	4,405 / 46.334	- / 47.223	- / -	- / 47.223
P-40	Total Gross/Weapon System Cost				1,957 / 85.734	4,459 / 76.030	4,899 / 108.556	- / 191.702	- / -	- / 191.702

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY2022 Base procurement dollars in the amount of \$191.702 million supports the procurement of equipment in support of Capability Set (CS) Brigade Combat Team (BCT) Fieldings, Multi-Functional Support Brigades (MFSB) and Echelons above Brigade (EAB).
 Low Cost Tactical Radio Replacement (B08105) FY 2022 Base procurement dollars in the amount of \$51.632 million supports the procurement of Low Cost Tactical Radio Replacement hardware, warranties, non-recurring integration, initial spares, ILS support and SEPM. Low Cost Tactical Radio Replacement (LCTRR) is a new start in FY2022.
 Tactical Communications Components (B08111) FY 2022 Base procurement dollars in the amount of \$31.819 million procures LOS and Link 16 Radios, software support, ancillaries, logistics, repairs, fielding, technical data and SEPM in support of the ITN CS21 and CS23 fielding. Tactical Communications Components is a new start in FY2022.
 COTS Communication Products with Accessories (B98105) has no funding request in FY22.
 Communication Gateways (B98111) FY 2022 Base procurement dollars in the amount of \$40.039 million procures ITN Gateways, ancillaries, software support, technical data, fielding and SEPM in support of the ITN CS21 and CS23 fielding.
 HF Radio (B98120) FY 2022 Base procurement dollars in the amount of \$20.989 million will support the procurement of HF radios, initial spares, data, fielding, and SEPM.
 Small Unit and Emergency Locator Communications (B98121) FY 2022 Base procurement dollars in the amount of \$47.223 million procures Line-of-Sight (LOS), Beyond Line-of-Sight (BLOS) and TSM capable radios, ancillaries, logistics, repairs, fielding, technical data, and SEPM in support of CS21 and CS23 fielding as well as SFAB logistics support.
 In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B08105 / Low Cost Tactical Radio Replacement (LCTRR)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	51.632	-	51.632
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	51.632	-	51.632
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	51.632	-	51.632

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Low Cost Tactical Radio Replacement (LCTRR) ^(†)	-	-	-	-	-	-	-	-	-	7.547	2,665	20.114	-	-	-	7.547	2,665	20.114
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	20.114	-	-	-	-	-	20.114
Non Recurring Cost																		
Warranties	-	-	-	-	-	-	-	-	-	-	-	2.038	-	-	-	-	-	2.038
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.038	-	-	-	-	-	2.038
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	22.152	-	-	-	-	-	22.152
Logistics Cost																		
Non Recurring Cost																		
NRE Integration	-	-	-	-	-	-	-	-	-	-	-	17.686	-	-	-	-	-	17.686
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	17.686	-	-	-	-	-	17.686
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	17.686	-	-	-	-	-	17.686
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	-	-	-	0.939	-	-	-	-	-	0.939
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.939	-	-	-	-	-	0.939

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
		Item Number / Title [DODIC]: B08105 / Low Cost Tactical Radio Replacement (LCTRR)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Logistics Cost																		
Integrated Logistics Support	-	-	-	-	-	-	-	-	-	-	-	0.403	-	-	-	-	-	0.403
<i>Subtotal: Support - Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.403	-	-	-	-	-	0.403
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	2.603	-	-	-	-	-	2.603
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.603	-	-	-	-	-	2.603
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	-	-	-	7.850	-	-	-	-	-	7.850
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	7.850	-	-	-	-	-	7.850
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	51.632	-	-	-	-	-	51.632

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	51.632	-	51.632
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	51.632	-	51.632

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment				Item Number / Title [DODIC]: B08105 / Low Cost Tactical Radio Replacement (LCTRR)					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Low Cost Tactical Radio Replacement (LCTRR) ^(†)		2022	TBD / TBD	C / FFP	ACC	Jun 2022	Nov 2022	2,665	7.547	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army													Date: May 2021																			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment													Item Number / Title [DODIC]: B08105 / Low Cost Tactical Radio Replacement (LCTRR)													

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Low Cost Tactical Radio Replacement (LCTRR)																																
1		2022	ARMY		2,665	0	2,665																									

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
		Item Number / Title [DODIC]: B08105 / Low Cost Tactical Radio Replacement (LCTRR)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - TBD	60	1,250	5,000	0	0	0	0	0	0	0	0	0

Remarks:
The first unit will be delivered November 2022 and production deliverables start February 2023.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B08111 / TACTICAL COMMUNICATIONS COMPONENTS

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	-	-	31.819	-	31.819
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	-	-	31.819	-	31.819
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				-	-	-	31.819	-	31.819
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
ITN Line of Sight Radios ^(†)	-	-	-	-	-	-	-	-	-	10.839	1,565	16.963	-	-	-	10.839	1,565	16.963
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	16.963	-	-	-	-	-	16.963
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	16.963	-	-	-	-	-	16.963
Software Cost																		
Recurring Cost																		
Enterprise Software Support	-	-	-	-	-	-	-	-	-	-	-	6.056	-	-	-	-	-	6.056
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.056	-	-	-	-	-	6.056
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.056	-	-	-	-	-	6.056
Logistics Cost																		
Recurring Cost																		
Logistics Sustainment	-	-	-	-	-	-	-	-	-	-	-	1.929	-	-	-	-	-	1.929
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.929	-	-	-	-	-	1.929
Non Recurring Cost																		
Integration	-	-	-	-	-	-	-	-	-	-	-	3.180	-	-	-	-	-	3.180
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.180	-	-	-	-	-	3.180
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.109	-	-	-	-	-	5.109
Support - Data Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B08111 / TACTICAL COMMUNICATIONS COMPONENTS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support Data Data	-	-	-	-	-	-	-	-	-	-	-	0.148	-	-	-	-	-	0.148
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.148	-	-	-	-	-	0.148
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	2.637	-	-	-	-	-	2.637
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.637	-	-	-	-	-	2.637
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	0.906	-	-	-	-	-	0.906
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.906	-	-	-	-	-	0.906
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	31.819	-	-	-	-	-	31.819

Remarks:

Tactical Communications Components (B08111) provide for several communication components in support of the ITN which integrates the Army's current tactical applications, services and communications with commercial network components and transport capabilities to form a more flexible, resilient network environment for tactical warfighting with joint and coalition partners. Components include but are not limited to: Link 16, line-of-sight (LOS), beyond-line-of sight (BLOS), and TSM capable radios. The current acquisition approach utilizes the MTA rapid fielding pathway to support capability set procurements and fielding.

FY 2022 Base procurement dollars in the amount of \$31.819 million procures LOS and Link 16 Radios, software support, ancillaries, logistics, repairs, ABCT integration, fielding, technical data and SEPM in support of the ITN CS21 and CS23 fielding.

Notes:

FY22 Software, Enterprise Software Support includes TRAX Software Support costs for the Tactical Servers only; The TRAX software costs for the Small Gateways are captured within Communications Gateways (B98111).

FY22 Nonrecurring includes the initial estimated costs for the ABCT Integration. Total FY22 ABCT Integration Costs are split amongst the Tactical Communications Components (B08111) and Survivor Emergency Unit Locator (B98121).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	31.819	-	31.819
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	31.819	-	31.819

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B08111 / TACTICAL COMMUNICATIONS COMPONENTS
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment				Item Number / Title [DODIC]: B08111 / TACTICAL COMMUNICATIONS COMPONENTS					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
ITN Line of Sight Radios ^(†)		2022	TBD / TBD	C / FFP	ACC-APG	Apr 2022	Jul 2022	1,565	10.839	N		

^(†) indicates the presence of a P-21

Remarks:
Procures LOS Radios in support of the ITN CS21 and CS23 fielding.

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment										Item Number / Title [DODIC]: B08111 / TACTICAL COMMUNICATIONS COMPONENTS									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

ITN Line of Sight Radios																													
1	2022	ARMY		1,565	0	1,565																							0

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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
Item Number / Title [DODIC]: B08111 / TACTICAL COMMUNICATIONS COMPONENTS		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	10	10	250	0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
---	------------------------

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	1,957	4,459	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	85.734	76.030	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	85.734	76.030	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	85.734	76.030	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	43.809	17.051	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
High Frequency Radios ^(†)	29.030	1,511	43.865	27.234	556	15.142	-	-	-	-	-	-	-	-	-	-	-	-
ITN System of Radios ^(†)	-	-	-	15.985	842	13.459	-	-	-	-	-	-	-	-	-	-	-	-
Voice/Data Gateways ^(†)	-	-	-	155.545	44	6.844	-	-	-	-	-	-	-	-	-	-	-	-
Ancillaries, Enhancements, and Related Services	-	-	-	-	-	10.352	-	-	-	-	-	-	-	-	-	-	-	-
High Frequency Radios - OCONUS European Response Initiative ^(†)	36.143	446	16.120	26.490	559	14.808	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	59.985	-	-	60.605	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	59.985	-	-	60.605	-	-	-	-	-	-	-	-	-	-	-	-
Logistics Cost																		
Recurring Cost																		
Sustainment Logistics	-	-	0.385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety and Platform Integration	-	-	8.761	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	9.146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Non Recurring Cost																		
Support Equipment - OCONUS European Response Initiative	-	-	1.031	-	-	2.990	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	1.031	-	-	2.990	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics Cost</i>	-	-	10.177	-	-	2.990	-	-	-	-	-	-	-	-	-	-	-	-
Support - Data Cost																		
Support Data Data	-	-	1.123	-	-	0.230	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	1.123	-	-	0.230	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	3.996	-	-	3.946	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	3.996	-	-	3.946	-	-	-	-	-	-	-	-	-	-	-	-
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	5.669	-	-	5.788	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	5.669	-	-	5.788	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	3.449	-	-	2.471	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	3.449	-	-	2.471	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	1.336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	1.336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	43.809	1,957	85.734	17.051	4,459	76.030	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:
 ITN System of Radios - The Integrated Tactical Network (ITN) family of radios capability of the ITN fills critical communications gaps and allows the Army to pivot strategically and adjust agilely to changes in combatant environments. It includes but is not limited to: Link-16 radios, line-of-sight (LOS), beyond-line-of sight (BLOS) TSM capable radios, and radio gateways tactical integration kits for routing and switching between various waveforms.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

HF Radios support the long distance, wide area voice and data communications for ground, air-to-ground, and fixed position mission command while at the halt or on the move. HF can augment or replace SATCOM in operational environments where SATCOM is degraded or denied. HF radios acquisition approach is based on a Class II Engineering Change Proposal (ECP) that will utilize existing Commercial-Off-The-Shelf (COTS)/Non-Developmental Item (NDI) radios to perform a technology refresh of the current HF Radio/Transmitter (R/T) to mitigate crypto-modernization and obsolescence issues.

FY 2019 OCO procurement dollars in the amount of \$22.000 million procures HF radios, spares, support equipment, fielding and SEPM in support the HF Modernization ECP.

FY 2019 Base procurement dollars in the amount of \$63.724 million procures HF radios, spares, fielding and SEPM in support the HF Modernization ECP as well as logistics, fielding, integration and SEPM in support of Security Force Assistance Brigades (SFAB).

FY 2020 OCO procurement dollars in the amount of \$20.400 million procures HF radios, spares, support equipment, fielding and SEPM in support the HF Modernization ECP.

FY 2020 Base procurement dollars in the amount of \$55.630 million procures HF, LOS, BLOS and TSM capable radios, radio gateways tactical integration kits, spares, ancillaries, logistics, repairs, fielding, technical data and SEPM in support of the ITN CS21 fielding and the HF Modernization ECP.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	4,459	-	-	-	-
	Total Obligation Authority	76.030	-	-	-	-
Total: Secondary Distribution	Quantity	4,459	-	-	-	-
	Total Obligation Authority	76.030	-	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment					Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
High Frequency Radios		2019	High Frequency Radios - L3Harris / Rochester, NY	C / FFP	ACC-APG, Aberdeen, MD	Aug 2019	Feb 2020	1,511	31.138	N		
High Frequency Radios		2020	High Frequency Radios - L3Harris / Rochester, NY	C / FFP	SPAWARSYSCEN, San Diego CA	Mar 2020	Sep 2020	556	27.234	N		
ITN System of Radios		2020	Trellisware / San Diego, CA	C / FFP	DLA, Philadelphia, PA	Aug 2020	Oct 2020	842	15.985	Y		
Voice/Data Gateways		2020	KLAS - Voice/Data Gateways / Herndon, VA	C / FFP	DLA, Philadelphia, PA	Aug 2020	Oct 2020	44	155.545	Y		
High Frequency Radios - OCONUS European Response Initiative	✓	2019	High Frequency Radios - L3Harris / Rochester, NY	C / FFP	ACC-APG, Aberdeen, MD	Aug 2019	Feb 2020	446	38.780	Y		

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Exhibit P-5, Cost Analysis: PB 2022 Army													Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment						Item Number / Title [DODIC]: B98111 / COMMUNICATIONS GATEWAYS						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total				
Procurement Quantity (Units in Each)				-		-		103		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		47.182		40.039		-		40.039				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		47.182		40.039		-		40.039				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		47.182		40.039		-		40.039				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		458.078		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Small ^(†)	-	-	-	-	-	-	-	-	-	377.771	35	13.222	-	-	-	377.771	35	13.222
Radio Gateways Tactical Integration Kits ^(†)	-	-	-	-	-	-	83.265	151	12.573	128.721	147	18.922	-	-	-	128.721	147	18.922
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	12.573	-	-	32.144	-	-	-	-	-	32.144
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	12.573	-	-	32.144	-	-	-	-	-	32.144
Software Cost																		
Recurring Cost																		
Software Support	-	-	-	-	-	-	-	-	2.148	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.148	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Software Enterprise Licenses	-	-	-	-	-	-	-	-	14.400	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	14.400	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	16.548	-	-	-	-	-	-	-	-	-
Logistics Cost																		
Recurring Cost																		
Out of Warranty Repairs	-	-	-	-	-	-	-	-	0.042	-	-	0.039	-	-	-	-	-	0.039

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98111 / COMMUNICATIONS GATEWAYS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.042	-	-	0.039	-	-	-	-	-	0.039
Non Recurring Cost																		
Integration	-	-	-	-	-	-	-	-	12.043	-	-	-	-	-	-	-	-	-
Logistics Sustainment ECPs	-	-	-	-	-	-	-	-	-	-	-	0.453	-	-	-	-	-	0.453
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	12.043	-	-	0.453	-	-	-	-	-	0.453
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	12.085	-	-	0.492	-	-	-	-	-	0.492
Support - Data Cost																		
Technical Publications	-	-	-	-	-	-	-	-	-	-	-	0.017	-	-	-	-	-	0.017
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.017	-	-	-	-	-	0.017
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	3.601	-	-	4.585	-	-	-	-	-	4.585
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	3.601	-	-	4.585	-	-	-	-	-	4.585
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	2.375	-	-	2.801	-	-	-	-	-	2.801
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	2.375	-	-	2.801	-	-	-	-	-	2.801
Gross/Weapon System Cost	-	-	-	-	-	-	458.078	103	47.182	-	-	40.039	-	-	-	-	-	40.039

Remarks:
 Communication Gateways (B98111) provide critical voice and data communication bridging across multiple echelons. The small gateway is a rapidly deployable simultaneous 2-channel, Air/Ground, LOS and SATCOM system, the large gateway is a simultaneous 3-channel Air/Ground, LOS and SATCOM system, and radio gateways tactical integration kits for routing and switching between various waveforms. The communication gateways acquisition approach utilizes the MTA rapid fielding pathway to support capability set procurements and fielding.

FY 2022 Base procurement dollars in the amount of \$40.039 million procures communication gateways, ancillaries, software support, software licenses, technical data, fielding and SEPM in support of the ITN CS21 and CS23 fielding.

Notes:
 FY21 Nonrecurring includes the initial estimated costs for the CS21 SBCT Integration and costs are split amongst the Communication Gateways (B98111) and Survivor Unit Emergency Locator (B98121). There are no costs shown in FY22 as the ABCT Integration costs will be split amongst the Tactical Communications Components (B08111) and Survivor Emergency Unit Locator (B98121).

FY21 Nonrecurring Software Enterprise Licenses includes the \$14.4M plus up to procure the TRAX Software Enterprise Licenses in support of ITN.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98111 / COMMUNICATIONS GATEWAYS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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FY22 Software costs for the Gateways are captured under the FY21 TRAX Software Enterprise Licenses. The costs for the Tactical Servers (or TSI's) TRAX Enterprise software Support are captured within the Tactical Communications Components (B08111).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	103	-	-	-
	Total Obligation Authority	-	47.182	40.039	-	40.039
Total: Secondary Distribution	Quantity	-	103	-	-	-
	Total Obligation Authority	-	47.182	40.039	-	40.039

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment				Item Number / Title [DODIC]: B98111 / COMMUNICATIONS GATEWAYS					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Small ^(†)		2022	TBD / TBD	C / FFP	Aberdeen Proving Ground, MD	Apr 2022	Oct 2022	35	377.771	N	Oct 2022	Dec 2021
Radio Gateways Tactical Integration Kits ^(†)		2022	TBD / TBD	C / FFP	Aberdeen Proving Ground, MD	Apr 2022	Oct 2022	147	128.721	N	Sep 2021	Dec 2021

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army																								Date: May 2021							
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment										Item Number / Title [DODIC]: B98111 / COMMUNICATIONS GATEWAYS											
Cost Elements (Units in Each)						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Small																															
	1	2022	ARMY	35	0	35																							0		
Radio Gateways Tactical Integration Kits																															
	2	2022	ARMY	147	0	147																							0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
		Item Number / Title [DODIC]: B98111 / COMMUNICATIONS GATEWAYS

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - TBD	2	2	22	0	0	0	0	0	0	0	0	0
2	TBD - TBD	2	2	22	0	0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army						Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment			Item Number / Title [DODIC]: B98120 / HIGH FREQUENCY RADIOS		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)			-	-	391	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	-	15.040	20.989	-	20.989
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	-	15.040	20.989	-	20.989
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			-	-	15.040	20.989	-	20.989
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	38.465	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
High Frequency Radios ^(†)	-	-	-	-	-	-	30.143	391	11.786	28.586	585	16.723	-	-	-	28.586	585	16.723
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	11.786	-	-	16.723	-	-	-	-	-	16.723
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	11.786	-	-	16.723	-	-	-	-	-	16.723
Support - Data Cost																		
Support Data Data	-	-	-	-	-	-	-	-	-	-	-	0.204	-	-	-	-	-	0.204
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.204	-	-	-	-	-	0.204
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	0.988	-	-	0.897	-	-	-	-	-	0.897
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	0.988	-	-	0.897	-	-	-	-	-	0.897
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	1.128	-	-	1.557	-	-	-	-	-	1.557
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	1.128	-	-	1.557	-	-	-	-	-	1.557
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	1.138	-	-	1.608	-	-	-	-	-	1.608
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	1.138	-	-	1.608	-	-	-	-	-	1.608

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98120 / HIGH FREQUENCY RADIOS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	-	38.465	391	15.040	-	-	20.989	-	-	-	-	-	20.989

Remarks:

HF Radios (B98120) support the long distance, wide area voice and data communications for ground, air-to-ground, and fixed position mission command while at the halt or on the move. HF can augment or replace SATCOM in operational environments where SATCOM is degraded or denied. HF radios acquisition approach is based on a Class II Engineering Change Proposal (ECP) that will utilize existing Commercial-Off-The-Shelf (COTS)/Non-Developmental Item (NDI) radios to perform a technology refresh of the current HF Radio/Transmitter (R/T) to mitigate crypto-modernization and obsolescence issues.

FY 2022 Base dollars in the amount of \$20.989 million will support the procurement of HF radios, initial spares, data fielding, and SEPM.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	391	-	-	-
	Total Obligation Authority	-	15.040	20.989	-	20.989
Total: Secondary Distribution	Quantity	-	391	-	-	-
	Total Obligation Authority	-	15.040	20.989	-	20.989

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98120 / HIGH FREQUENCY RADIOS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
High Frequency Radios ^(†)		2021	L3 HARRIS / Rochester, NY	C / FFP	Rochester, NY	Mar 2021	Aug 2021	391	30.143	Y		
High Frequency Radios ^(†)		2022	L3 HARRIS / Rochester, NY	C / FFP	Rochester, NY	Mar 2022	Aug 2022	585	28.586	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98120 / HIGH FREQUENCY RADIOS
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
High Frequency Radios																															
	1	2021	ARMY	391	391	0																							0		
	1	2022	ARMY	585	140	445	145	150	150																				0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32				P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment				Item Number / Title [DODIC]: B98120 / HIGH FREQUENCY RADIOS				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	L3 HARRIS - Rochester, NY	12	250	3,000	0	0	6	6	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	4,405	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	46.334	47.223	-	47.223
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	46.334	47.223	-	47.223
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	46.334	47.223	-	47.223

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	10.519	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
ITN Systems of Radios ^(†)	-	-	-	-	-	-	4.134	7,839	32.409	4.217	7,833	33.031	-	-	-	4.217	7,833	33.031
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	32.409	-	-	33.031	-	-	-	-	-	33.031
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	32.409	-	-	33.031	-	-	-	-	-	33.031
Logistics Cost																		
Recurring Cost																		
Logistics Sustainment	-	-	-	-	-	-	-	-	-	-	-	0.640	-	-	-	-	-	0.640
Out of Warranty Repairs	-	-	-	-	-	-	-	-	-	-	-	0.066	-	-	-	-	-	0.066
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.706	-	-	-	-	-	0.706
Non Recurring Cost																		
Integration	-	-	-	-	-	-	-	-	3.861	-	-	3.898	-	-	-	-	-	3.898
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	3.861	-	-	3.898	-	-	-	-	-	3.898
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	3.861	-	-	4.604	-	-	-	-	-	4.604
Support - Data Cost																		
Technical Publications	-	-	-	-	-	-	-	-	-	-	-	0.658	-	-	-	-	-	0.658
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.658	-	-	-	-	-	0.658

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	7.420	-	-	6.865	-	-	-	-	-	6.865
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	7.420	-	-	6.865	-	-	-	-	-	6.865
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	2.647	-	-	2.064	-	-	-	-	-	2.064
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	2.647	-	-	2.064	-	-	-	-	-	2.064
Gross/Weapon System Cost	-	-	-	-	-	-	10.519	4,405	46.334	-	-	47.223	-	-	-	-	-	47.223

Remarks:

Small Unit and Emergency Locator Communications (B98121) provides for several small unit communications devices, including the ITN family of radios. Components include but are not limited to: line-of-sight (LOS), beyond-line-of sight (BLOS), and TSM capable radios. In addition, this line provides critical Security Force Assistance Brigade (SFAB) support and sustainment. The current acquisition approach utilizes the MTA rapid fielding pathway to support capability set procurements and fielding.

FY 2022 Base procurement dollars in the amount of \$47.223 million procures Line-of-Sight (LOS), Beyond Line-of-Sight (BLOS) and TSM capable radios, ancillaries, logistics, repairs, fielding, technical data, and SEPM in support of CS21 and CS23 fielding as well as SFAB logistics support.

Notes:

FY21 Nonrecurring includes the initial estimated costs for the CS21 SBCT Integration. FY21 CS21 SBCT Integration costs are split amongst the Communication Gateways (B98111) and Survivor Unit Emergency Locator (B98121).

FY22 Nonrecurring includes initial estimated ABCT Integration costs. Total FY22 ABCT Integration Costs are split amongst the Tactical Communications Components (B08111) and Survivor Emergency Unit Locator (B98121).

FY22 Fielding line decreases substantially due to FY21 included \$9.9M costs associated with the SFAB Fielding/Sustainment. In FY22 those costs decrease to an estimated \$1M. The delta FY22 Fielding costs are associated with the CS21 equipment procured in FY21.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	4,405	-	-	-
	Total Obligation Authority	-	46.334	47.223	-	47.223
Total:	Quantity	-	4,405	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	-	46.334	47.223	-	47.223

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment				Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
ITN Systems of Radios ^(†)		2021	TBD / TBD	C / Various	Various	Apr 2021	Oct 2021	7,839	4.134	N		Dec 2020
ITN Systems of Radios ^(†)		2022	TBD / TBD	C / Various	Various	Apr 2022	Oct 2022	7,833	4.217	N		Dec 2021

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS

O C O		M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Fiscal Year 2021														Fiscal Year 2022										B A L A N C E						
								Calendar Year 2021														Calendar Year 2022																
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		O	N	D	J	F	M
ITN Systems of Radios																																						
1	2021	ARMY	7,839	0	7,839																																4,839	
1	2022	ARMY	7,833	0	7,833																																	7,833

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment										Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023											Fiscal Year 2024											B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023											Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G
ITN Systems of Radios																														
	1	2021	ARMY	7,839	3,000	4,839	250	250	250	250	250	155																	3,434	
	1	2022	ARMY	7,833	0	7,833	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	1,833	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment										Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
ITN Systems of Radios																															
	1	2021	ARMY	7,839	4,405	3,434																							3,434		
	1	2022	ARMY	7,833	6,000	1,833	250	250	250	250	250	250	247																86		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
		Item Number / Title [DODIC]: B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - TBD	10	10	250	0	0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	3,743	3,457	1,762	361	-	361	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	579.068	19.221	19.570	15.957	-	15.957	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	579.068	19.221	19.570	15.957	-	15.957	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	579.068	19.221	19.570	15.957	-	15.957	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	154.707	5.560	11.107	44.202	-	44.202	-	-	-	-	-	-

Description:

The Medical Communications for Combat Casualty Care (MC4) system interfaces Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The system captures and provides data for future medical care and medical record retention for all Service members. The MC4 system fulfills the requirements highlighted in United States Code: Title 10, Subtitle A, Part II, Chapter 55, Section 1074f, mandating the proper documentation of deployed Service members' medical treatment to include associated medical surveillance, enabling each soldier to have a comprehensive, life-long medical record of all illnesses and injuries. The collection and analysis of medical data provided by the MC4 system provides and enhances medical situational awareness for mission commanders. The MC4 program is currently in full fielding of integrated Information Management/Information Technology (IM/IT) equipment together with current electronic health record software. The MC4 system is comprised of seven subsystem Line Item Numbers (LINs) and is fielded to all Army units with medical assets. The mix of LINs fielded to any unit is directly related to the unit's medical function and will differ dependent on the type of unit. The system is fielded and trained to units as they prepare for deployment or other priority missions. The medical events captured by the MC4 system will provide the Soldiers' electronic health record as well as data to databases and systems that enable commanders to: identify population health trends and outbreaks; reallocate human and materiel resources based on needs; determine if locations are the source of illnesses or injuries; and make better tactical and medical decisions that impact the mission and Soldiers' health.

In prior years, MC4 has procured and fielded equipment aligned with the incremental development of the jointly developed Theater Medical Information Program-Joint (TMIP-J) electronic health record software. As software increments of the TMIP-J version of electronic health record capability have evolved to a final objective state (available in FY18), MC4 hardware has been replaced and upgraded to support the capability provided by the upgraded software increments and releases. New hardware will be fielded to deploying forces, as required, to maintain the electronic health record capability.

Note: Unit cost depends on the particular equipment LIN that is procured. The program procures seven (7) LINs with significant range in unit cost, resulting in differing unit cost year over year, depending on the quantity of each LIN procured. All MC4 equipment is COTS procured from the Army Computer Hardware Enterprise Software and Solutions (CHESS), the Army's designated Primary Source for commercial IT.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	2,424	1,392	297	-	297	-	-	-	-
Total Obligation Authority	11.488	15.721	13.492	-	13.492	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
ANG	Quantity	526	205	35	-	35	-	-	-	-
	Total Obligation Authority	4.219	2.124	1.361	-	1.361	-	-	-	-
AR	Quantity	507	165	29	-	29	-	-	-	-
	Total Obligation Authority	3.514	1.725	1.104	-	1.104	-	-	-	-
Total:	Quantity	3,457	1,762	361	-	361	-	-	-	-
Secondary Distribution	Total Obligation Authority	19.221	19.570	15.957	-	15.957	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 32: Comm - Combat Communications

P-1 Line Item Number / Title:
 9885MA8000 / Family of Med Comm for Combat Casualty Care

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA8046 / Medical Comm For CBT Casualty Care (MC4)	P-5a			3,743 / 579.068	3,457 / 19.221	1,762 / 19.570	361 / 15.957	- / -	361 / 15.957
P-40	Total Gross/Weapon System Cost				3,743 / 579.068	3,457 / 19.221	1,762 / 19.570	361 / 15.957	- / -	361 / 15.957

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY2022 Base Procurement dollars in the amount of \$15.957 million consist of Base (\$10.784 million), Base Enduring European Deterrence Initiative (BEDI) (\$3.916 million), and Base Direct OCO Operations Freedom Sentinel (BBFS) (\$1.257 million)

FY 2022 Base procurement dollars in the amount of \$10.784 million procures 294 end components of the MC4 system for upgraded systems and new equipment fielding and provides new equipment training (NET) as needed for 4 Active Brigades and Regiments and 3 National Guard Brigades [*see breakout below]. Funding also provides contracted support to the program office management and supports production engineering, cyber security compliance, hardware procurement, fielding and new equipment training for new systems and capability. New hardware will be fielded to all deploying forces with mission requirements, to maintain the electronic health record capability.

FY 2022 Base procurement dollars of \$3.916 million is attributable to Enduring Base European Deterrence Initiative (BEDI) and will support equipment requirements, fielding and training as needed to units assigned or deployed to Europe in support of the Army mission, to include major training exercises in FY22. This requirement supports Enduring Requirement for Operation European Deterrence Initiative (EDI).

FY 2022 BBFS procurement dollars in the amount of \$1.257 million will procure end components of the MC4 system for upgraded equipment/systems reset from battle loss for Direct War Costs in support of Operation Freedom Sentinel (OFS). Units supported include 63 Army medical units across remaining Forward Operating Bases in Afghanistan, to include one Army medical hospital.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (NDAA)(P.L. 110-181) this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

*4 Active Brigades (1 Armored Brigade Combat Team, 1 Airborne Brigade Combat Team, 1 Sustainment Brigade, 1 Combat Aviation Brigade);
 1 National Guard Brigades (1 Armored Brigade Combat Team, 1 Infantry Brigade Combat Team, 1 Stryker Brigade Combat Team)

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care	Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	3,743	3,457	1,762	361	-	361
Gross/Weapon System Cost (\$ in Millions)	579.068	19.221	19.570	15.957	-	15.957
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	579.068	19.221	19.570	15.957	-	15.957
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	579.068	19.221	19.570	15.957	-	15.957

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	154.707	5.560	11.107	44.202	-	44.202

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
PMO Fielding Management	5,068.667	12	60.824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMO Management Support ^(†)	1,405.538	13	18.272	1,230.000	1	1.230	1,100.000	1	1.100	800.000	1	0.800	-	-	-	800.000	1	0.800
Production Engineering ^(†)	4,685.538	13	60.912	3,509.000	1	3.509	3,721.000	1	3.721	4,412.000	1	4.412	-	-	-	4,412.000	1	4.412
Product Office and Facility Support Administrative ^(†)	-	-	-	1,500.000	1	1.500	-	-	1.611	1,728.000	1	1.728	-	-	-	1,728.000	1	1.728
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>140.008</i>	<i>-</i>	<i>-</i>	<i>6.239</i>	<i>-</i>	<i>-</i>	<i>6.432</i>	<i>-</i>	<i>-</i>	<i>6.940</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>6.940</i>
Subtotal: Flyaway Cost	-	-	140.008	-	-	6.239	-	-	6.432	-	-	6.940	-	-	-	-	-	6.940
Hardware Cost																		
Recurring Cost																		
Medical Information Systems Equipment ^(†)	4.439	75,898	336.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C27503 AN/TYQ 105 ^(†)	-	-	-	1.260	900	1.134	1.000	1,400	1.400	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment	1.800	825	1.485	2.369	1,272	3.014	1.702	1,634	2.781	1.718	1,104	1.897	-	-	-	1.718	1,104	1.897

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care						Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
LIN C18345 AN/TYQ 106v1 ^(†)																		
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v1 ^(†)	2.945	487	1.434	3.522	726	2.557	2.070	828	1.714	2.008	528	1.060	-	-	-	2.008	528	1.060
Medical Information Systems Equipment LIN C18209 AN/TYQ 107v2 ^(†)	2.648	125	0.331	2.608	158	0.412	1.875	257	0.482	1.608	79	0.127	-	-	-	1.608	79	0.127
Medical Information Systems Equipment LIN C41358 AN/TYQ 108v1 ^(†)	40.080	25	1.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C27571 AN/TYQ 108v2 ^(†)	43.440	25	1.086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C27639 AN/TYQ 108v3 (Small) ^(†)	4.636	110	0.510	3.070	129	0.396	2.392	209	0.500	2.476	231	0.572	-	-	-	2.476	231	0.572
<i>Subtotal: Recurring Cost</i>	-	-	342.724	-	-	7.513	-	-	6.877	-	-	3.656	-	-	-	-	-	3.656
<i>Subtotal: Hardware Cost</i>	-	-	342.724	-	-	7.513	-	-	6.877	-	-	3.656	-	-	-	-	-	3.656
Package Fielding Cost																		
Recurring Cost																		
Field equipment / conduct New Equip Train ^(†)	7,407.769	13	96.301	5,469.000	1	5.469	6,260.000	1	6.260	5,360.000	1	5.360	-	-	-	5,360.000	1	5.360
<i>Subtotal: Recurring Cost</i>	-	-	96.301	-	-	5.469	-	-	6.260	-	-	5.360	-	-	-	-	-	5.360
<i>Subtotal: Package Fielding Cost</i>	-	-	96.301	-	-	5.469	-	-	6.260	-	-	5.360	-	-	-	-	-	5.360
Gross/Weapon System Cost	154.707	3,743	579.068	5.560	3,457	19.221	11.107	1,762	19.570	44.202	361	15.957	-	-	-	44.202	361	15.957

Remarks:

- 1) Cost element breakout -
 - a) Flyaway recurring PMO Fielding Management FY18 and Prior included program Government Civilians. In FY19, this funding requirement moved to OMA APE 435107000
 - b) Flyaway recurring PMO Management Support includes contractor program management support and program office costs

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care	Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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c) Flyaway recurring Production Engineering is contractor effort to produce a fieldable product, to include cybersecurity compliance, engineering changes, hardware evaluations, and other system engineering

d) Hardware recurring Medical Information Systems Equipment FY18 and Prior included a quantity and cost summation of the 7 equipment Line Item Numbers (LINs) associated with the MC4 Program. From FY19 forward, hardware quantity and cost is shown at the individual LIN level vice the aggregated level. Quantities are estimated to support projected Army unit mission Modified Table Of Equipment (MTOE) requirements.

e) Package Fielding Recurring includes contractor effort to field the 7 LINs and provide new equipment training to units with missions requiring the MC4 system to electronically capture health records for deployed Soldiers.

Note: Unit cost depends on the particular equipment LIN that is procured. The program procures seven (7) LINs with significant range in unit cost, resulting in differing unit cost year over year, depending on the quantity of each LIN procured. All MC4 equipment is COTS procured from the Army Computer Hardware Enterprise Software and Solutions (CHESS), the Army's designated Primary Source for commercial IT.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	2,424	1,392	297	-	297
	Total Obligation Authority	11.488	15.721	13.492	-	13.492
ANG	Quantity	526	205	35	-	35
	Total Obligation Authority	4.219	2.124	1.361	-	1.361
AR	Quantity	507	165	29	-	29
	Total Obligation Authority	3.514	1.725	1.104	-	1.104
Total:	Quantity	3,457	1,762	361	-	361
Secondary Distribution	Total Obligation Authority	19.221	19.570	15.957	-	15.957

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care					Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
PMO Management Support		2020	CACI / Reston, VA	C / CPFF	ACC-RI	Dec 2019	Jan 2020	1	1,230.000	N		
PMO Management Support		2021	TBS / TBS	C / FP	ACC-RI	Dec 2020	Jan 2021	1	1,100.000	N		May 2020
PMO Management Support		2022	TBS / TBS	Option / FP	GSA	Dec 2021	Jan 2022	1	800.000	N		
Production Engineering		2020	CACI / Reston, VA	C / FP	GSA	Dec 2019	Jan 2020	1	3,509.000	N		
Production Engineering		2021	TBS / TBS	C / FP	GSA	Dec 2020	Jan 2021	1	3,721.000	N		May 2020
Production Engineering		2022	TBS / TBS	Option / CPFF	GSA	Dec 2021	Jan 2022	1	4,412.000	N		
Product Office and Facility Support Administrative		2022	VAR / VAR	C / FP	Various	Oct 2021	Oct 2022	1	1,728.000	N		
Medical Information Systems Equipment		2017	VAR / VAR	C / FP	ACC-RI	Jun 2017	Aug 2017	3,011	0.770	N	Apr 2017	
Medical Information Systems Equipment		2018	VAR / VAR	C / FP	ACC-RI	Feb 2018	Apr 2018	121	2.107	N	Dec 2017	Jan 2018
Medical Information Systems Equipment LIN C27503 AN/TYQ 105		2020	Samsung / San Jose, CA	C / FP	ACC	Jan 2020	Apr 2020	900	1.260	Y		
Medical Information Systems Equipment LIN C27503 AN/TYQ 105		2021	Samsung / San Jose, CA	C / FP	ACC	Jan 2021	Apr 2021	1,400	1.000	Y		
Medical Information Systems Equipment LIN C27503 AN/TYQ 105		2022	Samsung / San Jose, CA	C / FP	ACC	Jan 2022	Apr 2022	0	0.000	Y		
Medical Information Systems Equipment LIN C27503 AN/TYQ 105	✓	2022	Samsung / San Jose, CA	C / FP	ACC	Jan 2022	Apr 2022	0	0.000	Y		
Medical Information Systems Equipment LIN C18345 AN/TYQ 106v1		2020	TBS / TBS	C / FP	ACC-RI	Jan 2020	Apr 2020	1,272	2.369	N		Nov 2019
Medical Information Systems Equipment LIN C18345 AN/TYQ 106v1		2021	TBS / TBS	C / FP	ACC-RI	Jan 2021	Apr 2021	1,634	1.702	N		Nov 2020
Medical Information Systems Equipment LIN C18345 AN/TYQ 106v1		2022	TBS / TBS	C / FP	ACC-RI	Jan 2022	Apr 2022	1,104	1.718	N	Sep 2021	Oct 2021
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v1		2020	TBS / TBS	C / FP	ACC-RI	Jan 2020	Apr 2020	726	3.522	N		Nov 2019
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v1		2021	TBS / TBS	C / FP	ACC-RI	Jan 2021	Apr 2021	828	2.070	N		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care					Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v1		2022	TBS / TBS	C / FP	ACC-RI	Jan 2022	Apr 2022	528	2.008	N		
Medical Information Systems Equipment LIN C18209 AN/TYQ 107v2		2020	TBS / TBS	C / FP	ACC-RI	Jan 2020	Apr 2020	158	2.608	N		Nov 2019
Medical Information Systems Equipment LIN C18209 AN/TYQ 107v2		2021	TBS / TBS	C / FP	ACC-RI	Jan 2021	Apr 2021	257	1.875	N		Nov 2020
Medical Information Systems Equipment LIN C18209 AN/TYQ 107v2		2022	TBS / TBS	C / FP	ACC-RI	Jan 2022	Apr 2022	79	1.608	N		
Medical Information Systems Equipment LIN C41358 AN/TYQ 108v1		2019	Hewlett Packard / Palo Alto, CA	C / FP	ACC-RI	Jan 2019	Apr 2019	25	40.080	N		Nov 2018
Medical Information Systems Equipment LIN C27571 AN/TYQ 108v2		2019	Hewlett Packard / Palo Alto, CA	C / FP	ACC-RI	Jan 2019	Apr 2019	25	43.440	N		Nov 2018
Medical Information Systems Equipment LIN C27639 AN/TYQ 108v3 (Small)		2020	TBS / TBS	C / FP	ACC-RI	Jan 2020	Apr 2020	129	3.070	N		Nov 2019
Medical Information Systems Equipment LIN C27639 AN/TYQ 108v3 (Small)		2021	TBS / TBS	C / FP	ACC-RI	Jan 2021	Apr 2021	209	2.392	N		Nov 2020
Medical Information Systems Equipment LIN C27639 AN/TYQ 108v3 (Small)		2022	TBS / TBS	C / FP	ACC-RI	Jan 2022	Apr 2022	231	2.476	N		
Field equipment /conduct New Equip Train		2020	CACI / Reston, VA	C / FP	GSA	Dec 2019	Jan 2020	1	5,469.000	N		
Field equipment /conduct New Equip Train		2021	TBS / TBS	C / FP	GSA	Dec 2020	Jan 2021	1	6,260.000	N		May 2020
Field equipment /conduct New Equip Train		2022	TBS / TBS	Option / FP	GSA	Dec 2021	Jan 2022	1	5,360.000	N		

Remarks:

Equipment (TBS-To Be Selected) is computers for medical IT usage and consists of COTS computers and peripherals from the Army Computer Hardware Enterprise Software and Solutions (CHESS), the Army's designated Primary Source for commercial IT. Equipment vendors from CHESS meeting equipment specifications are selected by Army Contracting Command, Rock Island (ACC-RI). Equipment is procured for various of the 7 MC4 Line Item Numbers (LINs) depending on specific configurations of operational units to be fielded. New contracts are projected to be competitively awarded in FY20 and FY21, vendors are unknown at this time.

Unit cost for Equipment shown in FY16, FY17 and FY18 is an average unit cost. The MC4 system consists of 7 Line Item Numbers (LINs) and the mix of LINs fielded is dependent on the specific unit type. The quantity procured in any year is the summation of the LINs expected to be procured and fielded each year. Cost for each of the 7 LINs differs and the unit cost is developed as the average unit cost for that year based on the mix of LINs to be procured.

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care	Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)

Starting in FY19, equipment and unit cost has been detailed to the specific LIN level.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 9887B88810 / Army Communications & Electronics
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	37.856	51.480	89.441	-	89.441	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	37.856	51.480	89.441	-	89.441	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	37.856	51.480	89.441	-	89.441	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Communications & Electronic Equipment budget line funds procurement of communications and electronic equipment and other support equipment used in select programs. It also includes all cost integral and necessary to deliver useful end items intended for operational use within the communications and electronics, information dominance and multi-domain battlespace environment.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	37.856	51.480	89.441	-	89.441	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	37.856	51.480	89.441	-	89.441	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 9887B88810 / Army Communications & Electronics
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	B88820 / Army Communications A				- / -	- / 37.856	- / 51.480	- / 89.441	- / -	- / 89.441
P-40	Total Gross/Weapon System Cost				- / -	- / 37.856	- / 51.480	- / 89.441	- / -	- / 89.441

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The Communications & Electronic Equipment budget line funds procurement of communications and electronic equipment and other support equipment used in select programs. It also included all cost integral and necessary to deliver useful end items intended for operational use within the communications and electronics, information dominance and multi-domain battlespace environment.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9887B88810 / Army Communications & Electronics	Aggregated Items Title: B88820 / Army Communications A
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
B88820 / Army Communications A			-	-	-	-	-	37.856	-	-	51.480	-	-	89.441	-	-	-	-	-	89.441
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	37.856	-	-	51.480	-	-	89.441	-	-	-	-	-	89.441
Total			-	-	-	-	-	37.856	-	-	51.480	-	-	89.441	-	-	-	-	-	89.441

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	P-1 Line Item Number / Title: 0250BK5284 / CI AUTOMATION ARCHITECTURE-INTEL
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	141.147	17.078	14.376	13.317	-	13.317	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	141.147	17.078	14.376	13.317	-	13.317	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	141.147	17.078	14.376	13.317	-	13.317	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program provides the Army, as a member of the Department of Defense (DoD) Counterintelligence (CI) community, with advanced CI operational equipment to enhance its ability to contour the global threat through significant improvements in information sharing, common situational awareness, and knowledge management in a joint operational environment.

Joint Task Force Guantanamo (JTF-GTMO) Intel IT Systems provide critical intelligence capabilities in support of ongoing detainee operations, military commissions and detainee assessments as directed by OSD. In accordance with directives by OSD and DoD General Counsel on GTMO detainee records, JTF-GTMO is mandated to preserve all detainee relevant data. These systems were originally installed in a contingency nature with the intent of operating.

Sensitive Compartmented Information Facility - Information Technology (SCIF-IT) provides maintenance, manning, and sustainment in support of the Joint Worldwide Information Communications System (JWICS) Top Secret network services for the entire Army. In addition, the project supports Collateral (Secret and below) network services in the Army's military intelligence IT domains.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.078	14.376	13.317	-	13.317	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.078	14.376	13.317	-	13.317	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	P-1 Line Item Number / Title: 0250BK5284 / CI AUTOMATION ARCHITECTURE-INTEL
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BK5284 / CI AUTOMATION ARCHITECTURE-INTEL	P-5a			- / 141.147	- / 17.078	- / 14.376	- / 13.317	- / -	- / 13.317
P-40	Total Gross/Weapon System Cost				- / 141.147	- / 17.078	- / 14.376	- / 13.317	- / -	- / 13.317

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base funding in the amount of \$0.496 million procures the Department of Defense Intelligence Information System (DODIIS) - compliant CI and Human Intelligence (HUMINT) material solutions to support implementation of case management, threat management information systems, and information processing systems at Service, Major Command (MACOM) and user level Army Intelligence sites. Funding also provides specialized equipment necessary to support worldwide CI operations and investigation missions.

FY 2022 Base funding in the amount of \$12.821 million procures Army Intelligence-Related Information Technology Systems and Networks. This effort will provide life-cycle replacement for critical information technology systems to include Joint Worldwide Intelligence Communications Systems (JWICS) required to support global Army intelligence operations.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36	P-1 Line Item Number / Title: 0250BK5284 / CI AUTOMATION ARCHITECTURE-INTEL	Item Number / Title [DODIC]: BK5284 / CI AUTOMATION ARCHITECTURE-INTEL

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	141.147	17.078	14.376	13.317	-	13.317
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	141.147	17.078	14.376	13.317	-	13.317
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	141.147	17.078	14.376	13.317	-	13.317

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
CERP Servers ^(†)	71.399	138	9.853	29.310	29	0.850	52.886	149	7.880	23.425	73	1.710	-	-	-	23.425	73	1.710
CERP Storage ^(†)	62.362	47	2.931	24.963	82	2.047	56.906	32	1.821	111.250	40	4.450	-	-	-	111.250	40	4.450
CERP Routers ^(†)	61.570	93	5.726	78.182	11	0.860	37.696	23	0.867	31.360	50	1.568	-	-	-	31.360	50	1.568
CERP Switches ^(†)	789.828	93	73.454	29.607	211	6.247	49.455	44	2.176	32.790	157	5.148	-	-	-	32.790	157	5.148
Non-MTOE Automation Equipment	24,591.500	2	49.183	7,074.000	1	7.074	816.000	2	1.632	441.000	1	0.441	-	-	-	441.000	1	0.441
<i>Subtotal: Recurring Cost</i>	-	-	141.147	-	-	17.078	-	-	14.376	-	-	13.317	-	-	-	-	-	13.317
<i>Subtotal: Hardware Cost</i>	-	-	141.147	-	-	17.078	-	-	14.376	-	-	13.317	-	-	-	-	-	13.317
Gross/Weapon System Cost	-	-	141.147	-	-	17.078	-	-	14.376	-	-	13.317	-	-	-	-	-	13.317

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	17.078	14.376	13.317	-	13.317
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	17.078	14.376	13.317	-	13.317

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36	P-1 Line Item Number / Title: 0250BK5284 / CI AUTOMATION ARCHITECTURE-INTEL	Item Number / Title [DODIC]: BK5284 / CI AUTOMATION ARCHITECTURE-INTEL
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36			P-1 Line Item Number / Title: 0250BK5284 / CI AUTOMATION ARCHITECTURE-INTEL					Item Number / Title [DODIC]: BK5284 / CI AUTOMATION ARCHITECTURE-INTEL				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CERP Servers		2019	Various / various	C / FFP	Various	May 2019	Jun 2019	70	67.429	N		
CERP Servers		2020	Various / various	C / FFP	Various	May 2020	Jun 2020	29	29.310	N		
CERP Servers		2021	Various / various	C / FFP	Various	May 2021	Jun 2021	149	52.886	N		
CERP Servers		2022	Various / various	C / FFP	Various	May 2022	Jun 2022	73	23.425	N		
CERP Storage		2018	Various / various	C / FFP	Various	May 2018	Jun 2018	23	58.300	N		
CERP Storage		2019	Various / various	C / FFP	Various	May 2019	Jun 2019	23	60.652	N		
CERP Storage		2020	Various / various	C / FFP	Various	May 2020	Jun 2020	82	24.963	N		
CERP Storage		2021	Various / various	C / FFP	Various	May 2021	Jun 2021	32	56.906	N		
CERP Storage		2022	Various / various	C / FFP	Various	May 2022	Jun 2022	40	111.250	N		
CERP Routers		2018	Various / various	C / FFP	Various	May 2018	Jun 2018	48	57.290	N		
CERP Routers		2019	Various / various	C / FFP	Various	May 2019	Jun 2019	44	58.568	N		
CERP Routers		2020	Various / various	C / FFP	Various	May 2020	Jun 2020	11	78.182	N		
CERP Routers		2021	Various / various	C / FFP	Various	May 2021	Jun 2021	23	37.696	N		
CERP Routers		2022	Various / various	C / FFP	Various	May 2022	Jun 2022	50	31.360	N		
CERP Switches		2018	Various / various	C / FFP	Various	May 2018	Jun 2018	45	21.930	N		
CERP Switches		2019	Various / various	C / FFP	Various	May 2019	Jun 2019	47	22.298	N		
CERP Switches		2020	Various / various	C / FFP	Various	May 2020	Jun 2020	211	29.607	N		
CERP Switches		2021	Various / various	C / FFP	Various	May 2021	Jun 2021	44	49.455	N		
CERP Switches		2022	Various / various	C / FFP	Various	May 2022	Jun 2022	157	32.790	N		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	P-1 Line Item Number / Title: 0256K61010 / Defense Military Deception Initiative
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.497	3.704	5.624	5.207	-	5.207	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.497	3.704	5.624	5.207	-	5.207	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.497	3.704	5.624	5.207	-	5.207	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Defense Military Deception Initiative (DMDI) program integrates procurement prototypes with Component programs for acquisition, sustainment and maintenance.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.704	5.624	5.207	-	5.207	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.704	5.624	5.207	-	5.207	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	P-1 Line Item Number / Title: 0256K61010 / Defense Military Deception Initiative
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	K61020 / Defense Military Deception Initiative				- / 7.497	- / 3.704	- / 5.624	- / 5.207	- / -	- / 5.207
P-40	Total Gross/Weapon System Cost				- / 7.497	- / 3.704	- / 5.624	- / 5.207	- / -	- / 5.207

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement funding in the amount of \$5.207 million will support integrating prototype efforts to support force protection, signature management, and system survivability related to critical mission threads, operational constructs (Multi-Domain Operations) and key weapon systems. Funding includes supporting capability and capacity to meet Army strategic guidance in support of the National Defense Strategy, and other related Army efforts.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Army														Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36						P-1 Line Item Number / Title: 0256K61010 / Defense Military Deception Initiative						Aggregated Items Title: K61020 / Defense Military Deception Initiative							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
K61020 / Defense Military Deception Initiative			-	-	7.497	-	-	3.704	-	-	5.624	-	-	5.207	-	-	-	-	5.207	
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	3.704	-	-	5.624	-	-	5.207	-	-	-	-	5.207	
Total			-	-	7.497	-	-	3.704	-	-	5.624	-	-	5.207	-	-	-	-	5.207	

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	P-1 Line Item Number / Title: 0287BZ6100 / MULTI-DOMAIN INTELLIGENCE
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	20.095	-	20.095	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	20.095	-	20.095	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	20.095	-	20.095	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Intelligence Applications and Integration (Intel Apps) Program is a software-centric ACAT III Program that will provide the Next Generation intelligence capabilities aligned to the National Defense Strategy and Multi-Domain Operations by enabling intelligence professionals to work through the intelligence cycle with increased speed, precision and accuracy. The Intel Apps Program will synchronize applications (including All Source, Information Collection, Weather effects, and Intelligence Support to Targeting) to be integrated into the Command Post Computing Environment (CPCE) architecture thus eliminating redundant, stove-piped, and resource-intensive applications. The Intel Apps program will also support the modernization of Geospatial capabilities currently being used in the Army by purchasing the latest and most effective hardware and software available. The emphasis for adding these and all future Intel Apps capabilities to the Army will be by leveraging commercial items to the maximum extent possible. The Army will leverage proven technology as a means of providing capabilities in the fastest and most efficient means possible.

Multi-Domain Intelligence funding transitioned from 9690BZ7316 DCGS-A-INTEL to 0287BZ6100 Multi-Domain Intelligence in FY 2022.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	20.095	-	20.095	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	20.095	-	20.095	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	P-1 Line Item Number / Title: 0287BZ6100 / MULTI-DOMAIN INTELLIGENCE
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ6111 / INTELLIGENCE APPS				- / -	- / -	- / -	- / 20.095	- / -	- / 20.095
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 20.095	- / -	- / 20.095

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 funds in the amount of \$20.095 million will be used for procurement of Intelligence Application licenses to be deployed on CPCE-equipped units. These funds will be used for the fielding and training support of Intel Apps to CPCE. These funds will also be used to purchase the modernized Geospatial Work Stations (GWS) hardware and software. Funds will also be used for the initial Intel Apps software maintenance. FY22 OPA funding is necessary in the same year as RDTE funds, due to the commercial item acquisition for this program. This program has an accelerated schedule.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36	P-1 Line Item Number / Title: 0287BZ6100 / MULTI-DOMAIN INTELLIGENCE	Item Number / Title [DODIC]: BZ6111 / INTELLIGENCE APPS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	20.095	-	20.095
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	20.095	-	20.095
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	20.095	-	20.095

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
GWS Refresh	-	-	-	-	-	-	-	-	-	-	-	4.140	-	-	-	-	-	4.140
Plotter refresh	-	-	-	-	-	-	-	-	-	-	-	0.264	-	-	-	-	-	0.264
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.404	-	-	-	-	-	4.404
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.404	-	-	-	-	-	4.404
Software Cost																		
Recurring Cost																		
Software Maintenance	-	-	-	-	-	-	-	-	-	-	-	2.714	-	-	-	-	-	2.714
Software licenses	-	-	-	-	-	-	-	-	-	-	-	4.644	-	-	-	-	-	4.644
Software Engineering	-	-	-	-	-	-	-	-	-	-	-	0.800	-	-	-	-	-	0.800
Intel Apps Software	-	-	-	-	-	-	-	-	-	-	-	6.783	-	-	-	-	-	6.783
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	14.941	-	-	-	-	-	14.941
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	14.941	-	-	-	-	-	14.941
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	0.375	-	-	-	-	-	0.375
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.375	-	-	-	-	-	0.375
Support - Training Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	0.375	-	-	-	-	-	0.375
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.375	-	-	-	-	-	0.375

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36						P-1 Line Item Number / Title: 0287BZ6100 / MULTI-DOMAIN INTELLIGENCE						Item Number / Title [DODIC]: BZ6111 / INTELLIGENCE APPS					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	20.095	-	-	-	-	-	20.095

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	20.095	-	20.095
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	20.095	-	20.095

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0121BA1300 / FAMILY OF BIOMETRICS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0607665A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	118.823	1.000	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	118.823	1.000	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	118.823	1.000	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Biometrics Enabling Capability 0 (BEC 0), aka DoD Automated Biometrics Identification System (DoD ABIS), is an Army information technology system supporting identity superiority by providing the critical core capability for Warfighters to identify known or suspected threat actors in Multi Domain Operations (MDO) to include peer adversaries, terrorists and third country nationals. BEC 0 is an Army Program of Record and DoD's only authoritative biometric repository, providing 24/7 operational support for the Warfighter and interagency partners to decide and act in near-real time with timely identification and identity verification of known or suspected threat actors across the full range of military operations. DoD ABIS enables actionable intelligence supporting offensive operations and preventing espionage, sabotage, terrorist operations and other coercive actions against US forces and partner nations. DoD ABIS enables the Army, all other DOD components, Interagency and International Partners to effectively impede adversary's ability to conceal their identity and intentions. DoD ABIS supports all three objectives of the National Defense Strategy to increase lethality, enhance International Cooperation, and improve business practices.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.000	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.000	-	-	-	-	-	-	-

Justification:

BA1300 has no FY22 funding request.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0122TA0600 / Information System Security Program-ISSP
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,551.578	3.600	4.596	0.987	-	0.987	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,551.578	3.600	4.596	0.987	-	0.987	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,551.578	3.600	4.596	0.987	-	0.987	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Information Systems Security Program funding line supports the Army's Network Strategy.

The Information Systems Security Program (ISSP) supports the Army's Communication Security (COMSEC) modernization initiative to include the Army Key Management Infrastructure (AKMI) supporting the Total Force. The ISSP collects COMSEC requirements, procures and fields solutions, key management capabilities, Information Assurance (IA) / Cyber tools and associated hardware infrastructure to secure the Department of Defense Information Network (DoDIN) against evolving cyber threats.

The ISSP supports the identification and allocation of new and emerging COMSEC capabilities required to protect Army's architectures and to replace current and legacy cryptographic systems with technologically advanced (network centric/DoDIN compliant) devices. AKMI is a unified, scalable, interoperable, and trusted infrastructure providing net-centric key management services to systems that rely on cryptography, serving Department of Defense (DoD) and the broader cryptographic community.

Both the ISSP and AKMI programs ensure Army keeps pace with the Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic modernization, advanced key management and network centric performance capability mandates.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.600	4.596	0.987	-	0.987	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.600	4.596	0.987	-	0.987	-	-	-

Justification:

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security		P-1 Line Item Number / Title: 0122TA0600 / Information System Security Program-ISSP
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2022 Base procurement dollars in the amount of \$.987 million supports automated capability to conduct COMSEC and hardware infrastructure modernization oversight, perform requirement and Army Command Plan validation. Funds support responding to operational mission needs, and permits prioritization of COMSEC requirements. Provides for life cycle refresh of equipment to support mandated cybersecurity requirements to secure the DoDIN, such as Defense Information System Agency (DISA) Security Technical Implementation Guides (STIGs), Risk Management Framework (RMF) controls, and to meet Department of Defense (DOD) requirements.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	427.992	147.097	159.400	126.273	-	126.273	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	427.992	147.097	159.400	126.273	-	126.273	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	427.992	147.097	159.400	126.273	-	126.273	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	14.453	4.185	7.539	4.503	-	4.503	-	-	-	-	-	-

Description:

This funding line supports the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

The Communication Security (COMSEC) program consists of two sub-programs: Cryptographic Systems (CS), Army Key Management Infrastructure (AKMI).

Project B96002: Since its inception, the Cryptographic Systems (CS) Program procures and fields multiple products at multiple price points to provide cryptographic equipment that receive key through fill devices and allow for secure communication through Army devices such as radios and satellite terminals. CS provides solutions to secure the entire Army's Tactical and Enterprise classified networks, to provide intuitive / less complex and more cost efficient sustained COMSEC equipment across all platforms. New and emerging architectures, cease key dates, emerging threats, and Department of Defense (DoD)/Army policy are driving the need to replace currently fielded legacy systems with technologically advanced (network centric/Global Information Grid (GIG) compliant) devices that incorporate Chairman of the Joint Chiefs of Staff (CJCS) and Joint Requirements Oversight Council (JROC) directed cryptographic standardization, advanced key management performance capabilities. This program enables the Army to equip the force with more common and interoperable joint and coalition critical cryptographic solutions and services during peacetime, wartime, and contingency operations. Without this capability, secure communications of classified data are not possible. The program consists of three product families: In-Line Network Encryptors (INE), Link/Trunk Encryption Family (LEF), and Secure Voice (SV). The expanding of new networks and the growth in data needs (as described in LOE 1. Unified Network) has mandated the requirement for more capable and faster encryptors which are more expensive. Some INE and SV procurement quantities for FY22-FY25 cannot be included within P-Forms due to the absence of a SLIN to populate the AE2S Database. Quantities to be updated with next submission.

Project B96004: The Army Key Management Infrastructure (AKMI) is the Army's implementation of the National Security Agency (NSA) KMI ACAT IAM program, automating the functions of COMSEC electronic key management, control, planning, and distribution. AKMI supports the Army's ability to communicate and distribute Cryptographic data on the Army's tactical and strategic networks by limiting adversarial access to and reducing the vulnerability of, Army Command, Control, Communications, Computers, Cyber, Intelligence (C5I) systems. AKMI devices receive, store, manage, and transfer electronic key through the network to be loaded into communication devices such as radios and satellites to secure the network. Without this technology Warfighters are required to manually receive their cryptographic products by traveling to COMSEC account locations (which may not be co-located) and manually fill their devices. The AKMI System of Systems (SoS) includes the Management Client (MGC) Nodes, Automated Communications Engineering Software (ACES), Simple Key Loader (SKL), and Next Generation Load Device (NGLD) Family. NGLD-M procurement quantities for FY23 - FY25 cannot be included within P-Forms due to the absence of a SLIN to populate the AE2S Database. Quantities to be updated with next submission.

The Approved Acquisition Objective (AAO) for AKMI is 528 MGCs and 144,000 for AKMS (Fill Devices); Crypto Systems is 271,945 (Encryption Devices).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)	P-5a	A		- / 180.263	- / 66.242	- / 81.156	- / 47.990	- / -	- / 47.990
P-5	B96004 / KEY MANAGEMENT INFRASTRUCTURE	P-5a, P-21			- / 247.729	- / 80.855	- / 78.244	- / 78.283	- / -	- / 78.283
P-40	Total Gross/Weapon System Cost				- / 427.992	- / 147.097	- / 159.400	- / 126.273	- / -	- / 126.273

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
In FY 2022, the Communication Security (COMSEC) funding of \$126.273 million supports the below sub-programs.

Cryptographic Systems (CS): FY 2022 base procurement dollars in the amount of \$47.990 million will be utilized to procure and field modern In-Line Network Encryption (INE) and Secure Voice (SV) devices at multiple price points to provide cryptographic equipment that receive key through fill devices and allow for secure communication through Army devices such as radios and satellite terminals. In-Line Network Encryptors Family are systems that provide secure data and voice communications over Internet Protocol (IP) networks. The Secure Voice Family are systems that provide secure voice communication capability through the use of security tokens and/or public key encryption.

Army Key Management Infrastructure (AKMI): FY 2022 base procurement dollars in the amount of \$78.283 million supports the procurement, fielding, depot support and New Equipment Training (NET) for Key Management Infrastructure (KMI) Management Client Node (MGC), Simple Key Loader (SKL), and Automated Communication Engineering Software (ACES) enabling the Army to manage, control, plan, and distribute electronic key for the ~1.5 million End Cryptographic Units (ECU)s necessary to communicate and distribute data on the Army's tactical through strategic networks. The end state for the Army is to leverage AKMI capabilities (Over the Network Keying (OTNK), Mission Plan/Mission Support System (MP/MSS), Delivery Only Client (DOC), Client Host Only (CHO) to increase automation, reduce soldier oversight, manage, and deliver key products to the tactical edge up through strategic ECU's. The objective AKMI capabilities will be found in all of the products across the AKMI product line. All unit costs are based on verified contractually negotiated pricing based on quantity along with inflationary and bill of material increases. Increases in System Engineering will support integration for Key Management Infrastructure (KMI) Increment 3 services.

Funding enables modifications in the AKMI SoS to enable KMI standards compliance and to support legacy and emerging ECUs ability to communicate within the KMI architecture. The current SKL fleet will require support through at least 2030. Modernization of fill devices and emerging radio planning and configuration requirements are supported through this funding line. It also provides associated government and contractor engineering support, Post Production Deployment Software Support (PPDSS), system technical and software support of the AKMI SoS components. The PPDSS contract supports AKMI SoS components, operational support for deployed and sustaining forces, technical engineering & support, associated government and contractor engineering support, and the development and updating of Web based training for AKMI components to augment in-class delta and sustainment training. The PPDSS effort is an OPA requirement because of the new capabilities that are required to be implemented into the Key Management infrastructure (KMI) products based on the evolution of the KMI and to address parts obsolescence. The changes in capability do not allow the operational support to be transitioned to sustainment. The PPDSS contract for all key management products has been optimized and requirements continuously assessed to ensure that it is fiscally sound.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		180.263	66.242	81.156	47.990	-	47.990
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		180.263	66.242	81.156	47.990	-	47.990
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		180.263	66.242	81.156	47.990	-	47.990
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		44.520	10.727	10.870	11.316	-	11.316

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
KG-175D (INE) ^(†)	9.131	5,535	50.540	9.900	1,000	9.900	-	-	-	-	-	-	-	-	-	-	-	-
KG-175GM (INE)	13.250	320	4.240	13.949	550	7.672	-	-	-	-	-	-	-	-	-	-	-	-
KG-175GS (INE) ^(†)	15.384	1,186	18.245	13.949	550	7.672	18.950	500	9.475	18.950	300	5.685	-	-	-	18.950	300	5.685
KG-175F (INE) ^(†)	-	-	-	13.990	400	5.596	17.950	1,000	17.950	17.950	800	14.360	-	-	-	17.950	800	14.360
KG-175X (INE) ^(†)	61.311	196	12.017	60.953	170	10.362	66.875	216	14.445	66.877	162	10.834	-	-	-	66.877	162	10.834
KG-250X (INE) ^(†)	8.900	1,079	9.603	-	-	-	9.900	600	5.940	9.900	300	2.970	-	-	-	9.900	300	2.970
KG-250X FC (INE)	8.669	2,060	17.858	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KG-250XS (INE) ^(†)	7.277	1,350	9.824	7.590	395	2.998	7.590	400	3.036	-	-	-	-	-	-	-	-	-
KG-255X (INE) ^(†)	13.971	34	0.475	13.950	220	3.069	18.949	550	10.422	18.950	140	2.653	-	-	-	18.950	140	2.653
KG-350 (INE) ^(†)	-	-	-	-	-	-	-	-	-	50.000	15	0.750	-	-	-	50.000	15	0.750
INE-FUTURE DEVICES ^(†)	-	-	-	4.997	300	1.499	6.918	1,040	7.195	5.491	505	2.773	-	-	-	5.491	505	2.773
SV-FUTURE DEVICES ^(†)	0.600	200	0.120	0.600	1,600	0.960	1.422	2,211	3.144	0.600	1,300	0.780	-	-	-	0.600	1,300	0.780
viPer (SV) ^(†)	2.938	1,121	3.293	2.795	1,100	3.075	2.995	1,000	2.995	2.994	900	2.695	-	-	-	2.994	900	2.695
KY-58M (VACM)	7.800	670	5.226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KY-99M (VACM)	6.838	321	2.195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
KY-100M (VACM)	7.427	344	2.555	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KYV-5M (VACM)	12.286	56	0.688	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	136.879	-	-	52.803	-	-	74.602	-	-	43.500	-	-	-	-	-	43.500
<i>Subtotal: Hardware Cost</i>	-	-	136.879	-	-	52.803	-	-	74.602	-	-	43.500	-	-	-	-	-	43.500
Package Fielding Cost																		
Recurring Cost																		
ARMY-WIDE CRYPTO NETWORK STANDARDIZATION	-	-	5.825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRODUCT SUPPORT/FIELDING	-	-	12.080	-	-	4.476	-	-	1.490	-	-	1.238	-	-	-	-	-	1.238
<i>Subtotal: Recurring Cost</i>	-	-	17.905	-	-	4.476	-	-	1.490	-	-	1.238	-	-	-	-	-	1.238
<i>Subtotal: Package Fielding Cost</i>	-	-	17.905	-	-	4.476	-	-	1.490	-	-	1.238	-	-	-	-	-	1.238
Support - Program Management Cost																		
Contractor Management	-	-	10.066	-	-	2.694	-	-	2.830	-	-	1.669	-	-	-	-	-	1.669
<i>Subtotal: Support - Program Management Cost</i>	-	-	10.066	-	-	2.694	-	-	2.830	-	-	1.669	-	-	-	-	-	1.669
Support - System Engineering Cost																		
System Engineering	-	-	8.234	-	-	1.564	-	-	1.209	-	-	1.208	-	-	-	-	-	1.208
<i>Subtotal: Support - System Engineering Cost</i>	-	-	8.234	-	-	1.564	-	-	1.209	-	-	1.208	-	-	-	-	-	1.208
Support - Training Cost																		
Equipment	-	-	7.177	-	-	4.705	-	-	1.025	-	-	0.375	-	-	-	-	-	0.375
<i>Subtotal: Support - Training Cost</i>	-	-	7.177	-	-	4.705	-	-	1.025	-	-	0.375	-	-	-	-	-	0.375
Gross/Weapon System Cost	44.520	-	180.263	10.727	-	66.242	10.870	-	81.156	11.316	-	47.990	-	-	-	11.316	-	47.990

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)				Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
KG-175D (INE)		2020	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2020	Jan 2021	1,000	9.900	N		
KG-175D (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	0	0.000	N		
KG-175GS (INE)		2020	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2020	Jan 2021	550	13.949	N		
KG-175GS (INE)		2021	NSA / FORT MEADE	C / IDDQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	500	18.950	N		
KG-175GS (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	300	18.950	N		
KG-175F (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	1,000	17.950	N		
KG-175F (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	800	17.950	N		
KG-175X (INE)		2020	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2020	Jan 2021	170	60.953	N		
KG-175X (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	216	66.875	N		
KG-175X (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	162	66.877	N		
KG-250X (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	600	9.900	N		
KG-250X (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	300	9.900	N		
KG-250XS (INE)		2020	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2020	Jan 2021	395	7.590	N		
KG-250XS (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	400	7.590	N		
KG-255X (INE)		2020	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2020	Jan 2021	220	13.950	N		
KG-255X (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	550	18.949	N		
KG-255X (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	140	18.950	N		
KG-350 (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	0	0.000	N		
KG-350 (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	15	50.000	N		
INE-FUTURE DEVICES		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	1,040	6.918	N		
INE-FUTURE DEVICES		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	505	5.491	N		
SV-FUTURE DEVICES		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	1,300	0.600	N		
viPer (SV)		2020	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2020	Jan 2021	1,100	2.795	N		
viPer (SV)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	1,000	2.995	N		
viPer (SV)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	900	2.994	N		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
		Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	247.729	80.855	78.244	78.283	-	78.283
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	247.729	80.855	78.244	78.283	-	78.283
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	247.729	80.855	78.244	78.283	-	78.283

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	9.691	2.791	5.721	3.289	-	3.289

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
MGC Procurement ^(†)	19.133	445	8.514	6.299	157	0.989	15.460	150	2.319	10.906	85	0.927	-	-	-	10.906	85	0.927
ACES Procurement	2.641	1,348	3.560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SKLs Procurement ^(†)	3.005	29,664	89.150	4.083	12,663	51.704	4.019	13,526	54.360	4.181	13,588	56.806	-	-	-	4.181	13,588	56.806
NGLD S	2.060	5,151	10.611	2.442	1,537	3.753	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Recurring	-	-	44.191	-	-	4.170	-	-	4.370	-	-	4.457	-	-	-	-	-	4.457
<i>Subtotal: Recurring Cost</i>	-	-	156.026	-	-	60.616	-	-	61.049	-	-	62.190	-	-	-	-	-	62.190
<i>Subtotal: Hardware Cost</i>	-	-	156.026	-	-	60.616	-	-	61.049	-	-	62.190	-	-	-	-	-	62.190
Software Cost																		
Recurring Cost																		
Post Deployment Software Support/NET	-	-	36.313	-	-	8.500	-	-	4.213	-	-	4.093	-	-	-	-	-	4.093
Post Production Software Support	-	-	-	-	-	-	-	-	0.921	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	36.313	-	-	8.500	-	-	5.134	-	-	4.093	-	-	-	-	-	4.093
<i>Subtotal: Software Cost</i>	-	-	36.313	-	-	8.500	-	-	5.134	-	-	4.093	-	-	-	-	-	4.093
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	6.495	-	-	1.009	-	-	1.340	-	-	1.367	-	-	-	-	-	1.367
<i>Subtotal: Recurring Cost</i>	-	-	6.495	-	-	1.009	-	-	1.340	-	-	1.367	-	-	-	-	-	1.367

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Package Fielding Cost</i>	-	-	6.495	-	-	1.009	-	-	1.340	-	-	1.367	-	-	-	-	-	1.367
Logistics Cost																		
Recurring Cost																		
Depot Support	-	-	5.878	-	-	1.930	-	-	2.100	-	-	2.205	-	-	-	-	-	2.205
<i>Subtotal: Recurring Cost</i>	-	-	5.878	-	-	1.930	-	-	2.100	-	-	2.205	-	-	-	-	-	2.205
<i>Subtotal: Logistics Cost</i>	-	-	5.878	-	-	1.930	-	-	2.100	-	-	2.205	-	-	-	-	-	2.205
Support - Program Management Cost																		
Contractor Management	-	-	16.926	-	-	2.673	-	-	2.202	-	-	2.312	-	-	-	-	-	2.312
<i>Subtotal: Support - Program Management Cost</i>	-	-	16.926	-	-	2.673	-	-	2.202	-	-	2.312	-	-	-	-	-	2.312
Support - System Engineering Cost																		
System Engineering	-	-	21.275	-	-	5.622	-	-	5.450	-	-	5.723	-	-	-	-	-	5.723
<i>Subtotal: Support - System Engineering Cost</i>	-	-	21.275	-	-	5.622	-	-	5.450	-	-	5.723	-	-	-	-	-	5.723
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	0.906	-	-	0.185	-	-	0.490	-	-	0.189	-	-	-	-	-	0.189
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	0.906	-	-	0.185	-	-	0.490	-	-	0.189	-	-	-	-	-	0.189
Support - Training Cost																		
Services	-	-	3.931	-	-	0.321	-	-	0.478	-	-	0.203	-	-	-	-	-	0.203
<i>Subtotal: Support - Training Cost</i>	-	-	3.931	-	-	0.321	-	-	0.478	-	-	0.203	-	-	-	-	-	0.203
Gross/Weapon System Cost	9.691	-	247.729	2.791	-	80.855	5.721	-	78.244	3.289	-	78.283	-	-	3.289	-	-	78.283

Remarks:
 Note:
 1. ACES & MGCs procurements are COTS or GOTS.
 2. In FY 2021, \$1.602 million in Reimbursable Manpower for this line has been realigned from Reimbursable Civilian Funding to Direct Operations and Maintenance. Program support costs have been accurately updated to reflect the realignments.
 3. PPSS support will begin to include Next Generation Load Device - Small (NGLD-S) software support in FY20.
 4. Increases in System Engineering will support integration for Key Management Infrastructure (KMI) Increment 3 services.

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)				Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MGC Procurement		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Feb 2021	Nov 2021	150	15.460	N		
MGC Procurement		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Feb 2022	Nov 2022	85	10.906	N		
SKLs Procurement ^(†)		2020	SNC / SPARK	C / IDDQ	Spark, NV	Feb 2020	Nov 2020	12,663	4.083	Y		
SKLs Procurement ^(†)		2021	SNC / SPARK	C / IDDQ	Spark, NV	Feb 2021	Nov 2021	13,526	4.019	Y		
SKLs Procurement ^(†)		2022	SNC / SPARK	C / IDIQ	Spark, NV	Feb 2022	Nov 2022	13,588	4.181	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army																							Date: May 2021										
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64											P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)											Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE											
Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2020													Fiscal Year 2021													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
SKLs Procurement																																	
Prior Years Deliveries: 29664																																	
	1	2020	ARMY	12.663	.000	12.663					A -	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	2.000	.663		.000					
	1	2021	ARMY	13.526	.000	13.526																A -	-	-	-	-	-	-	13.526				
	1	2022	ARMY	13.588	.000	13.588																							13.588				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2022 Army														Date: May 2021															
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64										P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)										Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2022														Fiscal Year 2023														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

SKLs Procurement																																	
Prior Years Deliveries: 29664																																	
1	2020	ARMY	12.663	12.663	.000																												.000
1	2021	ARMY	13.526	.000	13.526	-	2.000	2.000	2.000	2.000	2.000	2.000	1.526																				.000
1	2022	ARMY	13.588	.000	13.588					A	-	-	-	-	-	-	-	-	2.000	2.000	2.000	-	2.000	2.000	2.000	1.588							.000
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
		Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	SNC - SPARK	2,000	2,000	10,000	0	0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0128B63000 / Defensive CYBER Operations
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605041A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	54	57	41	59	-	59	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	124.440	56.962	41.153	27.389	-	27.389	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	124.440	56.962	41.153	27.389	-	27.389	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	124.440	56.962	41.153	27.389	-	27.389	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2,304.444	999.333	1,003.732	464.220	-	464.220	-	-	-	-	-	-

Description:

Defensive Cyber Operations (DCO) is the only Army program selected for the BA8 Software Pilot Program (PE 0608041A) starting in FY2021. The program realigned \$28.471 million FY2022 OPA from PE 0128B63000 to PE 0608041A for DCO Tools Suite, and Forensics and Malware Analysis programs. In addition, FY2022 OPA funds in the amount of \$1.76 million have been realigned from PE 0131B89000 to PE 0128B63000.

Remaining OPA program funding supports the Army Network Modernization Strategy Line of Effort (LOE) Key Enabler for the Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

DCO consists of platform (hardware and software) programs which are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. The employment of defensive capabilities creates specific effects in cyberspace through actions that allow commanders to achieve the following objectives: deter, destroy, and defeat enemy offensive cyberspace operations; gain time; economy of force; control key terrain; protect tasked critical assets and infrastructure; and develop intelligence. DCO supports the Army Cyber Command (ARCYBER), Army Cyberspace Operations and Integration Center (ACOIC), (5) Regional Cyber Centers (RCCs), Cyber Warfare Battalion (CWB), Multi-Domain Task Force (MDTF), Cyber Protection Brigade (CPB), and (41) Cyber Protection Teams (CPTs) in COMPO 1/2/3.

Platforms/Levels:

- * DCO - Garrison Defensive Platform - (PEO EIS) - Base Level
- * DCO - Deployable DCO Systems - (PEO EIS) - Tactical/Command Post Level
- * DCO Development Environment - (PEO EIS) - Armory

	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	57	21	29	-	29	-	-	-	-
	Total Obligation Authority	56.962	35.753	19.289	-	19.289	-	-	-	-
ANG	Quantity	-	10	16	-	16	-	-	-	-
	Total Obligation Authority	-	2.700	4.320	-	4.320	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security					P-1 Line Item Number / Title: 0128B63000 / Defensive CYBER Operations					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: 0605041A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
AR	Quantity	-	10	14	-	14	-	-	-	-
	Total Obligation Authority	-	2.700	3.780	-	3.780	-	-	-	-
Total: Secondary Distribution	Quantity	57	41	59	-	59	-	-	-	-
	Total Obligation Authority	56.962	41.153	27.389	-	27.389	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 64: Information Security

P-1 Line Item Number / Title:
0128B63000 / Defensive CYBER Operations

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605041A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B63103 / Advanced Cyber Tool Development	P-5a			54 / 124.440	57 / 56.962	41 / 41.153	59 / 27.389	- / -	59 / 27.389
P-40	Total Gross/Weapon System Cost				54 / 124.440	57 / 56.962	41 / 41.153	59 / 27.389	- / -	59 / 27.389

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

B63103 Defensive Cyber Operations:

FY2022 Base procurement dollars in the amount of \$27.389 million supports the procurement, fielding, and training of solutions that fill capability gaps as outlined in the Army DCO Information Systems Initial Capabilities Document (IS ICD):

* \$6.244 million procures twelve (12) Garrison Defensive Platforms at select installations that enables global cyberspace defenders (e.g. CPTs) to maneuver remotely into a network in order to augment local and regional cyberspace defenders, organic to the garrison, and conduct defensive cyber operations.

* \$12.122 million procures forty-seven (47) Deployable DCO Systems providing fly-away kit capabilities that will be delivered to Armories where they will be checked in/out by CPT's. Integrator engineering costs included to level off as solution becomes a standard capability.

* \$6.252 million procures DCO Development Environment (DCODE) Armory support where DCO capabilities are stored, configured, upgraded with new technologies issued to Cyber Protection Teams. DCODE Armories provide centralized management and distribution for DCO platforms, tools, and capabilities located at Fort Belvoir, Fort Gordon, Tobyhanna Army Depot (DCO General Armory Support), and South Korea.

* \$2.771 million for program management support to include government matrix personnel and contractor management services for implementation, fielding, system engineering, logistics, training, programmatic, and acquisition supporting DCO capabilities.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0128B63000 / Defensive CYBER Operations	Item Number / Title [DODIC]: B63103 / Advanced Cyber Tool Development

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	54	57	41	59	-	59
Gross/Weapon System Cost (\$ in Millions)	124.440	56.962	41.153	27.389	-	27.389
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	124.440	56.962	41.153	27.389	-	27.389
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	124.440	56.962	41.153	27.389	-	27.389

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,304.444	999.333	1,003.732	464.220	-	464.220

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CYBER PROTECTION TEAM TOOLS SUITE ^(†)	41,594.000	1	41.594	13,895.000	1	13.895	-	-	-	-	-	-	-	-	-	-	-	-
GARRISON Defensive PLATFORMS ^(†)	1,027.778	9	9.250	414.667	15	6.220	702.571	21	14.754	520.333	12	6.244	-	-	-	520.333	12	6.244
DEPLOYABLE DCO SYSTEMS ^(†)	318.222	45	14.320	242.756	41	9.953	392.350	20	7.847	257.915	47	12.122	-	-	-	257.915	47	12.122
DCO DEVELOPMENT ENVIRONMENT (formerly CYBER ARMORY)	-	-	14.237	-	-	8.236	-	-	6.440	-	-	6.252	-	-	-	-	-	6.252
CYBER ANALYTICS	-	-	0.993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	80.394	-	-	38.304	-	-	29.041	-	-	24.618	-	-	-	-	-	24.618
Subtotal: Flyaway Cost	-	-	80.394	-	-	38.304	-	-	29.041	-	-	24.618	-	-	-	-	-	24.618
Hardware Cost																		
Non Recurring Cost																		
DCO INFRASTRUCTURE ENTERPRISE HARDWARE (TDI)	5,155.000	1	5.155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0128B63000 / Defensive CYBER Operations	Item Number / Title [DODIC]: B63103 / Advanced Cyber Tool Development

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
ARCYBER Rapid Cyber Prototyping (RCP)	-	-	-	-	-	-	1,098.000	1	1.098	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	5.155	-	-	-	-	-	1.098	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	5.155	-	-	-	-	-	1.098	-	-	-	-	-	-	-	-	-
Software Cost																		
Recurring Cost																		
USER ACTIVITY MONITORING ^(†)	-	-	0.009	3,480.000	1	3.480	1,448.000	1	1.448	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.009	-	-	3.480	-	-	1.448	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
ARCYBER Rapid Cyber Prototyping (RCP)	-	-	-	-	-	-	435.000	1	0.435	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	0.435	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	0.009	-	-	3.480	-	-	1.883	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Contractor Management	-	-	21.211	-	-	10.650	-	-	5.673	-	-	2.171	-	-	-	-	-	2.171
Government Management	-	-	10.345	-	-	2.773	-	-	2.158	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - Program Management Cost</i>	-	-	31.556	-	-	13.423	-	-	7.831	-	-	2.271	-	-	-	-	-	2.271
Support - System Engineering Cost																		
System Engineering	-	-	2.162	-	-	1.435	-	-	0.800	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	2.162	-	-	1.435	-	-	0.800	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Services	-	-	5.164	-	-	0.320	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
<i>Subtotal: Support - Training Cost</i>	-	-	5.164	-	-	0.320	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
Gross/Weapon System Cost	2,304.444	54	124.440	999.333	57	56.962	1,003.732	41	41.153	464.220	59	27.389	-	-	-	464.220	59	27.389

Remarks:
Based on the current execution of the program, FY2020 Quantities should be (56). Quantities will be updated to adjust for actual execution data prior to the submission of the FY2023 President's Budget.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0128B63000 / Defensive CYBER Operations	Item Number / Title [DODIC]: B63103 / Advanced Cyber Tool Development

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Deployable DCO Systems (DDS):
 FY2021 quantity of (20) will be delivered to support Cyber Mission Forces in helping to defend the Army's networks from threats. DDS production will continue in FY2022 with (47) DDS Modular (DDS-M) to meet the requirement of (153) total systems delivered per Basis of Issue Plan (BOIP). Using the Armory concept, which operates like a library, the DDS equipment will be checked in/out of the Armory to support various cyber missions. FY2022 funds are provided for the procurement, operating system, fielding, and training of DDS-M. DDS hardware cost ~\$175K per kit which does not include costs for professional services, training, and operating system and warranty of kits fielded in prior years and in FY2022 (153 kits).

Garrison Defensive Platform (GDP):
 GDP Solutions vary based on size of Garrison, network traffic amounts, and risk level to the base. As a result, hardware support quantities, storage, and data ingest requirements for each Garrison is different. In FY2020, (15) Garrison Defensive Platform version 3 (GDPv3) solutions were procured which integrate with the Global Enterprise Fabric (GEF) at select Garrisons. In FY2021, (10) additional GDPv3 solutions are planned to integrate with locations that have a GEF, and (11) Garrison Defensive Platform version 4 (GDPv4) solutions are planned for Garrisons that do not have a GEF present and require a different form factor solution. Total GDP solutions in FY2021 is (21). In FY2022, (12) Garrison Defensive solutions are planned along with operating system software, fielding, and training. GDP hardware costs vary from \$240K-\$1M per solution, again based on size, traffic amounts, and risk, which does not include the costs for professional services, training, operating system, and warranty. The addition of taps/sensors/fiber/connections for the data ingest in the Army networks also adds approximately \$40K per connection, with some locations needing more than others do.

DCO Development Environment (DCODE):
 FY2022 funding increase will address the gap in capability and provide increase support in the following focus areas: new technology assessment/evaluation, integration of future tools to multiple platforms, support continuous Authorities to Operate (ATO) requirement for DCO Suite of Complimentary Systems (DSCS), Development Network support, and support to deploy an armory in South Korea.

DCO Program Management:
 FY2022 funds are provided for program management support to include government matrix personnel and contractor management services for implementation, fielding, system engineering, logistics, training, programmatic, and acquisition supporting DCO capabilities.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	57	21	29	-	29
	Total Obligation Authority	56.962	35.753	19.289	-	19.289
ANG	Quantity	-	10	16	-	16
	Total Obligation Authority	-	2.700	4.320	-	4.320
AR	Quantity	-	10	14	-	14
	Total Obligation Authority	-	2.700	3.780	-	3.780
Total:	Quantity	57	41	59	-	59
Secondary Distribution	Total Obligation Authority	56.962	41.153	27.389	-	27.389

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: 0128B63000 / Defensive CYBER Operations				Item Number / Title [DODIC]: B63103 / Advanced Cyber Tool Development				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
CYBER PROTECTION TEAM TOOLS SUITE		2020	SMS Data Products Group Inc / McLean, VA	MIPR	DISA/DITCO Scott AFB	Jul 2020	Aug 2020	1	13,895.000	N		
GARRISON Defensive PLATFORMS		2020	SOSSEC / Atkinson, NH	C / FFP	ACC-Rock Island, IL	Apr 2020	Mar 2021	15	414.667	N		
GARRISON Defensive PLATFORMS		2021	SOSSEC / Atkinson, NH	C / FFP	ACC-Rock Island, IL	Apr 2021	Mar 2022	21	702.571	N		
GARRISON Defensive PLATFORMS		2022	TBD / TBD	C / FFP	ACC-Rock Island, IL	Apr 2022	Mar 2023	12	520.333	N		
DEPLOYABLE DCO SYSTEMS		2020	SOSSEC / Atkinson, NH	C / FFP	ACC-Rock Island, IL	Jun 2020	Jul 2020	41	242.756	N		
DEPLOYABLE DCO SYSTEMS		2021	SOSSEC / Atkinson, NH	C / FFP	ACC-Rock Island, IL	Feb 2021	Mar 2021	20	392.350	N		
DEPLOYABLE DCO SYSTEMS		2022	TBD / TBD	C / FFP	ACC-Rock Island, IL	Feb 2022	Mar 2022	47	257.915	N		
USER ACTIVITY MONITORING		2020	SOSSEC / Atkinson, NH	C / FFP	ACC-Rock Island, IL	Feb 2020	Mar 2020	1	3,480.000	N		
USER ACTIVITY MONITORING		2021	SOSSEC / Atkinson, NH	C / FFP	ACC-Rock island, IL	Mar 2021	Apr 2021	1	1,448.000	N		

Remarks:

Acquisition Strategy:

The DCO Information System Capabilities Development Document (IS ICD) was approved on 19 December 2017 by the Army Requirements Oversight Council (AROC). DCO programs are under an IT Box construct with five year term (FY2018-2022) which aligns with current Requirements Definition Packages (RDPs). IT Box establishes funding thresholds, by appropriation, for a program over the capability's projected lifecycle of five (5) years. Current IT Box will expire in 4QTRFY2022 and planned to be renewed in 1QTRFY2022.

GDP and DDS RDPs were approved on 27 February 2018 and UAM on 18 March 2019. The DCODE RDP approval is targeted for 3QFY2021. The Milestone Decision Authority (MDA) designated these as ACAT IV programs. Under subsequent reviews, the MDA approved agile acquisition approach to develop and deliver pre-configured hardware and software in a series of releases and capability drops in order to deliver full functional values of the RDP that align with DCO priorities. DCO continually delivers new technologies and capabilities as a prototype and fields updated capabilities. DCO contract strategy utilizes multiple existing contracts vehicles to include Other Transactional Authority (OTA), Federal Acquisition Regulation (FAR)-based, Blanket Purchase Agreement (BPA), and Basic Ordering Agreement (BOA).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0131B89000 / Insider Threat Program - Unit Activity Monitoring
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.018	0.756	1.760	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.018	0.756	1.760	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.018	0.756	1.760	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Insider Threat Program - User Activity Monitoring (UAM) program supports the Army Network Modernization Strategy Line of Effort (LOE) Key Enabler for the Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

FY2022 OPA funds have been moved into OPA BLI 0128B63000.

All information technology (IT) procurement consists of commercial-off-the-shelf (COTS) solutions. Quantities and units costs vary by system configuration and site.

UAM operations are conducted in support of the Army's insider threat program. UAM is the technical capability to observe and record the actions and activities of an individual, at any time, on any device access U.S. Government information in order to detect insider threats and to support authorized investigations. The OPA program supports three objectives. First, it provides advanced analytics (including user behavior modeling software) to increase UAM analysis effectiveness and efficiency. Second, it provides additional system hardware. Third, it supports the procurement of the next generation Army UAM tool in FY2021. Advanced analytics procurement includes commercial-off-the-shelf (COTS) hardware, software, and open source software. This capability will increase UAM analysts effectiveness and efficiency. The primary objective is to employ COTS technology to identify potential insider threats by monitoring behavior between users, user interactions with data and network capabilities (especially in regards to privileged users), and monitoring user compliance with network and data standards and policies.

Note: Army executes its insider threat program in accordance with Executive Order 13587, Structural Reforms to Improve the Security of Classified Networks and the Responsible Sharing and Safeguarding of Classified Information, (Reference b) dated 7 October 2011; Presidential Memorandum, National Insider Threat Policy and Minimum Standards for Executive Branch Insider Threat Programs, dated 21 November 2012; National Defense Authorization Act for Fiscal Year 2012, Section 922, Insider Threat Detection; and Army Directive 2013-18 (Army Insider Threat Program) dated 31 July 2013.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.756	1.760	-	-	-	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0131B89000 / Insider Threat Program - Unit Activity Monitoring
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	0.756	1.760	-	-	-	-	-	-	-

Justification:
 B89000 has no FY2022 funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0132B65010 / Persistent Cyber Training Environment
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.000	3.000	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.000	3.000	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.000	3.000	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Persistent Cyber Training Environment (PCTE) supports the United States Cyber Command (USCC) by enabling a critical need for the DoD Cyber Mission Force (CMF) to train at the individual, team, and force level. The service cyber components have established their own training environments, but do not have standardized capabilities or content. PCTE will provide the Department of Defense (DoD) cyber forces with a standardized training capability that utilizes shared content across the Services to include emulated network environments and has the ability to connect to other range environments.. The PCTE platform is aligned to the outputs of the Office of the Under Secretary of Defense for Acquisition & Sustainment OUSD (A&S) and Chairman of the Joint Chiefs of Staff (CJCS) J6 led, "Cyber Range Evaluation of Alternatives (EOA) Findings and Issue Paper Deliberations," dated 17 November 2015. The Program Executive Office for Simulation, Training, and Instrumentation (PEO STRI) was designated as the DoD Acquisition Lead for the PCTE and the program is directed by the 2016 National Defense Authorization Act, Section 1645. With the JROC validation of the Information System - Capability Development Document (IS-CDD) on 4 November 2019, the PCTE program quickly achieved Milestone B on 6 December 2019.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.000	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.000	-	-	-	-	-	-	-

Justification:

B65010 has no funding request in FY 2022.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0150B68000 / SIO CAPABILITY
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	21.303	-	21.303	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	21.303	-	21.303	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	21.303	-	21.303	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Program provides critical classified, continuous, rapid evolutionary procurement of offensive cyberspace capabilities intended to project power in and through the cyberspace domain. Capabilities also provide deliberate, authorized, response actions which taken external to the DODIN to defeat ongoing or imminent threats. Authorities are provided under Title 10, United States Code Section 394. In FY20 and FY21, the details of this program were reported in accordance with Title 10, United States Code, Section 119(a)(1). The transition from Title 10 allows for a broader set of requirements for the program.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	21.303	-	21.303	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	21.303	-	21.303	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0150B68000 / SIO CAPABILITY
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B68123 / SIO CAPABILITY PROCUREMENT				- / -	- / -	- / -	- / 21.303	- / -	- / 21.303
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 21.303	- / -	- / 21.303

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Program includes but is not limited to critical classified, continuous, rapid evolutionary procurement, Interim Contractor Support (ICS), training, and fielding of offensive cyberspace software capabilities with minimal hardware capabilities intended to project power in and through the cyberspace domain. Capabilities also provide deliberate, authorized, response actions which taken external to the DODIN to defeat ongoing or imminent threats. Authorities are provided under Title 10, United States Code Section 394. The In FY20 and FY21, the details of this program were reported in accordance with Title 10, United States Code, Section 119(a)(1). In FY22, the transition to an evolved set of technical solutions, controlled at appropriate security classification levels, will enable application against a broader set of Title 10 operational needs and requirements for the program. This Program Element (PE) does not represent a new start program. Previous PE not listed here due to classification.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0150B68000 / SIO CAPABILITY	Item Number / Title [DODIC]: B68123 / SIO CAPABILITY PROCUREMENT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	21.303	-	21.303
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	21.303	-	21.303
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	21.303	-	21.303

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Contractor Logistics Support (CLS) Cost																		
Oversight	-	-	-	-	-	-	-	-	-	10,651.500	2	21.303	-	-	-	10,651.500	2	21.303
<i>Subtotal: Support - Contractor Logistics Support (CLS) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	21.303	-	-	-	-	-	21.303
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	21.303	-	-	-	-	-	21.303

Remarks:

New Program Elements (PE) established to resolve limited visibility concerns and access to the use of historical highly classified PEs.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	21.303	-	21.303
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	21.303	-	21.303

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0152B13000 / BIOMETRIC ENABLING CAPABILITY (BEC)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	0.914	-	0.914	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	0.914	-	0.914	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	0.914	-	0.914	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides 24/7 operational support enabling time-sensitive missions requiring near real-time biometric identification of known and/or suspected threat actors worldwide in support of Joint-All-Domain-Operations (JADO). The automated and manual biometrics matching allows the Warfighter to accurately identify and detain those responsible for conducting espionage, sabotage, terrorist operations and other coercive actions against US forces and partner nations across the globe. This is a new start effort.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	0.914	-	0.914	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	0.914	-	0.914	-	-	-	-

Justification:

FY 22 PB in the amount of \$.914 million initiates Biometric Enabling Capability (BEC) 1 and provides required funding for software license procurements and hardware (HW) requirements. This is a new start effort.

BIOMETRIC ENABLING CAPABILITY (BEC) is a new start in FY 2022.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 9091B85010 / Items Less Than \$5M (Info Security)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	0.260	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	0.260	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	0.260	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program supports hardware and software purchases and renewals for the Army Security Response Tool (ASRT) in support of the Army Insider Threat Hub.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.260	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.260	-	-	-	-	-	-

Justification:

B85010 has no funding request in FY 22.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications	P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	850.378	56.052	30.761	9.209	-	9.209	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	850.378	56.052	30.761	9.209	-	9.209	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	850.378	56.052	30.761	9.209	-	9.209	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	28,345.933	-	-	1,841.800	-	1,841.800	-	-	-	-	-	-

Description:

The Base Support Communications program provides real-time voice communications and data via the Army Land Mobile Radio (LMR) network. Land Mobile Radio (LMR) systems are commercial solutions that provide mission critical mobile and portable communications for garrison first responders, public safety, force protection, homeland security, pre-deployment logistics support, and installation management missions. First Responders are the primary users of LMR to include installation Military Police, Fire Departments, and Emergency Medical personnel. The Army's LMR program provides network infrastructure, network enabling functions, and subscriber unit devices to ensure a synchronized, timely, and effective emergency first response. Originally designed and resourced to modernize Army Continental United States (CONUS) Enterprise (ACE) LMR systems to meet the National Telecommunications Information Administrations Narrowband (NTIA) mandates and to upgrade to the Association of Public-safety Communications Officers (APCO) Project 25 (P25) standards, the Army LMR program has grown to meet Army LMR requirements world-wide including providing communications support for non-combatant evacuation orders (NEO) in the OCONUS Theaters with a focus on first responders in CONUS and OCONUS.

The LMR program provides all LMR system hardware/software infrastructure to include initial critical system spares, subscriber units which include portable (handheld units for each operator), vehicle mounted mobile units and desktop equipment for dispatchers in accordance with the Installation Management Command (IMCOM) Basis of issue plan (BOIP), and two years of interim contractor support including system and cyber security patching.

Land Mobile Radio systems are a system of systems composed of various hardware and software components. Requirements at each post/camp/station vary based on the geographic coverage area, terrain of the installation, number of end users, number of mutual aid partners, and installation dispatch concept of operations. To meet the first responder and installation non-tactical communications mission requirements, the solution at each post/camp/station is unique and determined by government surveys and coordination with stakeholders.

To optimize efficiencies, Army LMR systems are currently migrating from a stand-alone LMR system at each post/camp/station to an enterprise network model that will centralize the information system to maximize cost-effectiveness and cyber security. The LMR systems are key components of the Army enterprise used to provide a seamless communications network in support of garrison level communications and infrastructure. Without adequate communications capabilities that enable coordinated emergency response, maximize the use of scarce radio spectrum, and provide secure voice transmissions, emergency responders and base support personnel would be significantly constrained in their ability to perform key emergency response functions. This is a health, life, and safety Army requirement.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications					P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	56.052	30.761	5.209	-	5.209	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	2.200	-	2.200	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.800	-	1.800	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	56.052	30.761	9.209	-	9.209	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications	P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BU4160 / Base Support Communications	P-5a			- / 850.378	- / 56.052	- / 30.761	- / 9.209	- / -	- / 9.209
P-40	Total Gross/Weapon System Cost				- / 850.378	- / 56.052	- / 30.761	- / 9.209	- / -	- / 9.209

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 base funding in the amount of \$9.209 million will modernize and upgrade CONUS based legacy LMR systems to the Army CONUS Enterprise (ACE) LMR. Modernizes one post/camp/station in accordance with the Army's top 40 priority list for FY 2022 which is published in the 4th quarter of the prior year. This modernization will converge legacy stand-alone LMR systems at each location into the ACE LMR network.

In accordance with Sections 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72	P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications	Item Number / Title [DODIC]: BU4160 / Base Support Communications

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	850.378	56.052	30.761	9.209	-	9.209
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	850.378	56.052	30.761	9.209	-	9.209
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	850.378	56.052	30.761	9.209	-	9.209

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	28,345.933	-	-	1,841.800	-	1,841.800

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
Commercial LMR Systems ^(†)	44,092.118	17	749.566	5,621.600	5	28.108	5,459.600	5	27.298	8,302.000	1	8.302	-	-	-	8,302.000	1	8.302
Interim Contractor Support ^(†)	1,736.538	13	22.575	237.400	5	1.187	-	-	-	-	-	-	-	-	-	-	-	-
Engineering and Program Support ^(†)	12,809.500	6	76.857	2,475.000	1	2.475	2,463.000	1	2.463	907.000	1	0.907	-	-	-	907.000	1	0.907
SWA LMR Systems Site Surveys	690.000	1	0.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation Inherent Resolve ^(†)	690.000	1	0.690	12,141.000	2	24.282	1,000.000	1	1.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	850.378	-	-	56.052	-	-	30.761	-	-	9.209	-	-	-	-	-	9.209
<i>Subtotal: Hardware Cost</i>	-	-	850.378	-	-	56.052	-	-	30.761	-	-	9.209	-	-	-	-	-	9.209
Gross/Weapon System Cost	28,345.933	-	850.378	-	-	56.052	-	-	30.761	1,841.800	-	9.209	-	-	-	1,841.800	-	9.209

Remarks:

The quantity for cost element "Commercial" LMR Systems represents the number of local installations being modernized in the fiscal year, not an end item or the number of LMR systems. LMR is a commercial off-the-shelf solution that is a system of systems composed of various hardware and software components. Requirements at each post/camp/station vary based on the geographic coverage area, terrain of the installation, number of end users, number of mutual aid partners, and dispatch concept of operations. Examples include Cores, Repeaters, Dispatch Consoles, Logging Recorders, Mutual Aid Interoperability Gateways, Universal Power Supplies, System Management Terminals, Motorola Supervisory Control and Data Acquisition Clients, and Key Variable Loaders. These elements are the main cost drivers for the

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72	P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications	Item Number / Title [DODIC]: BU4160 / Base Support Communications

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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LMR system solutions. All quantities and unit costs vary based on the unique requirements at each installation and the level of effort required as a result of the Government site survey that is completed for each location. Locations are determined by a stakeholder analysis, and prioritization that is reviewed annually in accordance with current requirements, threat analysis and DoD and Army Planning Guidance.

Note: Legacy LMR systems at Army installations do not meet DoD and Army standards, are obsolete, are no longer supported by the manufacturer, and/or are non-compliant with the National Telecommunications and Information Administrations (NTIA) spectrum efficiency mandate. Power projection and power support Army installations across the CONUS and the Europe and Pacific Area of Operations rely on base support LMR systems as a primary means to support force protection, public safety, installation management, homeland security missions and non-combatant evacuation operations (NEO).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	56.052	30.761	5.209	-	5.209
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	2.200	-	2.200
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	1.800	-	1.800
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	56.052	30.761	9.209	-	9.209

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72			P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications					Item Number / Title [DODIC]: BU4160 / Base Support Communications			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Commercial LMR Systems		2020	Motorola Solutions / Columbia, MD	C / FFP	ACC RI, Rock Island, IL	Mar 2020	Sep 2020	1	16,535.242	Y		
Commercial LMR Systems		2020	L3Harris Corp / Melbourne, FL	C / FFP	ACC RI, Rock Island, IL	Dec 2020	Jun 2021	1	34.415	Y		
Commercial LMR Systems		2020	TBD / TBD	C / FFP	ACC RI, Rock Island, IL	Mar 2021	Sep 2021	1	6,760.610	Y		
Commercial LMR Systems		2020	aEonian Group LLC / Sterling, VA	C / FFP	ACC RI, Rock Island, IL	Dec 2020	Jun 2021	1	1,593.790	Y		
Commercial LMR Systems		2020	Solving Managing Securing / Dulles, VA	C / FFP	ACC RI, Rock Island, IL	Mar 2020	Sep 2020	1	407.894	Y		
Commercial LMR Systems		2021	TBD / TBD	C / FFP	ACC RI, Rock Island, IL	Mar 2021	Sep 2021	5	5,459.600	Y		
Commercial LMR Systems		2022	TBD / TBD	C / FFP	ACC RI, Rock Island, IL	Mar 2022	Sep 2022	1	8,302.000	Y		
Interim Contractor Support		2020	Cape Fox / Alexandria, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2020	Mar 2020	4	904.198	Y		
Interim Contractor Support		2020	Savantage Financial Services / Rockville, MD	C / FFP	ACC-RI, Rock Island, IL	Apr 2020	May 2020	1	283.366	Y		
Engineering and Program Support		2020	ISEC / Ft. Detrick, MD	MIPR	PEO EIS Fort Belvoir, Va	Apr 2020	May 2020	1	2,475.000	Y		
Engineering and Program Support		2021	ISEC / Ft. Detrick, MD	MIPR	PEO EIS Fort Belvoir, Va	Apr 2021	May 2021	1	2,463.000	Y		
Engineering and Program Support		2022	ISEC / Ft. Detrick, MD	MIPR	PEO EIS Fort Belvoir, VA	Apr 2022	May 2022	1	907.000	Y		
Operation Inherent Resolve	✓	2020	TribalCo LLC / Bethesda, MD	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Sep 2020	1	13,891.000	Y		
Operation Inherent Resolve	✓	2020	TBS / TBS	C / TBD	ACC-RI, Rock Island, IL	Jun 2021	Nov 2021	1	11,494.000	N		
Operation Inherent Resolve	✓	2021	TBS / TBS	C / TBD	ACC-RI, Rock Island, IL	Jun 2021	Sep 2021	1	1,000.000	N		

Remarks:
FY 2021 to FY 2022 Base Support Communications funding decreased from \$30.761M to \$9.209M due to the reduction of Army's modernization priorities to one post/camp/station annually.

All quantities of LMR equipment vary based on the unique requirements at each installation and the level of effort required as a result of the Government site survey that is completed for each location. Fluctuations in unit costs year to year for Commercial LMR Systems and ICS are based on the cost drivers and specific requirements at each post/camp/station.

All IT procurements consist of Commercial Off-The-shelf (COTS) solutions.

PEO EIS - Program Executive Office Enterprise Information Systems; LMR - Land Mobile Radio; ACC-RI - Army Contracting Command Rock Island; ISEC - Information Systems Engineering Command.

The Interim Contractor Support (ICS) provides logistics support for initial system maintenance and cyber security services related to Risk Management Framework workflow and Authority to Operate. The ICS cost element is also driven by the aforementioned cost drivers, the more equipment required at a post/camp/station for coverage and user requirements, the higher the level of effort for the ICS.

Engineering and Program Support (EPS) develops acquisition requirements, conducts site surveys, implements engineering strategies and acquires material solutions.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9200BB8650 / Information Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,927.573	208.721	162.973	219.026	-	219.026	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,927.573	208.721	162.973	219.026	-	219.026	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,927.573	208.721	162.973	219.026	-	219.026	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget line does not procure weapons systems or produce end items. All Information Technology (IT) procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site.

This program provides engineering, quality assurance, and IT infrastructure (common user voice, data, video networks) in support of Military Construction Army (MCA) and Sustainment, Restoration, and Modernization (SRM) projects. It supplies non-tactical telecommunications equipment and engineering services for Army base operations. When required due to MCA or SRM projects, this program provides upgrades to regional or Theater IT infrastructure, as well as physical plant infrastructure that directly support those IT assets. This program delivers standardized operational processes and procedures, providing the Army with consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide. In conjunction with MCA or SRM projects, this program also provides funding for organization-specific command and control IT requirements necessary to equip a new or modernized facility to a mission-ready state ahead of the physical relocation of the occupant organization.

PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION (B31510):

This program funds organization-specific mission unique command and control IT requirements necessary to relocate and equip an organization in conjunction with MCA or SRM projects. These may include specific IT requirements to facilitate connectivity from building infrastructure to end user equipment, items for classrooms, computers, video teleconferencing (VTC) systems, projectors, display/knowledge walls, telephone equipment, and other end user devices to include IT supporting classification above SECRET. This program consolidates individual organizational requirements to provide a deliberate planned programmatic approach to procure mission essential IT equipment and includes the following large scale projects.

INTELLIGENCE & SECURITY COMMAND (INSCOM): This provides for mission unique IT equipment supporting the renovation of the Nolan Building to provide Sensitive Compartmented Information Facility (SCIF) space for U.S. Army Intelligence and Security Command (INSCOM) HQ, Military Intelligence Readiness Command (MIRC), and the 1st Intelligence Operations (IO) Command. The renovation will include specialized operations space, equipment storage, classrooms, conference rooms, office and admin support, MIRC visitor control and SCIF entry port area, loading dock and material management areas.

US ARMY FUTURES COMMAND (AFC): This provides for mission unique IT equipment supporting the US Army Futures Command's Human Performance Research Laboratory to support the expanding study of Human Sciences essential to achieving Soldier and squad performance optimization. It will allow multi-disciplinary researchers to collaborate in order to perform fully integrated assessments of the cognitive, physical, and social attributes of Soldiers and squads during realistic mission scenarios in a controlled lab setting. The IT requirements will support Baseline/Readiness, Mission Planning, Resilience and Recover, and Soldier Status Monitoring laboratories, Super Computer Room, conference rooms, classrooms, and the research and administrative personnel office areas.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9200BB8650 / Information Systems
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>US ARMY PACIFIC (USARPAC) COMMAND AND CONTROL (C2) FACILITY PHASE 4: This provides for the mission unique IT requirements within the Phase 4 construction of USARPAC Headquarters/C2 Facility at Fort Shafter, Hawaii. The historical headquarters was spread across multiple historical wooden buildings that could not support modern IT requirements. Phase 4 continues the mission unique IT equipment fit-out for the Mission Command Facility (MCF) in both its Secure and Support Operations areas and for power generation, with open storage and SCIFs to carry out the USARPAC mission.</p> <p>TRAINING AND DOCTRINE COMMAND (TRADOC) CYBER CENTER OF EXCELLENCE (CCOE): This provides for the mission unique IT requirements within TRADOC's Cyber Center of Excellence (CCoE) at United States Army Garrison Fort Gordon, Georgia, to reflect the expanded Cyber roles and missions. Through a combination of Military Construction (MILCON) and Restoration & Modernization (RM) projects, TRADOC has created a state-of-the-art Cyber Campus on Fort Gordon in order to attract, train, and retain world-class cyber warriors. These projects require mission unique IT equipment and systems to complete fit-out of those facilities.</p> <p>US ARMY WAR COLLEGE (USAWC): This provides for the mission unique IT equipment requirements supporting the US Army War College's (USAWC) construction of a new primary academic facility to replace failing Root Hall and the renovation/modernization of Collins Hall, both located at Carlisle Barracks, Pennsylvania. USAWC is the singular location in the world to provide premier strategic-level Professional Military Education that produces graduates who are skilled critical thinkers and complex problem solvers in the global application of land power. USAWC educates its leaders in the study of command, leadership, and contemporary strategic doctrine, including cyber threats, irregular warfare, and terrorism.</p> <p>US ARMY CYBER COMMAND (ARCYBER): This provides for Facility Infrastructure-Mission Unique Equipment (FI-MUE) upgrades to ancillary equipment such as Heating, Ventilation, and Air Conditioning (HVAC), Computer Room Air Conditioning (CRAC), Uninterrupted Power Supply (UPS), Generators, and other power sources which are required to support the operational NETCOM-owned IT that provide installation-wide voice and data network services. This funding also provides for the IT fit-out of the new Information Systems Facilities scheduled for construction within the Future Years Development Plan (FYDP) at Joint Base Lewis/McCord, Washington; Fort Hamilton, New York; and Fort Polk, Louisiana. Additionally, it provides for the IT fit-out of four Satellite Communications (SATCOM) facilities currently under construction at Camp Roberts, California; Camp Buckner, Okinawa, Japan; Landstuhl, Germany; and Camp Humphreys, Korea.</p> <p>US ARMY MATERIEL COMMAND (AMC): This provides for mission unique IT equipment supporting US Army Materiel Command's (AMC) scheduled construction of both a new Munitions Disassembly Complex (MDC) and a Railcar Holding Area (RHA). The MDC is required to support the Explosive Ordnance Disposal Technology (EODT) Directorate which develops solutions giving the Soldier greater stand-off from Improvised Explosive Devices (IEDs) and unexploded ordnance (UXOs). The RHA project is required to increase capacity at Crane Army Ammunition Activity (CAAA) to safely and efficiently meet the current ammunition workload. The RHA project relocates the Defense Logistics Agency disposition functions outside of the munitions operation area and replaces it with a new rail holding yard. It increases CAAA's overall rail holding yard capacity, surrounding storage magazines, and eliminates the need to operate under the Certificate of Risk Acceptance (CORA) during high volume ammunition out-load operations.</p> <p>US ARMY MILITARY ACADEMY (USMA): This provides for mission unique IT equipment supporting US Military Academy scheduled construction of a premier Science, Technology, Engineering and Mathematics (STEM) educational facility that achieves compliance with academic standards. The facility is required to compete with peer institutions for recruitment of STEM students and, in particular, highly recruited under represented candidates. This funding will provide for equipping mission-critical laboratory and laboratory support spaces, guard booth, project fabrication spaces, high bay space, project display spaces, collaborative work spaces, capstone work spaces, conference rooms, all classrooms, and educational and administrative staff offices.</p> <p>US ARMY SOUTH (ARSOUTH) GUANTANAMO: This provides for the mission unique IT equipment requirements supporting US Army South (ARSOUTH) to provide legal visitation and call center facilities to support the temporary detention mission to meet current international legal standards for space and confidentiality. It also provides an adequate telecommunications center for the sending and receiving of telephonic voice service in support of the Joint Task Force (JTF) Guantanamo (GTMO) detention mission to include information technology (IT) and security requirements. This project locates detainee legal visitation within the intrusion detection system fence and facilitates closing Camp Delta.</p> <p>SOTO CANO AIR BASE AIRCRAFT MAINTENANCE HANGAR: This provides initial requirements for the mission unique IT equipment supporting the Soto Cano Air Base Aircraft Maintenance Hangar, MILCON Project #68253.</p> <p>US ARMY EUROPE (USAREUR) EUROPEAN DETERRENCE INITIATIVE (EDI): This provides for the mission unique IT equipment requirements supporting US Army Europe (USAREUR) resources to be located at sites throughout Poland that support Reception, Staging, Onward movement, and Integration (RSOI) of US ground forces from Western Europe & North America into Poland and North Central Europe.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9200BB8650 / Information Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

The build-out in Poland will be a combination of refurbishment of existing Polish facilities to meet US standards, establishment of weapons ranges and training area infrastructure, and both minor and major MILCON projects in Poland.

INFORMATION SYSTEMS (MCA SUPPORT) (BB1400):
This program provides the worldwide IT infrastructure requirements for common user voice, data, and video networks in support of the MCA Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, Unified Capabilities, common user, and physical plant infrastructure to support IT assets. It provides standardized operational processes and procedures, enabling the Army consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide.

US ARMY SOUTH (ARSOUTH) GUANTANAMO: This provides for the common user voice, data, video networks supporting US Army South (ARSOUTH) to provide legal visitation and call center facilities to support the temporary detention mission to meet current international legal standards for space and confidentiality. It also provides an adequate telecommunications center for the sending and receiving of telephonic voice service in support of the Joint Task Force (JTF) Guantanamo (GTMO) detention mission to include information technology (IT) and security requirements. This project locates detainee legal visitation within the intrusion detection system fence and facilitates closing Camp Delta.

US ARMY EUROPE (USAREUR) EUROPEAN DETERRENCE INITIATIVE (EDI): This provides the IT infrastructure requirements for common user voice, data, video networks in support of the US Army Europe (USAREUR) resources that will be located at sites throughout Poland. The resources will support Reception, Staging, Onward movement, and Integration (RSOI) of US ground forces from Western Europe and North America into Poland and North Central Europe. The build-out in Poland will be a combination of refurbishment of existing Polish facilities to meet US standards, establishment of weapons ranges and training area infrastructure, and both minor and major MILCON projects in Poland.

INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700):
This program provides the worldwide IT infrastructure requirements for common user voice, data, video networks in support of the SRM Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, Unified Capabilities, common user, and physical plant infrastructure that support IT assets. It provides standardized operational processes and procedures, enabling the Army consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide.

In accordance with Section 1815 of FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	208.721	162.973	219.026	-	219.026	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	208.721	162.973	219.026	-	219.026	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title:
 9200BB8650 / Information Systems

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION	P-5a			- / 273.904	- / 155.779	- / 123.604	- / 184.727	- / -	- / 184.727
P-5	BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)	P-5a			- / 1,624.871	- / 39.618	- / 26.127	- / 25.416	- / -	- / 25.416
P-5	BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)	P-5a			- / 1,028.798	- / 13.324	- / 13.242	- / 8.883	- / -	- / 8.883
P-40	Total Gross/Weapon System Cost				- / 2,927.573	- / 208.721	- / 162.973	- / 219.026	- / -	- / 219.026

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION (B31510):
 FY 2022 procurement dollars in the amount of \$184.727 million support PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION with procurement of commercial-off-the-shelf (COTS) end-user devices (including telephones, soft phones, video teleconferencing equipment, computing devices), associated licensing, and secure data switches, gateways, and encryption devices for classified and unclassified connectivity. It also supports information systems for classrooms, computers for traditional business users and Warfighters, video teleconferencing (VTC) systems, projectors, display/knowledge walls, secure telephone equipment, and physical plant infrastructure to support those information system assets. Procurements include network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, implementation, and completion of a multitude of MCA and SRM projects. Installation of the Mission Unique Equipment (MUE)/end user equipment is dependent upon construction timelines as it is the final phase of an MCA or SRM project and is required to ensure that new/renovated buildings are mission capable and ready for unit/Soldier occupancy. Specific breakdown of Base and EDI projects listed below:

FY 2022 Base procurement dollars in the amount of \$37.890 million supports INSCOM MUE such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, and other IT equipment.

FY 2022 Base procurement dollars in the amount of \$10.870 million supports AFC MUE such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, and other IT equipment.

FY 2022 Base procurement dollars in the amount of \$15.538 million supports USARPAC C2 Facility Phase 4 MUE such as switches, computers, phones, cabling, cameras, sound and video mixers, display panels, speakers, and other supporting IT equipment.

FY 2022 Base procurement dollars in the amount of \$34.249 million supports TRADOC CCOE MUE such as switches, encryption devices, computers, monitors, phones, printers, large screen displays, cameras, video codecs, microphones, speakers, and other supporting IT equipment.

FY 2022 Base procurement dollars in the amount of \$14.163 million supports USAWC with MUE such as switches, servers, phones, cabling, cameras, sound and video mixers, display panels, speakers, Intrusion Detection System (IDS) and other IT equipment.

FY 2022 Base procurement dollars in the amount of \$35.155 million supports ARCYBER Facility Infrastructure (FI) MUE such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, and other IT equipment.

FY 2022 Base procurement dollars in the amount of \$17.441 million supports AMC MUE such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, Electronic Security System (ESS) installation, Intrusion Detection Systems (IDS) installation, and other IT equipment.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9200BB8650 / Information Systems
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2022 Base procurement dollars in the amount of \$1.123 million supports AMC MUE such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, and other IT equipment.</p> <p>FY 2022 Base procurement dollars in the amount of \$0.576 million supports USMA MUE such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, and other IT equipment.</p> <p>FY 2022 Base procurement dollars of \$2.100 million supports ARSOUTH Guantanamo Bay MUE such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, and other IT equipment to support the Enduring Requirement for Operation Guantanamo Bay (GTMO).</p> <p>FY 2022 Base procurement dollars in the amount of \$0.061 million supports Soto Cano Air Base Aircraft Maintenance Hangar MUE such phones and cabling.</p> <p>FY 2022 Base procurement dollars in the amount of \$15.561 million supports USAREUR with MUE for command and control (C2) in order to carry out the directives of OPLAN 4020 and to support the Enduring Requirement for Operation European Defense Initiative (EDI).</p> <p>INFORMATION SYSTEMS (MCA SUPPORT) (BB1400): FY 2022 procurement dollars in the amount of \$25.416 million supports IT infrastructure with Unified Capability voice/data switches, common user network transport infrastructure, end-user instruments (including telephones, soft phones, video teleconferencing equipment or computing devices), associated licensing, training range connectivity which may include long runs of fiber optics cable, and secure data switches, gateways and encryption devices for classified network connectivity. This funding also procures the network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, and implementation of IT requirements associated with MCA projects. Funding is required to ensure that these projects have all necessary IT infrastructure and equipment for soldier readiness of the facilities. Specific breakdown of Base and EDI projects listed below:</p> <p>FY 2022 Base procurement dollars in the amount of \$14.099 million supports Active Army, Army Reserves and National Guard with common user NIPR, SIPR, other IT services and equipment.</p> <p>FY 2022 Base procurement dollars of \$4.034 million supports ARSOUTH Guantanamo Bay with common user NIPR, SIPR, other IT services and equipment. This requirement supports the Enduring Requirement for Operation Guantanamo Bay (GTMO).</p> <p>FY2022 Base procurement dollars in the amount of \$7.283 million support USAREUR with common user NIPR, SIPR and other IT services and equipment required for command and control (C2) in order to carry out the directives of Operation Plan (OPLAN) 4020. This requirement supports the Enduring Requirement for Operation European Defense Initiative (EDI).</p> <p>INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700): FY 2022 Base procurement dollars in the amount of \$8.883 million supports SRM projects with Unified Capability voice/data switches; common user network transport infrastructure; end-user instruments which include telephones, soft phones, video teleconferencing equipment or computing devices; associated licensing; training range connectivity which may include long runs of fiber optics cable; and, secure data switches, gateways and encryption devices for classified network connectivity. This funding also procures the network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, and implementation of Information Systems requirements. This program ensures these projects have all necessary IT infrastructure and equipment for soldier readiness of the facilities.</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT- MCA/PHYSICAL RELOCATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	273.904	155.779	123.604	184.727	-	184.727
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	273.904	155.779	123.604	184.727	-	184.727
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	273.904	155.779	123.604	184.727	-	184.727

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
Proponent/Mission IT Hardware ^(†)	174,492.000	1	174.492	12,125.000	1	12.125	-	-	-	-	-	-	-	-	-	-	-	-
GTMO Detention Legal Complex ^(†)	3,000.000	1	3.000	-	-	-	-	-	-	2,100.000	1	2.100	-	-	-	2,100.000	1	2.100
GTMO Unaccompanied Housing/High Value Detainee Facility/NOC Facility/Detention Facility	5,750.000	1	5.750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USARPAC C2 Facility Phase 3 ^(†)	4,324.000	1	4.324	20,028.000	1	20.028	-	-	-	-	-	-	-	-	-	-	-	-
USFK BCTC/OPS SCIFs ^(†)	-	-	-	30,000.000	1	30.000	-	-	-	-	-	-	-	-	-	-	-	-
INSCOM Secure Admin/Operations Facility Incr 3 ^(†)	75,296.000	1	75.296	23,218.000	1	23.218	-	-	-	37,890.000	1	37.890	-	-	-	37,890.000	1	37.890
TRADOC Battle Lab/Moran/Allen ^(†)	-	-	-	14,387.000	1	14.387	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM EDI ^(†)	-	-	-	22,400.000	1	22.400	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
USARPAC C2 Facility Phase 4 ^(†)	-	-	-	-	-	-	21,333.000	1	21.333	15,538.000	1	15.538	-	-	-	15,538.000	1	15.538
TRADOC CCOE ^(†)	-	-	-	-	-	-	65,930.000	1	65.930	34,249.000	1	34.249	-	-	-	34,249.000	1	34.249
USAREUR EDJ ^(†)	-	-	-	-	-	-	4,787.000	1	4.787	15,561.000	1	15.561	-	-	-	15,561.000	1	15.561
Army War College Root Hall ^(†)	-	-	-	8,200.000	1	8.200	6,003.000	1	6.003	14,163.000	1	14.163	-	-	-	14,163.000	1	14.163
ARCYBER FI-MUE ^(†)	11,042.000	1	11.042	25,421.000	1	25.421	25,135.000	1	25.135	35,155.000	1	35.155	-	-	-	35,155.000	1	35.155
USAMC ^(†)	-	-	-	-	-	-	416.000	1	0.416	17,441.000	1	17.441	-	-	-	17,441.000	1	17.441
AFC ^(†)	-	-	-	-	-	-	-	-	-	10,870.000	1	10.870	-	-	-	10,870.000	1	10.870
AMC ^(†)	-	-	-	-	-	-	-	-	-	1,123.000	1	1.123	-	-	-	1,123.000	1	1.123
USMA ^(†)	-	-	-	-	-	-	-	-	-	576.000	1	0.576	-	-	-	576.000	1	0.576
SOTO CANO Aircraft Hangar ^(†)	-	-	-	-	-	-	-	-	-	61.000	1	0.061	-	-	-	61.000	1	0.061
<i>Subtotal: Non Recurring Cost</i>	-	-	273.904	-	-	155.779	-	-	123.604	-	-	184.727	-	-	-	-	-	184.727
<i>Subtotal: Hardware Cost</i>	-	-	273.904	-	-	155.779	-	-	123.604	-	-	184.727	-	-	-	-	-	184.727
Gross/Weapon System Cost	-	-	273.904	-	-	155.779	-	-	123.604	-	-	184.727	-	-	-	-	-	184.727

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	155.779	123.604	184.727	-	184.727
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	155.779	123.604	184.727	-	184.727

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9200BB8650 / Information Systems				Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Proponent/Mission IT Hardware		2020	Various / Various	C / FFP	Various	May 2020	Jul 2020	1	12,125.000	Y		Apr 2020
GTMO Detention Legal Complex		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	May 2022	1	2,100.000	N		
USARPAC C2 Facility Phase 3		2020	Various / Various	C / FFP	Various	Apr 2020	Jun 2020	1	20,028.000	Y		
USFK BCTC/OPS SCIFs		2020	Various / Various	C / FFP	Various	May 2020	Jul 2020	1	30,000.000	Y		
INSCOM Secure Admin/Operations Facility Incr 3		2020	Various / Various	C / FFP	Various	Mar 2020	May 2020	1	23,218.000	Y		
INSCOM Secure Admin/Operations Facility Incr 3		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	May 2022	1	37,890.000	N		
TRADOC Battle Lab/Moran/Allen		2020	Various / Various	C / FFP	Various	May 2020	Jul 2020	1	14,387.000	Y		
EUCOM EDI		2020	Various / Various	C / FFP	Various	May 2020	Jul 2020	1	22,400.000	Y		
USARPAC C2 Facility Phase 4		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jun 2021	1	21,333.000	Y		
USARPAC C2 Facility Phase 4		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jun 2022	1	15,538.000	N		
TRADOC CCOE		2021	Various / Various	C / FFP	Various	Dec 2020	Feb 2021	1	65,930.000	Y		
TRADOC CCOE		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2022	Jul 2022	1	34,249.000	N		
USAREUR EDI	✓	2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2021	Jul 2021	1	4,787.000	Y		
USAREUR EDI		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2022	Jul 2022	1	15,561.000	N		
Army War College Root Hall		2020	Various / Various	C / FFP	Various	May 2020	Jun 2020	1	8,200.000	Y		
Army War College Root Hall		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2021	Jul 2021	1	6,003.000	Y		
Army War College Root Hall		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2022	Jul 2022	1	14,163.000	N		
ARCYBER FI-MUE		2020	Various / Various	C / FFP	Various	Apr 2020	Jun 2020	1	25,421.000	Y		
ARCYBER FI-MUE		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jun 2021	1	25,135.000	Y		
ARCYBER FI-MUE		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jun 2022	1	35,155.000	N		
USAMC		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jun 2021	1	416.000	Y		
USAMC		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2022	Jul 2022	1	17,441.000	N		
AFC		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2022	Jul 2022	1	10,870.000	N		
AMC		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jun 2022	1	1,123.000	N		
USMA		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2022	Jul 2022	1	576.000	N		
SOTO CANO Aircraft Hangar		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Jun 2022	Aug 2022	1	61.000	N		

Remarks:

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site.
 ACC-RI - Army Contracting Command-Rock Island; ACC-APG - Army Contracting Command-Aberdeen Proving Ground; NAVAIR - Naval Air Systems Command; NAWCAD - Naval Air Warfare Center Aircraft Division; USPFO(P&C) - United States Property and Fiscal Office (Purchasing and Contracting); DISA/DITCO - Defense Information Systems Agency/Defense Information Technology Contracting Organization; USACE - U.S. Army Corps of Engineers; MICC - U.S. Army Mission and Installation Contracting Command.

FY20 Contracts:

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION
<p>Advanced Computer Concepts Inc, McLean VA, NAWCAD Procurement Group Patuxent River MD, \$8,198 Affigent LLC, Herndon VA, ACC-APG Ft Huachuca AZ, \$152 Alexander Machine & Tool Company Inc, Woburn MA, NAWCAD Procurement Group Patuxent River MD, \$3,856 American Engineering Association, Ginawan Japan, FA5270 18 CONS LGC Kadena AB Japan, \$4 American Word Data Inc, Tampa FL, NAWCAD Procurement Group Patuxent River MD, \$4,523 Aranea Solutions Inc, Reston VA, ACC-APG Aberdeen MD, \$2,070 BAE Systems Technology Solutions & Serv, Rockville MD, NAVAIR Aircraft Division-PAX River Patuxent River MD, \$8,198 BAE Systems Technology Solutions & Serv, Rockville MD, NAWCAD Procurement Group Patuxent River MD, \$775 Booz Allen Hamilton Inc, McLean VA, NAVAIR Aircraft Division Pax River Patuxent River MD, \$5,655 CACI Inc-Federal, Chantilly VA, GSA/FEDSIM Acquisition Washington DC, \$1,844 CDW Government LLC, Vernon Hills IL, NAWCAD-Lakehurst Joint Base McGuire-Dix-Lakehurst NJ, \$10,527 Creative Times Dayschool Inc, Ogden UT, Tucson Resident Office Tucson AZ, \$2,096 Elite Technologies & Communications Inc, Brookville PA, MICC Ft Bragg NC, \$267 Evergreen Fire Alarms LLC, Tacoma WA, US Army Engineering Center & Support Center Huntsville AL, \$1,684 Firelake Construction Inc, Lenexa KS, 918th Contracting Battalion Ft Carson CO, \$179 GDIT, Fairfax VA, ACC-APG Huachuca Division Ft Huachuca AZ, \$154 General Dynamics Information Technology Inc, Westwood MA, ACC-RI Rock Island IL, \$613 General Dynamics Information Technology Inc, Taunton MA, ACC-APG Aberdeen, MD, \$1,385 Government Acquisitions Inc, Cincinnati OH, ACC-APG Ft Huachuca AZ, \$251 Government Acquisitions Inc, Cincinnati OH, USPFO(P&C)-WA Tacoma WA, \$127 Government Acquisitions Inc, Cincinnati OH, USPFO(P&C) MN Camp Riley Little Falls MN, \$411 IAP Worldwide Services Inc, Cape Canaveral FL, ACC-RI Rock Island IL, \$263 IBM, Bethesda MD, MICC-West Point West Point NY, \$52 ID Technologies LLC, Ashburn VA, USPFO(P&C) MO Jefferson City MO, \$100 Industries for the Blind and Visually Impaired, West Allis WI, NAWCAD-Lakehurst Joint Base McGuire-Dix-Lakehurst NJ, \$94 Iron Bow Technologies LLC, Herndon VA, ACC-APG Ft Huachuca AZ, \$3,035 M.C. Dean Inc, Tysons VA, US Army Engineering Center & Support Center Huntsville AL, \$2,000 M.C. Dean Inc, Tysons VA, DISA/DITCO Scott Air Force Base IL, \$609 National Contracting Services LLC, Louisville KY, ACC-RI Rock Island IL, \$1,330 NCI Information Systems Inc, Reston VA, ACC-APG-Huachuca Division Ft Huachuca AZ, \$11,638 NCI Information Systems Inc, Reston VA, ACC-INSCOM Ft Belvoir VA, \$52,827 Parsons Government Services Inc., Pasadena CA, USACE-Huntsville Huntsville AL, \$681 Sterling Computers Corporation, North Sioux City SD, NAWCAD Procurement Group Patuxent River MD, \$3,856 UEC Electronics LLC, Hanahan SC, NAVWAR-NIWC Atlantic North Charleston SC, \$56 UNICOM Government Inc, Chantilly VA, US Army Engineering & Support Center Huntsville AL, \$487 UNICOM Government Inc, Chantilly VA, MICC-Ft. Irwin Ft Irwin CA, \$20 World Wide Technology LLC, St. Louis MO, USPFO(P&C) CO Aurora CO, \$232 FY21 Contracts: AV3 Inc, Mechanicsville MD, MICC Ft. Eustis VA, \$7,914</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73		P-1 Line Item Number / Title: 9200BB8650 / Information Systems
		Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,624.871	39.618	26.127	25.416	-	25.416
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,624.871	39.618	26.127	25.416	-	25.416
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,624.871	39.618	26.127	25.416	-	25.416

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
MCA Spt-Telephone Switch ^(†)	8,635.533	15	129.533	1,745.000	1	1.745	2,645.000	1	2.645	2,095.000	1	2.095	-	-	-	2,095.000	1	2.095
MCA Spt-Switch Upgrades ^(†)	285.210	62	17.683	250.000	1	0.250	299.000	1	0.299	338.000	1	0.338	-	-	-	338.000	1	0.338
MCA Spt-Telephone System ^(†)	165.919	62	10.287	125.000	1	0.125	149.000	1	0.149	164.000	1	0.164	-	-	-	164.000	1	0.164
MCA Spt-LAN Transport System ^(†)	607.339	59	35.833	2,300.000	1	2.300	2,998.000	1	2.998	2,513.000	1	2.513	-	-	-	2,513.000	1	2.513
MCA Spt-Range Connectivity ^(†)	1,443.667	15	21.655	1,800.000	1	1.800	1,998.000	1	1.998	2,308.000	1	2.308	-	-	-	2,308.000	1	2.308
MCA Spt-Secure Data/ Encryption Devices ^(†)	948.778	18	17.078	2,150.000	1	2.150	3,998.000	1	3.998	3,542.000	1	3.542	-	-	-	3,542.000	1	3.542
MCA Spt-Engineering Svcs ^(†)	19,387.600	5	96.938	2,156.000	1	2.156	2,865.000	1	2.865	2,350.000	1	2.350	-	-	-	2,350.000	1	2.350
Phys Plant Infrastructure Spt IS Assets ^(†)	1,384.660	3	4.154	1,780.000	1	1.780	685.000	1	0.685	799.000	1	0.799	-	-	-	799.000	1	0.799
MCA	1,291,710.000	1	1,291.710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USARCENT ARIFJAN MCF Remediation ^(†)	-	-	-	7,712.000	1	7.712	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
USARCENT COOP/ Theater Black Core Network ^(†)	-	-	-	19,600.000	1	19.600	-	-	-	-	-	-	-	-	-	-	-	-
USAREUR EDI ^(†)	-	-	-	-	-	-	10,490.000	1	10.490	7,283.000	1	7.283	-	-	-	7,283.000	1	7.283
ARSOUTH Guantanamo ^(†)	-	-	-	-	-	-	-	-	-	4,024.000	1	4.024	-	-	-	4,024.000	1	4.024
<i>Subtotal: Non Recurring Cost</i>	-	-	1,624.871	-	-	39.618	-	-	26.127	-	-	25.416	-	-	-	-	-	25.416
<i>Subtotal: Hardware Cost</i>	-	-	1,624.871	-	-	39.618	-	-	26.127	-	-	25.416	-	-	-	-	-	25.416
Gross/Weapon System Cost	-	-	1,624.871	-	-	39.618	-	-	26.127	-	-	25.416	-	-	-	-	-	25.416

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	39.618	26.127	25.416	-	25.416
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	39.618	26.127	25.416	-	25.416

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9200BB8650 / Information Systems					Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MCA Spt-Telephone Switch		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	1,745.000	Y		
MCA Spt-Telephone Switch		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	2,645.000	Y		
MCA Spt-Telephone Switch		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	2,095.000	N		
MCA Spt-Switch Upgrades		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	250.000	Y		
MCA Spt-Switch Upgrades		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	299.000	Y		
MCA Spt-Switch Upgrades		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	338.000	N		
MCA Spt-Telephone System		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	125.000	Y		
MCA Spt-Telephone System		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	149.000	Y		
MCA Spt-Telephone System		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	164.000	N		
MCA Spt-LAN Transport System		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	2,300.000	Y		
MCA Spt-LAN Transport System		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	2,998.000	Y		
MCA Spt-LAN Transport System		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	2,513.000	N		
MCA Spt-Range Connectivity		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	1,800.000	Y		
MCA Spt-Range Connectivity		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	1,998.000	Y		
MCA Spt-Range Connectivity		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	2,308.000	N		
MCA Spt-Secure Data/Encryption Devices		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	2,150.000	Y		
MCA Spt-Secure Data/Encryption Devices		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	3,998.000	Y		
MCA Spt-Secure Data/Encryption Devices		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	3,542.000	N		
MCA Spt-Engineering Svcs		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	2,156.000	Y		
MCA Spt-Engineering Svcs		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	2,865.000	Y		
MCA Spt-Engineering Svcs		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	2,350.000	N		
Phys Plant Infrastructure Spt IS Assets		2020	Various / Various	C / FFP	Various	Mar 2020	Jun 2020	1	1,780.000	Y		
Phys Plant Infrastructure Spt IS Assets		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2021	Jun 2021	1	685.000	Y		
Phys Plant Infrastructure Spt IS Assets		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	Jun 2022	1	799.000	N		
USARCENT ARIFJAN MCF Remediation		2020	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2021	Sep 2021	1	7,712.000	N		
USARCENT COOP/Theater Black Core Network		2020	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2021	Sep 2021	1	19,600.000	N		
USAREUR EDI	✓	2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jul 2021	1	10,490.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9200BB8650 / Information Systems				Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
USAREUR EDI		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jul 2022	1	7,283.000	N		
ARSOUTH Guantamo		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Feb 2022	Apr 2022	1	4,024.000	N		

Remarks:

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site.
 ACC-RI - Army Contracting Command-Rock Island; ACC-APG - Army Contracting Command-Aberdeen Proving Ground; MICC - Army Mission and Installation Contracting Command; USPFO(P&C) - United States Property and Fiscal Office (Purchasing and Contracting); GSA/FEDSIM - General Services Administration/Federal Systems Integration and Management Center.

FY20 Contracts:

- Affigent LLC, Herndon VA, USPFO(P&C) NC, Raleigh NC, \$135
- CACI Inc-Federal, Chantilly VA, GSA/FEDSIM Acquisition Washington DC, \$104
- Compunet Inc, Meridian ID, State of Idaho Division of Purchasing Boise ID, \$26
- General Dynamics Information Technology Inc, Fairfax VA, ACC-APG Ft Huachuca AZ, \$992
- Government Acquisitions Inc, Cincinnati OH, USPFO (P&C) WA Tacoma WA, \$19
- ID Technologies LLC, Ashburn VA, ACC-APG Ft Huachuca AZ, \$210
- Iron Bow Technologies LLC, Herndon VA, MICC-JBLM Joint Base Lewis-McChord WA, \$100
- NCI Information Systems Inc, Reston VA, ACC-APG Ft Huachuca AZ, \$34
- Synergy Solutions Inc, Oak Ridge TN, ACC-RI Rock Island IL, \$1,693
- Telos Corporation, Ashburn VA, ACC-RI Rock Island IL, \$1,204
- Unicom Government Inc, Chantilly VA, 413th Contracting Support Brigade Regional Contracting Office-Hawaii, Schofield Barracks HI, \$50
- Wildflower International LTD, Santa Fe NM, ACC-RI Rock Island IL, \$57
- Zivaro Inc, Denver CO, ACC-APG Ft. Huachuca AZ, \$103

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73		P-1 Line Item Number / Title: 9200BB8650 / Information Systems
		Item Number / Title [DODIC]: BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,028.798	13.324	13.242	8.883	-	8.883
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,028.798	13.324	13.242	8.883	-	8.883
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,028.798	13.324	13.242	8.883	-	8.883

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
Sustain/Restore/Modernize (SRM) HW ^(†)	257,199.500	4	1,028.798	13,324.000	1	13.324	13,242.000	1	13.242	8,883.000	1	8.883	-	-	-	8,883.000	1	8.883
Subtotal: Non Recurring Cost	-	-	1,028.798	-	-	13.324	-	-	13.242	-	-	8.883	-	-	-	-	-	8.883
Subtotal: Hardware Cost	-	-	1,028.798	-	-	13.324	-	-	13.242	-	-	8.883	-	-	-	-	-	8.883
Gross/Weapon System Cost	-	-	1,028.798	-	-	13.324	-	-	13.242	-	-	8.883	-	-	-	-	-	8.883

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	13.324	13.242	8.883	-	8.883
Total: Secondary Distribution	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	13.324	13.242	8.883	-	8.883

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9200BB8650 / Information Systems				Item Number / Title [DODIC]: BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Sustain/Restore/Modernize (SRM) HW		2020	NCI Information Systems Inc. / Reston, VA	C / FFP	ACC-INSCOM, Ft. Belvoir, VA	May 2020	Jul 2020	1	13,324.000	Y		
Sustain/Restore/Modernize (SRM) HW		2021	TBS / TBS	C / FFP	CHESS, Ft Belvoir, VA	May 2021	Jul 2021	1	13,242.000	Y		
Sustain/Restore/Modernize (SRM) HW		2022	TBS / TBS	C / FFP	CHESS, Ft. Belvoir, VA	May 2022	Jul 2022	1	8,883.000	N		

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. CHESS - Computer Hardware Enterprise Software and Solutions. ACC-INSCOM - Army Contracting Command-Army Intelligence and Security Command.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9666BU8000 / Emergency Management Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	170.923	4.854	-	4.875	-	4.875	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	170.923	4.854	-	4.875	-	4.875	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	170.923	4.854	-	4.875	-	4.875	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Emergency Management Modernization Program (EM2P) was a single integrated acquisition program for the design, procurement, fielding, new equipment training, and life-cycle management of emergency management capabilities in support of Army installations, Soldiers and their Families, civilians, and contractors. EM2P provided capabilities that increased situational awareness, decreased responder time, and allowed for quicker warning and notification of personnel during the management of an active incident. EM2P consisted of Enterprise Mass Warning and Notification (EMWN) technologies (ATHOC), Enhanced 911 (E911) solutions and Computer Aided Dispatch (CAD) capability (fielding beginning in FY20).

CAD is a central hub capable of dispatching law enforcement/fire/medical services. CAD is integrated with Automated Installation Entry (AIE), Enterprise Mass Warning and Notification (EMWN), and law enforcement (LE) authoritative data sources as well as with local civilian CAD and civilian LE authoritative data sources. CAD is a technical software/hardware system which assists dispatchers, call-takers, and 911 operators in tracking, monitoring and rapid dispatching of first responders using geographic information system (GIS) mobile technology, pre-programmed protocols getting the nearest responders quickest to critical incidents, while maintaining records of these responses. CAD is a system used by dispatchers and first responders to log, track, dispatch and assign calls for service. CAD is required to be an enterprise solution and must be interoperable with other Base Emergency Communications Systems (BECS) systems which include Land Mobile Radio (LMR), EMWN, NG911, and FirstNet.

Currently, various locally procured Computer Aided Dispatch (CAD) systems are being used on Army installations posing cybersecurity risks and are not in compliance with Army Regulation (AR) 70-1, Army Acquisition Policy, as some systems are not accredited and are vulnerable to cyber threats. CAD systems on Army installations do not fully integrate with Enhanced 911 and other emergency services like Land Mobile Radio. Many do not have the capability to digitally communicate reports of incidents, location, situational information, and background information by interfacing with authoritative informational data sources and providing enterprise level situational awareness/information sharing to assist military and civilian law enforcement, fire and medical. This causes delays in dispatch and response times, increased risk to property and personnel, and resource management constraints. The desired CAD capability will provide secure and reliable digital communications to assist military and civilian emergency personnel with emergency management operations. A standardized CAD system procured and implemented on an enterprise level will reduce the loss of life and property, increase situational awareness and improve reporting and analysis of incidents. CAD systems reduce the loss of life and property by automating incident creation and minimizing dispatch and response times as identified in the Fort Hood Army Internal Review. The system also improves situational awareness by sharing information from authoritative data sources (i.e. communications systems, law enforcement databases, etc.) with military and civilian first responders.

Additionally, CAD allows for real time asset management, tracking the location and status of individual assets (personnel and equipment) which provides a superior real time common operating picture throughout the entire incident lifecycle. This data can be used during or after the incident, providing forensics of key performance indicators. Furthermore this data improves future manpower modeling based on calls for service tracked within the CAD system. The monetary return on investment is based on a scalable solution that takes into consideration the size and scope of the installation mission set, this will provide a cost effective strategy.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9666BU8000 / Emergency Management Modernization Program
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

Note: CAD capabilities are currently employed in a fragmented operational, training and sustainment environment and are managed at the individual installation level. CONUS and Outside the Continental US (OCONUS) installations have historically procured non-standard equipment with closed architecture and proprietary software. In accordance with AR 70-1, the CAD capability must use a System of Systems approach that leverages aspects of the Chief Information Officer (CIO)/G-6, Assistant Secretary of the Army for Acquisition, Logistics and Technology (ASA (ALT)), Common Operating Environment (COE) Architecture and the DOD IT Strategy Roadmap. This will allow for a standardized, scalable and common technical solution across diverse installation sizes with the ability to integrate and interoperate with all BECS capabilities.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.854	-	4.875	-	4.875	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.854	-	4.875	-	4.875	-	-	-	-

Justification:
FY 2022 Base procurement funding in the amount of \$4.875 million supports Computer Aided Dispatch (CAD) capability fielding. The CAD capability leverages a System of Systems approach that integrates e911, NG911, and other Base Emergency Communications Systems (BECS), Land Mobile Radio (LMR) and EMWN. Funding will also procure the Hardware/Software required to provide secure and reliable digital communications to assist military and civilian emergency personnel with emergency management operations.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9674B33000 / Home Station Mission Command Centers (HSMCC)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	11	5	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	44.502	47.174	15.227	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	44.502	47.174	15.227	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	44.502	47.174	15.227	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	4,045.636	9,434.800	-	-	-	-	-	-	-	-	-	-

Description:

This funding line is directly aligned to the Army Network Modernization Strategy LOE 3, Interoperability and LOE 4, Command Post. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy

The Home Station Mission Command Center (HSMCC) is a suite of standardized capabilities utilized at Corps, Division and Theater Headquarters that allows expeditionary mission command during all operational phases. HSMCC provides the physical infrastructure (5 conference rooms + 1 Sensitive Compartmented Information Facility) that supports Distributive Mission Command. HSMCC will enable units to execute a variety of required missions, such as Defense Support to Civil Authorities, Training and Readiness, Preparing and Deploying regionally aligned forces from Home Station, and Senior Commander Functions. Advances in network capability, telepresence tools and remote collaboration provide the technical foundation for the HSMCCs reach-forward and reach-back capabilities. HSMCC provides control and enables the mission command warfighting function by providing a secure, integrated, standards-based environment that ensures uninterrupted global access and enables collaboration and decisive action throughout all operational phases across all environments. The Mission Partner Environment stack supports CONUS/OCONUS Command and Control (C2) training for Joint, Coalition interoperability across a Multiple Domain Battlespace, creating a virtual environment for commanders before the fight.

Mission Partner Environment (MPE) enables Army units to establish an enduring and episodic, tactical and strategic network that allows US Army units to train, integrate, and fight in any theater regardless of the theater's current security classification with participating Unified Action Partner(s) (UAP). MPE enables seamless network integration to establish information sharing for Joint All Domain Command and Control (JADC2) and Common Operational Picture (COP) needs with our Coalition Partners to support the Joint Force in the rapid and continuous integration of all domains of warfare - land, sea, air, space, and cyberspace - to deter and prevail against near-peer adversaries, and fight and win if deterrence fails. MPE Tactical network capability will include Tactical Network Extension Packages, Enterprise Solutions and Network Operations, capabilities provided by Program Executive Office Command Control Communications Tactical (PEO C3T).

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	3	-	-	-	-	-	-	-
	Total Obligation Authority	27.174	15.227	-	-	-	-	-	-
ANG	Quantity	2	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9674B33000 / Home Station Mission Command Centers (HSMCC)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	20.000	-	-	-	-	-	-	-	-
Total:	Quantity	5	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	47.174	15.227	-	-	-	-	-	-	-

Justification:

B33000 has no FY2022 funding request.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9683B80000 / Joint Information Environment (JIE)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	3.177	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	3.177	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	3.177	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line supports the Army Network Modernization Strategy, Line of Effort 1B, Network Enabling Functions.

The Joint Regional Security Stack (JRSS) program acquires NIPRNet and SIPRNet boundary infrastructure hardware and software. This infrastructure enables transition of the Army network from the Army NIPRNet Gateways and SIPRNet Command and Control (C2) Control Nodes to a common, standard DoD multi-protocol label switching architecture, enabling inter- and intra-agency network management and defensive operations. All information technology (IT) procurements consist of Commercial/Government Off The Shelf (COTS/GOTS) solutions; all quantities and unit costs vary by system configuration and site.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.177	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.177	-	-	-	-	-	-	-

Justification:

B80000 has no FY2022 funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,540.175	341.314	343.724	223.001	-	223.001	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,540.175	341.314	343.724	223.001	-	223.001	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,540.175	341.314	343.724	223.001	-	223.001	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	454,017.500	-	-	-	-	-	-	-	-	-	-	-

Description:

Description:

This program supports the Army's Network Modernization Strategy Line of Effort #1 Unified Network, by replacing obsolete communications equipment, converging disparate segments of the current enterprise architecture, standardization of existing networks, and increasing interoperability among joint users and coalition partners. The end state is to provide reliable communications transport options for the Army to enable information dominance across Multi-Domain Operations. This program prepares installations to leverage future advanced modernization capabilities such as the Synthetic Training Environment (STE) and commercial cloud capabilities.

BU0500 / Installation Information Infrastructure Modernization Program (I3MP):

I3MP modernization efforts include site surveys, engineering design, integration, hardware, and information technology for classified and unclassified communications. I3MP procures and installs network equipment (e.g. routers, switches, fiber optic cable, and telephones) to enable audio/visual, voice communications, data, and internet. This program modernizes the Army network by replacing legacy and obsolete technologies to ensure the Army can maintain secure, cyber vulnerability free, communications transport throughput and bandwidth capacity to satisfy projected Army operational demands.

This program provides the necessary infrastructure to enable Unified Capabilities (UC), the Joint Information Environment (JIE), cloud services, Synthetic Training Environment (STE), and enables the convergence of several separate voice, video and data networks to reduce management and maintenance costs. This line addresses seven overarching modernization efforts: Installation Campus Area Networks (ICAN), Voice over Internet Protocol (VoIP), Inside Plant (ISP), Outside Plant (OSP), Secure Internet Protocol Router (SIPR) Network Modernization, Non-Secure Internet Protocol Router (NIPR) Network Modernization, and Multiprotocol Labeling Switch (MPLS) upgrades.

Installations require different degrees of investment and vary in complexity of requirements such as geographic coverage area, terrain of the installation, number of users, the state of the existing infrastructure and evolving operational requirements, which vary from Combatant Command (COCOM) to COCOM. Modernization efforts may also include power & HVAC, manhole & ducting, and backup power. As a result, all quantities and unit costs vary by system configuration and site.

BU0510 / I3MP-Europe:

I3MP-Europe installs and modernizes the classified and unclassified networks at multiple locations across Europe in support of the European Deterrence Initiative (EDI).

BU0520 / I3MP-Pacific:

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

I3MP-Pacific installs and modernizes the classified and unclassified networks at multiple locations across Indo-Pacific in support of the Joint Information Environment (JIE).

BU0530 / I3MP-CONUS:
I3MP-CONUS installs and modernizes the classified and unclassified networks at multiple locations across the Americas Area Of Responsibility (AOR) to include CONUS installations and Soto Cano, Honduras. This line also supports OCONUS locations, the ongoing Yongsan garrison to Camp Humphreys per the Yongsan Relocation Plan/Land Partnership Plan (YRP/LPP) and European Deterrence Initiatives (EDI).

B00540 / I3MP-SWA:
I3MP-SWA installs and modernizes the classified and unclassified networks at multiple locations across Southwest Asia supporting multiple operations including Operation Spartan Shield (OSS), Operation Inherent Resolve (OIR), and Operation Freedom Sentinel (OFS). In FY21 the Army will begin transitioning from contingency operations to enduring bases and must build capabilities that are flexible and transportable to support the entire Southwest Asia Area of Responsibility (AOR).

BU2000 / Terrestrial Transmission (TT):
The Terrestrial Transmission program provides hardware modernization for the Army's Special Access Program Enterprise Portal (ASEP). This is a Top Secret / Secured Compartmented Information (TS/SCI) accredited network supporting operational intelligence and acquisitions for Special Access Programs (SAPs). It also continues the upgrade of power, timing, and alarm systems for the European Transmission Systems. The Army Special Access Program Enterprise Portal (ASEP) is the Army's only Top Secret compartmented wide area network providing a secure communications capability (email, video, teleconferencing, document storage/sharing, voice over internet protocol and instant messaging) for the transmission of highly classified Special Access Required (SAR) information between the Army Operations Center (AOC), the Army staff, Army Commands, Army Service Component Commands, Army SAPs and Army Sensitive Activities (SAs).

BU3610 / World Wide Technical Control Improvement Program (WWTCIP):
The World Wide Technical Control Improvement Program (WWTCIP) continues to initiate, improve, expand, and automate the Army's Technical Control Facilities (TCFs) with a more efficient capability to monitor communications networks and perform the restoral activities required to have an uninterrupted, assured, and protected communications which enable critical warfighting and sustainment functions. These upgrades provide the end user with greater bandwidth for high quality voice, data, video, enabling real time response, and restoral actions to minimize communications outages. It also provides configuration management and implements Information Assurance (IA) controls for the modernized TCFs. The program supports Outside the Continental United States (OCONUS) Theater Combatant Commander's communications, Continental United States (CONUS) power projection bases, and Defense Satellite Communications Systems. WWTCIP provides the means for technical control personnel to gain full use of the supporting communication resources available through the expansion and automation of the Army's TCF worldwide. The program provides power, timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interface, and appropriate test equipment with associated hardware in support of the Soldier, to enable information dominance and ensure robust communications worldwide.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	341.314	343.724	223.001	-	223.001	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	341.314	343.724	223.001	-	223.001	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B00540 / I3MP- SWA	P-5a			- / -	- / 57.630	- / 36.368	- / 35.448	- / -	- / 35.448
P-5	BU0510 / I3MP - Europe	P-5a			- / 943.538	- / 10.465	- / 4.041	- / 39.154	- / -	- / 39.154
P-5	BU0520 / I3MP - Pacific	P-5a			- / 299.972	- / -	- / 4.012	- / 17.879	- / -	- / 17.879
P-5	BU0530 / I3MP - CONUS	P-5a			10 / 2,249.533	- / 262.944	- / 285.489	- / 122.013	- / -	- / 122.013
P-5	BU2000 / TERRESTRIAL TRANSMISSION	P-5a			- / 77.069	- / 1.673	- / 1.692	- / 1.706	- / -	- / 1.706
P-5	BU3610 / WW Tech Con Imp Prog (WWTCIP)	P-5a			- / 970.063	- / 8.602	- / 12.122	- / 6.801	- / -	- / 6.801
P-40	Total Gross/Weapon System Cost				- / 4,540.175	- / 341.314	- / 343.724	- / 223.001	- / -	- / 223.001

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Justification:

BU0510 / I3MP-Europe:

FY2022 Base procurement dollars in the amount of \$17.790 million support the holistic and targeted modernization of Installation Campus Area Networks (ICAN), Outside Plant (OSP), NIPR and SIPR modernization efforts in the U.S. European Command (EUCOM) theater.

FY2022 Base procurement dollars in the amount of \$21.364 million support Enduring Requirement for Operation in European Deterrence Initiative (BEDI).

FY2021 began the realignment of the EUCOM requirements from I3MP-CONUS (BU0530) to I3MP-Europe (BU0510). This was a geographical realignment of program requirements, not a new start.

BU0520 / I3MP-Pacific:

FY2022 Base procurement dollars in the amount of \$17.879 million support the holistic and targeted modernization of Installation Campus Area Networks (ICAN), Outside Plant (OSP), NIPR and SIPR modernization efforts in the U.S. Indo-Pacific (PACOM) theater.

FY2021 began the realignment of the US Indo-Pacific requirements from I3MP-CONUS (BU0530) to I3MP-Pacific (BU0520). This was a geographical realignment of program requirements, not a new start.

BU0530 / I3MP-CONUS:

FY2022 Base procurement dollars in the amount of \$122.013 million support the holistic and targeted modernization of Installation Campus Area Networks (ICAN), Outside Plant (OSP), NIPR and SIPR modernization in CONUS and OCONUS. It procures the end-to-end dependencies needed to deliver worldwide network modernization to Army installations. IT modernizations support the Army G3/5/7 direction of modernizing Army priority Posts, Camps and Stations as well as Army G6 priority based on network gaps at 22 CONUS locations. Funds also support the relocation and modernization of network equipment from Yongsan garrison to Camp Humphreys per the Yongsan Relocation Plan/Land Partnership Plan (YRP/LPP).

B00540 / I3MP-SWA:

FY2022 BASE procurement dollars in the amount of \$8.079 million supports the SWA TCF Resiliency Buildout in Buehring, Jordon TCF Buildout, ADA PAT Site ISP/OSP Upgrade, SWA THN Landing Site Buildout, Theater Blackcore Resiliency, and the CPN-X Network Installation.

FY2022 BASE procurement dollars in the amount of 27.369 million supports the holistic and targeted modernization of Installation Campus Area Networks (ICAN), Outside Plant (OSP), NIPR and SIPR modernization efforts. This requirement supports the Enduring Requirement for Operation Spartan Shield (OSS) in Southwest Asia theater.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>BU2000 / Terrestrial Transmission (TT): FY2022 Base procurement dollars in the amount of \$1.706 million support technology refresh (Routers, Switches, Servers, Monitors, etc.) of 10 sites to maintain operational effectiveness, information assurance requirements and to replace obsolete system components of the Army's Special Access Program Enterprise Portal (ASEP)</p> <p>BU3610 / World Wide Tech Control Improvement (WWTCIP): FY2022 Base procurement dollars in the amount of \$6.801 million support one Technical Control Facility (TCF) located in Germany. Funding provides power alternating current and direct current (AC/DC), uninterruptible power supply (UPS) and backup generator, timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interfaces, and appropriate test equipment with associated hardware.</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: B00540 / I3MP- SWA
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	57.630	36.368	35.448	-	35.448
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	57.630	36.368	35.448	-	35.448
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	57.630	36.368	35.448	-	35.448

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
SWA TACLANE Replacement ^(†)	-	-	-	19,230.000	1	19.230	-	-	-	-	-	-	-	-	-	-	-	-
USFOR-A Critical OSP/ISP Remediation ^(†)	-	-	-	12,000.000	1	12.000	-	-	-	-	-	-	-	-	-	-	-	-
Service DeliveryNode Modernization ^(†)	-	-	-	3,100.000	1	3.100	-	-	-	-	-	-	-	-	-	-	-	-
Kandahar Airfield (KAF) Service ^(†)	-	-	-	2,500.000	1	2.500	-	-	-	-	-	-	-	-	-	-	-	-
CJTF-OIR OSP/ISP (Taj) ^(†)	-	-	-	20,800.000	1	20.800	-	-	-	-	-	-	-	-	-	-	-	-
ADA PAT Site ISP/OSP Remediation ^(†)	-	-	-	-	-	-	5,000.000	1	5.000	-	-	-	-	-	-	-	-	-
Baghdad Diplomatic Support Center TCF Remediation ^(†)	-	-	-	-	-	-	10,200.000	1	10.200	-	-	-	-	-	-	-	-	-
CJOA-A C4I Transport Refresh ^(†)	-	-	-	-	-	-	8,791.000	1	8.791	-	-	-	-	-	-	-	-	-
Tier 1 TCF Data Network Modernization ^(†)	-	-	-	-	-	-	8,300.000	1	8.300	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: B00540 / I3MP- SWA
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
SWA Network Modernization ^(t)	-	-	-	-	-	-	4,077.000	1	4.077	35,448.000	1	35.448	-	-	-	35,448.000	1	35.448
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	57.630	-	-	36.368	-	-	35.448	-	-	-	-	-	35.448
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	57.630	-	-	36.368	-	-	35.448	-	-	-	-	-	35.448
Gross/Weapon System Cost	-	-	-	-	-	57.630	-	-	36.368	-	-	35.448	-	-	-	-	-	35.448

Remarks:

Costs for each installation varies based on existing infrastructure, modernization requirements, geographical location, and number of users. Quantities reflect total cost by Cost Element rather than by individual IT components.

The FY22 funding increase in SWA Network Modernization represents a geographic realignment of funds from the BU0530 / I3MP - CONUS BLIN to B00540 / I3MP SWA BLIN, corresponding to the regional theater where the work is performed, and does not represent growth in the program.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	57.630	36.368	35.448	-	35.448
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	57.630	36.368	35.448	-	35.448

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: B00540 / I3MP- SWA
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SWA TACLANE Replacement	✓	2020	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Mar 2020	Apr 2020	1	10,294.000	Y		
SWA TACLANE Replacement	✓	2020	CDW Government LLC / Vernon Hills, IL	C / FFP	408TH CSB - Kuwait, Kuwait, AE	Aug 2020	Sep 2020	0	8,936.000	Y		
USFOR-A Critical OSP/ISP Remediation	✓	2020	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Jul 2020	1	3,500.000	Y		
USFOR-A Critical OSP/ISP Remediation	✓	2020	Tyto Athene, LLC / Herndon, VA	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Jul 2020	0	8,500.000	Y		
Service DeliveryNode Modernization	✓	2020	World Wide Technology, LLC / Saint Louis, MO	C / FFP	408TH CSB - Kuwait, Kuwait, AE	Mar 2020	Apr 2020	1	3,100.000	Y		
Kandahar Airfield (KAF) Service	✓	2020	TBD / TBD	C / FFP	408TH CSB - Kuwait, Kuwait, AE	Sep 2020	Oct 2020	1	906.000	Y		
Kandahar Airfield (KAF) Service		2020	World Wide Technology, LLC / Saint Louis, MO	C / FFP	408TH CSB - Kuwait, Kuwait, AE	Sep 2020	Oct 2020	0	1,594.000	Y		
CJTF-OIR OSP/ISP (Taji)	✓	2020	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Mar 2020	Apr 2020	1	20,800.000	Y		
ADA PAT Site ISP/OSP Remediation	✓	2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	5,000.000	N		
Baghdad Diplomatic Support Center TCF Remediation	✓	2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Feb 2021	Mar 2021	1	10,200.000	N		
CJOA-A C4I Transport Refresh	✓	2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Feb 2021	Mar 2021	1	8,791.000	N		
Tier 1 TCF Data Network Modernization	✓	2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	8,300.000	N		
SWA Network Modernization		2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	4,077.000	Y		
SWA Network Modernization		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2022	Feb 2022	1	35,448.000	N		
SWA Network Modernization	✓	2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2022	Feb 2022	0	0.000	N		

Remarks:
Costs for each installation varies based on existing infrastructure, modernization requirements, geographical location, and number of users. Quantities reflect total cost by Cost Element rather than by individual IT components.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0510 / I3MP - Europe

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		943.538	10.465	4.041	39.154	-	39.154
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		943.538	10.465	4.041	39.154	-	39.154
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		943.538	10.465	4.041	39.154	-	39.154
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
ERI Operation Atlantic Resolve (OAR) Network	-	-	668.901	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shelterized Tech Comm Facilities	-	-	78.385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Protocol Packet Label Switching SW Asia	-	-	192.752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM Mission Partner Environment upgrades ^(†)	-	-	-	3,102.000	1	3.102	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM Network upgrades to support rotation of Army units ^(†)	-	-	-	5,802.000	1	5.802	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM Defense Threat Reduction Network upgrades ^(†)	-	-	-	1,561.000	1	1.561	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM Network Upgrades ^(†)	3,500.000	1	3.500	-	-	-	4,041.000	1	4.041	39,154.000	1	39.154	-	-	-	39,154.000	1	39.154
<i>Subtotal: Non Recurring Cost</i>	-	-	943.538	-	-	10.465	-	-	4.041	-	-	39.154	-	-	-	-	-	39.154
<i>Subtotal: Hardware Cost</i>	-	-	943.538	-	-	10.465	-	-	4.041	-	-	39.154	-	-	-	-	-	39.154

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73						P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program						Item Number / Title [DODIC]: BU0510 / I3MP - Europe					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	943.538	-	-	10.465	-	-	4.041	-	-	39.154	-	-	-	-	-	39.154

Remarks:

Costs for each installation varies based on existing infrastructure, modernization requirements, geographical location, and number of users. Quantities reflect total cost by Cost Element rather than by individual IT components.

The FY22 funding increase in EUCOM Network Upgrades represents a geographic realignment of funds from the BU0530 / I3MP - CONUS BLIN to BU0510 / I3MP Europe, corresponding to the regional theater where the work is performed, and does not represent growth in the program.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	10.465	4.041	39.154	-	39.154
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	10.465	4.041	39.154	-	39.154

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0510 / I3MP - Europe
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
EUCOM Mission Partner Environment upgrades		2020	TBD / TBD	C / FFP	RCO Wiesbaden, WIESBADEN Germany	Dec 2020	Jan 2021	1	2,905.000	Y		
EUCOM Mission Partner Environment upgrades		2020	CDW Government, LLC / Vernon Hills, IL	C / FFP	RCO Wiesbaden, WIESBADEN Germany	Jun 2020	Jun 2020	0	197.000	Y		
EUCOM Network upgrades to support rotation of Army units	✓	2020	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Mar 2020	Apr 2020	1	573.000	Y		
EUCOM Network upgrades to support rotation of Army units		2020	CDW Government, LLC / Vernon Hills, IL	C / FFP	RCO Wiesbaden, WIESBADEN Germany	Aug 2020	Oct 2020	0	739.000	Y		
EUCOM Network upgrades to support rotation of Army units		2020	Wildflower International, LTD / Santa Fe, NM	C / FFP	RCO Wiesbaden, WIESBADEN Germany	Sep 2020	Nov 2020	0	4,490.000	Y		
EUCOM Defense Threat Reduction Network upgrades	✓	2020	MC Dean Inc / Tysons, VA	C / FFP	DISA, DITCO, Scott AFB, IL	Sep 2020	Sep 2020	1	1,561.000	Y		
EUCOM Network Upgrades		2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	4,041.000	N		
EUCOM Network Upgrades		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2022	Feb 2022	1	39,154.000	N		
EUCOM Network Upgrades	✓	2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2022	Feb 2022	0	0.000	N		

Remarks:

ACC-RI - Army Contracting Command Rock Island. Commercial-Off-The-Shelf (COTS) products will be procured via Indefinite Delivery Indefinite Quantity (IDIQ) contracts that provide continuous vendor competition for best value and consolidation of requirements to maximize cost avoidance and leverage the Army's buying power.

Costs for each installation varies based on existing infrastructure, modernization requirements, geographical location, and number of users. Quantities reflect total cost by Cost Element rather than by individual IT components.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0520 / I3MP - Pacific

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	299.972	-	4.012	17.879	-	17.879
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	299.972	-	4.012	17.879	-	17.879
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	299.972	-	4.012	17.879	-	17.879

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
Pacific Network Modernization ^(t)	-	-	299.972	-	-	-	4,012.000	1	4.012	17,879.000	1	17.879	-	-	-	17,879.000	1	17.879
<i>Subtotal: Non Recurring Cost</i>	-	-	299.972	-	-	-	-	-	4.012	-	-	17.879	-	-	-	-	-	17.879
<i>Subtotal: Hardware Cost</i>	-	-	299.972	-	-	-	-	-	4.012	-	-	17.879	-	-	-	-	-	17.879
Gross/Weapon System Cost	-	-	299.972	-	-	-	-	-	4.012	-	-	17.879	-	-	-	-	-	17.879

Remarks:

The FY22 funding increase in Pacific Network Modernization represents a geographic realignment of funds from the BU0530 / I3MP - CONUS BLIN to BU0520 / I3MP Pacific BLIN, corresponding to the regional theater where the work is performed, and does not represent growth in the program.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	4.012	17.879	-	17.879
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	4.012	17.879	-	17.879

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0520 / I3MP - Pacific
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Pacific Network Modernization		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Nov 2021	Dec 2021	1	17,879.000	N		

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	10	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,249.533	262.944	285.489	122.013	-	122.013
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,249.533	262.944	285.489	122.013	-	122.013
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,249.533	262.944	285.489	122.013	-	122.013

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	224,953.300	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
NETMOD-C Hardware	23,026.500	4	92.106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YRP/LPP ^(†)	18,948.250	4	75.793	7,300.000	3	21.900	9,700.000	1	9.700	5,355.000	1	5.355	-	-	-	5,355.000	1	5.355
IT Modernization Hardware ^(†)	68,539.250	4	274.157	21,884.750	4	87.539	80,259.000	1	80.259	43,970.000	1	43.970	-	-	-	43,970.000	1	43.970
IT Modernization Engineering/ Implementation ^(†)	389,902.250	4	1,559.609	9,645.556	9	86.810	115,094.000	1	115.094	72,688.000	1	72.688	-	-	-	72,688.000	1	72.688
THAAD Infrastructure	9,750.000	2	19.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD-Europe ^(†)	3,149.000	2	6.298	2,695.000	1	2.695	39,188.000	1	39.188	-	-	-	-	-	-	-	-	-
ATM SONET ^(†)	24,446.000	1	24.446	1,125.000	4	4.500	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD-Pacific ^(†)	17,664.000	1	17.664	45,500.000	1	45.500	4,905.000	1	4.905	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>2,069.573</i>	<i>-</i>	<i>-</i>	<i>248.944</i>	<i>-</i>	<i>-</i>	<i>249.146</i>	<i>-</i>	<i>-</i>	<i>122.013</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>122.013</i>
Non Recurring Cost																		
OAR NETWORK	-	-	2.499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD Afghanistan	12,300.000	1	12.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USFOR-A OSP/ISP Remediation	12,155.000	1	12.155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CJTF-OIR OSP/ISP Remediation	3,050.000	2	6.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD Kuwait	3,497.000	1	3.497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
NETMOD Buehring	570.000	1	0.570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyber JUONS ST-007	11,741.000	1	11.741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JRSS Hardware/ Implementation	8,900.000	1	8.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATLANTIC RESOLVE (AR) NETWORK	9,050.000	1	9.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Korea Ethernet Microwave Modernization ^(†)	-	-	-	5,000.000	1	5.000	-	-	-	-	-	-	-	-	-	-	-	-
SIPR-O Modernization ^(†)	-	-	-	3,000.000	3	9.000	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD Europe OCO ^(†)	-	-	-	-	-	-	36,343.000	1	36.343	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	66.812	-	-	14.000	-	-	36.343	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	2,136.385	-	-	262.944	-	-	285.489	-	-	122.013	-	-	-	-	-	122.013
Support - Program Management Cost																		
Government Management	56,574.000	2	113.148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	113.148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	224,953.300	10	2,249.533	-	-	262.944	-	-	285.489	-	-	122.013	-	-	-	-	-	122.013

Remarks:

Costs for each installation varies based on existing infrastructure, modernization requirements, geographical location, and number of users. Quantities reflect total cost by Cost Element rather than by individual IT components.

The FY22 decrease in funding to the IT Modernization Hardware Cost Element, is directly tied to the Army's priority to modernize failing Time Division Multiplexing (TDM) voice networks. In FY20 and FY 21, this cost element was increased to address critical TDM efforts. TDM efforts will be ongoing in FY22 based on the Army's Voice Modernization priorities. FY22 funding profile has returned to the funding levels prior to the FY20 and FY21 TDM increases.

The FY22 decrease in funding to the IT Modernization Engineering/ Implementation Cost Element, is directly tied to the Army's priority to modernize failing Time Division Multiplexing (TDM) voice networks. In FY20 and FY 21, this cost element was increased to address critical TDM efforts. TDM efforts will be ongoing in FY22 based on the Army's Voice Modernization priorities. The FY22 funding profile has returned to the funding levels prior to the FY20 and FY21 TDM increases.

The FY22 funding decrease in NETMOD Europe represents a geographic realignment of funds from the BU0530 / I3MP - CONUS BLIN to BU0520 / I3MP Pacific BLIN, corresponding to work being performed in the European AOR.

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Exhibit P-5, Cost Analysis: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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The FY22 funding decrease in NETMOD Pacific represents a geographic realignment of funds from the BU0530 / I3MP - CONUS BLIN to BU0520 / I3MP Pacific BLIN, corresponding to work being performed in the Indo-Pacific AOR.

The FY22 funding decrease in NETMOD Europe OCO represents a geographic realignment of funds from the BU0530 / I3MP - CONUS BLIN to BU0520 / I3MP Pacific BLIN, corresponding to work being performed in the European AOR.

		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution						
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	262.944	285.489	122.013	-	122.013
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	262.944	285.489	122.013	-	122.013

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
YRP/LPP		2020	TBD / TBD	C / CPFF	ACC-RI, Rock Island, IL	May 2020	Jun 2020	1	13,903.000	Y		
YRP/LPP		2020	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Apr 2020	May 2020	1	7,336.000	N		
YRP/LPP		2020	World Wide Technology / Maryland Heights, MO	C / FFP	ACC-RI, Rock Island, IL	Aug 2020	Sep 2020	1	661.000	N		
YRP/LPP		2021	TBD / TBD	C / CPFF	ACC-RI, Rock Island, IL	Nov 2020	Dec 2020	1	9,700.000	N		
YRP/LPP		2022	TBD / TBD	C / CPFF	ACC-RI, Rock Island, IL	Nov 2021	Dec 2021	1	5,355.000	N		
IT Modernization Hardware		2020	Various / Various	C / FFP	ACC-RI, Rock Island, IL	Dec 2019	Jan 2020	1	52,304.000	Y		
IT Modernization Hardware		2020	Wildflower / Sante Fe, NM	C / FFP	ACC-RI, Rock Island, IL	Nov 2019	Dec 2019	1	21,827.000	Y		
IT Modernization Hardware		2020	Tobyhanna Army Depot / Mechanicsburg, PA	MIPR	PEO EIS, Fort Belvoir, VA	Apr 2020	May 2020	1	3,694.000	Y		
IT Modernization Hardware		2020	URS Federal Services Inc. / Germantown, MD	C / FFP	ACC-RI, Rock Island, IL	Mar 2020	Apr 2020	1	11,278.000	N		
IT Modernization Hardware		2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Dec 2020	Jan 2021	1	80,259.000	N		
IT Modernization Hardware		2022	TBD / Various	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	1	43,970.000	N		
IT Modernization Engineering/ Implementation		2020	VAE Inc / Reston, VA	C / FFP	ACC-RI, Rock Island, IL	Mar 2020	Apr 2020	1	4,209.000	Y		
IT Modernization Engineering/ Implementation		2020	Various / Various	C / Various	ACC-RI, Rock Island, IL	Dec 2019	Jan 2020	1	8,112.000	N		
IT Modernization Engineering/ Implementation		2020	General Dynamics / Westwood, MA	C / CPFF	ACC-RI, Rock Island, IL	Apr 2020	May 2020	1	29,145.000	Y		
IT Modernization Engineering/ Implementation		2020	AT&T / Oakton, TX	C / FFP	ACC-RI, Rock Island, IL	Sep 2020	Oct 2020	1	296.000	N		
IT Modernization Engineering/ Implementation		2020	NISGA'A TEK, LLC / Herdon, VA	C / FFP	ACC-RI, Rock Island, IL	Apr 2020	May 2020	1	22,738.000	Y		
IT Modernization Engineering/ Implementation		2020	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Dec 2019	Dec 2020	1	4,670.000	N		
IT Modernization Engineering/ Implementation		2020	General Dynamics / Fairfax, VA	C / FFP	ACC-APG, Fort Huachuca, AZ	Mar 2020	Apr 2020	1	656.000	N		
IT Modernization Engineering/ Implementation		2020	OCTO Consulting Group, Inc. / Reston, VA	C / FFP	ACC-RI, Rock Island, IL	Nov 2019	Dec 2019	1	6,071.000	N		
IT Modernization Engineering/ Implementation		2020	Department of Interior / Herndon, VA	MIPR	PEO EIS, Fort Belvoir, VA	Dec 2019	Jan 2020	1	2,208.000	N		
IT Modernization Engineering/ Implementation		2020	URS Federal Services Inc. / Germantown, MD	C / FFP	ACC-RI, Rock Island, IL	Apr 2020	May 2020	0	8,705.000	Y		
IT Modernization Engineering/ Implementation		2021	Various / Various	C / Various	ACC-RI, Rock Island, IL	Oct 2020	Nov 2020	1	115,094.000	N		
IT Modernization Engineering/ Implementation		2022	Various / Various	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	1	72,688.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
NETMOD-Europe		2020	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	May 2020	Jul 2020	1	2,695.000	Y		
NETMOD-Europe		2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Oct 2020	Nov 2020	1	39,188.000	Y		
ATM SONET		2020	Various / Various	C / FFP	ACC-RI, Rock Island, IL	Apr 2020	May 2020	1	214.000	N		
ATM SONET		2020	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Apr 2020	May 2020	1	2,100.000	N		
ATM SONET		2020	Iron Bow / Chantilly, VA	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Jul 2020	1	1,528.000	N		
ATM SONET		2020	Wildflower / Sante Fe, NM	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Jul 2020	1	658.000	N		
NETMOD-Pacific		2020	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Jul 2020	Aug 2020	0	508.000	Y		
NETMOD-Pacific		2020	TBD / Various	C / FFP	ACC-RI, Rock Island, IL	May 2020	Jul 2020	1	37,879.000	Y		
NETMOD-Pacific		2020	General Dynamics / Westwood, MA	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Jul 2020	0	2,208.000	Y		
NETMOD-Pacific		2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Nov 2020	Dec 2020	1	4,905.000	N		
Korea Ethernet Microwave Modernization		2020	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Mar 2020	Apr 2020	1	5,000.000	Y		
SIPR-O Modernization		2020	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Mar 2020	Apr 2020	1	3,902.000	Y		
SIPR-O Modernization		2020	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Jul 2020	1	2,900.000	Y		
SIPR-O Modernization		2020	Tribalco LLC / Bethesda, MD	C / FFP	ACC-RI, Rock Island, IL	Jun 2020	Jul 2020	1	2,198.000	N		
NETMOD Europe OCO	✓	2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	36,343.000	Y		

Remarks:
Costs for each installation varies based on existing infrastructure, modernization requirements, geographical location, and number of users. Quantities reflect total cost by Cost Element rather than by individual IT components.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU2000 / TERRESTRIAL TRANSMISSION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	77.069	1.673	1.692	1.706	-	1.706
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	77.069	1.673	1.692	1.706	-	1.706
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	77.069	1.673	1.692	1.706	-	1.706

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Furnish Bill of Material, Install, and Test ^(†)	77,069.000	1	77.069	1,673.000	1	1.673	1,692.000	1	1.692	1,706.000	1	1.706	-	-	-	1,706.000	1	1.706
<i>Subtotal: Recurring Cost</i>	-	-	77.069	-	-	1.673	-	-	1.692	-	-	1.706	-	-	-	-	-	1.706
<i>Subtotal: Hardware Cost</i>	-	-	77.069	-	-	1.673	-	-	1.692	-	-	1.706	-	-	-	-	-	1.706
Gross/Weapon System Cost	-	-	77.069	-	-	1.673	-	-	1.692	-	-	1.706	-	-	-	-	-	1.706

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	-	-	-	-	-
Total:	1.673	1.692	1.706	-	1.706
Secondary Distribution	-	-	-	-	-
Total Obligation Authority	1.673	1.692	1.706	-	1.706

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program				Item Number / Title [DODIC]: BU2000 / TERRESTRIAL TRANSMISSION				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Furnish Bill of Material, Install, and Test		2020	TBD / TBD	C / BPA	PEO EIS, CHESS, Fort Belvoir, VA	Mar 2020	Apr 2020	1	1,673.000	Y		
Furnish Bill of Material, Install, and Test		2021	TBD / TBD	C / BPA	PEO EIS, CHESS, Fort Belvoir, VA	Jan 2021	Mar 2021	1	1,692.000	N		
Furnish Bill of Material, Install, and Test		2022	TBD / TBD	C / BPA	PEO EIS, CHESS, Fort Belvoir, VA	Jan 2022	Feb 2022	1	1,706.000	Y		

Remarks:
 Purchase is for Commercial Off the Shelf (COTS) equipment.
 Program Executive Office, Enterprise Information Systems (PEO EIS)
 Computer Hardware, Enterprise Software and Solutions (CHESS)

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	970.063	8.602	12.122	6.801	-	6.801
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	970.063	8.602	12.122	6.801	-	6.801
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	970.063	8.602	12.122	6.801	-	6.801

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Program Management Administration	208,282.000	1	208.282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	208.282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Technical Control Facility ^(†)	9,216.000	2	18.432	4,673.000	1	4.673	5,959.000	1	5.959	4,881.000	1	4.881	-	-	-	4,881.000	1	4.881
Engineer, Install & Test ^(†)	369,392.000	2	738.784	3,929.000	1	3.929	793.000	1	0.793	1,920.000	1	1.920	-	-	-	1,920.000	1	1.920
<i>Subtotal: Non Recurring Cost</i>	-	-	757.216	-	-	8.602	-	-	6.752	-	-	6.801	-	-	-	-	-	6.801
<i>Subtotal: Hardware Cost</i>	-	-	965.498	-	-	8.602	-	-	6.752	-	-	6.801	-	-	-	-	-	6.801
Logistics Cost																		
Recurring Cost																		
Mobile Technical Control Facility ^(†)	4,565.000	1	4.565	-	-	-	5,370.000	1	5.370	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	4.565	-	-	-	-	-	5.370	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics Cost</i>	-	-	4.565	-	-	-	-	-	5.370	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	970.063	-	-	8.602	-	-	12.122	-	-	6.801	-	-	-	-	-	6.801

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Remarks:
FY22 decrease in funding is due to lack of OCO allocation as compared with FY21.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	8.602	12.122	6.801	-	6.801
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	8.602	12.122	6.801	-	6.801

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Technical Control Facility		2020	ISEC / Fort Huachuca, AZ	C / FFP	PEO EIS, Fort Belvoir, VA	Jul 2020	Sep 2020	1	4,673.000	N		
Technical Control Facility		2021	PM DCATS / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	5,959.000	N		
Technical Control Facility		2022	Various / Various	C / FFP	ACC-RI, Rock Island, IL	Jan 2022	Feb 2022	1	4,881.000	N		
Engineer, Install & Test		2020	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2019	Nov 2019	1	3,929.000	N		
Engineer, Install & Test		2021	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2020	Nov 2020	1	793.000	N		
Engineer, Install & Test		2022	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2021	Nov 2021	1	1,920.000	N		
Mobile Technical Control Facility	✓	2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	5,370.000	N		

Remarks:
 WWTCIP procurements consist of COTS/GOTS products.

 PEO EIS - Program Executive Office, Enterprise Information Systems; PM DCATS - Project Manager, Defense Communications and Army Transmission Systems; ACC-RI - Army Contracting Command-Rock Island; ISEC - Information Systems Engineering Command

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9522V29600 / JTT/CIBS-M
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	342.511	7.686	5.304	5.463	-	5.463	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	342.511	7.686	5.304	5.463	-	5.463	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	342.511	7.686	5.304	5.463	-	5.463	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	780.429	-	780.429	-	-	-	-	-	-

Description:

The Joint Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports all of the Joint Services and Special Operations Command (SOCOM). The IBS is the worldwide Department of Defense (DoD) standard network enterprise for transmitting time-sensitive tactical intelligence and targeting data to all echelons of Joint Service operational Users. The JPO's role is to coordinate modernization and sustainment of IBS terminals interoperable with the Ultra High Frequency Satellite Communications (UHF SATCOM) IBS broadcasts in support of Air and Missile Defense, Long Range Precision Fires, Soldier Lethality, and Network Command, Control, Communications and Intelligence Cross Functional Teams and Tactical Intelligence Targeting Access Node. The JTT is the official IBS producer system and ensures continued IBS interoperability to a variety of tactical producers/consumers across the Joint Services. JPO IBS Terminals performs JTT life cycle program management through acquisition, fielding support and sustainment of JTT equipment. The JPO coordinates support as needed for the IBS networks that employ Communication Security (COMSEC), a Common Interactive Broadcast (CIB), and the Common Message Format (CMF). Funds support integration and qualification of a modernized JTT non-developmental item, JTT sustainment planning, sustainment coordination, training and fielding support.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.686	5.304	5.463	-	5.463	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.686	5.304	5.463	-	5.463	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:** 9522V29600 / JTT/CIBS-M

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	V29600 / JTT/CIBS-M				- / 342.511	- / 7.686	- / 5.304	- / 5.463	- / -	- / 5.463
P-40	Total Gross/Weapon System Cost				- / 342.511	- / 7.686	- / 5.304	- / 5.463	- / -	- / 5.463

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement in the amount of \$5.463 million supports the completion of activities for the JTT initial low rate production hardware procurement (base unit, transceiver and man-portable variants) to include qualification, integration and configuration management. Funding also supports transition to organic sustainment, engineering and logistics support, technical data and fielding support documentation.

The approved Army Acquisition Objective is 994 units.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army													Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80						P-1 Line Item Number / Title: 9522V29600 / JTT/CIBS-M						Item Number / Title [DODIC]: V29600 / JTT/CIBS-M						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				342.511		7.686		5.304		5.463		-		5.463				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				342.511		7.686		5.304		5.463		-		5.463				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				342.511		7.686		5.304		5.463		-		5.463				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		780.429		-		780.429				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
JTT Low Rate Production Units	625.000	8	5.000	-	-	1.320	175.000	2	0.350	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	5.000	-	-	1.320	-	-	0.350	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
JTT Component integration/engineering	-	-	158.062	-	-	2.150	-	-	1.049	-	-	1.400	-	-	-	-	-	1.400
JTT Organic Hardware Depot Start up	-	-	9.950	-	-	0.021	-	-	0.030	-	-	0.449	-	-	-	-	-	0.449
IBS Spare Parts Support	4,332.257	35	151.629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding and Training prep/Documentation	-	-	-	-	-	2.109	-	-	1.420	-	-	0.700	-	-	-	-	-	0.700
<i>Subtotal: Non Recurring Cost</i>	-	-	319.641	-	-	4.280	-	-	2.499	-	-	2.549	-	-	-	-	-	2.549
<i>Subtotal: Hardware Cost</i>	-	-	324.641	-	-	5.600	-	-	2.849	-	-	2.549	-	-	-	-	-	2.549
Software Cost																		
Recurring Cost																		
JTT Organic Software Depot	-	-	-	-	-	0.318	-	-	0.515	-	-	0.893	-	-	-	-	-	0.893
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.318	-	-	0.515	-	-	0.893	-	-	-	-	-	0.893
<i>Subtotal: Software Cost</i>	-	-	-	-	-	0.318	-	-	0.515	-	-	0.893	-	-	-	-	-	0.893
Support - Program Management Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9522V29600 / JTT/CIBS-M	Item Number / Title [DODIC]: V29600 / JTT/CIBS-M
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Government Management	-	-	17.870	-	-	1.060	-	-	1.095	-	-	1.114	-	-	-	-	-	1.114
<i>Subtotal: Support - Program Management Cost</i>	-	-	17.870	-	-	1.060	-	-	1.095	-	-	1.114	-	-	-	-	-	1.114
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	-	-	-	0.708	-	-	0.845	-	-	0.907	-	-	-	-	-	0.907
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	0.708	-	-	0.845	-	-	0.907	-	-	-	-	-	0.907
Gross/Weapon System Cost	-	-	342.511	-	-	7.686	-	-	5.304	780.429	-	5.463	-	-	-	780.429	-	5.463

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	7.686	5.304	5.463	-	5.463
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	7.686	5.304	5.463	-	5.463

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	6	-	6	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	8.081	39.240	-	39.240	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	8.081	39.240	-	39.240	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	8.081	39.240	-	39.240	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	6,540.000	-	6,540.000	-	-	-	-	-	-

Description:

Terrestrial Layer System (TLS) provides Army maneuver forces integrated full spectrum Signals Intelligence (SIGINT), Electronic Warfare (EW), and Cyber-enabling non-kinetic offensive operation options to Brigade Combat Team (BCT) and other unit commanders. TLS' information superiority provides Indications and Warnings, Force Protection and Situational Awareness to influence the commander's decision cycle, improve targeting timeliness and accuracy, and provide the maneuver commander with electronic attack and offensive cyber warfare options to deny, degrade, disrupt, or otherwise manipulate the targeted force. TLS employs technologically advanced systems with a modular open-system approach for multiple operation configurations that can be efficiently sustained and effectively upgraded to provide capabilities against changing near peer and emerging threats to address multi-domain capability gaps.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	6	-	6	-	-	-
	Total Obligation Authority	-	8.081	39.240	-	39.240	-	-	-
Total: Secondary Distribution	Quantity	-	-	6	-	6	-	-	-
	Total Obligation Authority	-	8.081	39.240	-	39.240	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	B97610 / TERRESTRIAL LAYER SYSTEM BCT	P-5a, P-21			- / -	- / -	- / 8.081	6 / 39.240	- / -	6 / 39.240
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / 8.081	6 / 39.240	- / -	6 / 39.240

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 B97610 Base procurement funding in the amount of \$39.240 million supports the production, fielding and initial sparing of six Terrestrial Layer Systems to meet the Army's accelerated directive of First Unit Equipped (FUE) in FY 2022. Additionally, funding supports Systems Engineering and Technical Assistance (SETA) personnel to conduct acquisition and testing documentation development, and other activities that will enable the program to progress through Mid-Tier Acquisition activities and will support TLS production contract management.

All funding is for the Active component.

Army Acquisition Objective (AAO): TBD

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)	Item Number / Title [DODIC]: B97610 / TERRESTRIAL LAYER SYSTEM BCT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	6	-	6
Gross/Weapon System Cost (\$ in Millions)	-	-	8.081	39.240	-	39.240
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	8.081	39.240	-	39.240
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	8.081	39.240	-	39.240

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	6,540.000	-	6,540.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Long Lead Components	-	-	-	-	-	-	-	-	7.553	-	-	8.373	-	-	-	-	-	8.373
TLS System Production ^(†)	-	-	-	-	-	-	-	-	-	4,563.667	6	27.382	-	-	-	4,563.667	6	27.382
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	2.543	-	-	-	-	-	2.543
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	7.553	-	-	38.298	-	-	-	-	-	38.298
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	7.553	-	-	38.298	-	-	-	-	-	38.298
Logistics Cost																		
Recurring Cost																		
Fielding/Training/ Depot Support	-	-	-	-	-	-	-	-	-	-	-	0.580	-	-	-	-	-	0.580
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.580	-	-	-	-	-	0.580
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.580	-	-	-	-	-	0.580
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	-	-	-	0.528	-	-	0.362	-	-	-	-	-	0.362
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	0.528	-	-	0.362	-	-	-	-	-	0.362
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	8.081	6,540.000	6	39.240	-	-	-	6,540.000	6	39.240

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)	Item Number / Title [DODIC]: B97610 / TERRESTRIAL LAYER SYSTEM BCT

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	6	-	6
	Total Obligation Authority	-	8.081	39.240	-	39.240
Total: Secondary Distribution	Quantity	-	-	6	-	6
	Total Obligation Authority	-	8.081	39.240	-	39.240

(t) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)				Item Number / Title [DODIC]: B97610 / TERRESTRIAL LAYER SYSTEM BCT					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
TLS System Production ^(†)		2022	TBD / TBD	C / FFP	APG, MD	Dec 2021	Jul 2022	6	4,563.667	N		

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80										P-1 Line Item Number / Title: 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)										Item Number / Title [DODIC]: B97610 / TERRESTRIAL LAYER SYSTEM BCT				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022													Fiscal Year 2023													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

TLS System Production																												0						
1	2022	ARMY		6	0	6			A	-	-	-	-	-	-	-	-	3	3															0

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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)
		Item Number / Title [DODIC]: B97610 / TERRESTRIAL LAYER SYSTEM BCT

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - TBD	2	3	4	0	0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9654BU4050 / DRUG INTERDICTION PROGRAM (DIP) (TIARA)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	610.391	5.063	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	610.391	5.063	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	610.391	5.063	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.063	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.063	-	-	-	-	-	-	-

Justification:

BU4050 has no FY2022 funding request.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A-INTEL
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305208A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	4,660	392	482	196	-	196	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,343.909	205.219	197.595	92.613	-	92.613	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,343.909	205.219	197.595	92.613	-	92.613	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,343.909	205.219	197.595	92.613	-	92.613	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	717.577	523.518	409.948	472.515	-	472.515	-	-	-	-	-	-

Description:

Distributed Common Ground System - Army (DCGS-A) is the Intelligence, Surveillance and Reconnaissance (ISR) System of Systems (SoS) for Joint, Interagency, Allied, Coalition, and National data analysis, sharing and collaboration. The core functions of DCGS-A are: the vertical and horizontal synchronization of ISR Processing, Exploitation and Dissemination (PED) efforts; operations in a networked environment at multiple security levels; control of select Army and joint sensor systems; fusion of all acquired data and information, and distribution of relevant red (threat), gray (non-aligned), and environmental (weather and terrain) information; and providing the Warfighters' early warning and targeting capability. DCGS-A provides a single integrated ISR ground processing system composed of common components that are interoperable with sensors, other information sources, all Warfighting Functions, and the Defense Information & Intelligence Enterprise (DI2E). DCGS-A is fielded in Fixed, Mobile, and Portable configurations emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. As newer versions of the baseline software are tested and released, a continuing series of software releases will be integrated into Army common/commodity hardware and fielded to units in accordance with (IAW) the Army Force Modernization Strategy and the Army Resourcing Priority List (ARPL).

DCGS-A is designated as a Program of Record (PoR) within the Command Post Computing Environment (CPCE) of the Common Operating Environment (COE). DCGS-A provides the Single and Shareable Geospatial Foundation (SSGF) Cross Cutting Capability (CCC), and is defining the DCGS-A architecture to fit within the COE as described by the Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA(ALT)) COE Implementation Plan. This is in accordance with the G-3/5/7 priority to align all Army networks, procurements and enhancements under one COE and one vision leveraging intelligence community investments. PM DCGS-A continues to work with PM Mission Command (PM MC) to converge on CP CE Tactical Server Infrastructure (TSI).

DCGS-A hardware and software is based on a combination of Government Off The Shelf (GOTS), Commercial Off The Shelf (COTS), and Non-Developmental Items (NDI) that are integrated into scalable configurations, tailored to Warfighting functions. These product line components include the software baseline, server suite (Intelligence Fusion Server (IFS)) and individual analyst Multi-Function Workstations (MFWS) such as Portable and Fixed MFWS (P-MFWS/F-MFWS) and the Geospatial Intelligence (GEOINT) Workstation. These components are also used to upgrade existing fielded Intel Programs of Record to enable the establishment of the Army COE while simultaneously assuring system compatibility and interoperability within the DCGS-A enterprise.

DCGS-A was formally designated as a Major Automation Information System (MAIS) and is deployed on multiple hardware platforms and security levels across the Army. The DCGS-A Increment 1 Full Deployment Decision (FDD) Acquisition Decision Memorandum (ADM) dated 14 November 2012, authorizes continued deployment of Release 1 capabilities. The DCGS-A Increment 1 Release 2 Fielding Acquisition Decision Memorandum (ADM) was approved by the Army Acquisition Executive (AAE) on 4 November 2015 after a successful Follow-On Test and Evaluation (FOT&E) event in May 2015. Full Deployment of DCGS-A Increment 1 Release 1 was declared on 17 June 2019.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A-INTEL
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305208A
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Line Item MDAP/MAIS Code: N/A

DCGS-A ISR capabilities are deployed at all echelons across the Army. DCGS-A consolidates and modernizes the Army ISR PED capabilities from 14 legacy Program of Record (POR) systems and significantly reduces their sustainment burdens.

Acquisition Decision Memorandum dated 28 May 2020 approved recommended restructure of DCGS-A Inc 1 Program.

	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	278	372	112	-	112	-	-	-	-
	Total Obligation Authority	148.404	146.151	66.084	-	66.084	-	-	-	-
ANG	Quantity	110	110	80	-	80	-	-	-	-
	Total Obligation Authority	52.061	51.444	23.457	-	23.457	-	-	-	-
AR	Quantity	4	-	4	-	4	-	-	-	-
	Total Obligation Authority	4.754	-	3.072	-	3.072	-	-	-	-
Total: Secondary Distribution	Quantity	392	482	196	-	196	-	-	-	-
	Total Obligation Authority	205.219	197.595	92.613	-	92.613	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:**
 9690BZ7316 / DCGS-A-INTEL

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305208A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ7316 / DCGS-A-INTEL	P-5a			4,660 / 3,343.909	392 / 205.219	482 / 197.595	196 / 92.613	- / -	196 / 92.613
P-40	Total Gross/Weapon System Cost				4,660 / 3,343.909	392 / 205.219	482 / 197.595	196 / 92.613	- / -	196 / 92.613

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base procurement dollars of \$58.545 million will continue to enhance the Army ISR PED capabilities to meet new threats or emerging capability needs. Funding supports the ARPL by equipping and training the force as well as deploying units with the current DCGS-A software release. Compo 2 , 3 and emerging Multi Domain Task Force requirements will be fielded to complete Release 2 equipping. Funds will support the Fielding Priority Guidance and the technology refresh cycle driven by rapid/continual advancement in Information Technology (IT) and COTs of Release 2 software and continued iterative Capability Drops. Critical DCGS-A software updates will continue to the Army's ISR and multi intelligence planning, analysis, and production capabilities through the exploitation of Cloud Computing and advanced analytics capabilities. The Capability Drop (CD) approach will achieve Information Technology efficiencies through alignment with the Intelligence Community Information Technology Environment (IC ITE), while providing iterative software updates required to remain current. DCGS-A will focus on procurement and fielding of CD2 and associated Fixed Node hardware. CD 2 will replace DCGS-A data management capabilities hosted at Echelons Above Corps, and adds advanced analytics and Artificial Intelligence/Machine Learning capabilities. The Fixed Node consolidates capabilities from IPCv1 and delivers CD2 and Army Intelligence capabilities to multiple Combatant Commands. Funding also procures new COTS software licenses to enhance performance of fielded systems as well as support integration of Intelligence Community investments. DCGS-A supports the Army's Geospatial Transformation by providing an integrated visualization capability for intelligence, terrain, and weather effects in a net centric environment. Funding will also support continued alignment with Army COE objectives and Army modernization priorities.

FY2022 base procurement dollars of \$29.103 million will update and procure components for the DCGS-A Fixed Sites and Army, Reserve, and National Guard units, providing fixed and portable system configurations IAW the Army's Equipping Strategy. Funds will support the provision of Fixed Nodes, Capability Drop 2 software, and modernized Intelligence capabilities to theater requirements to support the Direct War Cost for Operation Inherent Resolve (OIR).

FY 2022 base procurement dollars of \$4.965 million will update and procure components for the DCGS-A Fixed Sites and Army, Reserve, and National Guard units, providing fixed and portable system configurations IAW the Army's Equipping Strategy. Funds will support the provision of Fixed Nodes, Capability Drop 2 software, and modernized Intelligence capabilities to theater requirements. This requirement supports Enduring Requirement for Operation Spartan Shield (OSS).

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A-INTEL	Item Number / Title [DODIC]: BZ7316 / DCGS-A-INTEL

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	4,660	392	482	196	-	196
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,343.909	205.219	197.595	92.613	-	92.613
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,343.909	205.219	197.595	92.613	-	92.613
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,343.909	205.219	197.595	92.613	-	92.613

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	717.577	523.518	409.948	472.515	-	472.515

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Tactical ISR Grd Station (TGS/DE CGS)	82,040.364	11	902.444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tactical Ground Station (TGS) Lot D Refresh Hardware ^(†)	-	-	-	-	-	-	-	-	-	500.000	2	1.000	-	-	-	500.000	2	1.000
TGS MTI Downlink	-	-	-	-	-	-	-	-	-	500.000	2	1.000	-	-	-	500.000	2	1.000
ISR Process Ctr - V1 (IPC V1/Enclave) ^(†)	2,452.625	8	19.621	-	-	-	2,000.000	8	16.000	2,000.000	1	2.000	-	-	-	2,000.000	1	2.000
ISR Processing Ctr-V2	2,233.095	42	93.790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oper ISR Grnd Station (OGS/SIPC)	-	-	34.928	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OGS Refresh/Repair ^(†)	2,200.000	4	8.800	2,200.000	3	6.600	2,200.000	2	4.400	2,200.000	1	2.200	-	-	-	2,200.000	1	2.200
Cross Domain Solution Suite (CDSS) ^(†)	86.737	118	10.235	151.000	59	8.909	-	-	-	-	-	-	-	-	-	-	-	-
GEOINT WS (GWS/DE DTSS-D) ^(†)	312.170	559	174.503	193.000	88	16.984	193.000	34	6.562	-	-	-	-	-	-	-	-	-
Intel Fusion Server (IFS)	1,479.667	415	614.062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A-INTEL	Item Number / Title [DODIC]: BZ7316 / DCGS-A-INTEL

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Intel Fusion Server (IFS) (TSI Config) ^(tt)	196.000	384	75.264	169.000	131	22.139	169.000	47	7.943	-	-	-	-	-	-	-	-	-
Portable (P)Multi Function WorkSta. ^(tt)	38.572	9,207	355.132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fixed (F)-Multi Function WorkStations	18.000	370	6.660	18.000	202	3.636	-	-	-	-	-	-	-	-	-	-	-	-
TPE H/W S/W Refresh	-	-	47.256	-	-	7.360	-	-	3.756	-	-	-	-	-	-	-	-	-
Fixed Site Refresh	-	-	15.566	-	-	4.966	-	-	8.660	-	-	4.000	-	-	-	-	-	4.000
Equipment Tech Refresh	-	-	161.968	-	-	20.194	-	-	38.890	-	-	5.000	-	-	-	-	-	5.000
Software Licenses for Int. on DCGS HW	-	-	250.791	-	-	29.549	-	-	30.790	-	-	7.816	-	-	-	-	-	7.816
Program Office Support	-	-	140.292	-	-	8.100	-	-	8.100	-	-	7.480	-	-	-	-	-	7.480
Software Integration on to DCGS HW	-	-	52.370	-	-	3.905	-	-	3.905	-	-	2.000	-	-	-	-	-	2.000
Fielding/Training	-	-	232.680	-	-	32.347	-	-	31.189	-	-	5.000	-	-	-	-	-	5.000
Technical Engineering Services	-	-	106.795	-	-	12.000	-	-	11.550	-	-	2.576	-	-	-	-	-	2.576
Data	-	-	4.014	-	-	1.492	-	-	1.750	-	-	0.525	-	-	-	-	-	0.525
Capability Drop Modifications Hardware	2.800	879	2.461	-	-	1.438	-	-	-	-	-	-	-	-	-	-	-	-
Capability Drop Modifications Software	-	-	34.277	-	-	25.600	-	-	24.100	-	-	11.716	-	-	-	-	-	11.716
Fixed Node Requirements ^(tt)	-	-	-	-	-	-	-	-	-	20,150.000	2	40.300	-	-	-	20,150.000	2	40.300
<i>Subtotal: Recurring Cost</i>	-	-	<i>3,343.909</i>	-	-	<i>205.219</i>	-	-	<i>197.595</i>	-	-	<i>92.613</i>	-	-	-	-	-	<i>92.613</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>3,343.909</i>	-	-	<i>205.219</i>	-	-	<i>197.595</i>	-	-	<i>92.613</i>	-	-	-	-	-	<i>92.613</i>
Gross/Weapon System Cost	717.577	4,660	3,343.909	523.518	392	205.219	409.948	482	197.595	472.515	196	92.613	-	-	-	472.515	196	92.613

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	278	372	112	-	112
	Total Obligation Authority	148.404	146.151	66.084	-	66.084
ANG	Quantity	110	110	80	-	80
	Total Obligation Authority	52.061	51.444	23.457	-	23.457

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A-INTEL	Item Number / Title [DODIC]: BZ7316 / DCGS-A-INTEL
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
AR	Quantity	4	-	4	-
	Total Obligation Authority	4.754	-	3.072	3.072
Total: Secondary Distribution	Quantity	392	482	196	196
	Total Obligation Authority	205.219	197.595	92.613	92.613

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A-INTEL	Item Number / Title [DODIC]: BZ7316 / DCGS-A-INTEL
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Tactical Ground Station (TGS) Lot D Refresh Hardware		2022	General Dynamics7 / Taunton, MA - TGS	C / FP	CECOM ACQ CENTER	Nov 2021	Apr 2022	2	500.000	N		
ISR Process Ctr - V1 (IPC V1/ Enclave)		2022	General Dynamics6 / Taunton, MA - (IPC V1)	C / FP	CECOM ACQ CENTER	Oct 2021	Apr 2022	1	2,000.000	Y		
OGS Refresh/Repair		2019	CACI / Arlington, VA (OGS)	C / CPFF	CECOM ACQ CENTER	Jun 2019	Sep 2019	3	2,200.000	N		
OGS Refresh/Repair		2020	CACI / Arlington, VA (OGS)	C / CPFF	CECOM ACQ CENTER	Jun 2020	Sep 2020	3	2,200.000	N		
OGS Refresh/Repair		2021	CACI / Arlington, VA (OGS)	C / CPFF	CECOM ACQ CENTER	Jun 2021	Sep 2021	2	2,200.000	N		
Cross Domain Solution Suite (CDSS)		2020	General Dynamics3 / Taunton, MA - CDS	C / FP	CECOM ACQ CENTER	Apr 2020	Sep 2020	59	151.000	Y		
GEOINT WS (GWS/DE DTSS-D)		2019	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Mar 2019	Jun 2019	108	245.000	N		
GEOINT WS (GWS/DE DTSS-D)		2020	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Mar 2020	Sep 2020	88	193.000	Y		
GEOINT WS (GWS/DE DTSS-D)		2021	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Mar 2021	Sep 2021	34	193.000	Y		
Intel Fusion Server (IFS) (TSI Config)		2019	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2019	Sep 2019	146	196.000	N		
Intel Fusion Server (IFS) (TSI Config)		2020	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2020	Sep 2020	131	169.000	Y		
Intel Fusion Server (IFS) (TSI Config)		2021	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2021	Sep 2021	47	169.000	Y		
Portable (P)Multi Function WorkSta.		2019	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Mar 2019	Mar 2019	0	0.000	N		
Fixed Node Requirements		2022	General Dynamics8 / Taunton, MA - Fixed Node	C / FFP	CECOM ACQ CENTER	May 2022	May 2023	2	20,150.000	Y		

Remarks:

All DCGS-A hardware is comprised solely of COTS and NDI equipment. The program office has updated the P-form to reflect software, system integration, engineering change proposals, and engineering support costs separately from the system unit costs.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9692BZ8401 / JOINT TACTICAL GROUND STATION (JTAGS)-INTEL
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 1208053A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	59.080	-	-	8.088	-	8.088	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	59.080	-	-	8.088	-	8.088	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	59.080	-	-	8.088	-	8.088	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	59,080.000	-	-	-	-	-	-	-	-	-	-	-

Description:

The Joint Tactical Ground Station (JTAGS) disseminates near real time warning, alerting, and cueing information on ballistic missile launches and other tactical events of interest throughout the theater using existing communication networks, providing critical support to Combatant Commanders in their Areas of Responsibility (AOR). JTAGS, first fielded in 1997, has four OCONUS deployed JTAGS units, which are deployed in three theaters (PACOM, CENTCOM, EUCOM). A fifth CONUS system is used as an institutional trainer though is available as a deployable asset. Obsolescence issues coupled with the requirement to be compatible with the Air Force's newer satellites (Space Based Infrared System (SBIRS)) and their improved warning accuracy and timeliness, resulted in the production/fielding of the JTAGS Block II Pre-Planned Product Improvement (P3I) system. The JTAGS Approved Acquisition Objective (AAO) is five systems.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	8.088	-	8.088	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	8.088	-	8.088	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:**
 9692BZ8401 / JOINT TACTICAL GROUND STATION (JTAGS)-INTEL

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 1208053A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ8420 / JOINT TACTICAL GROUND STATION MODS (JTAGS)				1 / 59.080	- / -	- / -	- / 8.088	- / -	- / 8.088
P-40	Total Gross/Weapon System Cost				1 / 59.080	- / -	- / -	- / 8.088	- / -	- / 8.088

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY2022 Base funding in the amount of \$8.217 million modifies/upgrades the JTAGS Block II system with enhanced capabilities against emerging threats, more robust active and passive cybersecurity capabilities, and M-Code GPS (IAW PL 111-383).

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

JOINT TACTICAL GROUND STATION (JTAGS)-INTEL is a new start in FY 2022.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: 9692BZ8401 / JOINT TACTICAL GROUND STATION (JTAGS)-INTEL
		Item Number / Title [DODIC]: BZ8420 / JOINT TACTICAL GROUND STATION MODS (JTAGS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	1	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	59.080	-	-	8.088	-	8.088
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	59.080	-	-	8.088	-	8.088
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	59.080	-	-	8.088	-	8.088

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	59,080.000	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Institutional Trainer Software	-	-	12.695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JTAGS TWS/ESS Software	9,277.000	5	46.385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Technology Refresh for Commercial Off The Shelf (COTS) items	-	-	-	-	-	-	-	-	-	-	-	4.839	-	-	-	-	-	4.839
New Software Capabilities	-	-	-	-	-	-	-	-	-	-	-	1.179	-	-	-	-	-	1.179
Logistics	-	-	-	-	-	-	-	-	-	-	-	2.070	-	-	-	-	-	2.070
<i>Subtotal: Recurring Cost</i>	-	-	59.080	-	-	-	-	-	-	-	-	8.088	-	-	-	-	-	8.088
<i>Subtotal: Flyaway Cost</i>	-	-	59.080	-	-	-	-	-	-	-	-	8.088	-	-	-	-	-	8.088
Gross/Weapon System Cost	59,080.000	1	59.080	-	-	-	-	-	-	-	-	8.088	-	-	-	-	-	8.088

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	8.088	-	8.088
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9692BZ8401 / JOINT TACTICAL GROUND STATION (JTAGS)-INTEL	Item Number / Title [DODIC]: BZ8420 / JOINT TACTICAL GROUND STATION MODS (JTAGS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	-	-	8.088	-	8.088

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9704BA0326 / TROJAN
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303032A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	13	-	13	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	590.975	20.965	19.359	30.828	-	30.828	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	590.975	20.965	19.359	30.828	-	30.828	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	590.975	20.965	19.359	30.828	-	30.828	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	2,371.385	-	2,371.385	-	-	-	-	-	-

Description:

TROJAN, as an Army Intelligence system, has been providing direct support and an operational readiness capability to soldiers since 1983. TROJAN provides the tactical commander with remote access to signal environments, in order to maintain a high state of operational readiness and enhance the training and sustainment of highly perishable intelligence skills. Additionally, the TROJAN architecture provides the infrastructure enabling split-based and force protection operations in direct support of the warfighter.

TROJAN NexGEN, formerly TROJAN Classic XXI (TCXXI) advances the tactical commanders' readiness in the areas of training (technical and operational signals intelligence (SIGINT)), operational intelligence production and dissemination, and operational support to split-based intelligence operations supporting force protection operations. TROJAN NexGEN's principle use is to provide remote access to target environments, enabling split-based operations from a sanctuary by being the gateway interface to environments of immediate relevance to every supported commander's priority intelligence requirements. In addition, NexGEN will continue its role as an operational readiness system, while also supporting commanders' intelligence requirements across the spectrum of conflict.

TROJAN NexGEN is an intelligence and electronic warfare (IEW) system that supports the increased readiness of key mobilization personnel in preparation for actions in the mission areas of The Army Plan (TAP). NexGEN is capable of maintaining operational readiness status of unit personnel supporting the full spectrum of military operations as outlined in the Army Strategic Planning Guidance and Army Planning Guidance sections of the TAP.

TROJAN NexGEN provides operational readiness capability to an Army commander employing a rapid global response capability to any level of military conflict throughout the seven mission areas. By employing reach technology relay capabilities between the forward deployed sensors and the sanctuary-based Remote Operational Facilities (ROFs), NexGEN can meet the operational deployment timelines through the use of readiness training venues to meet the requirements of units from Brigade Combat Teams through Corps and Echelon Above Corps (EAC). This operational concept provides the unique capability to remotely control the sensors and direction finding capabilities of the Deployable Collection Assets (DCAs) and process and analyze the collected information for timely reporting of time-sensitive information to the

	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	13	-	13	-	-	-	-
	Total Obligation Authority	20.965	19.359	30.828	-	30.828	-	-	-	-
Total:	Quantity	-	-	13	-	13	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9704BA0326 / TROJAN
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303032A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	20.965	19.359	30.828	-	30.828	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:**
 9704BA0326 / TROJAN

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303032A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BA0331 / TROJAN CLASSIC	P-5a			- / 316.123	- / 12.396	- / 10.670	- / 10.758	- / -	- / 10.758
P-5	BA0333 / TROJAN SPIRIT - TERMINALS	P-5a			- / 274.852	- / 8.569	- / 8.689	13 / 20.070	- / -	13 / 20.070
P-40	Total Gross/Weapon System Cost				- / 590.975	- / 20.965	- / 19.359	13 / 30.828	- / -	13 / 30.828

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base funding in the amount of \$30.828 million funds the following TROJAN NexGEN and TROJAN SPIRIT requirements:

FY2022 base procurement dollars of \$29.045 million will support TROJAN NexGEN. Funds collection and processing system upgrades required to maintain the TROJAN NexGEN system strategic architecture commonality. Funding is used for the procurement of material (hardware/software) in support of planned TROJAN NexGEN upgrades and fielding activities to include fixed and mobile collection platforms, multi-band signal search and acquisition survey systems, fielding, modernization of existing sites, and upgrades to Network Control Centers to support NSA-approved architecture for network infrastructures.

FY2022 base procurement dollars of \$0.935 million will support TROJAN SPIRIT. Funds procure pre-planned product improvements for modernization/refresh of TROJAN SPIRIT LITE (V)1/(V)2/(V)3 systems to include bulk transport (bulk encrypted) network upgrades, increased bandwidth upgrades to Mbps throughput, X and Ka Band upgrades, replacement of end-of-life or out dated hardware, and TROJAN Network Control Center (TNCC)/TROJAN Network Operations Center (TNOC) interface upgrades. Funds the upgrades and support of TROJAN SPIRIT terminals required for current and emerging operational missions in support of Regionally Aligned Forces (RAF), Global Response Forces (GRF) and Army Contingency Forces (ACF) until capability is fielded by PM mission command. This requirement supports the Direct War Cost for Operation Freedom Sentinel (OFS).

FY2022 base procurement dollars of \$0.848 million will support TROJAN SPIRIT. Funds procure pre-planned product improvements for modernization/refresh of TROJAN SPIRIT LITE (V)1/(V)2/(V)3 systems to include bulk transport (bulk encrypted) network upgrades, increased bandwidth upgrades to Mbps throughput, X and Ka Band upgrades, replacement of end-of-life or out dated hardware, and TROJAN Network Control Center (TNCC)/TROJAN Network Operations Center (TNOC) interface upgrades. Funds the upgrades and support of TROJAN SPIRIT terminals required for current and emerging operational missions in support of Regionally Aligned Forces (RAF), Global Response Forces (GRF) and Army Contingency Forces (ACF) until capability is fielded by PM mission command. This requirement supports the Direct War Cost for Operation Inherent Resolve (OIR).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / TROJAN	Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				316.123	12.396	10.670	10.758	-	10.758
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				316.123	12.396	10.670	10.758	-	10.758
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				316.123	12.396	10.670	10.758	-	10.758
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware (Previous Years)	2,948.532	62	182.809	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TROJAN Analytical Node (TAN) ^(†)	199.250	8	1.594	-	-	-	-	-	-	203.500	4	0.814	-	-	-	203.500	4	0.814
Remote Operations Facility (ROF) ^(†)	241.600	10	2.416	241.667	6	1.450	259.167	6	1.555	260.000	2	0.520	-	-	-	260.000	2	0.520
TSRING ^(†)	1,930.000	4	7.720	1,930.000	2	3.860	1,930.000	2	3.860	2,004.000	2	4.008	-	-	-	2,004.000	2	4.008
TATTERAN ^(†)	2,230.000	1	2.230	-	-	-	-	-	-	260.000	1	0.260	-	-	-	260.000	1	0.260
S280 Shelter	232.500	2	0.465	260.000	1	0.260	260.000	1	0.260	-	-	-	-	-	-	-	-	-
Training Suite ^(†)	229.500	2	0.459	-	-	-	-	-	-	400.000	1	0.400	-	-	-	400.000	1	0.400
Integration/Fielding (TROJAN) ^(†)	9,577.286	7	67.041	3,229.000	1	3.229	3,229.000	1	3.229	3,479.000	1	3.479	-	-	-	3,479.000	1	3.479
Tactical NexGEN Upgrades (RCF) (1X per year)	-	-	-	-	-	-	-	-	-	1,277.000	1	1.277	-	-	-	1,277.000	1	1.277
Subtotal: Recurring Cost	-	-	264.734	-	-	8.799	-	-	8.904	-	-	10.758	-	-	-	-	-	10.758
Non Recurring Cost																		
Hardware (JMICS)	2,600.000	2	5.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Establishment of Wiesbaden TNCC (OCO)	10,800.000	1	10.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 **P-1 Line Item Number / Title:** 9704BA0326 / TROJAN **Item Number / Title [DODIC]:** BA0331 / TROJAN CLASSIC

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Refresh of Systems	1,307.560	25	32.689	1,337.000	1	1.337	1,766.000	1	1.766	-	-	-	-	-	-	-	-	-
NexGEN	-	-	2.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	51.389	-	-	1.337	-	-	1.766	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	316.123	-	-	10.136	-	-	10.670	-	-	10.758	-	-	-	-	-	10.758
Hardware Cost																		
Non Recurring Cost																		
System Upgrades	-	-	-	452.000	5	2.260	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	2.260	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	2.260	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	316.123	-	-	12.396	-	-	10.670	-	-	10.758	-	-	-	-	-	10.758

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	12.396	10.670	10.758	-	10.758
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	12.396	10.670	10.758	-	10.758

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / TROJAN	Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
TROJAN Analytical Node (TAN)		2022	CACI (TROJAN) / APG	C / CPAF	APG	Sep 2022	Sep 2022	4	203.500	N		
Remote Operations Facility (ROF)		2022	CACI (TROJAN) / APG	C / CPAF	APG	Sep 2022	Sep 2022	2	260.000	N		
TSPRING		2022	CACI (TROJAN) / APG	C / CPAF	APG	Sep 2022	Sep 2022	2	2,004.000	N		
TATTERAN		2022	CACI (TROJAN) / APG	C / CPAF	APG	Sep 2022	Sep 2022	1	260.000	N		
Training Suite		2022	CACI (TROJAN) / APG	C / CPAF	APG	Sep 2022	Sep 2022	1	400.000	N		
Integration/Fielding (TROJAN)		2022	CACI (TROJAN) / APG	C / CPAF	APG	Sep 2022	Sep 2022	1	3,479.000	N		

Remarks:

Prime Contractor for FY22 and FY23 is CACI Technologies, Inc. The period of performance for base and option years is 19 AUG to 20 AUG.

All items procured are COTS/GOTS.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / TROJAN	Item Number / Title [DODIC]: BA0333 / TROJAN SPIRIT - TERMINALS

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				-	-	-	13	-	13
Gross/Weapon System Cost (\$ in Millions)				274.852	8.569	8.689	20.070	-	20.070
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				274.852	8.569	8.689	20.070	-	20.070
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				274.852	8.569	8.689	20.070	-	20.070
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	1,543.846	-	1,543.846

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware SPIRIT ^(†)	322.224	836	269.379	51.933	165	8.569	170.373	51	8.689	41.381	485	20.070	-	-	-	41.381	485	20.070
AN/TSQ-226B(V)1 Phase 3 Kits Spares (RSC)	153.286	7	1.073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	270.452	-	-	8.569	-	-	8.689	-	-	20.070	-	-	-	-	-	20.070
Non Recurring Cost																		
SPIRIT Cinematic Training	200.000	3	0.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISR Transfer Funding (OCO)	3,800.000	1	3.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	274.852	-	-	8.569	-	-	8.689	-	-	20.070	-	-	-	-	-	20.070
Gross/Weapon System Cost	-	-	274.852	-	-	8.569	-	-	8.689	1,543.846	13	20.070	-	-	-	1,543.846	13	20.070

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Element Breakout	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware SPIRIT	322.224	836	269.379	51.933	165	8.569	170.373	51	8.689	41.381	485	20.070	-	-	-	41.381	485	20.070

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / TROJAN	Item Number / Title [DODIC]: BA0333 / TROJAN SPIRIT - TERMINALS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Element Breakout	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AN/TSQ-226B(V)1 Phase 3 Kits	170.608	51	8.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN/TSQ-226B/C(V)2/3 Phase 3 Kits	89.556	9	0.806	-	-	-	96.500	50	4.825	30.000	96	2.880	-	-	-	30.000	96	2.880
T-JWICS VTC Suite Upgrades	41.363	80	3.309	41.371	89	3.682	-	-	-	50.000	115	5.750	-	-	-	50.000	115	5.750
T-JWICS VTC Suite Spares (RSC)	45.571	14	0.638	45.636	11	0.502	-	-	-	-	-	-	-	-	-	-	-	-
iDirect Modems	22.000	194	4.268	22.000	64	1.408	-	-	-	-	-	-	-	-	-	-	-	-
iDirect Modems - Spares (RSC)	22.000	14	0.308	-	-	-	-	-	-	15.000	26	0.390	-	-	-	15.000	26	0.390
Integration/Fielding	107,528.000	1	107.528	2,977.000	1	2.977	3,864.000	1	3.864	5,549.000	1	5.549	-	-	-	5,549.000	1	5.549
Hardware (Previous Years)	304.061	473	143.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Protected SATCOM Modem	-	-	-	-	-	-	-	-	-	31.000	20	0.620	-	-	-	31.000	20	0.620
V2/3 Conversion Kits	-	-	-	-	-	-	-	-	-	500.000	6	3.000	-	-	-	500.000	6	3.000
Global SATCOM e9350 Cables	-	-	-	-	-	-	-	-	-	2.400	220	0.528	-	-	-	2.400	220	0.528
TNCC	-	-	-	-	-	-	-	-	-	1,353.000	1	1.353	-	-	-	1,353.000	1	1.353

Remarks:
 Hardware is a combination of Government off-the-Shelf (GOTS) and Commercial off-the-Shelf (COTS) products obtained from the Prime Contractor, NAVAIR and related vendors.
 Prime contractor is CACI for TROJAN SPIRIT. The period of performance for base and option years is 19 AUG to 20 AUG.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	13	-	13
	Total Obligation Authority	8.569	8.689	20.070	-	20.070
Total: Secondary Distribution	Quantity	-	-	13	-	13
	Total Obligation Authority	8.569	8.689	20.070	-	20.070

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9704BA0326 / TROJAN				Item Number / Title [DODIC]: BA0333 / TROJAN SPIRIT - TERMINALS				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware SPIRIT		2017	CACI / APG	C / CPFF	CECOM	Sep 2017	Sep 2017	35	164.910	N		
Hardware SPIRIT		2018	CACI / APG	C / CPFF	CECOM	Sep 2018	Sep 2018	143	30.657	N		
Hardware SPIRIT		2019	TBD / APG	C / CPAF	CECOM	Sep 2019	Sep 2019	192	63.557	N		
Hardware SPIRIT		2020	TBD / APG	C / CPAF	CECOM	Sep 2020	Sep 2020	165	51.933	N		
Hardware SPIRIT		2021	TBD / APG	C / CPAF	CECOM	Sep 2021	Sep 2021	51	170.373	N		
Hardware SPIRIT		2022	CACI / APG	C / CPAF	AFC	Sep 2022	Sep 2022	485	41.381	N		

Remarks:
 Hardware is a combination of Government off-the-Shelf (GOTS) and Commercial off-the-Shelf (COTS) products obtained from the Prime Contractor, NAVAIR and related vendors.
 Prime contractor CACI for TROJAN SPIRIT. The period of performance for base and option years is 19 AUG to 20 AUG.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	24	11	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	341.387	61.103	127.508	39.039	-	39.039	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	341.387	61.103	127.508	39.039	-	39.039	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	341.387	61.103	127.508	39.039	-	39.039	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	14,224.458	5,554.818	-	-	-	-	-	-	-	-	-	-

Description:

Special Purpose Systems (BZ9751): Program funds Technical Insertions (TI) for the ground-based Signals Intelligence (SIGINT) system with additional capabilities required by fielded units to effectively engage enemy forces and provide Force Protection information to friendly forces. The program funds procurement of Government and Commercial Off-the-Shelf (GOTS/COTS) Next Generation SIGINT capabilities for the Prophet system to pace near peer, emerging threats and other Signals of Interest (SOI) to support the National Defense Strategy.

Prophet Enhanced Modifications MIP (BZ9753): Program funds modifications to retrofit, test, train, and support previously fielded Prophet Enhanced systems not currently hosted on a prime mover to the latest configuration. Prophet Enhanced is the tactical commander's organic ground-based SIGINT/Electronic Warfare system for the Multi-Function Teams (MfTs), Stryker Brigade Combat Teams (SBCTs), and Expeditionary-Military Intelligence Brigades (E-MIBs). Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations. Prophet Enhanced's design also incorporates the ability for rapid integration of TI to ensure operational relevance and pace the changing threat.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	11	-	-	-	-	-	-	-
	Total Obligation Authority	61.103	127.508	39.039	-	39.039	-	-	-
Total: Secondary Distribution	Quantity	11	-	-	-	-	-	-	-
	Total Obligation Authority	61.103	127.508	39.039	-	39.039	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:**
 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ9751 / SPECIAL PURPOSE SYSTEMS				- / 139.778	- / 4.000	- / 48.979	- / 3.739	- / -	- / 3.739
P-5	BZ9753 / PROPHET ENHANCED MODIFICATIONS	P-5a			24 / 201.609	11 / 57.103	- / 78.529	- / 35.300	- / -	- / 35.300
P-40	Total Gross/Weapon System Cost				24 / 341.387	11 / 61.103	- / 127.508	- / 39.039	- / -	- / 39.039

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 BZ9751 Base procurement funding in the amount of \$3.739 million supports integration and productization of modern Signals of Interest (SOI) and improvements to provide Prophet Enhanced the ability to address an evolving threat signal base. Upgraded Signal Relevance capabilities are required to ensure that Prophet remains relevant against emerging and evolving threats, providing an open architecture with improved components and capabilities to address advanced signal types in a constantly contested spectrum environment.

FY 2022 BZ9753 Base procurement funding in the amount of \$35.300 million will fund the procurement/fielding of Enhanced Signal Processing (ESP) kits and Communication kits that will be installed on previously fielded Prophet Enhanced systems to provide capabilities against threats designated in the National Defense Strategy and a Mobile Training Team (MTT) and training asset investment to conduct training for deploying Expeditionary MI Battalions (E-MIB MIBN). This requirement supports Direct War Cost in support of Operation Inherent Resolve (OIR).

All funding is for the Active component.

Army Acquisition Objective (AAO): 238

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)	Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	139.778	4.000	48.979	3.739	-	3.739
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	139.778	4.000	48.979	3.739	-	3.739
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	139.778	4.000	48.979	3.739	-	3.739

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Logistics Products	-	-	0.555	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Next Generation Hardware (Manpack)	241.400	10	2.414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Advanced Processor	21,208.167	6	127.249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Software Upgrades & Integration	-	-	9.560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integration, fielding and logistics products updates of Signal of Interest Upgrades	-	-	-	-	-	4.000	-	-	4.048	-	-	3.739	-	-	-	-	-	3.739
Enhancement Components	-	-	-	-	-	-	-	-	7.431	-	-	-	-	-	-	-	-	-
TEWS	-	-	-	-	-	-	-	-	37.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	139.778	-	-	4.000	-	-	48.979	-	-	3.739	-	-	-	-	-	3.739
<i>Subtotal: Flyaway Cost</i>	-	-	139.778	-	-	4.000	-	-	48.979	-	-	3.739	-	-	-	-	-	3.739
Gross/Weapon System Cost	-	-	139.778	-	-	4.000	-	-	48.979	-	-	3.739	-	-	-	-	-	3.739

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)	Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Total Obligation Authority	4.000	48.979	3.739	-	3.739
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.000	48.979	3.739	-	3.739

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)	Item Number / Title [DODIC]: BZ9753 / PROPHET ENHANCED MODIFICATIONS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	24	11	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	201.609	57.103	78.529	35.300	-	35.300
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	201.609	57.103	78.529	35.300	-	35.300
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	201.609	57.103	78.529	35.300	-	35.300

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	8,400.375	5,191.182	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Prophet Enhanced Legacy Modification	2,913.639	36	104.891	1,200.000	11	13.200	-	-	-	-	-	-	-	-	-	-	-	-
Integration	-	-	16.797	-	-	3.146	-	-	-	-	-	-	-	-	-	-	-	-
Program Quality Management	-	-	8.719	-	-	3.124	-	-	2.662	-	-	1.320	-	-	-	-	-	1.320
GFE	-	-	1.972	-	-	0.819	-	-	-	-	-	-	-	-	-	-	-	-
Software Engineering	-	-	10.035	-	-	3.360	-	-	2.633	-	-	-	-	-	-	-	-	-
Project Management Costs	-	-	9.287	-	-	2.867	-	-	1.839	-	-	0.761	-	-	-	-	-	0.761
Training/Fielding/ Depot Support ^(†)	31,369.000	1	31.369	-	-	10.036	-	-	14.054	-	-	10.250	-	-	-	-	-	10.250
Matrix Support	-	-	3.110	-	-	0.861	-	-	0.500	-	-	-	-	-	-	-	-	-
Manpack	250.690	42	10.529	-	-	2.390	-	-	-	-	-	-	-	-	-	-	-	-
Satellite On The Move (SOTM) Antenna	408.333	12	4.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enhanced Signal Processing Kit & Fielding ^(†)	-	-	-	1,100.000	9	9.900	-	-	34.183	-	-	18.529	-	-	-	-	-	18.529
Communications Kit & Fielding	-	-	-	-	-	-	-	-	14.335	-	-	4.440	-	-	-	-	-	4.440
Spiral 1 Manpacks	-	-	-	-	-	7.400	-	-	8.323	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)	Item Number / Title [DODIC]: BZ9753 / PROPHET ENHANCED MODIFICATIONS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	201.609	-	-	57.103	-	-	78.529	-	-	35.300	-	-	-	-	-	35.300
<i>Subtotal: Flyaway Cost</i>	-	-	201.609	-	-	57.103	-	-	78.529	-	-	35.300	-	-	-	-	-	35.300
Gross/Weapon System Cost	8,400.375	24	201.609	5,191.182	11	57.103	-	-	78.529	-	-	35.300	-	-	-	-	-	35.300

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	11	-	-	-	-
	Total Obligation Authority	57.103	78.529	35.300	-	35.300
Total: Secondary Distribution	Quantity	11	-	-	-	-
	Total Obligation Authority	57.103	78.529	35.300	-	35.300

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)					Item Number / Title [DODIC]: BZ9753 / PROPHET ENHANCED MODIFICATIONS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Training/Fielding/Depot Support	✓	2022	GD Mission Systems / Scottsdale, AZ	SS / CPFF	APG,MD	Mar 2022	Jul 2022	0	0.000	N		
Enhanced Signal Processing Kit & Fielding	✓	2022	GD Mission Systems / Scottsdale, AZ	SS / FFP	APG, MD	Nov 2021	Jul 2022	0	0.000	N		

Remarks:
 FY2022 base procurement dollars of \$35.300 million supports procurement/fielding of Enhanced Signals Processing (ESP) and Communication kits that will be installed on previously fielded Prophet Enhanced systems, making them more capable against the near-peer threat signals. Funding also supports a Mobile Training Team, training assets and critical operational initial spares for deploying Expeditionary MI Battalions (E-MIB MIBN). This funding supports the Direct War Cost for Operation Inherent Resolve (OIR).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9988BK5300 / BIOMETRIC TACTICAL COLLECTION DEVICES
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	486	95	-	95	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15.590	1.800	13.336	11.097	-	11.097	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	15.590	1.800	13.336	11.097	-	11.097	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15.590	1.800	13.336	11.097	-	11.097	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	27.440	116.811	-	116.811	-	-	-	-	-	-

Description:

The Army Program of Record (POR) for biometrics tactical collection capability is the Biometrics Automated Toolset - Army (BAT-A). The BAT-A system consists of the BAT-A Kit with peripherals, BAT-A Handheld, BAT-A Servers, and BAT.Web. The BAT-A system is a biometric identity tool that collects, matches, stores, shares biometric signatures (fingerprints, iris, and face) and contextual data on known & suspected terrorists, potential adversaries, host nation personnel, and third country nationals to inform analysis and decision-making. BAT-A provides the Biometrically-Enabled Watchlist (BEWL) to the Warfighter enabling credible and reliable identity capabilities. Biometric data collected from the BAT-A system is shared across the DoD, U.S. government agencies, and with Coalition Partners. The BAT-A system was originally a Quick Reaction Capability (QRC) and has been supporting oversea contingency operations for over 20 years. BAT-A is currently deployed across 5 combatant commands as well as in support of Operation Freedom's Sentinel, Operation Inherent Resolve, and JTF Guantanamo Bay.

The Next Generation Biometric Collection Capability (NXGBCC) is the replacement for the BAT. NXGBCC supports all three objectives of the National Defense to increase lethality, enhance International Cooperation, and improve business practices. NXGBCC initiates the data flow to the DoD Authoritative Biometrics Identification System (ABIS) and Military Intelligence systems. NXGBCC consists of an expeditionary biometric data management system called the Local Trusted Source (LTS), biometric static collection kits with palm and credential badge capability, and biometric mobile collection kits. NXGBCC will tactically collect, match, store, reference, and share biometric signatures and contextual data while providing data analysis capability at all echelons; enabling forces in competition, armed conflict, and re-competing in a Joint ALL Domain Operations (JADO) environment. NXGBCC processes Enemy Prisoners of War, Displaced Persons, and Refugees. It also assists Operations in the Support in Consolidation Areas. NXGBCC enables commanders to protect their force, deny enemy movement, increase freedom of maneuver, protect civilian populations, manage detainees identities, and to defeat near-peer unconventional threats.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	486	95	-	95	-	-	-
	Total Obligation Authority	1.800	13.336	11.097	-	11.097	-	-	-
Total: Secondary Distribution	Quantity	-	486	95	-	95	-	-	-
	Total Obligation Authority	1.800	13.336	11.097	-	11.097	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9988BK5300 / BIOMETRIC TACTICAL COLLECTION DEVICES
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BK5301 / BIOMETRICS AUTOMATED TOOLSET - ARMY (BAT-A)				- / 15.590	- / 1.800	486 / 13.336	95 / 11.097	- / -	95 / 11.097
P-40	Total Gross/Weapon System Cost				- / 15.590	- / 1.800	486 / 13.336	95 / 11.097	- / -	95 / 11.097

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 base procurement dollars of \$0.912 million for NXGBCC will support the procurement of 23 mobile kits, 17 static kits, and 1 palm scanner for use at the CTCs as training devices. It will also procure the NXGBCC software licenses and sustainment contract labor.

FY 2022 base procurement dollars of \$8.862 million will support the procurement of 28 mobile kits, 21 static kits, and 5 palm scanner NXGBCC devices and replace BAT-A TPE. It will also provide software licenses, sustainment contract labor, engineering support, and deployment logistics. This requirement supports the Direct War Cost for Operation Freedom Sentinel (OFS).

FY 2022 base procurement dollars of \$1.323 million will support the procurement of 28 mobile kits, 21 static kits, and 5 palm scanner NXGBCC devices and replace BAT-A TPE. It will also provide software licenses, sustainment contract labor, engineering support, and deployment logistics. This requirement supports the Direct War Cost for Operation Inherent Resolve (OIR).

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9988BK5300 / BIOMETRIC TACTICAL COLLECTION DEVICES	Item Number / Title [DODIC]: BK5301 / BIOMETRICS AUTOMATED TOOLSET - ARMY (BAT-A)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	486	95	-	95
Gross/Weapon System Cost (\$ in Millions)	15.590	1.800	13.336	11.097	-	11.097
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	15.590	1.800	13.336	11.097	-	11.097
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	15.590	1.800	13.336	11.097	-	11.097

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	27.440	116.811	-	116.811

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
BAT-A Kit Hardware and BAT-A Handheld accessories	-	-	15.590	3.261	552	1.800	28.496	468	13.336	116.810	95	11.097	-	-	-	116.810	95	11.097
<i>Subtotal: Non Recurring Cost</i>	-	-	15.590	-	-	1.800	-	-	13.336	-	-	11.097	-	-	-	-	-	11.097
<i>Subtotal: Hardware Cost</i>	-	-	15.590	-	-	1.800	-	-	13.336	-	-	11.097	-	-	-	-	-	11.097
Gross/Weapon System Cost	-	-	15.590	-	-	1.800	27.440	486	13.336	116.811	95	11.097	-	-	-	116.811	95	11.097

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	-	486	95	-	95
Total Obligation Authority	1.800	13.336	11.097	-	11.097
Total: Secondary Distribution	-	486	95	-	95
Total Obligation Authority	1.800	13.336	11.097	-	11.097

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8387B05201 / Lightweight Counter Mortar Radar
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	5	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	849.540	5.400	5.332	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	849.540	5.400	5.332	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	849.540	5.400	5.332	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	169,908.000	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/TPQ-50 Lightweight Counter Mortar Radar (LCMR) is a highly mobile radar that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems with sufficient accuracy for first round fire for effect. It mitigates close combat radar coverage gaps by providing 360 degrees of azimuth coverage from ranges of 500 meters to 10 kilometers and is capable of being deployed in two configurations, standalone or vehicle mounted. The AN/TPQ-50 system interoperates with mission command systems to provide the maneuver commander increased counterfire radar flexibility. The AN/TPQ-50 is deployed as part of the Counter-Rocket, Artillery, Mortar (C-RAM) system of systems. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability. The AN/TPQ-50 is currently fielded to multiple Continental United States (CONUS) and Outside Continental United States (OCONUS) locations to include support to Operation Inherent Resolve (OIR) and Operation Freedom's Sentinel (OFS).

Army Acquisition Objective (AAO): 452
Army Procurement Objective (APO): 400

	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.400	5.332	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.400	5.332	-	-	-	-	-	-	-

Justification:

B05201 has no funding request in FY22 .

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)		P-1 Line Item Number / Title: 8387B05201 / Lightweight Counter Mortar Radar
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
Line Item MDAP/MAIS Code: N/A		
In accordance with Section 1815 of the fiscal year (FY) 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8488K00002 / EW Planning & Management Tools (EWPMT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.168	7.568	7.849	0.783	-	0.783	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.168	7.568	7.849	0.783	-	0.783	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.168	7.568	7.849	0.783	-	0.783	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	10,084.000	-	-	-	-	-	-	-	-	-	-	-

Description:

The Electronic Warfare Planning and Management Tool (EWPMT) is the Commander's tool to control, manage, and dominate the Electromagnetic Spectrum (EMS) and Cyber Domains. EWPMT will provide the ability to conduct remote control & management of Electronic Warfare (EW) assets to execute offensive and defensive Electronic Attack, EW targeting and enable maneuver by synchronizing EW and Spectrum Management Operations (SMO) across Intelligence, Operations, and Signals to successfully execute Multi-Domain Operations (MDO). As a Commander's tool, EWPMT is predominantly utilized by the Cyber Electromagnetic Activities (CEMA) element's Electronic Warfare Officers (EWO) and Electromagnetic Spectrum Managers (ESM) for mission planning, access to national and strategic sensors and data repositories, as well as the synchronization of EW and SIGINT enabled platforms.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.568	7.849	0.783	-	0.783	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.568	7.849	0.783	-	0.783	-	-	-	-

Justification:

FY 2022 base procurement dollars in the amount of \$0.783 million supports Electronic Warfare Planning & Management Tools (EWPMT) logistics and Program Management Support travel.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8489W60001 / AIR VIGILANCE (AV)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603766A, 0605766A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	29.818	8.953	8.160	13.486	-	13.486	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	29.818	8.953	8.160	13.486	-	13.486	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	29.818	8.953	8.160	13.486	-	13.486	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Air Vigilance (AV) systems collect critical intelligence data on emerging threat aerial systems. The intelligence data provides early warning of operations in restricted airspace to ensure force protection. An Air Vigilance system is comprised of a server unit configured and fielded with a single or multiple sub-component sensors. System Quantities are based upon server units. Operational details are classified.

Air Vigilance is a software intensive Automated Information System (AIS) program with specialized hardware. The AV current Basis of Issue Plan (BOIP), per requirements in Capability Drops (CDs) 1, 2, and 3, is based upon the Full Deployment (FD) of this baseline software deployed across hardware sets comprised of 49 unit/pieces of equipment (10 servers and 39 sensors in various combinations/configurations) fielded to the Intelligence and Security Command (INSCOM) Military Intelligence Brigades.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	8.953	8.160	13.486	-	13.486	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	8.953	8.160	13.486	-	13.486	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8489W60001 / AIR VIGILANCE (AV)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603766A, 0605766A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	W60001 / AIR VIGILANCE (AV)	P-5a	A		- / 29.818	- / 8.953	- / 8.160	- / 13.486	- / -	- / 13.486
P-40	Total Gross/Weapon System Cost				- / 29.818	- / 8.953	- / 8.160	- / 13.486	- / -	- / 13.486

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$13.486 million provide for Fielding and New Equipment Training of items procured in previous years and upgrades to these systems to the sensor/processor Capability Drop (CD) configuration, in accordance with the latest user and Headquarters, Department of the Army (HQDA) approved fielding plan.

Note: Army validated and directed AV POR to execute Capability Drop (CD) 4 in April, 2021. Acquisition strategy, contract strategy, total quantities, delivery schedule and fielding plan details are/were still to be determined (TBD) at the time of publication of this form.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8489W60001 / AIR VIGILANCE (AV)	Item Number / Title [DODIC]: W60001 / AIR VIGILANCE (AV)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	29.818	8.953	8.160	13.486	-	13.486
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	29.818	8.953	8.160	13.486	-	13.486
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	29.818	8.953	8.160	13.486	-	13.486

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Fielding and New Equipment Training	1,749.000	1	1.749	2,500.000	1	2.500	76.100	10	0.761	1,000.000	1	1.000	-	-	-	1,000.000	1	1.000
Systems Engineering	171.250	4	0.685	500.000	1	0.500	7,399.000	1	7.399	2,465.000	1	2.465	-	-	-	2,465.000	1	2.465
<i>Subtotal: Recurring Cost</i>	-	-	2.434	-	-	3.000	-	-	8.160	-	-	3.465	-	-	-	-	-	3.465
Non Recurring Cost																		
Sensor ^(f)	667.152	33	22.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Server ^(f)	228.800	5	1.144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Upgrades per CD enhancements/ improvements	422.400	10	4.224	5,953.000	1	5.953	-	-	-	10,021.000	1	10.021	-	-	-	10,021.000	1	10.021
<i>Subtotal: Non Recurring Cost</i>	-	-	27.384	-	-	5.953	-	-	-	-	-	10.021	-	-	-	-	-	10.021
Subtotal: Hardware Cost	-	-	29.818	-	-	8.953	-	-	8.160	-	-	13.486	-	-	-	-	-	13.486
Gross/Weapon System Cost	-	-	29.818	-	-	8.953	-	-	8.160	-	-	13.486	-	-	-	-	-	13.486

Remarks:

The prior year quantity amounts do not cover purchases made before becoming a program of record (POR). Those procurements completed during the early phases of a Quick Reaction Capability and these Program purchases captured here combine to complete the full Basis of Issue Plan (BOIP) of 39 Sensors and 10 Servers.

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8489W60001 / AIR VIGILANCE (AV)	Item Number / Title [DODIC]: W60001 / AIR VIGILANCE (AV)
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Note: Army validated and directed AV POR to execute Capability Drop (CD) 4 in April, 2021. Acquisition strategy, contract strategy, total quantities, delivery schedule and fielding plan details are/were still to be determined (TBD) at the time of publication of this form.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	8.953	8.160	13.486	-	13.486
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	8.953	8.160	13.486	-	13.486

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8489W60001 / AIR VIGILANCE (AV)	Item Number / Title [DODIC]: W60001 / AIR VIGILANCE (AV)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Sensor		2016	Classified / Classified	C / FFP	Classified	Jan 2016	Mar 2016	8	600.000	N		
Sensor		2018	Classified / Classified	C / FFP	Classified	Jan 2018	Mar 2018	5	700.000	N		
Sensor		2019	Classified / Classified	C / FFP	Classified	Jan 2019	Mar 2019	8	710.000	N		
System Server		2016	Classified / Classified	C / FFP	Classified	Jan 2016	Mar 2016	2	280.000	N		
System Server		2017	Classified / Classified	C / FFP	Classified	Jan 2017	Mar 2017	3	228.000	N		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8491B05000 / Multi-Function Electronic Warfare (MFEW) Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	8.669	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	8.669	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	8.669	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Multi-Function Electronic Warfare (MFEW) is a capability set that will provide Maneuver Commanders with an organic airborne offensive Electronic Warfare (EW) capability, which empowers Commanders to shape the Electromagnetic Spectrum (EMS) to their advantage. The MFEW Air Large system, when installed onto the Gray Eagle (GE) Unmanned Aerial System (UAS), will provide: 1) Offensive Electronic Attack (OEA) - Non-Kinetic Fires capability with the intent of denying, degrading, or disrupting enemy communications capability and non-communications emitters; 2) Electronic Warfare Support (ES) - Capability to search, intercept, identify, and locate or localize sources of intentional and unintentional radiated electromagnetic (EM) energy for the purpose of immediate threat recognition, targeting, planning, and execution of future operations; 3) Dissemination of Military Information Support Operations (MISO) products; and 4) Support of Offensive Cyber Operations (OCO) and Multi-Domain Operations.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	8.669	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	8.669	-	-	-	-	-	-

Justification:

B05000 has no funding request in FY 2022.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	209.951	31.493	42.043	14.414	-	14.414	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	209.951	31.493	42.043	14.414	-	14.414	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	209.951	31.493	42.043	14.414	-	14.414	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Persistent Surveillance Systems - Tethered (PSS-T) is a highly persistent and flexible multi-sensor information collection platform that integrates with other aerial and unattended ground sensor systems to provide slew-to-cue capability. The PSS-T retains medium and large aerostat platforms for persistent intelligence, surveillance, and reconnaissance (ISR), information collection, force protection and as a platform for Army Aerial Layer Network Transport. Both medium and large platforms provide 360 degree detection, surveillance, monitoring, and targeting capabilities through real-time full motion video, electro-optic/infrared (EO/IR) and wide area detection of moving vehicles and dismount targets. Video collected by PSS-T is distributed to the Forward Operating Base and division commander information center as well as to quick reaction forces via Tactical Operations Center (TOC) Extension Kits, providing tactical commanders enhanced battlefield situational awareness. Additionally, it is capable of performing tactical missions with tactical class systems that are smaller in size in comparison to the PSS-T Medium, however are still part of the PSS-T Family of Systems (FoS) which ranges from tactical class platform aerostat to the Large platform.

Large Platform (PTDS, 34M) - The baseline configuration includes the U.S. Army Research Lab's Unattended Transient Acoustic Measurement and Signature INTeelligence (MASINT) System (UTAMS) which operationally cues the PSS-T MX series sensors to slew onto a target. The UTAMS is an acoustic sensor design consisting of sensor stations linked via radio to a base station. Each sensor station includes microphone arrays, signal processor, and display. The baseline PSS-T also includes the Tactical Common Data Link (TCDL) transmitter that transmits MX series video stream to ground forces equipped with One System Remote Video Terminal. Expendable-Unattended Ground Sensor (E-UGS) enhances the PSS-T ability to detect enemy vehicle and pedestrian traffic and provides improved situational awareness and facilitates tactical response. PSS-T continues to meet other urgent theater needs through system upgrades: adding High Antennas for Radio Communications (HARC) radio, the PRC-117G wide band radio, Tactical Targeting Network Technology (TTNT), Highband Networking Radio (HNR) as part of the aerial layer network extension architecture; transmitting weather data directly to Air Force Weather Agency (AFWA) via weather relay kits; added dual sensor capability; additional ground moving target indicator STARLite, VISTA radar, and wide area motion imagery (WAMI) Kestrel sensors, Persistent Surveillance Systems (PSS) Slew to Cue, coded laser target designation, and Survivability enhancements.

Medium Platform (PGSS, 22M, 28M) - The medium platform has been a highly successful example of quickly delivering urgently needed capabilities to the Warfighter at remote forward operating bases (FOBs). PGSS continues to meet other urgent theater needs through system upgrades: adding HARC radio, the PRC-117G wide band radio, Quint Networking Technology (QNT), and micro-Enhanced Position Location Reporting System (EPLRS) as part of the aerial layer network extension architecture; adding dual sensor capability; adding additional VISTA, Kestrel, and wireless identification sensing platforms (WISP) sensors, PSS Slew to Cue, Precision Fires, coded laser target designation, and Survivability enhancements. Additionally, Expendable-Unattended Ground Sensor (E-UGS) enhances the PGSS ability to detect enemy vehicle and pedestrian traffic and provides improved situational awareness and facilitates tactical response. Other sensors and payloads capabilities include WAMI Kestrel sensors, MX camera series, and UTAMS.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	31.493	42.043	14.414	-	14.414	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	31.493	42.043	14.414	-	14.414	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.
--	---

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.	P-5a	A		- / 209.951	- / 31.493	- / 42.043	- / 14.414	- / -	- / 14.414
P-40	Total Gross/Weapon System Cost				- / 209.951	- / 31.493	- / 42.043	- / 14.414	- / -	- / 14.414

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY2022 base procurement dollars of \$10.955 million will procure high dollar spares kits consisting of three (3) Aerostat Envelopes, three (3) Baseline Avionics Kits, and four (4) Pressurization Avionics Units (PAU). Funding will also procure three (3) I2-AX sensors for the tactical class PSS-T system, one (1) Kestrel Block II system, one (1) MX-20HD ISR camera sensor turret, two (2) MX-25D ISR cameras. The MX-20HD ISRs will be needed for systems that fly three sensors (one MX-25D, one MX-20HD, plus another sensor ex. Kestrel, HARC, etc) rather than two sensors (two MX-25D sensors). Two MX-25D ISRs cannot be flown due to weight restrictions to support the Direct War Cost for Operation Freedom Sentinel (OFS).

FY2022 base procurement dollars of \$3.459 million will procure high dollar spares kits consisting of three (3) Aerostat Envelopes, three (3) Baseline Avionics Kits, and four (4) Pressurization Avionics Units (PAU). Funding will also procure three (3) I2-AX sensors for the tactical class PSS-T system, one (1) Kestrel Block II system, one (1) MX-20HD ISR camera sensor turret, two (2) MX-25D ISR cameras. The MX-20HD ISRs will be needed for systems that fly three sensors (one MX-25D, one MX-20HD, plus another sensor ex. Kestrel, HARC, etc) rather than two sensors (two MX-25D sensors). Two MX-25D ISRs cannot be flown due to weight restrictions to support the Direct War Cost for Operation Inherent Resolve (OIR).

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.	Item Number / Title [DODIC]: BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	209.951	31.493	42.043	14.414	-	14.414
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	209.951	31.493	42.043	14.414	-	14.414
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	209.951	31.493	42.043	14.414	-	14.414

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Aerostat Envelope ^(†)	961.982	56	53.871	735.375	8	5.883	791.625	8	6.333	817.000	3	2.451	-	-	-	817.000	3	2.451
Baseline Avionics Kits ^(†)	397.854	48	19.097	327.000	3	0.981	477.600	15	7.164	487.000	3	1.461	-	-	-	487.000	3	1.461
Tactical Common Data Link ^(†)	433.882	17	7.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pressurization Avionics Unit ^(†)	264.909	11	2.914	333.500	6	2.001	311.250	4	1.245	360.000	4	1.440	-	-	-	360.000	4	1.440
High Antenna Radio Communications (B-Kit) ^(†)	335.000	5	1.675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISR Turret (MX-15)	1,800.000	4	7.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Envelope replacements ^(†)	801.571	7	5.611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Office Support	-	-	1.740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISR Turret (MX-20) ^(†)	1,860.145	55	102.308	1,715.000	5	8.575	1,556.286	7	10.894	1,703.000	1	1.703	-	-	-	1,703.000	1	1.703
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>201.792</i>	<i>-</i>	<i>-</i>	<i>17.440</i>	<i>-</i>	<i>-</i>	<i>25.636</i>	<i>-</i>	<i>-</i>	<i>7.055</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>7.055</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>201.792</i>	<i>-</i>	<i>-</i>	<i>17.440</i>	<i>-</i>	<i>-</i>	<i>25.636</i>	<i>-</i>	<i>-</i>	<i>7.055</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>7.055</i>
Hardware Cost																		
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.	Item Number / Title [DODIC]: BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
ISR Turret (MX-25) ^(†)	2,039.750	4	8.159	2,007.571	7	14.053	1,953.500	2	3.907	2,073.000	2	4.146	-	-	-	2,073.000	2	4.146
I2-AX Sensor ^(†)	-	-	-	-	-	-	-	-	-	270.000	3	0.810	-	-	-	270.000	3	0.810
WAMI Sensor (KB II) ^(†)	-	-	-	-	-	-	-	-	-	2,403.000	1	2.403	-	-	-	2,403.000	1	2.403
Mobile Mooring Platforms (MMP) ^(†)	-	-	-	-	-	-	2,500.000	5	12.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	8.159	-	-	14.053	-	-	16.407	-	-	7.359	-	-	-	-	-	7.359
<i>Subtotal: Hardware Cost</i>	-	-	8.159	-	-	14.053	-	-	16.407	-	-	7.359	-	-	-	-	-	7.359
Gross/Weapon System Cost	-	-	209.951	-	-	31.493	-	-	42.043	-	-	14.414	-	-	-	-	-	14.414

Remarks:

FY 2022 procurement of one (1) KB II sensors is required to support the transition of the KB II sensors sustainment from PM FPS in FY 2022.
 FY 2022 procurement of three (3) I2-AX sensors is required to support the continuing operations of the tactical class aerostat.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	31.493	42.043	14.414	-	14.414
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	31.493	42.043	14.414	-	14.414

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83			P-1 Line Item Number / Title: 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.					Item Number / Title [DODIC]: BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Aerostat Envelope		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Nov 2016	8	804.000	N		
Aerostat Envelope		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Nov 2017	12	876.000	N		
Aerostat Envelope		2018	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG, MD	Mar 2018	Oct 2018	18	861.400	Y		
Aerostat Envelope		2019	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG,MD	May 2019	Dec 2019	16	861.500	Y		
Aerostat Envelope	✓	2020	TCOM / Elizabeth City, NC	C / FFP	ACC-APG; APG, MD	Sep 2020	Apr 2021	8	735.375	Y		
Aerostat Envelope	✓	2021	TCOM / Elizabeth City, NC	C / FFP	ACC-APG: APG, MD	May 2021	Dec 2021	8	791.625	Y		
Aerostat Envelope		2022	TCOM / Elizabeth City, NC	C / FFP	ACC-APG; APG, MD	May 2022	Dec 2022	3	817.000	Y		
Baseline Avionics Kits		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Nov 2016	8	309.000	N		
Baseline Avionics Kits		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Nov 2017	10	379.800	N		
Baseline Avionics Kits		2018	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG, MD	Mar 2018	Dec 2018	13	358.692	Y		
Baseline Avionics Kits		2019	Bravura Information Technology / Aberdeen, MD	C / CPFF	ACC-APG: APG,MD	May 2019	Dec 2019	12	359.167	Y		
Baseline Avionics Kits		2020	TCOM / Elizabeth City, NC	C / CPFF	ACC-APG: APG,MD	May 2020	Dec 2020	3	327.000	Y		
Baseline Avionics Kits	✓	2021	TCOM / Elizabeth City, NC	C / CPFF	ACC-APG: APG,MD	May 2021	Dec 2021	15	477.600	Y		
Baseline Avionics Kits		2022	TCOM / Elizabeth City, NC	C / FFP	ACC-APG; APG, MD	May 2022	Dec 2022	3	487.000	Y		
Tactical Common Data Link		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	May 2017	8	161.000	N		
Tactical Common Data Link		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	May 2018	5	268.000	N		
Pressurization Avionics Unit		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Sep 2016	6	241.000	N		
Pressurization Avionics Unit		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Sep 2017	5	281.000	N		
Pressurization Avionics Unit		2020	TCOM / Elizabeth City, NC	C / FFP	ACC-APG: APG,MD	Mar 2020	Sep 2020	6	333.500	N		
Pressurization Avionics Unit	✓	2021	TCOM / Elizabeth City, NC	C / FFP	ACC-APG: APG,MD	Mar 2021	Sep 2021	4	311.250	N		
Pressurization Avionics Unit		2022	TCOM / Elizabeth City, NC	C / FFP	ACC-APG; APG, MD	Mar 2022	Sep 2022	4	360.000	N		
High Antenna Radio Communications (B-Kit)		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Aug 2018	5	335.000	N		
Envelope replacements		2016	TCOM / Elizabeth City, NC	SS / FFP	NAVAIR: Lakehurst NJ	Mar 2016	Aug 2016	1	410.000	N		
Envelope replacements		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Aug 2017	1	415.000	N		
ISR Turret (MX-20)		2016	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG; APG, MD	Jun 2016	Nov 2016	52	1,857.984	N		
ISR Turret (MX-20)		2020	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG; APG, MD	Feb 2020	Aug 2020	5	1,715.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83			P-1 Line Item Number / Title: 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.				Item Number / Title [DODIC]: BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ISR Turret (MX-20)	✓	2021	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG, MD	Jun 2021	Nov 2021	7	1,556.286	N		
ISR Turret (MX-20)		2022	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG; APG, MD	Jun 2022	Nov 2022	1	1,703.000	N		
ISR Turret (MX-25)		2018	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG, MD	Jun 2018	Dec 2018	2	2,219.333	Y		
ISR Turret (MX-25)		2019	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG,MD	Aug 2019	Feb 2020	1	1,956.000	Y		
ISR Turret (MX-25)		2020	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG,MD	Aug 2020	Feb 2021	7	2,007.571	Y		
ISR Turret (MX-25)	✓	2021	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG,MD	Aug 2021	Feb 2022	2	1,953.500	Y		
ISR Turret (MX-25)		2022	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG, MD	Aug 2022	Mar 2023	2	2,073.000	Y		
I2-AX Sensor		2022	TCOM / Elizabeth City, NC	C / FFP	ACC-APG; APG, MD	Apr 2022	Oct 2022	3	270.000	Y		
WAMI Sensor (KB II)		2022	TCOM / Elizabeth City, NC	C / FFP	ACC-APG; APG, MD	Jun 2022	Dec 2022	1	2,403.000	Y		
Mobile Mooring Platforms (MMP)		2021	TCOM / Elizabeth City, NC	C / FFP	ACC-APG; APG, MD	Jun 2021	Jun 2022	5	2,500.000	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9996BL5283 / COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,910.359	7.418	40.913	19.111	-	19.111	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,910.359	7.418	40.913	19.111	-	19.111	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,910.359	7.418	40.913	19.111	-	19.111	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Detailed description and justification can be found in the Classified Congressional Justification Book.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.418	40.913	19.111	-	19.111	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.418	40.913	19.111	-	19.111	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9996BL5283 / COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BL5283 / COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES				- / 1,910.359	- / 7.418	- / 40.913	- / 19.111	- / -	- / 19.111
P-40	Total Gross/Weapon System Cost				- / 1,910.359	- / 7.418	- / 40.913	- / 19.111	- / -	- / 19.111

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars of \$19.111 million will address European Command (EUCOM) collection gaps. This requirement includes \$14.616 million in support of the Enduring Requirement for Operation European Deterrence Initiative (EDI) and \$4.267 million in support of the Enduring Requirement for Operation Freedom Sentinel (OFS) Initiative.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 9996BL5283 / COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	Item Number / Title [DODIC]: BL5283 / COUNTERINTELLIGENCE/ SECURITY COUNTERMEASURES

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,910.359	7.418	40.913	19.111	-	19.111
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,910.359	7.418	40.913	19.111	-	19.111
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,910.359	7.418	40.913	19.111	-	19.111

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Counterintelligence/ Security Countermeasures	-	-	1,910.359	-	-	7.418	-	-	40.913	-	-	19.111	-	-	-	-	-	19.111
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,910.359</i>	-	-	<i>7.418</i>	-	-	<i>40.913</i>	-	-	<i>19.111</i>	-	-	-	-	-	<i>19.111</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,910.359</i>	-	-	<i>7.418</i>	-	-	<i>40.913</i>	-	-	<i>19.111</i>	-	-	-	-	-	<i>19.111</i>
Gross/Weapon System Cost	-	-	1,910.359	-	-	7.418	-	-	40.913	-	-	19.111	-	-	-	-	-	19.111

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	7.418	40.913	19.111	-	19.111
Total:					
Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	7.418	40.913	19.111	-	19.111

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9997BL5285 / CI MODERNIZATION
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.982	0.121	0.300	0.421	-	0.421	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.982	0.121	0.300	0.421	-	0.421	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.982	0.121	0.300	0.421	-	0.421	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Counterintelligence (CI) Modernization effort provides resources for the sustainment of the CI information technology infrastructure used by the CI components of the Army. This architecture and infrastructure includes shared databases, workstations, global communications, and adequate connectivity for CI agents and specialists.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.121	0.300	0.421	-	0.421	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.121	0.300	0.421	-	0.421	-	-	-

Justification:

FY 2022 Base Funding is in the amount of \$0.421 million provides for Counterintelligence (CI) Modernization efforts.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0214400A, 0604820A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	640.578	133.910	92.380	47.642	-	47.642	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	640.578	133.910	92.380	47.642	-	47.642	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	640.578	133.910	92.380	47.642	-	47.642	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This system is a component of the overall Air and Missile Defense (AMD) architecture and will provide for an incrementally fielded Integrated Air and Missile Defense Fire Control System/capability for the composite Army Air and Missile Defense Brigades. The Sentinel system is a key component of the Army Integrated Air and Missile Defense (AIAMD) architecture, providing critical air surveillance of the forward areas.

Sentinel A3 consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe (IFF), and Forward Area Air Defense (FAAD) Command, Control and Intelligence (C2I) interfaces. The radar is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar (C-RAM) missions. The sensor is an advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. It provides 360-degree azimuth coverage for acquisition tracking. Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying and reporting targets (cruise missiles, unmanned aircraft systems, rotary wing and fixed wing aircraft). Sentinel acquires targets sufficiently forward of the battle area to allow weapons reaction time and allow engagement at optimum ranges. Sentinel's integrated IFF reduces the potential for fratricide of US and Coalition aircraft.

The Sentinel A4 Active Electronically Scanned Array (AESA) is the next generation of radar technology to replace the current phase and frequency scanned array used by Sentinel today. Sentinel A4 hardware and software upgrades will extend the range for ground-based surveillance and situational awareness; will have faster and more accurate Non-Cooperative Target Recognition (NCTR) for clearing fires and preventing fratricide; will improve track accuracy, and management of larger track loads; and improve operation in severe/urban clutter. The system will provide simultaneous multi-mission capability and provides hemispherical surveillance to detect and track small targets, such as UAS and Cruise Missiles, in clutter and will detect and track slow targets, such as UAS and Rotary Wing aircraft, at low altitudes in clutter. The system will detect, track, and classify RAM threats and will support AIAMD and IFPC requirements with Fire Control quality tracks. Sentinel A4 will incorporate the upgraded AN/TPX-61 IFF with M-Code capability added by replacing the GB-Gram card with M-Code GB-Gram cards.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	113.093	66.939	47.642	-	47.642	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)					P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: 0214400A, 0604820A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	20.817	25.441	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	133.910	92.380	47.642	-	47.642	-	-	-	-

Empty space for detailed justification										
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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) **P-1 Line Item Number / Title:** 0125WK5057 / Sentinel Mods

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0214400A, 0604820A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	WK5057 / Sentinel Mods (Operational)				- / 640.578	- / 133.910	- / 92.380	- / 47.642	- / -	- / 47.642
P-40	Total Gross/Weapon System Cost				- / 640.578	- / 133.910	- / 92.380	- / 47.642	- / -	- / 47.642

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 procurement dollars of \$47.642 million supports fielding and training efforts for the Signal Data Processor (SDP) kit and the Analog to Digital Converters (ADC) to the field. FY 2022 procurement dollars also fund the procurement of 49 Adjunct Sensor.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-3a, Individual Modification: PB 2022 Army					Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods			Modification Number / Title: WK5057 / Sentinel Mods		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	
Gross/Weapon System Cost <i>(\$ in Millions)</i>	640.578	133.910	92.380	47.642	-	47.642	
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	
Net Procurement (P-1) <i>(\$ in Millions)</i>	640.578	133.910	92.380	47.642	-	47.642	
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	
Total Obligation Authority <i>(\$ in Millions)</i>	640.578	133.910	92.380	47.642	-	47.642	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	

Description:

FY 2022 funds address the following:

The Electronic Attack/Electronic Protect (EA/EP) addresses the electronic countermeasures (ECM) gap. This effort continues integration of Analog to Digital Converters (ADC) in order to address more extensive EA/EP signatures from evolving threats.

The Signal Data Processor (SDP) Upgrade is a redesign of the SDP backplane to provide higher data throughput to remove current limitations and an upgraded set of SDP cards to remove obsolescence. The SDP upgrade integrates a new digital receiver/exciter into each radar. Continues integration of the new SDP kit to address obsolescence issues and allow for additional Electronic Protect capability.

The Adjunct Sensor effort will upgrade existing Sentinel capabilities to provide additional technology for the detection and identification of current and emerging threats. The Adjunct sensor improves system performance and reduces adversary countermeasure abilities by improving system electronic protect capabilities. The Adjunct Sensor will provide additional capability to the Sentinel A3 for discrimination of stressing targets in challenging environments. The Adjunct Sensor will transition to the Sentinel A4 contractor to be used as government furnished equipment.

In prior years, the Sentinel Modification Program has also addressed:

Improved Sentinel Modifications: waveform upgrades for the Receiver/Exciter and Target Classification including enhancement/replacement of the current Sentinel transmitter with Power Amplifier Modules [PAM]. TPX-57 Mode 5 Identification Friend or Foe (IFF) modification kit replaced the current TPX-56 IFF. It also consisted of a new router, enhanced Radar Control Terminal (eRCT), Signal Data Processor (SDP) box, and multiple circuit card assemblies. The TPX-57 upgrade converted the Sentinel A1 to the Sentinel A3 configuration.

The Common Platform Upgrade will modify the current Sentinel prime mover to a common Army platform to meet Brigade Combat Team (BCT) force protection, as well as meet Integrated Air and Missile Defense Battle Command System (IBCS) system requirements. Transition to a common Army platform is in compliance with Acquisition Decision Memorandum dated August 2011. The current Sentinel platform does not meet the force protection requirements as defined by the BCT maneuver mission and IBCS operational requirements.

Ongoing Modifications include:

The Active Electronically Scanned Array (AESA) (Sentinel A4) is the next generation of radar technology to replace the current phase and frequency scanned array used by Sentinel today. The AESA Antenna will provide increased capability including extended range for ground-based surveillance and situational awareness, faster and more accurate Non-Cooperative Target Recognition (NCTR) for clearing fires and preventing fratricide, improved Fire Control (FC) quality track accuracy, and management of larger track loads. The AESA will also provide improved operation in severe/urban clutter. The system will detect and track small targets, such as Unmanned Aircraft Systems (UAS) and Cruise Missiles, in clutter and will detect and track slow targets, such as UAS and Rotary Wing (RW) aircraft, at low altitudes in clutter. The

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Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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system will detect, track, and classify Rocket, Artillery, and Mortar (RAM) threats, support the Army Integrated Air and Missile Defense (AIAMD) architecture, and contribute sensor support for current and future Indirect Fire Protection Capability Increment 2 mission requirements. The Mode S capability will be integrated as a part of the Sentinel A4 modification.

The North Finding Module (NFM) Upgrade will enhance the system's emplacement accuracy, resulting in improved fire control support and replacement of the obsolete NFM.

Additional Obsolescence Mitigation Items to keep Sentinel A3 sustainable in the field until all assets are converted to the Sentinel A4 configuration. Obsolescence items procured include the enhanced Radar Control Terminal (eRCT) and routers which are both obsolete. The hardware will transition as Government Furnished Equipment to the Sentinel A4 contractor.

Production for the Enhanced Sentinel [AN/MPQ-64A3] consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe [IFF], and Forward Area Air Defense [FAAD] Command, Control and Intelligence [C2I] interfaces. The radar is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar [C-RAM] missions. The sensor is advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. The Enhanced Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols and enemy countermeasures. It provides 360-degree azimuth coverage for acquisition tracking. The Enhanced Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying and reporting targets [cruise missiles, unmanned aircraft systems, rotary wing and fixed wing aircraft]. Enhanced Sentinel acquires targets sufficiently forward of the battle area to allow weapons reaction time and engagement at optimum ranges. The Sentinel's integrated IFF reduces the potential for fratricide of US and Coalition aircraft. Additional Sentinel A3 radar systems will be procured to support both the Interim Maneuver Short-range Air Defense (IM-SHORAD) battalions and the European Deterrence Initiative (EDI).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	113.093	66.939	47.642	-	47.642
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	20.817	25.441	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	133.910	92.380	47.642	-	47.642

Development Status/Major Development Milestones

Date	Title	Description
Jun 2017	North Finding Module	Contract award for Base year.
Dec 2018	Electronic Attack/Electronic Protect (ADC)	Contract award for Base year. Option 3 Award: December 2020.
Dec 2018	Signal Data Processor	Contract award for Base year. Option 3 Award: December 2020.
Dec 2018	AN/MPQ-64A3 New Production	Contract Award for Base year production. Option 3 Award: December 2020.
Apr 2023	Sentinel A4 Low Rate Initial Production Option	Priced contract options for exercise of LRIP.

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Exhibit P-3a, Individual Modification: PB 2022 Army					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods		Modification Number / Title: WK5057 / Sentinel Mods	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: Sentinel [AN/MPQ-64]		Modification Type: Operational			Related RDT&E PEs:	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement						
Modification Item 1 of 7: Prior Modifications						
A Kits						
Recurring						
Equipment	433 / 367.187	- / -	- / -	- / -	- / -	- / -
Engineering Services	- / 4.935	- / -	- / -	- / -	- / -	- / -
Govt Program Management/Admin Support	- / 9.850	- / -	- / -	- / -	- / -	- / -
Other Flyaway Support	- / 26.236	- / -	- / -	- / -	- / -	- / -
Initial Spares	- / 9.504	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	433 / 417.712	- / -	- / -	- / -	- / -	- / -
Subtotal: Prior Modifications	433 / 417.712	- / -	- / -	- / -	- / -	- / -
Modification Item 2 of 7: North Finding Module						
A Kits						
Recurring						
Equipment	199 / 31.180	- / -	- / -	- / -	- / -	- / -
Engineering Services	- / 0.905	- / 0.174	- / -	- / -	- / -	- / -
Govt Program Management / Admin Support	- / 2.022	- / 0.046	- / -	- / -	- / -	- / -
Other Flyaway Support	- / 5.734	- / 0.559	- / -	- / -	- / -	- / -
Initial Spares	- / 1.475	- / -	- / -	- / -	- / -	- / -
Subtotal: Recurring	199 / 41.316	- / 0.779	- / -	- / -	- / -	- / -
Subtotal: North Finding Module	199 / 41.316	- / 0.779	- / -	- / -	- / -	- / -
Modification Item 3 of 7: Electronic Attack/Electronic Protect (ADC)						
A Kits						
Recurring						
Equipment	62 / 1.638	50 / 1.221	69 / 1.576	- / -	- / -	- / -
Engineering Services	- / 0.356	- / 0.521	- / 0.459	- / -	- / -	- / -
Govt Program Management	- / 0.191	- / 0.117	- / 0.156	- / -	- / -	- / -
Other Flyaway Costs	- / 1.821	- / 0.832	- / 0.852	- / -	- / -	- / -
Initial Spares	- / 0.081	- / 0.057	- / 0.073	- / -	- / -	- / -
Subtotal: Recurring	62 / 4.087	50 / 2.748	69 / 3.116	- / -	- / -	- / -
Subtotal: Electronic Attack/Electronic Protect (ADC)	62 / 4.087	50 / 2.748	69 / 3.116	- / -	- / -	- / -
Modification Item 4 of 7: Signal Data Processor						

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Exhibit P-3a, Individual Modification: PB 2022 Army					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods		Modification Number / Title: WK5057 / Sentinel Mods	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: Sentinel [AN/MPQ-64]		Modification Type: Operational			Related RDT&E PEs:	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
A Kits						
Recurring						
Equipment	62 / 45.272	50 / 29.167	69 / 36.628	- / -	- / -	- / -
Engineering Services	- / 0.346	- / 0.463	- / 0.429	- / -	- / -	- / -
Govt Program Management	- / 2.169	- / 1.828	- / 1.171	- / -	- / -	- / -
Other Flyaway Support	- / 4.176	- / 2.287	- / 1.518	- / -	- / -	- / -
Initial Spares	- / 2.051	- / 1.411	- / 1.851	- / -	- / -	- / -
Subtotal: Recurring	62 / 54.014	50 / 35.156	69 / 41.597	- / -	- / -	- / -
Subtotal: Signal Data Processor	62 / 54.014	50 / 35.156	69 / 41.597	- / -	- / -	- / -
Modification Item 5 of 7: Enhanced Sentinel AN/MPQ-64A3 Production						
A Kits						
Recurring						
Equipment	19 / 89.295	13 / 70.696	6 / 32.459	- / -	- / -	- / -
Engineering Services	- / 0.825	- / 0.652	- / 0.047	- / -	- / -	- / -
Govt Program Management	- / 5.304	- / 4.437	- / 0.317	- / -	- / -	- / -
Initial Spares	- / 5.828	- / 4.615	- / 2.200	- / -	- / -	- / -
Other Flyaway Support	- / 14.500	- / 11.876	- / 5.065	- / -	- / -	- / -
Subtotal: Recurring	19 / 115.752	13 / 92.276	6 / 40.088	- / -	- / -	- / -
Subtotal: Enhanced Sentinel AN/MPQ-64A3 Production	19 / 115.752	13 / 92.276	6 / 40.088	- / -	- / -	- / -
Modification Item 6 of 7: Hardware Obsolescence						
A Kits						
Recurring						
Equipment	- / -	- / -	198 / 4.208	- / -	- / -	- / -
Engineering Services	- / -	- / -	- / 0.055	- / -	- / -	- / -
Govt Program Management/Admin Support	- / -	- / -	- / 0.176	- / -	- / -	- / -
Other Flyaway Support	- / -	- / -	- / 0.211	- / -	- / -	- / -
Initial Spares	- / -	- / -	- / 0.372	- / -	- / -	- / -
Subtotal: Recurring	- / -	- / -	198 / 5.022	- / -	- / -	- / -
Subtotal: Hardware Obsolescence	- / -	- / -	198 / 5.022	- / -	- / -	- / -
Modification Item 7 of 7: Adjunct Sensor						
A Kits						
Recurring						

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Exhibit P-3a, Individual Modification: PB 2022 Army					Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods		Modification Number / Title: WK5057 / Sentinel Mods	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:		
Models of Systems Affected: Sentinel [AN/MPQ-64]		Modification Type: Operational			Related RDT&E PEs:	
Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Equipment	- / -	- / -	- / -	49 / 36.652	- / -	49 / 36.652
Engineering Services	- / -	- / -	- / -	- / 0.147	- / -	- / 0.147
Govt Program Management / Admin Support	- / -	- / -	- / -	- / 1.960	- / -	- / 1.960
Other Flyaway Support	- / -	- / -	- / -	- / 2.252	- / -	- / 2.252
Initial Spares	- / -	- / -	- / -	- / 1.505	- / -	- / 1.505
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	49 / 42.516	- / -	49 / 42.516
<i>Subtotal: Adjunct Sensor</i>	- / -	- / -	- / -	49 / 42.516	- / -	49 / 42.516
<i>Subtotal: Procurement, All Modification Items</i>	775 / 632.881	113 / 130.959	342 / 89.823	49 / 42.516	- / -	49 / 42.516
Installation						
<i>Modification Item 1 of 7: Prior Modifications</i>	433 / 6.504	- / -	- / -	- / -	- / -	- / -
<i>Modification Item 2 of 7: North Finding Module</i>	150 / 1.193	49 / 0.326	- / -	- / -	- / -	- / -
<i>Modification Item 3 of 7: Electronic Attack/Electronic Protect (ADC)</i>	- / -	20 / 0.233	31 / 0.233	61 / 0.459	- / -	61 / 0.459
<i>Modification Item 4 of 7: Signal Data Processor</i>	- / -	20 / 2.392	31 / 2.199	61 / 4.287	- / -	61 / 4.287
<i>Modification Item 6 of 7: Hardware Obsolescence</i>	- / -	- / -	50 / 0.125	148 / 0.380	- / -	148 / 0.380
<i>Subtotal: Installation</i>	583 / 7.697	89 / 2.951	112 / 2.557	270 / 5.126	- / -	270 / 5.126
Total						
Total Cost (Procurement + Support + Installation)	640.578	133.910	92.380	47.642	-	47.642

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Exhibit P-3a, Individual Modification: PB 2022 Army							Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods				Modification Number / Title: WK5057 / Sentinel Mods					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Modification Item 1 of 7: Prior Modifications													
Manufacturer Information													
Manufacturer Name: Thales Raytheon Systems							Manufacturer Location: Fullerton, CA						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates		FY 2020				FY 2021				FY 2022			
Contract Dates													
Delivery Dates													
Installation Information													
Method of Implementation: Various QTY implemented at Contractor Facility													
Installation Cost		Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)	
Prior Years		433 / 6.504		- / -		- / -		- / -		- / -		- / -	
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -	
FY 2021		0 / 0.000		- / -		- / -		- / -		- / -		- / -	
FY 2022		0 / 0.000		- / -		- / -		- / -		- / -		- / -	
Total		433 / 6.504		- / -		- / -		- / -		- / -		- / -	
Installation Schedule													
	PYS	FY 2020				FY 2021				FY 2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	433	-	-	-	-	-	-	-	-	-	-	-	-
Out	433	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 7: North Finding Module

Manufacturer Information

Manufacturer Name: Honeywell	Manufacturer Location: Clearwater, Fl
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12

Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			

Installation Information

Method of Implementation: Field Install

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	150 / 1.193	49 / 0.326	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -
Total	150 / 1.193	49 / 0.326	- / -	- / -	- / -	- / -

Installation Schedule

PYS	PYS	FY 2020				FY 2021				FY 2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	199	-	-	-	-	-	-	-	-	-	-	-	-
Out	150	30	19	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 7: Electronic Attack/Electronic Protect (ADC)

Manufacturer Information

Manufacturer Name: Raytheon		Manufacturer Location: Fullerton, CA	
Administrative Leadtime (in Months): 9		Production Leadtime (in Months): 15	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2020	Jun 2021	
Delivery Dates	Oct 2021	Oct 2022	

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	20 / 0.233	31 / 0.233	11 / 0.083	- / -	11 / 0.083
FY 2020	- / -	- / -	- / -	50 / 0.376	- / -	50 / 0.376
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -
Total	- / -	20 / 0.233	31 / 0.233	61 / 0.459	- / -	61 / 0.459

Installation Schedule

PYS	FY 2020				FY 2021				FY 2022				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
In	62	15	15	10	10	17	17	17	18	-	-	-	-
Out	-	5	5	5	5	8	8	8	7	15	15	15	16

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Exhibit P-3a, Individual Modification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 4 of 7: Signal Data Processor

Manufacturer Information

Manufacturer Name: Raytheon		Manufacturer Location: Fullerton, CA	
Administrative Leadtime (in Months): 9		Production Leadtime (in Months): 15	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Jun 2020	Jun 2021	
Delivery Dates	Oct 2021	Oct 2022	

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	20 / 2.392	31 / 2.199	11 / 0.848	- / -	11 / 0.848
FY 2020	- / -	- / -	- / -	50 / 3.439	- / -	50 / 3.439
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -
Total	- / -	20 / 2.392	31 / 2.199	61 / 4.287	- / -	61 / 4.287

Installation Schedule

	PYS	FY 2020				FY 2021				FY 2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	62	15	15	10	10	17	17	17	18	-	-	-	-
Out	-	5	5	5	5	8	8	8	7	15	15	15	16

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Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	
Modification Number / Title: WK5057 / Sentinel Mods			
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 5 of 7: Enhanced Sentinel AN/MPQ-64A3 Production			
Manufacturer Information			
Manufacturer Name: Raytheon		Manufacturer Location: Fullerton, CA	
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 18	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Sep 2020	Dec 2020	
Delivery Dates	Mar 2022	Jun 2022	
Installation Information			
Method of Implementation (Organic): Contractor Facility		Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 6 of 7: Hardware Obsolescence

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 3

Dates	FY 2020	FY 2021	FY 2022
Contract Dates		Jun 2021	
Delivery Dates		Sep 2021	

Installation Information

Method of Implementation: Field Install

Installation Cost	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	50 / 0.125	148 / 0.380	- / -	148 / 0.380
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	50 / 0.125	148 / 0.380	- / -	148 / 0.380

Installation Schedule

PYS	FY 2020				FY 2021				FY 2022			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	-	-	-	-	-	50	49	50	49	-	-	-
Out	-	-	-	-	-	-	-	50	49	50	49	-

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Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	
Modification Number / Title: WK5057 / Sentinel Mods			
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
Modification Item 7 of 7: Adjunct Sensor			
Manufacturer Information			
Manufacturer Name: Copious Imaging, Inc		Manufacturer Location: Lexington, Ma	
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 10	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			Jan 2022
Delivery Dates			Nov 2022
Installation Information			
Method of Implementation (Organic): Field Install		Installation Quantity: 49	

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	12,534	1,599	31,878	36,890	-	36,890	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,684.898	85.202	867.823	1,092.341	-	1,092.341	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,684.898	85.202	867.823	1,092.341	-	1,092.341	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,684.898	85.202	867.823	1,092.341	-	1,092.341	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	373.775	53.285	27.223	29.611	-	29.611	-	-	-	-	-	-

Description:

Night Vision Devices (KA3500) is a summary budget line including the following programs:

(1) K36400 - The Enhanced Night Vision Goggle-Binocular (ENVG-B) system is a modular helmet-mounted, passive electro-optical fused sensor imaging device in a binocular configuration. The system integrates dual Image Intensification (I2) sensors with the thermal sensor imagery into a single viewing display. The thermal sensor provides the Soldier with the capability to rapidly detect and recognize human-sized targets in adverse weather, obscurants and in varying light conditions. The dual I2 sensors provide the Soldier with depth perception for ease of low-light level maneuvers and the ability to detect rifle-mounted aiming lights to engage targets. The ENVG-B can also be operated in a monocular configuration by moving one of the two individually rotating monoculars. The ENVG-B has a near infrared (NIR) emitting light source that provides illumination for close-up viewing. The ENVG-B mounts on current Soldier equipment, including the Advanced Combat Helmet (ACH), the Enhanced Combat Helmet (ECH) and Integrated Head Protection System (IHPS). The ENVG-B has a multi-point wireless interface to the Family of Weapon Sights-Individual (FWS-I) and Nett Warrior in order to support augmented reality requirements. The ENVG-B wirelessly operates with the FWS-I to provide Rapid Target Acquisition (RTA) capability. RTA is the capability to view the boresighted/zeroed weapon sight reticle in the ENVG-B display, enabling the Soldier to accurately engage targets without having to bring the weapon to eye level and without the use of active lasers, all while remaining in defilade. The Enhanced Night Vision Goggle-III (ENVG-III) system is a modular helmet-mounted, passive electro-optical fused sensor imaging device in a monocular configuration. The system integrates one Image Intensification (I2) sensor with the thermal sensor imagery into a single viewing display.

(2) B53800 - This program provides funding to procure the Laser Target Locator Module (LTLM) and laser aiming devices. LTLM is a lightweight, handheld, laser target locator module with day and thermal sight capability as well as an internal Global Positioning System (GPS) receiver. LTLM provides the dismounted observer or Scout a fully digital, handheld system to accurately determine target location and the ability to call for fire during all weather and lighting conditions. LTLM improves speed, accuracy, and safety of use over previous systems of this type (e.g., Laser Target Locator System (LTLIS)).

(3) K36401- The Monocular Night Vision Device (MNVD) is a lightweight, handheld or head/helmet-mounted night vision goggle consisting of a single objective lens assembly, state-of-the-art image intensifier technology, and an eyepiece lens assembly. The MNVD supports the tactical level of war; enabling the individual Soldier to see, understand, and act first, permitting superior tactical mobility and decisive engagement during limited visibility conditions.

(4) K36402 - The Integrated Visual Augmentation System (IVAS) provides combat situational awareness and Synthetic Training Environment (STE) squad capability so that Soldiers/Marines can Fight, Rehearse, and Train on the same system. IVAS includes the Heads Up Display (HUD) with on-body computer as the base system along with supportive Soldier power equipment, IVAS network components, Squad Performance Model, Adaptive Squad Architecture, and STE components (STE funded under separate fund lines). HUD is a low profile, see through display system providing 24/7 advanced situational awareness (SA) in all operating environments, fused day/night vision capabilities, day/night rapid target acquisition, and eye protection. IVAS provides movement of information, high level processing, and

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

displays augmented reality information (Blue force tracking, Navigation, etc.) intuitively in three-dimensional space from mission planning data and real-time data including shared coordinate terrain data and machine learning/artificial intelligence processing enabled by tactical cloud package and advanced network services. IVAS uses data driven analytics to provide tactical leaders with metrics and indicators to optimize unit performance and enhance lethality and enables Synthetic Training Environment (STE) squad capability to perform live mixed reality training and rehearsing. IVAS integration through Government owned architecture enables rapid introduction of new and improved capabilities. Funding in this project supports the Army's Soldier Lethality Cross Functional Teams (SL CFT) initiatives.

(5) K35000 - Multi-Function laser devices are small, lightweight Infrared (IR) and/or integrated with visible (red, green, white light, etc.) pointers/illuminators that will have the capability to measure, mark, sense/detect and/or defeat. These lasers are capable of being hand held, tripod mounted or can be mounted on most small arms, individual and crew served weapon systems. The Multi-Function laser devices will be compatible with currently fielded Soldier products and could provide target direction and hand-off during both day and nighttime operations.

Funding in this budget request would procure all devices indicated above and aligns with the National Defense Strategy.

The ENVG Army Acquisition Objective (AAO) is estimated 108,251.

The LTLM AAO is 12,464.

The MNVD AAO is 512,938.

The IVAS APO is 68,000 and the AAO is 121,500.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	1,019	25,375	29,875	-	29,875	-	-	-	-
	Total Obligation Authority	67.563	697.184	879.734	-	879.734	-	-	-	-
ANG	Quantity	559	6,503	6,576	-	6,576	-	-	-	-
	Total Obligation Authority	17.001	170.639	199.175	-	199.175	-	-	-	-
AR	Quantity	21	-	439	-	439	-	-	-	-
	Total Obligation Authority	0.638	-	13.432	-	13.432	-	-	-	-
Total: Secondary Distribution	Quantity	1,599	31,878	36,890	-	36,890	-	-	-	-
	Total Obligation Authority	85.202	867.823	1,092.341	-	1,092.341	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B53800 / Laser Target Locator Systems	P-5a, P-21	A		2,098 / 976.214	999 / 30.382	372 / 14.347	535 / 20.571	- / -	535 / 20.571
P-5	K36400 / Helmet Mounted Enhanced Vision Devices	P-5a, P-21			7,336 / 3,700.188	600 / 50.632	5,202 / 183.000	7,118 / 217.906	- / -	7,118 / 217.906
P-5	K36401 / Night Vision AN/PVS-14 Mods	P-5a			3,100 / 8.496	- / 4.188	- / -	- / -	- / -	- / -
P-5	K36402 / IVAS/Heads Up Display	P-5a, P-21			- / -	- / -	26,304 / 670.476	29,237 / 853.864	- / -	29,237 / 853.864
P-40	Total Gross/Weapon System Cost				12,534 / 4,684.898	1,599 / 85.202	31,878 / 867.823	36,890 / 1,092.341	- / -	36,890 / 1,092.341

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$20.571 million supports the procurement of 535 Laser Target Locator systems.

 FY 2022 Base procurement dollars in the amount of \$217.906 million supports the procurement of 7,118 Enhanced Night Vision Goggles-Binocular systems, fielding and Systems Engineering/Program Management (SEPM).

 FY 2022 Base procurement dollars in the amount of \$853.864 million supports the procurement of 29,237 Head Up Display systems.

 In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	2,098	999	372	535	-	535
Gross/Weapon System Cost (\$ in Millions)	976.214	30.382	14.347	20.571	-	20.571
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	976.214	30.382	14.347	20.571	-	20.571
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	976.214	30.382	14.347	20.571	-	20.571

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	465.307	30.412	38.567	38.450	-	38.450

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Systems Engineering / Program Management (Government) (PMA)	-	-	44.362	-	-	0.927	-	-	0.945	-	-	0.964	-	-	-	-	-	0.964
Systems Engineering / Program Management (Government) (Matrix)	-	-	9.064	-	-	0.613	-	-	0.864	-	-	0.884	-	-	-	-	-	0.884
New Equipment Training	-	-	8.435	-	-	0.943	-	-	1.209	-	-	1.585	-	-	-	-	-	1.585
<i>Subtotal: Recurring Cost</i>	-	-	<i>61.861</i>	-	-	<i>2.483</i>	-	-	<i>3.018</i>	-	-	<i>3.433</i>	-	-	-	-	-	<i>3.433</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>61.861</i>	-	-	<i>2.483</i>	-	-	<i>3.018</i>	-	-	<i>3.433</i>	-	-	-	-	-	<i>3.433</i>
Hardware Cost																		
Recurring Cost																		
Manufacturing (Laser Target Locator Module System) ^(†)	77.591	11,668	905.337	27.927	999	27.899	31.849	351	11.179	31.688	535	16.953	-	-	-	31.688	535	16.953
Initial Spares (Tripods)	-	-	7.549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares (Reparables)	0.320	4,600	1.470	-	-	-	-	-	0.150	-	-	0.185	-	-	-	-	-	0.185
<i>Subtotal: Recurring Cost</i>	-	-	<i>914.356</i>	-	-	<i>27.899</i>	-	-	<i>11.329</i>	-	-	<i>17.138</i>	-	-	-	-	-	<i>17.138</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>914.356</i>	-	-	<i>27.899</i>	-	-	<i>11.329</i>	-	-	<i>17.138</i>	-	-	-	-	-	<i>17.138</i>
Gross/Weapon System Cost	465.307	2,098	976.214	30.412	999	30.382	38.567	372	14.347	38.450	535	20.571	-	-	-	38.450	535	20.571

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Remarks:
 FY21: LTLM II unit prices are based on the contract's range pricing and are higher due to the lower quantity.
 Based on the current execution of the program FY21 quantity data should be 351 as shown on the P-5. Quantities will be updated to adjust for the latest data when the database is open.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	419	58	7	-	7
	Total Obligation Authority	12.743	1.465	0.269	-	0.269
ANG	Quantity	559	314	528	-	528
	Total Obligation Authority	17.001	12.882	20.302	-	20.302
AR	Quantity	21	-	-	-	-
	Total Obligation Authority	0.638	-	-	-	-
Total:	Quantity	999	372	535	-	535
Secondary Distribution	Total Obligation Authority	30.382	14.347	20.571	-	20.571

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Manufacturing (Laser Target Locator Module System) ^(†)		2020	Optics 1, Inc / Bedford, NH	C / FFP	ACC APG	Mar 2020	Nov 2020	999	27.927	Y		
Manufacturing (Laser Target Locator Module System) ^(†)		2021	Optics 1, Inc / Bedford, NH	C / FFP	ACC APG	Mar 2021	Nov 2021	351	31.849	Y		
Manufacturing (Laser Target Locator Module System) ^(†)		2022	Optics 1, Inc / Bedford, NH	C / FFP	ACC APG	Mar 2022	Sep 2022	535	31.688	Y		

^(†) indicates the presence of a P-21

Remarks:

LTLM II contract is an Indefinite Delivery / Indefinite Quantity Firm-Fixed Price contract with range pricing.

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** 0140KA3500 / Night Vision Devices **Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												BALANCE														
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P													
Manufacturing (Laser Target Locator Module System)																																												
Prior Years Deliveries: 11668																																												
1		2020	ARMY	999	0	999																							80	80	80	85	85	85	85	85	85	85	85	84	80			
1		2021	ARMY	351	0	351																																					351	
1		2022	ARMY	535	0	535																																						535
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P														

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 1	BAL D U E A S O F 1 O C T	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Manufacturing (Laser Target Locator Module System)																																			
Prior Years Deliveries: 11668																																			
1	2020	ARMY	999	919	80	80																								0					
1	2021	ARMY	351	0	351	-	35	35	35	35	35	35	35	35	35	35														0					
1	2022	ARMY	535	0	535																									0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices				Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Optics 1, Inc - Bedford, NH	35	120	240	2	5	8	13	2	5	6	11

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	7,336	600	5,202	7,118	-	7,118
Gross/Weapon System Cost (\$ in Millions)	3,700.188	50.632	183.000	217.906	-	217.906
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,700.188	50.632	183.000	217.906	-	217.906
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,700.188	50.632	183.000	217.906	-	217.906

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	504.388	84.387	35.179	30.613	-	30.613

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PROJECT MANAGMENT ADMINISTRATIVE)	-	-	224.274	-	-	1.964	-	-	7.706	-	-	5.555	-	-	-	-	-	5.555
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX SUPPORT)	-	-	26.681	-	-	3.418	-	-	2.484	-	-	3.125	-	-	-	-	-	3.125
FIELDING	-	-	2,555.385	-	-	4.442	-	-	5.200	-	-	3.660	-	-	-	-	-	3.660
CONTRACTOR LOGISTICS SUPPORT	-	-	-	-	-	-	-	-	1.185	-	-	4.716	-	-	-	-	-	4.716
SUPPORT EQUIPMENT COMMON (TEST MEASUREMENT DIAGNOSTIC EQUIPMENT)	-	-	9.634	-	-	-	-	-	-	-	-	1.319	-	-	-	-	-	1.319

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
INITIAL SPARES (REPARABLES)	-	-	38.444	-	-	0.020	-	-	15.224	-	-	17.614	-	-	-	-	-	17.614
RECURRING ENGINEERING (ENGINEERING CHANGE PROPOSALS)	-	-	3.500	-	-	-	-	-	1.500	-	-	5.284	-	-	-	-	-	5.284
SUPPORT EQUIPMENT COMMON (TEST SETS)	-	-	2.500	-	-	3.000	-	-	2.000	-	-	-	-	-	-	-	-	-
ENVG-III QUAL/ RETROFITS	-	-	6.334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INITIAL SPARES (REPARABLES) (HEADED MOUNTED ASSEMBLY)	-	-	35.989	-	-	-	-	-	8.826	-	-	0.064	-	-	-	-	-	0.064
<i>Subtotal: Recurring Cost</i>	-	-	2,902.741	-	-	12.844	-	-	44.125	-	-	41.337	-	-	-	-	-	41.337
Non Recurring Cost																		
NON-RECURRING PRODUCTION (ENGINEERING SERVICES)	-	-	21.979	-	-	19.010	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NON-RECURRING PRODUCTION (ORGANIC LIGHT-EMITTING DIODE)	-	-	-	-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	21.979	-	-	24.010	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	2,924.720	-	-	36.854	-	-	44.125	-	-	41.337	-	-	-	-	-	41.337
Hardware Cost																		
Recurring Cost																		
MANUFACTURING ^(f)	13.986	55,446	775.480	25.234	546	13.778	26.302	5,280	138.875	24.806	7,118	176.572	-	-	-	24.806	7,118	176.572
<i>Subtotal: Recurring Cost</i>	-	-	775.480	-	-	13.778	-	-	138.875	-	-	176.572	-	-	-	-	-	176.572
<i>Subtotal: Hardware Cost</i>	-	-	775.480	-	-	13.778	-	-	138.875	-	-	176.572	-	-	-	-	-	176.572
Gross/Weapon System Cost	504.388	7,336	3,700.188	84.387	600	50.632	35.179	5,202	183.000	30.613	7,118	217.906	-	-	-	30.613	7,118	217.906

Remarks:

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

In FY 2020, approximately \$4 million of the Systems Engineering/Program Management (Government) (Project Management Administrative) was funded with FY 2019 carryover funds.

In FY 2020, FY 2021 and FY 2022, Systems Engineering/Program Management (Government) (Project Management Administrative) funds both ENVG-B and the final procurement funded activities associated with the ENVG-III program, i.e., new equipment training.

In FY 2020, the Resource Summary of 600 Procurement Quantity is correct, 300 were procured with FY 2019 funds.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	600	5,202	5,078	-	5,078
	Total Obligation Authority	50.632	183.000	155.475	-	155.475
ANG	Quantity	-	-	1,601	-	1,601
	Total Obligation Authority	-	-	48.999	-	48.999
AR	Quantity	-	-	439	-	439
	Total Obligation Authority	-	-	13.432	-	13.432
Total:	Quantity	600	5,202	7,118	-	7,118
Secondary Distribution	Total Obligation Authority	50.632	183.000	217.906	-	217.906

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices				Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MANUFACTURING ^(†)		2020	L3Harris / Londonderry, NH	C / FFP	ACC-APG	Sep 2020	Dec 2021	546	25.234	Y		
MANUFACTURING ^(†)		2021	TBD / ACC-APG	C / FFP	TBD	Jul 2021	Apr 2022	5,280	26.302	Y		
MANUFACTURING ^(†)		2022	TBD / ACC-APG	C / FFP	TBD	Jul 2022	Jan 2023	7,118	24.806	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices										Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022														Fiscal Year 2023														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

MANUFACTURING

Prior Years Deliveries: 55446

1	2020	ARMY	546	0	546	-	-	84	155	155	152															0										
2	2021	ARMY	5,280	0	5,280	-	-	-	-	-	-	392	478	630	630	630	630	630	630	630	630	630	630	630	630	630	630	0								
2	2022	ARMY	7,118	0	7,118															A	-	-	-	-	-	597	597	597	597	597	597	597	597	597	597	1,745
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices										Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

MANUFACTURING

Prior Years Deliveries: 55446																																		
1	2020	ARMY	546	546	0																													0
2	2021	ARMY	5,280	5,280	0																													0
2	2022	ARMY	7,118	5,373	1,745	597	597	551																									0	

						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	L3Harris - Londonderry, NH	200	500	1,300	2	11	15	26	2	4	11	15
2	TBD - ACC-APG	200	500	1,300	2	9	9	18	2	9	10	19

Remarks:
Both the FY 2021 and FY 2022 delivery order quantities will be competitively awarded between the 2 existing manufactures; L3 Harris and Elbit Systems of America.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36401 / Night Vision AN/PVS-14 Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	3,100	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.496	4.188	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8.496	4.188	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.496	4.188	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2.741	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MANUFACTURING ^(†)	2.049	3,100	6.352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PMA)	-	-	1.653	-	-	0.512	-	-	-	-	-	-	-	-	-	-	-	-
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX Support)	-	-	0.491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	8.496	-	-	0.512	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	8.496	-	-	0.512	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	-	-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	-	-	-	3.264	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	3.264	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices						Item Number / Title [DODIC]: K36401 / Night Vision AN/PVS-14 Mods					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	2.741	3,100	8.496	-	-	4.188	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.188	-	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.188	-	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36401 / Night Vision AN/PVS-14 Mods
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MANUFACTURING		2020	TBD / TBD	C / IDIQ	ACC-APG	Jan 2020	Jul 2020	0	0.000	Y		

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Exhibit P-5, Cost Analysis: PB 2022 Army						Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices			Item Number / Title [DODIC]: K36402 / IVAS/Heads Up Display		
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:		
Resource Summary			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	26,304	29,237	-	29,237
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	-	670.476	853.864	-	853.864
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	-	670.476	853.864	-	853.864
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	-	670.476	853.864	-	853.864
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (<i>\$ in Millions</i>)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)			-	-	25.490	29.205	-	29.205

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Heads-Up Display/ Puck ^(f)	-	-	-	-	-	-	22.785	15,200	346.335	21.355	29,237	624.347	-	-	-	21.355	29,237	624.347
Conformal Wearable Battery ^(f)	-	-	-	-	-	-	0.898	45,600	40.959	0.898	87,711	78.785	-	-	-	0.898	87,711	78.785
Advanced Battery Charger ^(f)	-	-	-	-	-	-	6.271	303	1.900	6.373	584	3.722	-	-	-	6.373	584	3.722
Tactical Cloud Package ^(f)	-	-	-	-	-	-	125.000	111	13.875	127.880	217	27.750	-	-	-	127.880	217	27.750
Initial Spares	-	-	-	-	-	-	-	-	3.072	-	-	5.451	-	-	-	-	-	5.451
Radios	-	-	-	-	-	-	2.995	15,200	45.520	-	-	-	-	-	-	-	-	-
CLS Equipment Repair	-	-	-	-	-	-	-	-	2.055	-	-	1.176	-	-	-	-	-	1.176
Fielding	-	-	-	-	-	-	-	-	11.100	-	-	11.600	-	-	-	-	-	11.600
Program Management Support	-	-	-	-	-	-	-	-	56.339	-	-	37.073	-	-	-	-	-	37.073
Tactical Software	-	-	-	-	-	-	-	-	7.858	-	-	22.972	-	-	-	-	-	22.972
OTA Program Management	-	-	-	-	-	-	-	-	25.000	-	-	25.000	-	-	-	-	-	25.000
OTA Engineering and Software Support	-	-	-	-	-	-	-	-	16.000	-	-	16.000	-	-	-	-	-	16.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>570.013</i>	-	-	<i>853.876</i>	-	-	-	-	-	<i>853.876</i>
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices						Item Number / Title [DODIC]: K36402 / IVAS/Heads Up Display					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Non-Recurring Production Start	-	-	-	-	-	-	-	-	100.472	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	100.472	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	670.485	-	-	853.876	-	-	-	-	-	853.876
Gross/Weapon System Cost	-	-	-	-	-	-	25.490	26,304	670.476	29.205	29,237	853.864	-	-	-	29.205	29,237	853.864

Remarks:

IVAS single channel radios will be procured by Program Executive Office Command Control Communications-Tactical (C3T) in FY2022 and beyond in B95004 Handheld Manpack Small Form Fit (HMS).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	20,115	24,790	-	24,790
	Total Obligation Authority	-	512.719	723.990	-	723.990
ANG	Quantity	-	6,189	4,447	-	4,447
	Total Obligation Authority	-	157.757	129.874	-	129.874
Total: Secondary Distribution	Quantity	-	26,304	29,237	-	29,237
	Total Obligation Authority	-	670.476	853.864	-	853.864

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36402 / IVAS/Heads Up Display
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Heads-Up Display/Puck ^(†)		2021	Microsoft Intial Award / Redmond, WA	C / FFP	Redmond, WA	Mar 2021	Oct 2021	5,000	22.785	Y	Sep 2021	Oct 2020
Heads-Up Display/Puck ^(†)		2021	Microsoft Post STP4 Award / Redmond, WA	C / FFP	Redmond, WA	Jun 2021	Feb 2022	1,500	22.785	Y		
Heads-Up Display/Puck ^(†)		2021	Microsoft Post OT Award / Redmond, WA	C / FFP	Redmond, WA	Sep 2021	Mar 2022	8,700	22.785	Y		
Heads-Up Display/Puck ^(†)		2022	Microsoft FY22 Award / Redmond, WA	C / FFP	Redmond, WA	Mar 2022	Sep 2022	29,237	21.355	Y		
Conformal Wearable Battery		2022	Microsoft FY22 Award / Redmond, WA	C / FFP	Redmond, WA	Mar 2022	Sep 2022	87,711	0.898	Y		
Advanced Battery Charger		2022	Microsoft FY22 Award / Redmond, WA	C / FFP	Redmond, WA	Mar 2022	Sep 2022	584	6.373	Y		
Tactical Cloud Package		2022	Microsoft FY22 Award / Redmond, WA	C / FFP	Redmond, WA	Mar 2022	Sep 2022	217	127.880	Y		

^(†) indicates the presence of a P-21

Remarks:

IVAS Rapid Fielding Decision was approved by the Army Acquisition Executive on 14 DEC 2020 and the Under Secretary of Defense, Acquisition and Sustainment 19 JAN 2021. IVAS follow-on production Other Transaction Agreement was awarded 25 MAR 2021.

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36402 / IVAS/Heads Up Display
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2021												Fiscal Year 2022												B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A S O F 1 O C T	Calendar Year 2021												Calendar Year 2022															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P			
Heads-Up Display/Puck																																		
	1	2021	ARMY	5.000	.000	5.000																												.000
	2	2021	ARMY	1.500	.000	1.500																												.000
	3	2021	ARMY	8.700	.000	8.700																												.000
	4	2022	ARMY	29.237	.000	29.237																												26.737
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36402 / IVAS/Heads Up Display
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Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2023										Fiscal Year 2024										BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G
Heads-Up Display/Puck																														
	1	2021	ARMY	5.000	5.000	.000																							.000	
	2	2021	ARMY	1.500	1.500	.000																							.000	
	3	2021	ARMY	8.700	8.700	.000																							.000	
	4	2022	ARMY	29.237	2.500	26.737	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.237	2.000													.000	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36402 / IVAS/Heads Up Display
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Microsoft Intial Award - Redmond, WA	7,600	7,600	60,000	3	12	6	18	3	2	6	8
2	Microsoft Post STP4 Award - Redmond, WA	7,600	7,600	60,000	3	12	6	18	3	2	6	8
3	Microsoft Post OT Award - Redmond, WA	7,600	7,600	60,000	3	12	6	18	3	2	6	8
4	Microsoft FY22 Award - Redmond, WA	14,500	14,500	60,000	3	12	6	18	3	2	6	8

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	480	1,926	449	1,835	-	1,835	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	165.977	22.623	7.715	21.103	-	21.103	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	165.977	22.623	7.715	21.103	-	21.103	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	165.977	22.623	7.715	21.103	-	21.103	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	345.785	11.746	17.183	11.500	-	11.500	-	-	-	-	-	-

Description:

The Small Tactical Optical Rifle Mounted (STORM) Micro-Laser Rangefinder (MLRF) is a weapon-mounted, multi-function laser system. It provides an eye safe laser rangefinder, digital compass, Infrared (IR) and visible aiming lights, and an IR illuminator for far target location with continuous range, accuracy, weight and power performance enhanced capabilities. STORM is a laser range finder supporting squad and unit level formations. When connected to a Precision Lightweight Global Receiver/Defense Advanced Global Positioning System (GPS) Receiver (PLGR/DAGR), the STORM provides range and direction information to develop accurate and timely far target locations. The STORM addresses the lack of depth perception for night applications through use of its IR illuminator and rangefinder. The latest STORM variant includes a ballistic calculator for Soldiers.

Funding in this project aligns with the National Defense Strategy.

The Army Acquisition Objective (AAO) for this program is 15,250.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	1,904	449	1,101	-	1,101	-	-	-	-
	Total Obligation Authority	22.365	7.715	12.659	-	12.659	-	-	-	-
ANG	Quantity	-	-	734	-	734	-	-	-	-
	Total Obligation Authority	-	-	8.444	-	8.444	-	-	-	-
AR	Quantity	22	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.258	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	1,926	449	1,835	-	1,835	-	-	-	-
	Total Obligation Authority	22.623	7.715	21.103	-	21.103	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0155K35110 / Small Tactical Optical Rifle Mounted MLRF

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604710A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K35110 / Small Tactical Optical Rifle Mounted MLRF	P-5a, P-21	A		480 / 165.977	1,926 / 22.623	449 / 7.715	1,835 / 21.103	- / -	1,835 / 21.103
P-40	Total Gross/Weapon System Cost				480 / 165.977	1,926 / 22.623	449 / 7.715	1,835 / 21.103	- / -	1,835 / 21.103

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base procurement dollars in the amount of \$21.103 million supports the procurement of 1,835 STORM systems for fielding to small unit leaders and Snipers.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF	Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	480	1,926	449	1,835	-	1,835
Gross/Weapon System Cost (\$ in Millions)	165.977	22.623	7.715	21.103	-	21.103
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	165.977	22.623	7.715	21.103	-	21.103
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	165.977	22.623	7.715	21.103	-	21.103

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	345.785	11.746	17.183	11.500	-	11.500

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Systems Engineering / Program Management (Government) (PMA)	-	-	24.227	-	-	1.016	-	-	0.854	-	-	1.054	-	-	-	-	-	1.054
Systems Engineering / Program Management (Matrix) (PMA)	-	-	10.112	-	-	1.296	-	-	1.400	-	-	1.600	-	-	-	-	-	1.600
New Equipment Training	-	-	4.461	-	-	2.228	-	-	1.356	-	-	2.462	-	-	-	-	-	2.462
Initial Spares (Reparables)	-	-	-	-	-	0.117	-	-	0.075	-	-	0.276	-	-	-	-	-	0.276
<i>Subtotal: Recurring Cost</i>	-	-	<i>38.800</i>	-	-	<i>4.657</i>	-	-	<i>3.685</i>	-	-	<i>5.392</i>	-	-	-	-	-	<i>5.392</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>38.800</i>	-	-	<i>4.657</i>	-	-	<i>3.685</i>	-	-	<i>5.392</i>	-	-	-	-	-	<i>5.392</i>
Hardware Cost																		
Recurring Cost																		
Manufacturing (STORM Systems - Prior Contracts (L3))	13.111	9,700	127.172	11.771	480	5.650	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing (STORM II Systems (L3)) ^(†)	-	-	-	8.517	1,446	12.315	8.976	449	4.030	8.562	1,835	15.711	-	-	-	8.562	1,835	15.711
<i>Subtotal: Recurring Cost</i>	-	-	<i>127.172</i>	-	-	<i>17.965</i>	-	-	<i>4.030</i>	-	-	<i>15.711</i>	-	-	-	-	-	<i>15.711</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>127.172</i>	-	-	<i>17.965</i>	-	-	<i>4.030</i>	-	-	<i>15.711</i>	-	-	-	-	-	<i>15.711</i>

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF	Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	345.785	480	165.977	11.746	1,926	22.623	17.183	449	7.715	11.500	1,835	21.103	-	-	-	11.500	1,835	21.103

Remarks:

- 1) FY20 quantities include the final procurement of the 480 STORM SLX variant, the initial LRIP award of 1146 STORM IIs and an estimated 300 systems with carryover funds. The STORM II buy was executed at \$8.637K/system. The carryover funds (\$2.550M) combined with the FY21 funds will help exceed the MSR and achieve improved pricing.
- 2) STORM II unit costs are based on contractual range pricing. Unit costs are lower with higher quantity procurements.
- 3) FY21 Gross Weapon System Unit Cost increase is due to a lower funding level leading to fewer quantities while maintaining a similar level of Program Support.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	1,904	449	1,101	-	1,101
	Total Obligation Authority	22.365	7.715	12.659	-	12.659
ANG	Quantity	-	-	734	-	734
	Total Obligation Authority	-	-	8.444	-	8.444
AR	Quantity	22	-	-	-	-
	Total Obligation Authority	0.258	-	-	-	-
Total: Secondary Distribution	Quantity	1,926	449	1,835	-	1,835
	Total Obligation Authority	22.623	7.715	21.103	-	21.103

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF				Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Manufacturing (STORM II Systems (L3)) ^(†)		2020	L3Harris / Londonderry, NH	C / FFP	ACC-APG	Jul 2020	May 2021	1,446	8.517	Y		
Manufacturing (STORM II Systems (L3)) ^(†)		2021	L3Harris / Londonderry, NH	C / FFP	ACC-APG	Apr 2021	Feb 2022	449	8.976	Y		
Manufacturing (STORM II Systems (L3)) ^(†)		2022	L3Harris / Londonderry, NH	C / FFP	ACC-APG	Mar 2022	Jan 2023	1,835	8.562	Y		

^(†) indicates the presence of a P-21

Remarks:

- 1) The STORM II contract is an Indefinite Delivery / Indefinite Quantity Firm-Fixed Price contract with range pricing.
- 2) Unit costs are lower with higher quantity procurements.

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Exhibit P-21, Production Schedule: PB 2022 Army																							Date: May 2021															
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86												P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF											Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF															
Cost Elements (Units in Each)						Fiscal Year 2020												Fiscal Year 2021												B A L A N C E								
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P							
Manufacturing (STORM II Systems (L3))																																						
	1	2020	ARMY	1,446	0	1,446											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	125	150	150	821	
	2	2021	ARMY	449	0	449																										A	-	-	-	-	-	449
	1	2022	ARMY	1,835	0	1,835																																1,835
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF										Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022															Fiscal Year 2023															B A L A N C E		
O C C O	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 2 1	B A L D U E A S O F 1 O C T	Calendar Year 2022															Calendar Year 2023															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Manufacturing (STORM II Systems (L3))																																					
	1	2020	ARMY	1,446	625	821	175	175	175	175	121																		0								
	2	2021	ARMY	449	0	449	-	-	-	-	10	40	40	40	40	40	40	40	40	40	40	40	40	39						0							
	1	2022	ARMY	1,835	0	1,835						A	-	-	-	-	-	-	-	-	-	-	100	150	150	150	150	150	165	165	165	490					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF										Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2024										Fiscal Year 2025										BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G
Manufacturing (STORM II Systems (L3))																														
	1	2020	ARMY	1,446	1,446	0																								0
	2	2021	ARMY	449	449	0																								0
	1	2022	ARMY	1,835	1,345	490	165	165	160																					0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF
Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	L3Harris - Londonderry, NH	40	150	450	2	11	8	19	2	6	8	14
2	L3Harris - Londonderry, NH	40	150	300	2	9	11	20	2	6	10	16

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	147	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,130.570	29.127	61.069	6.153	-	6.153	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,130.570	29.127	61.069	6.153	-	6.153	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,130.570	29.127	61.069	6.153	-	6.153	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	7,690.952	-	-	-	-	-	-	-	-	-	-	-

Description:

The Rocket, Artillery, Mortar (RAM) Warn program (H30503) provides early, localized warning of indirect fire (IDF) threats to all maneuver brigade combat teams (BCT). It employs the Air Defense Airspace Management (ADAM) Cell already resident in the BCT Headquarters as the command and control (C2) element; uses the existing radars in the target acquisition platoon of the fires battalion as the sense element; and adds enhanced warning, controllers, and dedicated communications devices between the existing radars, ADAM Cell, and warning systems. Army Pre-positioned Stocks (APS) equipment sets are available to supplement the fielded capability based on mission needs. Timely warning will enable those BCT personnel in the hazard area of an inbound IDF threat to seek cover or a prone position prior to impact, thus reducing casualties. RAM Warn was approved for entry into the full rate production (FRP) acquisition phase in April 2014 based on successful completion of low rate initial production (LRIP) exit criteria. RAM Warn completed fielding/training to all BCTs in February 2019. Insertion of the Huntsman Secure Network Radio (HSNR) with embedded encryption will address radio obsolescence and provide operational benefits, including simplified training and setup procedures, due to elimination of the KG-175D network encryption device.

The C-RAM Enhancements line (H30504) provides the Land-based Phalanx Weapon System (LPWS) counter-RAM capability to the Indirect Fire Protection Capability (IFPC)/Avenger Battalions, 5-5 and 2-44 Air Defense Artillery. The LPWS consists of a trailer-mounted, high rate of fire 20mm Gatling gun guided by input from its integrated search and tracking radar and Forward Looking Infrared receiver. It includes two 60 kW generators and a Local Control Station, also mounted on the trailer, as well as a Remote Control Station. The LPWS protects high value ground assets from incoming munitions, such as RAM, as well as unmanned aerial systems (UAS). The Army total of 53 systems includes nine funded by the H30504 line (three delivered and six currently in production). The other 44 systems were produced as a part of the C-RAM Quick Reaction Capability (QRC) for theater operations. The original QRC program transitioned to a post-Milestone C Acquisition Program with the approval of the C-RAM Intercept Capability Production Document on 22 Aug 2013 and the Army Acquisition Executive's approval of an Acquisition Decision Memorandum on 23 August 2013. Due to the continuing deployment of most of the LPWS assets, the redistribution to the IFPC/Avenger Battalions in order to meet Full Operational Capability is still in progress. The most recent hardware version is Spiral 6.4.1 and the most recent software version is Spiral 6.4.3.1. LPWS transitions to organic sustainment in FY 2023.

The Counter-Unmanned Aircraft Systems (C-UAS) effort (H30505) is in response to Joint Urgent Operational Need (JUON) CC-0558 to support identification, development, testing, evaluation, and integration of technologies to provide an overall evolutionary capability to defeat small UAS threats at 89 sites within the U.S. Central Command (USCENTCOM) area of operations. The C-UAS effort provides Soldiers with the ability to comprehensively detect, track, identify, and defeat enemy Groups 1 and 2 commercial off-the-shelf (COTS) UASs with kinetic/non-kinetic means.

Additionally, the C-UAS effort (H30505) supports the Vice Chief of Staff of the Army directed requirement that validates the procurement of Counter-Small Unmanned Aircraft Systems (C-sUAS) for tier 1 prioritized Army fixed sites to address the rapidly emerging UAS threat. The C-UAS effort provides installations and protected assets with the ability to address an UAS threat that has grown in sophistication,

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A

range, lethality, and numbers, reducing exposure to risk to mission as well as Soldiers and families. Army fixed sites and installations will have the ability to comprehensively detect, track, identify, and defeat Groups 1 and 2 UASs.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.127	61.069	6.153	-	6.153	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.127	61.069	6.153	-	6.153	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0173BZ0501 / Indirect Fire Protection Family Of Systems

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604741A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	H30504 / C-RAM Enhancements				6 / 220.942	- / 9.127	- / 20.069	- / 6.153	- / -	- / 6.153
P-5	H30505 / Counter Unmanned Aerial Systems (C-UAS) Efforts				141 / 909.628	- / 20.000	- / 41.000	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				147 / 1,130.570	- / 29.127	- / 61.069	- / 6.153	- / -	- / 6.153

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars (H30504) in the amount of \$6.153 million will provide continuing LPWS logistics support and complete efforts required for transition to sustainment in the 1st quarter of FY 2023 (i.e., New Equipment Training for Battalion maintenance personnel and establishment of the Combined Arms Support Command institutional training base).

FY2022 Base and Direct War procurement dollars (H30505) for Counter-Small Unmanned Aircraft Systems (C-sUAS) have been moved to line item 0219AD0500.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30504 / C-RAM Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	6	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	220.942	9.127	20.069	6.153	-	6.153
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	220.942	9.127	20.069	6.153	-	6.153
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	220.942	9.127	20.069	6.153	-	6.153

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	36,823.667	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware and Integration	11,355.444	9	102.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	102.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	102.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Logistics Cost																		
Recurring Cost																		
Integrated Logistics Support	-	-	101.934	-	-	7.206	-	-	7.976	-	-	4.783	-	-	-	-	-	4.783
<i>Subtotal: Recurring Cost</i>	-	-	101.934	-	-	7.206	-	-	7.976	-	-	4.783	-	-	-	-	-	4.783
Non Recurring Cost																		
RAM Warn (H30503)	-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics Cost</i>	-	-	101.934	-	-	7.206	-	-	17.976	-	-	4.783	-	-	-	-	-	4.783
Support - Program Management Cost																		
Government Management	-	-	12.912	-	-	0.730	-	-	0.796	-	-	0.445	-	-	-	-	-	0.445
<i>Subtotal: Support - Program Management Cost</i>	-	-	12.912	-	-	0.730	-	-	0.796	-	-	0.445	-	-	-	-	-	0.445
Support - Training Cost																		
Services	-	-	3.897	-	-	1.191	-	-	1.297	-	-	0.925	-	-	-	-	-	0.925

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems						Item Number / Title [DODIC]: H30504 / C-RAM Enhancements					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Training Cost</i>	-	-	3.897	-	-	1.191	-	-	1.297	-	-	0.925	-	-	-	-	-	0.925
Gross/Weapon System Cost	36,823.667	6	220.942	-	-	9.127	-	-	20.069	-	-	6.153	-	-	-	-	-	6.153

Remarks:

H30504 Prior Years funding provided a total of nine LPWS systems (three LPWS systems using FY 2017 funding in response to an Operational Needs Statement and six systems using FY 2018 funding to provide readiness floats to support the LPWS overhaul program). Fielding category includes logistics support and fielding.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	9.127	20.069	6.153	-	6.153
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	9.127	20.069	6.153	-	6.153

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30505 / Counter Unmanned Aerial Systems (C-UAS) Efforts

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	141	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	909.628	20.000	41.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	909.628	20.000	41.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	909.628	20.000	41.000	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	6,451.262	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Fixed/Mobile Production & Integration	1,773.660	106	188.008	-	-	-	-	-	6.931	-	-	-	-	-	-	-	-	-
Kinetic Defeat Production & Integration	-	-	217.981	-	-	5.600	104.382	165	17.223	-	-	-	-	-	-	-	-	-
Sensor Procurement & Integration	-	-	249.522	-	-	10.000	-	-	7.000	-	-	-	-	-	-	-	-	-
Dismounted/Handheld Systems Procurement & Integration	-	-	21.808	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Command & Control Hardware	-	-	69.358	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-
CONUS High Priority Sites	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFRICOM Requirements	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	756.677	-	-	17.600	-	-	35.154	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	756.677	-	-	17.600	-	-	35.154	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	112.720	-	-	0.600	-	-	3.256	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	112.720	-	-	0.600	-	-	3.256	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30505 / Counter Unmanned Aerial Systems (C-UAS) Efforts
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Program Management Cost																		
Government Management	-	-	40.231	-	-	1.800	-	-	2.590	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	40.231	-	-	1.800	-	-	2.590	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	6,451.262	141	909.628	-	-	20.000	-	-	41.000	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	20.000	41.000	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	20.000	41.000	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
--	--

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603774A, 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	13,793	8,047	7,951	14,966	-	14,966	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	255.279	81.541	86.389	184.145	-	184.145	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	255.279	81.541	86.389	184.145	-	184.145	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	255.279	81.541	86.389	184.145	-	184.145	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	18.508	10.133	10.865	12.304	-	12.304	-	-	-	-	-	-

Description:

There are three variants in the Family of Weapon Sights (FWS): FWS-Individual (FWS-I), FWS-Crew Served (FWS-CS) and FWS-Sniper (FWS-S). The FWS program enables combat forces to acquire and engage targets with small arms and to conduct surveillance and fire control under day/night obscurants, no-light, and adverse weather conditions. The FWS utilizes advancements in thermal and low light level sensors to produce sights operable in-line with a day optic or in stand-alone mode. The FWS program integrates smaller pixel focal plane arrays into multiple large format sizes to improve sensitivity, clarity, and range, while simultaneously reducing the size, weight and power consumption of all variants.

The FWS-I variant is a weapon mounted thermal sensor that enables Soldiers to fire quickly and accurately from any carry position and with significantly reduced exposure to enemy fire by providing a wireless zeroed weapon aimpoint in the Soldier's Enhanced Night Vision Goggle (ENVG) or Integrated Visual Augmentation System (IVAS).

The FWS-CS variant leverages the success of the FWS-I development effort, and will be the primary sight for the MK19, M240B and M2 on mounted platforms within the Brigade Combat Teams. The FWS-CS system integrates High Definition (HD) Thermal and Day Color imagers, an Integrated Laser Range Finder (ILRF) and ballistic calculator to provide Soldiers with an accurate aimpoint that adjusts automatically for range, ammunition, vertical angle, and weapon type. The FWS-CS includes a wireless HD Helmet Mounted Display (HMD) that receives weapon sight imagery allowing the Soldier to utilize the weapon sight without requiring them to look through the weapon sight's eyepiece. This wireless HMD provides the opportunity for the Soldier to stay in a protected, unexposed posture while still accurately detecting and engaging targets.

The FWS-S variant mounts in-line with the Sniper's direct view optic providing a thermal imagery capability to the host weapon at the weapon's maximum effective range, plus 20% overmatch. FWS-S provides Snipers a large format display with increased pixel density that enables accurate long range engagements while maintaining day sight, extending the lethality and providing exceptional observation.

FWS-I funding supports the Army's Soldier Lethality Cross Functional Teams (SL CFT) initiatives.

FWS-I Army Acquisition Objective (AAO) is 36,443. NOTE: anticipate APO increase to 120,916 to align with Next Generation Squad Weapon and IVAS - being staff through the Organizational Requirements Document Approval Board.

FWS-CS AAO is 25,622

FWS-S AAO is 2,963

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603774A, 0604710A
Line Item MDAP/MAIS Code: N/A		

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	6,438	5,248	10,928	-	10,928	-	-	-	-
	Total Obligation Authority	65.233	57.890	130.931	-	130.931	-	-	-	-
ANG	Quantity	1,609	2,703	3,202	-	3,202	-	-	-	-
	Total Obligation Authority	16.308	28.499	44.671	-	44.671	-	-	-	-
AR	Quantity	-	-	836	-	836	-	-	-	-
	Total Obligation Authority	-	-	8.543	-	8.543	-	-	-	-
Total:	Quantity	8,047	7,951	14,966	-	14,966	-	-	-	-
Secondary Distribution	Total Obligation Authority	81.541	86.389	184.145	-	184.145	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603774A, 0604710A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K22002 / FWS-INDIVIDUAL	P-5a, P-21	B		13,683 / 232.682	8,047 / 81.541	7,951 / 83.820	14,408 / 147.271	- / -	14,408 / 147.271
P-5	K22003 / FWS-CREW SERVED	P-5a, P-21	B		110 / 22.597	- / -	- / -	558 / 25.673	- / -	558 / 25.673
P-5	K22004 / FWS-SNIPER	P-5a, P-21	B		- / -	- / -	- / 2.569	- / 11.201	- / -	- / 11.201
P-40	Total Gross/Weapon System Cost				13,793 / 255.279	8,047 / 81.541	7,951 / 86.389	14,966 / 184.145	- / -	14,966 / 184.145

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$147.271 million supports the procurement of 14,408 FWS-I production systems.

FY 2022 Base procurement dollars in the amount of \$25.673 million supports the procurement of 558 FWS-CS production systems. FWS-CREW SERVED is a new start in FY2022.

FY 2022 Base procurement dollars in the amount of \$11.201 million supports the procurement of 187 FWS-S Government Off The Self (GOTS) systems in a Low Rate Initial Production (LRIP) award.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	13,683	8,047	7,951	14,408	-	14,408
Gross/Weapon System Cost (\$ in Millions)	232.682	81.541	83.820	147.271	-	147.271
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	232.682	81.541	83.820	147.271	-	147.271
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	232.682	81.541	83.820	147.271	-	147.271

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	17.005	10.133	10.542	10.221	-	10.221

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MANUFACTURING (LRIP) ^(†)	8.586	18,593	159.639	-	-	-	-	-	-	98.769	104	10.272	-	-	-	98.769	104	10.272
MANUFACTURING (FRP) ^(†)	-	-	-	8.071	8,681	70.066	8.285	8,249	68.345	7.668	14,305	109.697	-	-	-	7.668	14,305	109.697
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PMA)	-	-	17.394	-	-	3.956	-	-	4.449	-	-	5.460	-	-	-	-	-	5.460
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX Spt)	-	-	9.822	-	-	3.356	-	-	3.539	-	-	3.460	-	-	-	-	-	3.460
DATA	-	-	-	-	-	-	-	-	-	-	-	3.690	-	-	-	-	-	3.690
FIELDING	-	-	15.343	-	-	3.297	-	-	2.781	-	-	3.893	-	-	-	-	-	3.893
RECURRING ENGINEERING (ECPs)	-	-	11.611	-	-	-	-	-	1.134	-	-	3.599	-	-	-	-	-	3.599
SYSTEMS TEST AND EVALUATION	-	-	1.071	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	1.200
INITIAL SPARES (REPARABLES)	-	-	17.792	-	-	0.866	-	-	3.572	-	-	5.999	-	-	-	-	-	5.999

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Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	232.672	-	-	81.541	-	-	83.820	-	-	147.270	-	-	-	-	-	147.270
<i>Subtotal: Flyaway Cost</i>	-	-	232.672	-	-	81.541	-	-	83.820	-	-	147.270	-	-	-	-	-	147.270
Gross/Weapon System Cost	17.005	13,683	232.682	10.133	8,047	81.541	10.542	7,951	83.820	10.221	14,408	147.271	-	-	-	10.221	14,408	147.271

Remarks:

The 104 LRIP systems purchased in FY 2022 will be used to qualify the design of a second FWS-I vendor. The unit price for these systems includes non-recurring costs for qualification testing and starting a production line.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	6,438	5,248	10,593	-	10,593
	Total Obligation Authority	65.233	55.321	108.277	-	108.277
ANG	Quantity	1,609	2,703	2,979	-	2,979
	Total Obligation Authority	16.308	28.499	30.451	-	30.451
AR	Quantity	-	-	836	-	836
	Total Obligation Authority	-	-	8.543	-	8.543
Total:	Quantity	8,047	7,951	14,408	-	14,408
Secondary Distribution	Total Obligation Authority	81.541	83.820	147.271	-	147.271

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MANUFACTURING (LRIP) ^(†)		2022	TBD / TBD	C / IDIQ	TBD	Nov 2021	Aug 2022	104	98.769	Y		
MANUFACTURING (FRP) ^(†)		2020	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	Jul 2020	Jun 2021	8,681	8.071	Y		
MANUFACTURING (FRP) ^(†)		2021	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	Oct 2020	Sep 2021	8,249	8.285	Y		
MANUFACTURING (FRP) ^(†)		2022	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	Jan 2022	Jul 2022	14,305	7.668	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2020														Fiscal Year 2021														BALANCE																
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																					
MANUFACTURING (LRIP)																																																			
Prior Years Deliveries: 18593																																																			
1		2022	ARMY	.104	.000	.104																													.104																
MANUFACTURING (FRP)																																																			
2		2020	ARMY	8.681	.000	8.681															A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.200	1.200	1.200	1.200	3.881										
2		2021	ARMY	8.249	.000	8.249															A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.550	7.699										
2		2022	ARMY	14.305	.000	14.305																													14.305																
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td><td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td> </tr> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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Exhibit P-21, Production Schedule: PB 2022 Army **Date: May 2021**

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2022													Fiscal Year 2023													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 1	BAL D U E A S O F 1 O C T	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
MANUFACTURING (LRIP)																																	
Prior Years Deliveries: 18593																																	
	1	2022	ARMY	.104	.000	.104		A	-	-	-	-	-	-	-	-	.026	-	.026	-	.026	-	.026								.000		
MANUFACTURING (FRP)																																	
	2	2020	ARMY	8.681	4.800	3.881	1.200	1.200	1.200	.281																				.000			
	2	2021	ARMY	8.249	.550	7.699	-	-	-	.919	1.200	1.200	1.200	1.200	1.200	.780														.000			
	2	2022	ARMY	14.305	.000	14.305				A	-	-	-	-	-	.423	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262		.000			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	O	E	A	E	A	A	U	U	A	S			
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	A	S			

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	10	750	1,500	2	2	10	12	2	4	7	11
2	DRS,RSTA, Inc. - Melbourne, FL	10	750	1,500	2	10	11	21	2	4	7	11

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	110	-	-	558	-	558
Gross/Weapon System Cost (\$ in Millions)	22.597	-	-	25.673	-	25.673
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	22.597	-	-	25.673	-	25.673
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	22.597	-	-	25.673	-	25.673

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	205.427	-	-	46.009	-	46.009

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MANUFACTURING ^(†)	71.145	55	3.913	-	-	-	-	-	-	26.522	558	14.799	-	-	-	26.522	558	14.799
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PMA)	-	-	1.056	-	-	-	-	-	-	-	-	1.707	-	-	-	-	-	1.707
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX Spt)	-	-	0.256	-	-	-	-	-	-	-	-	2.711	-	-	-	-	-	2.711
FIELDING	-	-	0.009	-	-	-	-	-	-	-	-	1.468	-	-	-	-	-	1.468
RECURRING ENGINEERING (ECPs)	-	-	5.000	-	-	-	-	-	-	-	-	0.148	-	-	-	-	-	0.148
SYSTEMS TEST AND EVALUATION	-	-	0.196	-	-	-	-	-	-	-	-	0.148	-	-	-	-	-	0.148
DATA	-	-	12.037	-	-	-	-	-	-	-	-	3.079	-	-	-	-	-	3.079
INITIAL SPARES (REPARABLES)	-	-	0.130	-	-	-	-	-	-	-	-	1.613	-	-	-	-	-	1.613
<i>Subtotal: Recurring Cost</i>	-	-	22.597	-	-	-	-	-	-	-	-	25.673	-	-	-	-	-	25.673
<i>Subtotal: Flyaway Cost</i>	-	-	22.597	-	-	-	-	-	-	-	-	25.673	-	-	-	-	-	25.673

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)						Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED					
ID Code (A=Service Ready, B=Not Service Ready) : B												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	205.427	110	22.597	-	-	-	-	-	-	46.009	558	25.673	-	-	-	46.009	558	25.673

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	335	-	335
	Total Obligation Authority	-	-	15.395	-	15.395
ANG	Quantity	-	-	223	-	223
	Total Obligation Authority	-	-	10.278	-	10.278
Total: Secondary Distribution	Quantity	-	-	558	-	558
	Total Obligation Authority	-	-	25.673	-	25.673

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MANUFACTURING ^(†)		2022	Leonardo DRS / Melbourne, Florida	C / IDIQ	ACC APG	Jun 2022	Feb 2023	558	26.522	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P					
MANUFACTURING																																				
Prior Years Deliveries: 55																																				
1	2022	ARMY		558	0	558									A	-	-	-	-	-	-	-	-	-	-	-	-	47	47	47	47	47	47	47	46	183
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED
--	--	---

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024														Fiscal Year 2025														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024														Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
MANUFACTURING																																			
Prior Years Deliveries: 55																																			
	1	2022	ARMY	558	375	183	46	46	46	45																									0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED
--	--	---

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Leonardo DRS - Melbourne, Florida	50	50	120	4	8	8	16	4	8	8	16

"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2022 Army						Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)			Item Number / Title [DODIC]: K22004 / FWS-SNIPER		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	-	2.569	11.201	-	11.201
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	-	2.569	11.201	-	11.201
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	-	2.569	11.201	-	11.201
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (<i>\$ in Millions</i>)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)			-	-	27.330	31.552	-	31.552

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MANUFACTURING ^(†)	-	-	-	-	-	-	37.779	68	2.569	37.727	187	7.055	-	-	-	37.727	187	7.055
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PMA)	-	-	-	-	-	-	-	-	-	-	-	1.310	-	-	-	-	-	1.310
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX Spt)	-	-	-	-	-	-	-	-	-	-	-	0.068	-	-	-	-	-	0.068
FIELDING	-	-	-	-	-	-	-	-	-	-	-	1.022	-	-	-	-	-	1.022
RECURRING ENGINEERING (ECPs)	-	-	-	-	-	-	-	-	-	-	-	0.289	-	-	-	-	-	0.289
SYSTEMS TEST AND EVALUATION	-	-	-	-	-	-	-	-	-	-	-	0.289	-	-	-	-	-	0.289
INITIAL SPARES (REPARABLES)	-	-	-	-	-	-	-	-	-	-	-	1.014	-	-	-	-	-	1.014
SUPPORT EQUIPMENT COMMON (TMDE)	-	-	-	-	-	-	-	-	-	-	-	0.154	-	-	-	-	-	0.154
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.569	-	-	11.201	-	-	-	-	-	11.201

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)						Item Number / Title [DODIC]: K22004 / FWS-SNIPER					
ID Code (A=Service Ready, B=Not Service Ready) : B												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	2.569	-	-	11.201	-	-	-	-	-	11.201
Gross/Weapon System Cost	-	-	-	-	-	-	27.330	-	2.569	31.552	-	11.201	-	-	-	31.552	-	11.201

Remarks:

In FY2021, based on User feedback, a FWS-S development stop work order was issued and the Army's focus may be redirected towards pursuing a Government Off The Shelf (GOTS) solution. Quantities, in both FY2021 and FY2022, were updated on the P-5 to reflect the anticipated unit cost for a GOTS system.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	2.569	7.259	-	7.259
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	3.942	-	3.942
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	2.569	11.201	-	11.201

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22004 / FWS-SNIPER
--	--	--

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MANUFACTURING ^(†)		2021	TBD / TBD	C / IDIQ	ACC APG	Nov 2021	Sep 2022	68	37.779	Y		
MANUFACTURING ^(†)		2022	TBD / TBD	C / IDIQ	ACC APG	Jan 2022	Nov 2022	187	37.727	Y		

^(†) indicates the presence of a P-21

Remarks:

FWS-S expects to achieve Milestone C by 1QFY22. Upon completion of Milestone C FWS-S will award a production OTA. Then First Article Testing will begin followed by a soldier operational test. First Unit Equipped, Initial Operating Capability and Full Rate Production are expected by 2QFY23. Then Final Operating Capability by 4QFY26.

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22004 / FWS-SNIPER
--	--	--

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
MANUFACTURING																																			
	1	2021	ARMY	68	0	68		A	-	-	-	-	-	-	-	-	-	20	20	20	8								0						
	1	2022	ARMY	187	0	187				A	-	-	-	-	-	-	-	-	-	5	12	20	20	20	20	20	20	20	10	0					
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	U	E					
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					

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Exhibit P-21, Production Schedule: PB 2022 Army									Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)				Item Number / Title [DODIC]: K22004 / FWS-SNIPER			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	10	20	50	2	3	11	14	2	3	11	14

Remarks:
Program does not expect a break in production.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0187AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER
--	--

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	233	-	233	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	33.807	-	-	2.371	-	2.371	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	33.807	-	-	2.371	-	2.371	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	33.807	-	-	2.371	-	2.371	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	10.176	-	10.176	-	-	-	-	-	-

Description:

This Program will procure the Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS) system to enable setting current and future Precision Guided Munitions (PGMs). Future PGMs will incorporate guidance technologies that will require more data for initialization, in less time to support higher rates of fire. These EPIAFS provide direct set capability to integrate with modernized ammunition, and software that provide initialization data sets, to include M-Code and other Assured Positioning, Navigation, and Timing (APNT) data.

PGM Setters will be produced and delivered to M777A2, M109A6, M109A7 and the M1299A0 and M1299A1 Extended Range Cannon Artillery (ERCA) weapon platforms. This effort directly supports the Army's Long Range Precision Fires Cross Functional Team (LRPF CFT) priorities in support of the National Defense Strategy.

The full requirement to procure 1,702 EPIAFS will be completed in FY 2024.

This is a NEW START.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	233	-	233	-	-	-	-
Total Obligation Authority	-	-	2.371	-	2.371	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	233	-	233	-	-	-	-
Total Obligation Authority	-	-	2.371	-	2.371	-	-	-	-

Justification:

FY 2022 Base procurement dollars in the amount of \$2.371 million supports the procurement of 233 PGM Setters. This funding will procure full systems to support the Extended Range Cannon Artillery (ERCA) Increased Range weapon platform as well as cable to support M777A2, M109A6, M109A7 platforms. This is a NEW START.

LI 0187AD3260 - ENHANCED PORTABLE INDUCTIVE ARTILLERY
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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		P-1 Line Item Number / Title: 0187AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER is a new start in FY 2022.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0214KA4510 / Forward Looking Infrared (IFLIR)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	11.929	-	11.929	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	11.929	-	11.929	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	11.929	-	11.929	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The 3rd Generation Forward Looking Infrared (3GEN FLIR) B-Kit incorporates Mid Wave Infrared and Long Wave Infrared digital video and the electronic interfaces required to integrate the 3GEN FLIR technology with the host platform sensor. Incorporation of the 3GEN FLIR technology improves sensor performance and enhances the war-fighters' survivability and lethality through increased identification range performance, while enabling the detection of difficult or obscured targets and faster threat detection through automated processes. Additionally, the 3GEN FLIR B-Kit design represents a common sensor solution for integration across US Army FLIR sensor systems providing the Army the opportunity to achieve economies of scale and reduce procurement and sustainment costs. Currently, 3GEN FLIR B-Kit procurement efforts are focused on the Abrams M1A2 SEPv4 Modernization (Lethality ECP) upgrade effort.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	11.929	-	11.929	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	11.929	-	11.929	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) **P-1 Line Item Number / Title:** 0214KA4510 / Forward Looking Infrared (IFLIR)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	KA4511 / Improved Forward Looking Infrared (IFLIR) B-Kit				- / -	- / -	- / -	- / 11.929	- / -	- / 11.929
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 11.929	- / -	- / 11.929

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base funding in the amount of \$11.929 million supports MS C approval, award of LRIP contracts, and the procurement of long lead components.

All funding is for the Active component.

Forward Looking Infrared (IFLIR) is a new start in FY 2022.

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Exhibit P-5, Cost Analysis: PB 2022 Army													Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0214KA4510 / Forward Looking Infrared (IFLIR)						Item Number / Title [DODIC]: KA4511 / Improved Forward Looking Infrared (IFLIR) B-Kit						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		11.929		-		11.929				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		11.929		-		11.929				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		-		11.929		-		11.929				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Production Long-Lead Materials	-	-	-	-	-	-	-	-	-	-	-	8.050	-	-	-	-	-	8.050
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	8.050	-	-	-	-	-	8.050
Non Recurring Cost																		
Contractor Facilitation and Tooling	-	-	-	-	-	-	-	-	-	-	-	1.783	-	-	-	-	-	1.783
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.783	-	-	-	-	-	1.783
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	9.833	-	-	-	-	-	9.833
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	2.096	-	-	-	-	-	2.096
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.096	-	-	-	-	-	2.096
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	11.929	-	-	-	-	-	11.929
Secondary Distribution				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total						
Army	Quantity			-		-		-		-		-						

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0214KA4510 / Forward Looking Infrared (IFLIR)	Item Number / Title [DODIC]: KA4511 / Improved Forward Looking Infrared (IFLIR) B-Kit

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Total Obligation Authority	-	-	11.929	-	11.929
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	11.929	-	11.929

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	60.058	-	60.058	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	60.058	-	60.058	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	60.058	-	60.058	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Counter-Small Unmanned Aircraft Systems (C-sUAS) is a combined arms problem; no single solution will effectively mitigate the threat of UAS capabilities. Combinations of technologies and tactics, techniques, and procedures (TTP), developed and refined through experimentation, analysis, and collaboration are required to mitigate the threat. The Army requires several integrated solutions to effectively mitigate threat UAS capabilities with an objective of reducing the number of required solutions. Solutions will detect, identify, track, and defeat Groups 1, 2 and 3, while employing a modular architecture allowing for rapid integration of emerging technologies such as radars, kinetic effectors, electronic warfare technology, and electro-optical/infrared (EO/IR) components, and upgrade to an adaptable command and control (C2) system.

Starting in FY 2022, several Counter-Unmanned Aircraft Systems (C-UAS) urgent need efforts are beginning the process of transitioning to formal requirements and acquisition processes. Enduring programs are required to develop, test, evaluate, and continuously integrate solutions, to address a rapidly emerging UAS threat that continues to grow in sophistication, range, lethality, and numbers. Both Joint and Army RDTE will develop Joint and Army unique solutions which will be procured under this Program Element.

Three broad area capabilities have been identified, to support the Army's needs at all echelons, and include fixed/semi-fixed, mounted, and dismounted. C-sUAS capabilities will be embedded within existing formations and force structure and aligned with interoperability and communication standards, to ensure the ready and rapid integration of Joint and Operational forces for data sharing, mission coverage negotiation, and providing common training options. In addition, these capabilities will protect Tier I prioritized Army fixed-site installations and protected assets.

Prior C-UAS procurement funding resides in line item 0173BZ0501 Indirect Fire Protection Family of Systems.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	60.058	-	60.058	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	60.058	-	60.058	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	AD0511 / C-SUAS FIXED				- / -	- / -	- / -	- / 60.058	- / -	- / 60.058
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 60.058	- / -	- / 60.058

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY2022 Base procurement dollars in the amount of \$38.288 million addresses support to the procurement of Counter-Small Unmanned Aircraft Systems (C-sUAS) solutions in direct support of a prioritized list of defense of designated 130i Army fixed site locations. Funding will be used to complete site surveys and for installation labor/material and infrastructure for an estimated four (4) medium sites and five (5) light sites while also providing five (5) Drone busters per site for nine (9) sites.

FY2022 base procurement dollars of \$21.770 million will continue field support and procure 150 Coyote Block 2 Enhanced Seeker rounds (\$0.100 million per unit) and 15 Coyote Block 3 rounds (\$0.230 million per unit), in addition to spare components for existing launchers and rounds, for Mobile-Low, slow, small UAS Integrated Defeat System (M-LIDS) kinetic defeat vehicle and FS-LIDS operating in USCENTCOM in support of JUON CC-0558 to support the Direct War Cost for Operation Inherent Resolve for ISIL (OIR).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)	Item Number / Title [DODIC]: AD0511 / C-SUAS FIXED

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		-	-	-	60.058	-	60.058
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>		-	-	-	60.058	-	60.058
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		-	-	-	60.058	-	60.058
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Kinetic Defeat Production & Integration	-	-	-	-	-	-	-	-	-	96.158	165	15.866	-	-	-	96.158	165	15.866
Army Fixed Sites (130i)	-	-	-	-	-	-	-	-	-	-	-	38.288	-	-	-	-	-	38.288
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	54.154	-	-	-	-	-	54.154
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	54.154	-	-	-	-	-	54.154
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	3.288	-	-	-	-	-	3.288
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.288	-	-	-	-	-	3.288
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	2.616	-	-	-	-	-	2.616
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.616	-	-	-	-	-	2.616
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	60.058	-	-	-	-	-	60.058

LI 0219AD0500 - COUNTER SMALL UNMANNED AERIAL SYSTEM (C-...
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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)	Item Number / Title [DODIC]: AD0511 / C-SUAS FIXED

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	60.058	-	60.058
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	60.058	-	60.058

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604805A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	38,311	3,128	9,693	8,279	-	8,279	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,530.115	282.114	243.850	263.661	-	263.661	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,530.115	282.114	243.850	263.661	-	263.661	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,530.115	282.114	243.850	263.661	-	263.661	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	39.939	90.190	25.157	31.847	-	31.847	-	-	-	-	-	-

Description:

This funding line is directly aligned to the Army Network Modernization Strategy LOE 2, Common Operating Environment. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

Joint Battle Command-Platform (JBC-P) supports Line of Effort (LOE) 2 by utilizing:

- Interoperable data, message, and waveforms
- Integration with Joint C5ISR and strike capabilities
- Sensors and applications that enable operations across domains
- Common cyber-hardened hardware to provide improved capabilities

JBC-P is the cornerstone of Joint Forces' Command and Control (C2), Situational Awareness (SA), and Communications. JBC-P provides secure Blue Force Tracking (BFT) capability at the Platform and Command Post levels, and continuous near-real-time identification of friendly locations, reported enemy and hazardous locations populating the tactical Common Operating Picture (COP). JBC-P enables Joint, Net-Centric C2/Battle Command by seamlessly passing/sharing relevant information vertically and horizontally, within all tactical levels of command and control. JBC-P is designed to be used on L-Band Satellite Networks and terrestrial radios.

The JBC-P program procures and fields hardware (vehicle platform computer systems, satellite transceivers, encryption devices, and ancillary equipment), and software capabilities for the full spectrum of military operations. The Army is fielding the newest generation of JBC-P computing hardware in order to address a significant cyber vulnerability, leverage improved capabilities and get the Army on a common software baseline.

Fielding JBC-P allows the Army to retire older versions of legacy system Force XXI Battle Command Brigade and Below (FBCB2) and Joint Capabilities Release (JCR) hardware and software, which will reduce interoperability issues and maintenance costs of older hardware and software. As newer hardware and software are fielded, the overall cyber resilience of the system will be improved and older, less resilient systems will be retired.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604805A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	1,344	4,168	3,394	-	3,394	-	-	-	-
	Total Obligation Authority	267.541	104.883	108.093	-	108.093	-	-	-	-
ANG	Quantity	1,408	4,362	3,311	-	3,311	-	-	-	-
	Total Obligation Authority	11.505	109.732	105.462	-	105.462	-	-	-	-
AR	Quantity	376	1,163	1,574	-	1,574	-	-	-	-
	Total Obligation Authority	3.068	29.235	50.106	-	50.106	-	-	-	-
Total:	Quantity	3,128	9,693	8,279	-	8,279	-	-	-	-
Secondary Distribution	Total Obligation Authority	282.114	243.850	263.661	-	263.661	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604805A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	P-5a, P-21	A		38,311 / 1,530.115	3,128 / 282.114	9,693 / 243.850	8,279 / 263.661	- / -	8,279 / 263.661
P-40	Total Gross/Weapon System Cost				38,311 / 1,530.115	3,128 / 282.114	9,693 / 243.850	8,279 / 263.661	- / -	8,279 / 263.661

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base Procurement dollars in the amount of \$263.661 million supports the procurement of 7,642 vehicle platform computer systems (vehicle computer and log vehicle computer), 637 Command Post systems, satellite transceivers, encryption devices, ancillary equipment, program management support, training, fielding, publications, support equipment, and Post Deployment Software and Support (PDSS).

Fielding JBC-P allows the Army to retire older versions of legacy system Force XXI Battle Command Brigade and Below (FBCB2) and Joint Capabilities Release (JCR) hardware and software, which will reduce interoperability issues and maintenance costs of older hardware and software. As newer hardware and software are fielded, the overall cyber resilience of the system will be improved and older, less resilient systems will be retired.

In FY 2022, the Army will continue fielding JBC-P hardware and software to address a significant cyber vulnerability, leverage improved capabilities and get the Army on a common baseline. In FY 2024, JBC-P will procure its last HW system to complete its Army Acquisition Objective (AAO)/Basis of Issue (BOI) lifecycle. JBC-P will achieve Full Operational Capability (FOC) in FY 2025. JBC-P's FY F024 and FY 2025 OPA funding will be split between JBC-P (to complete fielding of JBC-P hardware and achieve FOC), and JBC-P's follow on program, Mounted Mission Command Family of System (MMC FoS), to begin procurement of BFT-3 HW. FY 2026 OPA is exclusively tied to the MMC FoS to procure and field BFT-3 HW.

In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
		Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				38,311	3,128	9,693	8,279	-	8,279
Gross/Weapon System Cost (\$ in Millions)				1,530.115	282.114	243.850	263.661	-	263.661
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				1,530.115	282.114	243.850	263.661	-	263.661
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				1,530.115	282.114	243.850	263.661	-	263.661
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				39.939	90.190	25.157	31.847	-	31.847

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
JBC-P Veh Computer; LIN C05036 ^(†)	13.908	45,759	636.416	22.253	6,798	151.273	17.283	6,929	119.755	22.193	5,918	131.338	-	-	-	22.193	5,918	131.338
JBC-P Cmd Post; LIN C05037 ^(†)	13.370	2,884	38.559	14.467	662	9.577	16.271	438	7.127	17.233	374	6.445	-	-	-	17.233	374	6.445
JBC-P Log Mobile; LIN C05055 ^(†)	12.906	13,356	172.373	14.466	3,046	44.064	13.935	2,018	28.121	14.979	1,724	25.824	-	-	-	14.979	1,724	25.824
JBC-P Log Cmd Post; LIN C05054 ^(†)	12.921	2,039	26.346	14.441	466	6.730	13.945	308	4.295	14.996	263	3.944	-	-	-	14.996	263	3.944
Ancillary HW	-	-	145.292	-	-	0.783	-	-	7.869	-	-	8.100	-	-	-	-	-	8.100
System Engineering (Services for JBC-P's Hardware)	-	-	60.431	-	-	1.463	-	-	1.431	-	-	2.000	-	-	-	-	-	2.000
Engineering Changes	-	-	3.812	-	-	-	-	-	1.823	-	-	2.119	-	-	-	-	-	2.119
Subtotal: Recurring Cost	-	-	1,083.229	-	-	213.890	-	-	170.421	-	-	179.770	-	-	-	-	-	179.770
Non Recurring Cost																		
ABCT	-	-	12.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platform Integration	-	-	46.973	-	-	4.610	-	-	4.739	-	-	6.079	-	-	-	-	-	6.079
Satellite Ground Stations (SGS) Tech Refresh	-	-	-	-	-	4.744	-	-	8.097	-	-	8.516	-	-	-	-	-	8.516
Other Procurement	-	-	-	-	-	1.738	-	-	7.849	-	-	8.000	-	-	-	-	-	8.000

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)						Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:							

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Non Recurring Cost</i>	-	-	59.150	-	-	11.092	-	-	20.685	-	-	22.595	-	-	-	-	-	22.595
<i>Subtotal: Flyaway Cost</i>	-	-	1,142.379	-	-	224.982	-	-	191.106	-	-	202.365	-	-	-	-	-	202.365
Software Cost																		
Recurring Cost																		
Post Deployment Software Support (PDSS)	-	-	45.090	-	-	4.889	-	-	4.648	-	-	5.303	-	-	-	-	-	5.303
<i>Subtotal: Recurring Cost</i>	-	-	45.090	-	-	4.889	-	-	4.648	-	-	5.303	-	-	-	-	-	5.303
<i>Subtotal: Software Cost</i>	-	-	45.090	-	-	4.889	-	-	4.648	-	-	5.303	-	-	-	-	-	5.303
Support - Fielding Cost																		
Fielding	-	-	121.906	-	-	29.317	-	-	26.400	-	-	26.727	-	-	-	-	-	26.727
<i>Subtotal: Support - Fielding Cost</i>	-	-	121.906	-	-	29.317	-	-	26.400	-	-	26.727	-	-	-	-	-	26.727
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	0.520	-	-	-	-	-	-	-	-	3.922	-	-	-	-	-	3.922
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	0.520	-	-	-	-	-	-	-	-	3.922	-	-	-	-	-	3.922
Support - Peculiar Support Equipment Cost																		
Support and Handling Equipment	-	-	15.486	-	-	0.253	-	-	3.672	-	-	4.053	-	-	-	-	-	4.053
<i>Subtotal: Support - Peculiar Support Equipment Cost</i>	-	-	15.486	-	-	0.253	-	-	3.672	-	-	4.053	-	-	-	-	-	4.053
Support - Program Management Cost																		
Contractor Management	-	-	46.237	-	-	5.307	-	-	5.000	-	-	5.052	-	-	-	-	-	5.052
<i>Subtotal: Support - Program Management Cost</i>	-	-	46.237	-	-	5.307	-	-	5.000	-	-	5.052	-	-	-	-	-	5.052
Support - System Engineering Cost																		
System Engineering	-	-	99.534	-	-	15.157	-	-	9.524	-	-	12.394	-	-	-	-	-	12.394
<i>Subtotal: Support - System Engineering Cost</i>	-	-	99.534	-	-	15.157	-	-	9.524	-	-	12.394	-	-	-	-	-	12.394
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	40.977	-	-	0.056	-	-	0.186	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	40.977	-	-	0.056	-	-	0.186	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Training Cost																		
Equipment	-	-	17.986	-	-	2.153	-	-	3.314	-	-	3.845	-	-	-	-	-	3.845
<i>Subtotal: Support - Training Cost</i>	-	-	17.986	-	-	2.153	-	-	3.314	-	-	3.845	-	-	-	-	-	3.845
Gross/Weapon System Cost	39.939	38,311	1,530.115	90.190	3,128	282.114	25.157	9,693	243.850	31.847	8,279	263.661	-	-	-	31.847	8,279	263.661

Remarks:

Updates: (in order as they appear in P-5)

1) Flyaway; Recurring Cost; JBC-P LINS (C05036, C05037, C05055, C05054)
JBC-P's system unit costs increased in FY 2022 due to a significantly higher amount of installation kits required for procurement in FY 2022, compared to FY 2021.

2) Flyaway; Non-Recurring Cost; Satellite Ground Stations (SGS) Tech Refresh:
Added in FY 2021 and FY 2022 due to tech refresh efforts for Satellite Ground Stations.

3) Flyaway; Non-Recurring Cost; Other Procurement:
Added in FY 2021 and FY 2022 due to costs for Mission Specific Enterprise Cross Domain Service Provider (MS-ECDSP), National Cross Domain Strategy Management Office (NCDSMO) Raise-The-Bar (RTB) requirements for connecting to high threat networks.

4) Support Cost, Recurring Cost; Initial Spares and Repairs:
Added in FY 2022 due to MFOCS Block 2 systems needed for spares/integration assets (including labs & platforms).

5) Peculiar Support Equipment Cost; Recurring Cost; Support and Handling Equipment:
Increased in FY 2021 and FY 2022 due to enhanced inventory system capability provided from planned relocation of storage depot.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	1,344	4,168	3,394	-	3,394
	Total Obligation Authority	267.541	104.883	108.093	-	108.093
ANG	Quantity	1,408	4,362	3,311	-	3,311
	Total Obligation Authority	11.505	109.732	105.462	-	105.462
AR	Quantity	376	1,163	1,574	-	1,574
	Total Obligation Authority	3.068	29.235	50.106	-	50.106
Total:	Quantity	3,128	9,693	8,279	-	8,279

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	282.114	243.850	263.661	-	263.661

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)					Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
JBC-P Veh Computer; LIN C05036 ^(†)		2020	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2019	May 2020	6,798	22.253	Y		
JBC-P Veh Computer; LIN C05036 ^(†)		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2020	May 2021	6,929	17.283	Y		
JBC-P Veh Computer; LIN C05036 ^(†)		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2021	May 2022	5,918	22.193	Y		
JBC-P Cmd Post; LIN C05037 ^(†)		2020	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2019	May 2020	662	14.467	Y		
JBC-P Cmd Post; LIN C05037 ^(†)		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2020	May 2021	438	16.271	Y		
JBC-P Cmd Post; LIN C05037 ^(†)		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2021	May 2022	374	17.233	Y		
JBC-P Log Mobile; LIN C05055 ^(†)		2020	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2019	May 2020	3,046	14.466	Y		
JBC-P Log Mobile; LIN C05055 ^(†)		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2020	May 2021	2,018	13.935	Y		
JBC-P Log Mobile; LIN C05055 ^(†)		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2021	May 2022	1,724	14.979	Y		
JBC-P Log Cmd Post; LIN C05054		2020	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2019	May 2020	466	14.441	Y		
JBC-P Log Cmd Post; LIN C05054		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	DRS Tactical - Melbourne, FL - Melbourne, FL*	Nov 2020	May 2021	308	13.945	Y		
JBC-P Log Cmd Post; LIN C05054		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	DRS Tactical - Melbourne, FL - Melbourne, FL*	Nov 2021	May 2022	263	14.996	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army																								Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										
Cost Elements (Units in Each)						Fiscal Year 2022														Fiscal Year 2023										B A L A N C E
O C C #	M F R FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 1	BAL D U E A S O F 1 O C T	Calendar Year 2022														Calendar Year 2023										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
JBC-P Veh Computer; LIN C05036																														
Prior Years Deliveries: 45759																														
1	2020	ARMY	6,798	6,798	0																								0	
1	2021	ARMY	6,929	2,885	4,044	577	577	578	578	578	578																		0	
1	2022	ARMY	5,918	0	5,918		A -	-	-	-	-	-		493	493	493	493	493	493	493	493	493	493	493	493	494	494		0	
JBC-P Cmd Post; LIN C05037																														
Prior Years Deliveries: 2884																														
2	2020	ARMY	662	662	0																								0	
2	2021	ARMY	438	180	258	36	37	37	37	37	37	37																	0	
2	2022	ARMY	374	0	374		A -	-	-	-	-	-		31	31	31	31	31	31	31	31	31	31	31	31	32	32		0	
JBC-P Log Mobile; LIN C05055																														
Prior Years Deliveries: 13356																														
3	2020	ARMY	3,046	3,046	0																								0	
3	2021	ARMY	2,018	840	1,178	168	168	168	168	168	169	169																	0	
3	2022	ARMY	1,724	0	1,724		A -	-	-	-	-	-		144	144	144	144	144	144	144	144	144	143	143	143	143		0		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
		Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DRS Tactical - Melbourne, FL - Melbourne, FL	20	425	1,500	2	2	6	8	2	2	6	8
2	DRS Tactical - Melbourne, FL - Melbourne, FL	20	425	1,500	2	2	6	8	2	2	6	8
3	DRS Tactical - Melbourne, FL - Melbourne, FL	20	425	1,500	2	2	6	8	2	2	6	8

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	171	100	285	329	-	329	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	140.667	25.330	54.206	62.082	-	62.082	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	140.667	25.330	54.206	62.082	-	62.082	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	140.667	25.330	54.206	62.082	-	62.082	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	822.614	253.300	190.196	188.699	-	188.699	-	-	-	-	-	-

Description:

The Joint Effects Targeting System (JETS) Target Locator/Designator System (TLDS) provides the individual dismounted observer with an integrated, lightweight, modular capability to detect, identify, and accurately locate targets in three dimensions. The JETS TLDS also provides the capability to laser mark and designate targets for weapons platforms and transmits accurate target location coordinates to a forward entry system for engagement with precision munitions. The JETS TLDS is an Army joint information program (Air Force and Marine Corps).

The JETS TLDS supports the Army's fires sensor strategy and is aligned with the Army's priorities in support of the National Defense Strategy. The JETS TLDS satisfies the requirement for the dismounted precision targeting sensor for the individual observer.

The Army Acquisition Objective (AAO) for this program is 3,355.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	60	171	198	-	198	-	-	-
	Total Obligation Authority	15.198	32.524	37.318	-	37.318	-	-	-
ANG	Quantity	40	114	131	-	131	-	-	-
	Total Obligation Authority	10.132	21.682	24.764	-	24.764	-	-	-
Total:	Quantity	100	285	329	-	329	-	-	-
Secondary Distribution	Total Obligation Authority	25.330	54.206	62.082	-	62.082	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) **P-1 Line Item Number / Title:** 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604710A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	P-5a, P-21	A		171 / 140.667	100 / 25.330	285 / 54.206	329 / 62.082	- / -	329 / 62.082
P-40	Total Gross/Weapon System Cost				171 / 140.667	100 / 25.330	285 / 54.206	329 / 62.082	- / -	329 / 62.082

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$62.082 million support the procurement of 329 Joint Effects Targeting System (JETS). These systems will be fielded in accordance with the HQDA priority list.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	171	100	285	329	-	329
Gross/Weapon System Cost (\$ in Millions)	140.667	25.330	54.206	62.082	-	62.082
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	140.667	25.330	54.206	62.082	-	62.082
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	140.667	25.330	54.206	62.082	-	62.082

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	822.614	253.300	190.196	188.699	-	188.699

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Systems Engineering / Program Management (Government) (PMA)	-	-	8.293	-	-	2.172	-	-	1.872	-	-	1.909	-	-	-	-	-	1.909
Systems Engineering / Program Management (Government) (Matrix)	-	-	6.223	-	-	2.590	-	-	2.282	-	-	2.328	-	-	-	-	-	2.328
New Equipment Training & Fielding	-	-	2.397	-	-	1.755	-	-	2.474	-	-	2.894	-	-	-	-	-	2.894
Fielding	-	-	0.406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	17.319	-	-	6.517	-	-	6.628	-	-	7.131	-	-	-	-	-	7.131
Subtotal: Flyaway Cost	-	-	17.319	-	-	6.517	-	-	6.628	-	-	7.131	-	-	-	-	-	7.131
Hardware Cost																		
Recurring Cost																		
Manufacturing (Joint Effects Targeting System) ^(†)	261.190	453	118.319	180.270	100	18.027	165.502	285	47.168	165.809	329	54.551	-	-	-	165.809	329	54.551
Initial Spares (Reparables)	-	-	2.059	-	-	0.786	-	-	0.410	-	-	0.400	-	-	-	-	-	0.400
Subtotal: Recurring Cost	-	-	120.378	-	-	18.813	-	-	47.578	-	-	54.951	-	-	-	-	-	54.951
Non Recurring Cost																		
Nonrecurring Production	-	-	2.970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Non Recurring Cost</i>	-	-	2.970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	123.348	-	-	18.813	-	-	47.578	-	-	54.951	-	-	-	-	-	54.951
Gross/Weapon System Cost	822.614	171	140.667	253.300	100	25.330	190.196	285	54.206	188.699	329	62.082	-	-	-	188.699	329	62.082

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	60	171	198	-	198
	Total Obligation Authority	15.198	32.524	37.318	-	37.318
ANG	Quantity	40	114	131	-	131
	Total Obligation Authority	10.132	21.682	24.764	-	24.764
Total: Secondary Distribution	Quantity	100	285	329	-	329
	Total Obligation Authority	25.330	54.206	62.082	-	62.082

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)				Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Manufacturing (Joint Effects Targeting System) ^(†)		2020	DRS / Melbourne, FL	C / FFP	ACC-APG	Jul 2020	Jul 2021	100	180.270	Y		
Manufacturing (Joint Effects Targeting System) ^(†)		2021	DRS / Melbourne, FL	C / FFP	ACC-APG	May 2021	Mar 2022	285	165.502	Y		
Manufacturing (Joint Effects Targeting System) ^(†)		2022	DRS / Melbourne, FL	C / FFP	ACC-APG	Apr 2022	Feb 2023	329	165.809	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)										Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021													B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Manufacturing (Joint Effects Targeting System)																																			
Prior Years Deliveries: 453																																			
	1	2020	ARMY	100	0	100												A	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	70	
	1	2021	ARMY	285	0	285																						A	-	-	-	-	-		285
	1	2022	ARMY	329	0	329																												329	

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)										Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022															Fiscal Year 2023															B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022															Calendar Year 2023																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
Manufacturing (Joint Effects Targeting System)																																						
Prior Years Deliveries: 453																																						
1	2020	ARMY		100	30	70	10	10	15	15	20																							0				
1	2021	ARMY		285	0	285	-	-	-	-	-	20	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	0				
1	2022	ARMY		329	0	329						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	25	25	25	25	25	25	30	30	134
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)										Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024													Fiscal Year 2025													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Manufacturing (Joint Effects Targeting System)																																	
Prior Years Deliveries: 453																																	
1		2020	ARMY	100	100	0																							0				
1		2021	ARMY	285	285	0																							0				
1		2022	ARMY	329	195	134	30	35	35	34																			0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
		Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DRS - Melbourne, FL	10	30	50	2	9	12	21	2	7	10	17

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0255KA3100 / Mod Of In-Svc Equip (LLDR)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	190	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	208.177	6.044	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	208.177	6.044	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	208.177	6.044	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,095.668	-	-	-	-	-	-	-	-	-	-	-

Description:

Modification of In-Service equipment funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR) to incorporate target location improvements. The upgraded LLDR system is type classified as LLDR 2H. The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) guided and laser guided precision munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements and resulting in lower sustainment costs. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams.

The Army Acquisition Objective (AAO) for this program is 2,700.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	6.044	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	6.044	-	-	-	-	-	-	-	-

Justification:

KA3100 has no funding request in FY 2022.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense mission, domestic emergency responses, and providing military support of civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		P-1 Line Item Number / Title: 0255KA3100 / Mod Of In-Svc Equip (LLDR)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
Line Item MDAP/MAIS Code: N/A		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 5726K99200 / Computer Ballistics: LHMBC XM32
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	709	67	206	70	-	70	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	150.594	4.474	7.789	2.811	-	2.811	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	150.594	4.474	7.789	2.811	-	2.811	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	150.594	4.474	7.789	2.811	-	2.811	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	212.403	66.776	37.811	40.157	-	40.157	-	-	-	-	-	-

Description:

The Lightweight Handheld Mortar Ballistic Computer (LHMBC) calculates ballistic solutions that give the 60mm, 81mm and 120mm mortar weapon system user data to aim the mortar weapon and set the charge as well as serves as the Fire Direction Center for all mortar platforms. The LHMBC communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS) to the Fire Support Network. All LHMBC versions provide firing computations for all calibers of mortars as well as digital messaging capability. LHMBC eliminates the need of a paper firing table, improves the accuracy of mortar ballistic calculation, and increases survivability of mortar crews by digitally connecting to the Fire Support network to receive fire missions and Fire Support Coordination Measures to conduct fratricide check. The common software (SW) design and architecture will enable seamless vehicle integration. The M32A1 LHMBC will utilize the Ruggedized Tactical Handheld Device (RTHD) platform and will be compatible with Common Operating Environment (COE) 1.0 compliance. The M32A2 LHMBC may utilize either Net Warrior (NW) Mobile/Handheld (M/HH) or future RTHD platform/Window based or android End User Device (EUD) (other than NW) and will be compatible with the latest COE compliance. The common hardware (HW) and SW architecture and design will enable seamless integration to current and future Army Platforms, weapon systems and fire control systems/subsystems. The LHMBC HW and SW addresses obsolescence and will modernize mounted and dismounted mortar weapon system and fire control systems.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	29	164	70	-	70	-	-	-
	Total Obligation Authority	2.021	6.390	2.811	-	2.811	-	-	-
ANG	Quantity	38	38	-	-	-	-	-	-
	Total Obligation Authority	2.453	1.266	-	-	-	-	-	-
AR	Quantity	-	4	-	-	-	-	-	-
	Total Obligation Authority	-	0.133	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	67	206	70	-	70	-	-	-
	Total Obligation Authority	4.474	7.789	2.811	-	2.811	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		P-1 Line Item Number / Title: 5726K99200 / Computer Ballistics: LHMBC XM32
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Justification: FY 2022 Base procurement dollars in the amount of \$2.811 million supports the procurement of 70 each Lightweight Handheld Mortar Ballistic Computer (LHMBC) computers, supporting hardware (HW) and software (SW), and basic Issue Items (BI). This funding will also procure new ruggedized personal digital assistance (RPDA) computers. The new RPDA will used in conjunction with common software (SW), which will reduce hardware and operating system reliance. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,038	102	61	65	-	65	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	508.996	28.538	17.472	17.236	-	17.236	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	508.996	28.538	17.472	17.236	-	17.236	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	508.996	28.538	17.472	17.236	-	17.236	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	490.362	279.784	286.426	265.169	-	265.169	-	-	-	-	-	-

Description:

The Mortar Fire Control System (MFCS) accurately determines weapon position and orientation, navigates, calculates ballistics, and communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS) fire support network. MFCS improves the accuracy of the 120mm mortar system from 138 meters Circular Error Probable (CEP) to 75 meters CEP allowing for first round fire for effect. MFCS increases survivability of mortar crews by eliminating the need for soldiers to dismount the vehicle to lay out aiming posts. MFCS also adds digital connectivity to the Fire Support network as well as connectivity to SINCGARS, Force XXI Battle Command Brigade and Below (FBCB2), and Blue Force Tracking system. MFCS consists of the M95/M96 version that is used on mounted 120mm Mortars in Armored Brigade Combat Teams (ABCT) and the M150/M151 version used on the M120A1 120mm Towed Mortar that is fielded throughout all Infantry Brigade Combat Teams (IBCT). The Stryker Brigade Combat Teams (SBCT) utilize both the M95 and M151 systems. The M95 is used on the M1064A2/M1064A3 Mortar Carriers with the M121 Battalion Mortar System and the M1129A1 Stryker 120mm Mortar Carrier with the 120mm Recoiling Mortar System. The M96 is used on M577 Mortar Fire Direction Center (FDC) vehicle. The M95 and M96 are also being integrated onto the Advanced Multipurpose Vehicle (AMPV) Mortar Carrier and Mission Command vehicles, respectively. The M150 is used on the M120A1 120mm Towed Mortar that is mounted on the M1101 Trailer. The M151 is used on the various High Mobility Multipurpose Wheeled Vehicle (HMMV) variant that serves as the IBCT and SBCT Mortar FDCs. Both the M95 and M150 consist of five main components: 1) The Commander's Interface (CI) (M95) or Fire Control Computer (FCC) (M95/M150) links the MFCS components together, communicates, and calculates the ballistic solutions, 2) The Tactical Advanced Land Inertial Navigator (TALIN) is the pointing device and position system that provides the weapon's position, pointing azimuth and elevation, 3) The Gunner's Display (GD) shows the gunner where to point the tube and displays the weapon's azimuth, elevation, and ballistic firing solution, 4) The Driver's Display (DD) (M95 only) provides a "steer-to" display to aid in navigation and emplacement of the vehicle, and 5) The Power Distribution Assembly/Enhanced Power Distribution Assembly filters vehicle power and acts as a circuit breaker isolating MFCS line replaceable units from power fluctuations and surges. The M96 and M151 each consist primarily of the CI or FCC, installed in the FDC vehicle. All CI's are currently being transitioned to the FCC for all M95 and M96.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	102	61	65	-	65	-	-	-	-
Total Obligation Authority	28.538	17.472	17.236	-	17.236	-	-	-	-
Total:	102	61	65	-	65	-	-	-	-
Secondary Distribution	28.538	17.472	17.236	-	17.236	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K99300 / Mortar Fire Control System	P-5a, P-21	A		1,038 / 508.996	102 / 28.538	61 / 17.472	65 / 17.236	- / -	65 / 17.236
P-40	Total Gross/Weapon System Cost				1,038 / 508.996	102 / 28.538	61 / 17.472	65 / 17.236	- / -	65 / 17.236

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 Base procurement dollars in the amount of \$2.728 million support the procurement of nine (9) each M95 and four (4) each M96 for the Advanced Multipurpose Vehicles (AMPV), including support costs for software, logistics, fielding, and production engineering. The equipment will be fielded to Armored Brigade Combat Teams (ABCT) to support "Grow the Army" requirements.

FY 2022 base procurement dollars of \$14.508 million supports the procurement of 46 each M150 Mortar Fire Control System - Dismounted (MFCS-D) complete systems and six (6) each M151 Mortar Fire Control System - Mounted (MFCS-M), in support of the Direct War Cost for Operation Inherent Resolve (OIR). These items are all critical items consumed in support of deployed units' ongoing military operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army											Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System						Item Number / Title [DODIC]: K99300 / Mortar Fire Control System					
ID Code (A=Service Ready, B=Not Service Ready) : A											MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Procurement Quantity (Units in Each)				1,038		102		61		65		-		65			
Gross/Weapon System Cost (\$ in Millions)				508.996		28.538		17.472		17.236		-		17.236			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				508.996		28.538		17.472		17.236		-		17.236			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				508.996		28.538		17.472		17.236		-		17.236			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				490.362		279.784		286.426		265.169		-		265.169			

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
M95 M1064 MFCS-M ^(†)	221.724	62	13.747	250.000	18	4.500	-	-	-	-	-	-	-	-	-	-	-	-
M96 M1064 MFCS-M ^(†)	76.893	12	0.923	90.000	4	0.360	-	-	-	-	-	-	-	-	-	-	-	-
M95 AMPV ^(†)	219.698	86	18.894	250.000	27	6.750	250.000	35	8.750	255.944	9	2.303	-	-	-	255.944	9	2.303
M96 AMPV ^(†)	73.828	15	1.107	90.000	4	0.360	90.000	10	0.900	91.375	4	0.366	-	-	-	91.375	4	0.366
MFCS-D (M150) ^(†)	52.599	182	9.573	250.000	49	12.250	250.000	18	4.500	246.913	46	11.358	-	-	-	246.913	46	11.358
MFCS (M151) - FDC Dismounted ^(†)	3.235	73	0.236	-	-	-	-	-	-	90.000	6	0.540	-	-	-	90.000	6	0.540
<i>Subtotal: Recurring Cost</i>	-	-	44.480	-	-	24.220	-	-	14.150	-	-	14.567	-	-	-	-	-	14.567
<i>Subtotal: Hardware Cost</i>	-	-	44.480	-	-	24.220	-	-	14.150	-	-	14.567	-	-	-	-	-	14.567
Software Cost																		
Recurring Cost																		
Software Support	-	-	2.467	-	-	0.485	-	-	0.125	-	-	0.120	-	-	-	-	-	0.120
<i>Subtotal: Recurring Cost</i>	-	-	2.467	-	-	0.485	-	-	0.125	-	-	0.120	-	-	-	-	-	0.120
<i>Subtotal: Software Cost</i>	-	-	2.467	-	-	0.485	-	-	0.125	-	-	0.120	-	-	-	-	-	0.120
Logistics Cost																		
Recurring Cost																		
Government ILS	-	-	2.336	-	-	0.450	-	-	0.200	-	-	0.205	-	-	-	-	-	0.205
<i>Subtotal: Recurring Cost</i>	-	-	2.336	-	-	0.450	-	-	0.200	-	-	0.205	-	-	-	-	-	0.205

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System						Item Number / Title [DODIC]: K99300 / Mortar Fire Control System					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Logistics Cost</i>	-	-	2.336	-	-	0.450	-	-	0.200	-	-	0.205	-	-	-	-	-	0.205
Support - Fielding Cost																		
Fielding	-	-	3.850	-	-	1.250	-	-	0.795	-	-	0.661	-	-	-	-	-	0.661
<i>Subtotal: Support - Fielding Cost</i>	-	-	3.850	-	-	1.250	-	-	0.795	-	-	0.661	-	-	-	-	-	0.661
Support - Production Engineering Cost																		
Production Engineering	-	-	455.863	-	-	2.133	-	-	2.202	-	-	1.683	-	-	-	-	-	1.683
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	455.863	-	-	2.133	-	-	2.202	-	-	1.683	-	-	-	-	-	1.683
Gross/Weapon System Cost	490.362	1,038	508.996	279.784	102	28.538	286.426	61	17.472	265.169	65	17.236	-	-	-	265.169	65	17.236

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	102	61	65	-	65
	Total Obligation Authority	28.538	17.472	17.236	-	17.236
Total:	Quantity	102	61	65	-	65
Secondary Distribution	Total Obligation Authority	28.538	17.472	17.236	-	17.236

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
M95 M1064 MFCS-M		2020	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2020	Apr 2021	18	250.000	Y		
M96 M1064 MFCS-M		2020	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2020	Apr 2021	4	90.000	Y		
M95 AMPV		2020	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2020	Apr 2021	22	250.000	Y		
M95 AMPV		2020	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2020	Apr 2021	5	250.000	Y		
M95 AMPV		2021	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2021	Apr 2022	35	250.000	Y		
M95 AMPV		2022	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2022	Apr 2023	9	255.944	Y		
M96 AMPV		2020	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2020	Apr 2021	4	90.000	Y		
M96 AMPV		2021	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2021	Apr 2022	10	90.000	Y		
M96 AMPV		2022	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2022	Apr 2023	4	91.375	Y		
MFCS-D (M150) ^(t)		2020	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2020	Apr 2021	49	250.000	Y		
MFCS-D (M150)	✓	2021	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2021	Apr 2022	18	250.000	Y		
MFCS-D (M150) ^(t)		2022	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2022	Apr 2023	46	246.913	Y		
MFCS (M151) - FDC Dismounted		2022	EFW, Inc. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2022	Apr 2023	6	90.000	Y		

^(t) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2022 Army Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System Item Number / Title [DODIC]: K99300 / Mortar Fire Control System

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
MFCS-D (M150)																																			
Prior Years Deliveries: 182																																			
	1	2020	ARMY	49	0	49																							0						
	1	2022	ARMY	46	0	46																							46						

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023												BALANCE										
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												
MFCS-D (M150)																																										
Prior Years Deliveries: 182																																										
	1	2020	ARMY	49	49	0																											0									
	1	2022	ARMY	46	0	46															A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	16	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	EFW, Inc. - Fort Worth, TX	10	24	66	4	5	16	21	1	5	14	19

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 7563AD9300 / Mortar Fire Control Systems Modifications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.000	7.292	2.830	-	2.830	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.000	7.292	2.830	-	2.830	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.000	7.292	2.830	-	2.830	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Mortar Fire Control System (MFCS) accurately determines weapon position and orientation, navigates, calculates ballistics, and communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS) fires support network. The MFCS main Line Replaceable Units (LRUs) are: the Fire Control Computer (FCC), Enhanced Power Distribution Assembly (EPDA), Inertial Navigation Unit (INU), Portable Universal Battery Supply (PUBS), Gunner's Display (GD), and cable sets. Mortar Fire Control System modification support current and future modernized mortar fire control systems and enable the replacement of aging/obsolete major system components. These improvements include: common, lightweight inertial measurement and navigation (IMU/INU) units for weapon pointing; simplified Ethernet or wireless based digital communications interfaces; updates for vehicle or system level integration; and in support of common core, modular fire control software and sub-systems that better support commercial off-the-shelf (COTS) or modified commercial off-the-shelf (MCOTS) computers and components.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	10.000	7.292	2.830	-	2.830	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	10.000	7.292	2.830	-	2.830	-	-	-	-

Justification:

FY 2022 Base procurement dollars in the amount of \$2.830 million supports modified fire control Line Replaceable Units (LRUs) to mitigate obsolescence, allowing for improved fire control communication interface to simplify cabling and common software modules, and includes support costs for software, logistics, and production engineering. These modifications will lead to smaller, lighter, low cost, and more easily maintainable fire control solutions, to include Commercial Off-The-Shelf (COTS) components, which will enable commonality across current and future fire control and mortar weapon systems. These improvements will reduce the Army's future hardware obsolescence issues and software upgrades while providing operating system and hardware independence to enable greater program flexibility to reduce risk in a dynamic environment.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	15	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,126.657	16.416	71.404	31.694	-	31.694	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,126.657	16.416	71.404	31.694	-	31.694	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,126.657	16.416	71.404	31.694	-	31.694	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	208,443.800	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/TPQ-53 Counterfire Target Acquisition Radar System is a highly mobile radar set that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems with sufficient accuracy for first round fire for effect. The funding enables the mitigation of close combat radar coverage gaps by providing a 90-degree search sector (stare mode) as well as 360-degree coverage (rotating), in addition to supporting legacy radars. The AN/TPQ-53 system interoperates with mission command systems to provide the maneuver commander increased counterfire radar flexibility. The AN/TPQ-53 is deployed as part of the Counter-Rocket, Artillery, Mortar (C-RAM) system of systems. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability. The AN/TPQ-53 currently supports contingency operations to include Operation Inherent Resolve (OIR) and is fielded to Brigade Combat Teams (BCTs), Field Artillery Brigades (FABs), and Division Artilleries (DIVARTYs).

Modification-In-Service supports facilitization, technical manual and training updates, procurement, installation and fielding associated with QTY 60 Distributed Digital Receiver/Exciter (DDREX) upgrade kits and integration of the associated software. DDREX is a class 1 ECP to the AN/TPQ-53 that provides improved electronic protection capabilities for EW overmatch and provides an improved extended range capability in support of U.S. Army's #1 priority, Long Range Precision Fires.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	16.416	71.404	31.694	-	31.694	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	16.416	71.404	31.694	-	31.694	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 8386BA5500 / Counterfire Radars

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604823A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar				15 / 3,126.657	- / 16.416	- / 71.404	- / -	- / -	- / -
P-3a	BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE (Modification)			602	- / -	- / -	- / -	- / 31.694	- / -	- / 31.694
P-40	Total Gross/Weapon System Cost				15 / 3,126.657	- / 16.416	- / 71.404	- / 31.694	- / -	- / 31.694

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Modification-In-Service Procurement dollars in the amount of \$31.694 million support procurement of the facilitization of Distributed Digital Receiver/Exciter (DDREX) hardware and integration of classified software. Funding supports software updates to address system reliability, cybersecurity and interoperability. Funding also supports depot facilitization, fielding, training activities and program management support.

BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE is a new start in FY2022.

The Army Acquisition Objective (AAO) is 189.

Per BOIP change memo dated 17 May 2017, current force structure is as follows:
 - Two (2) radars per Active Component (AC) Armored Brigade Combat Team (ABCT)
 - Two (2) radars per AC Infantry Brigade Combat Team (IBCT)
 - Two (2) radars per AC Stryker Brigade Combat Team (SBCT)
 - Two (2) radars per Army National Guard (ARNG) ABCT
 - Two (2) radars per ARNG IBCT
 - Two (2) radars per ARNG SBCT
 - Two (2) radars per AC Field Artillery Brigade (FAB)
 - Two (2) radars per ARNG FAB
 - Two (2) radars per AC Division Artillery (DIVARTY)

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

B05310 has no funding request in FY22.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	15	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,126.657	16.416	71.404	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,126.657	16.416	71.404	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,126.657	16.416	71.404	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	208,443.800	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware (AN/TPQ-53)	10,328.037	189	1,951.999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancillary Equipment	-	-	247.559	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gallium Arsenide (GaAs) to Gallium Nitride (GaN) Retrofit	-	-	-	-	-	-	4,678.154	13	60.816	-	-	-	-	-	-	-	-	-
Signal Data Processor (SDP) Retrofit	385.431	109	42.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	2,241.570	-	-	-	-	-	60.816	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Non-Recurring Engineering	-	-	171.907	-	-	0.814	-	-	-	-	-	-	-	-	-	-	-	-
Non-Recurring Production	-	-	145.243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	3.375	-	-	0.951	-	-	-	-	-	-	-	-	-	-	-	-
Post Deployment Software Support	-	-	22.855	-	-	1.903	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	343.380	-	-	3.668	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	2,584.950	-	-	3.668	-	-	60.816	-	-	-	-	-	-	-	-	-

Support - Acceptance Testing Cost																		
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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Acceptance Test	-	-	38.381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	38.381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	53.989	-	-	3.676	-	-	10.588	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	53.989	-	-	3.676	-	-	10.588	-	-	-	-	-	-	-	-	-
Support - Operational/Site Activation Cost																		
Sustainment/Interim Contractor Support	-	-	225.196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	225.196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	184.398	-	-	4.225	-	-	-	-	-	-	-	-	-	-	-	-
Contractor Management	-	-	22.815	-	-	4.597	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	207.213	-	-	8.822	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Equipment	-	-	16.928	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	16.928	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	208,443.800	15	3,126.657	-	-	16.416	-	-	71.404	-	-	-	-	-	-	-	-	-

Remarks:

In accordance with the Army G-8 affordability memorandum, Army Cost Position, and Acquisition Program Baseline, all approved in April 2019, the program is carrying over \$29.204 million of FY 2019 procurement dollars in support of full rate production (FRP), system fielding, interim contractor support (ICS), and training in FY 2021. ICS addresses the requirements for the original equipment manufacturer (OEM) to provide the necessary field support representatives (FSRs) to maintain and repair fielded systems as well as provide 24/7 help desk support to deployed soldiers supporting contingency operations.

FY 2021 Base procurement dollars in the amount of \$72.421 million funds the 13-system retrofit of transmit/receive modules from gallium arsenide to gallium nitride (GaN) as well as production and fielding support. The Army currently requires 60 GaN-equipped radar systems to support mission requirements; the program procured 47 of the 60 GaN systems on previous FRP contracts.

Program management support funds personnel used to manage production and fielding of systems and signal data processors (SDPs), hardware and software engineering changes, maintain information assurance accreditation, manage the software materiel release process, and manage logistics efforts required to establish an organic supply system.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Quantities will be procured at an optimized rate utilizing price advantage created through contract negotiation, Firm Fixed Price Incentive Fee (FFPIF) contract ceiling liability reduction through price determination, other service procurement, and/or foreign military sales (FMS) to increase the Army procurement, where possible.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	16.416	71.404	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	16.416	71.404	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	Modification Number / Title: BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 602
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	31.694	-	31.694
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	31.694	-	31.694
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	31.694	-	31.694

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-

Description:

AN/TPQ-53 Multi-Domain Operations (MDO) Digitization efforts include the procurement, manufacturing, install and fielding of 60 DDREX kits and their initial spares beginning in FY2024 through FY2026. Early FY22 activities include logistics products, secure facilitization, depot facilitization, and extended range/electronic protection software integration. The MDO Digitization kits provide the Warfighter with the tools to perform their doctrinal mission to shape the deep fight while operating in a cyber contested environment against near-peer/peer adversaries. The capabilities from the modkits address the program's current and proliferated threats making the system postured to address new, emerging, and evolving threats.

FY 2022 Modification-In-Service Procurement dollars in the amount of \$31.694 million supports the facilitization for the procurement and installation of Distributed Digital Receiver/Exciter (DDREX) hardware and integration of classified software. Funding supports software updates to address system reliability, cybersecurity and interoperability. Funding also supports depot facilitization, fielding, training activities and program management support.

BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE is a new start in FY2022.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	31.694	-	31.694
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	31.694	-	31.694

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Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	Modification Number / Title: BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 602
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Models of Systems Affected: AN/TPQ-53	Modification Type: Modification	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

<i>Modification Item 1 of 1:</i> Multi-Domain Operations Digitization / Distributed Digital Receiver Exciter Kits						
A Kits						
Non-Recurring						
Production/Fielding Support	- / -	- / -	- / -	- / 2.400	- / -	- / 2.400
Logistics Support	- / -	- / -	- / -	- / 6.200	- / -	- / 6.200
Facilitization	- / -	- / -	- / -	- / 20.994	- / -	- / 20.994
Technical Manuals Training	- / -	- / -	- / -	- / 2.100	- / -	- / 2.100
<i>Subtotal: Non-Recurring</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 31.694</i>	<i>- / -</i>	<i>- / 31.694</i>
<i>Subtotal: Multi-Domain Operations Digitization / Distributed Digital Receiver Exciter Kits</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 31.694</i>	<i>- / -</i>	<i>- / 31.694</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 31.694</i>	<i>- / -</i>	<i>- / 31.694</i>

Installation

<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
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Total

Total Cost (Procurement + Support + Installation)	-	-	-	31.694	-	31.694
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Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	
		Modification Number / Title: BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE	
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code: 602	
Modification Item 1 of 1: Multi-Domain Operations Digitization / Distributed Digital Receiver Exciter Kits			
Manufacturer Information			
Manufacturer Name: Lockheed Martin		Manufacturer Location: Syracuse, New York	
Administrative Leadtime (in Months): 21		Production Leadtime (in Months): 18	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): Lockheed Martin Depot		Installation Quantity: 60	

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604818A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	23.000	49.410	-	49.410	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	23.000	49.410	-	49.410	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	23.000	49.410	-	49.410	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line is directly aligned to the Army Network Modernization Strategy Line of Effort (LOE) #4 Command Post. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

The Command Post Integrated Infrastructure (CPI2) program addresses the requirements for a more mobile, scalable, interoperable, and agile command post. Currently fielded command posts are deemed too large and take too long to setup and teardown making them vulnerable to near peer detection and targeting technologies. By installing mission command warfighting functions on to formation appropriate vehicle platforms, a dispersed command post construct will enable the battle staff to blend in with the overall maneuver formation while giving the commander the ability to synchronize the close fight on the move. This dispersed mobile command post consists of Mission Command Platforms (MCPs) and Command Post Support Vehicles (CPSVs). The MCP is a formation appropriate vehicle that provides digital workstations for all mission command warfighting functions. The CPSV is the hub of the dispersed command post; it hosts mission command servers, radios, local area network components and a secure wireless capability. Specific to Corps/Div, CPI2 will provide a Mobile Command Group (MCG) consisting of formation appropriate platforms that supports Corps/Div Commanders/Staff with high priority functions while on the move.

CPI2 is executed in two Increments. With the approval of the CPI2 Capability Development Document (CDD) on April 9, 2020, the program increment designations have been updated to improve alignment with the supporting requirements document. The former Increment 1 is now designated as Increment 0 to meet needs of the Command Post Directed Requirement (CP DR), signed 14 Dec 2017. The former Increment 2 is now designated as Increment 1 aligned to the approved CPI2 CDD.

Increment 0 will procure and install CPI2 hardware and unit furnished equipment on to Family of Medium Tactical Vehicles (FMTV) and shelter systems to produce MCPs and CPSV in alignment with CP DR to field 5 BCT's. CPI2 will field 3 new BCT units and re-touch the initial 2 BCT units who supported CPI2 Increment 0 development to achieve fielding goal of 5 BCTs outlined in CP DR. Production will be executed using the existing contract previously awarded via Other Transaction Authority (OTA). CPI2 will procure vehicle platforms, hardware, and ancillary items that facilitate the CPI2 capability for the MCP/CPSV design. Increment 0 Milestone C production and installation focuses on the FMTV platform based MCP/CPSV shelter systems. Increment 0 procures vehicle platforms from the FMTV Program of Record (PoR) as the CP DR did not increase the Basis of Issue (BOI) for FMTV. CPI2 will include support for a Division Main Current Operations and Integration Cell (COIC).

After Increment 0 initial fielding; Increment 1 will execute MCP/CPSV production decision via a Milestone C (1QFY24) to field CPI2 MCP/CPSV to 86 Army units over the life of the program in alignment with CDD Basis of Issue (BOI). Increment 1 will field to selected units at Corps, Division, Brigade Combat Team's (BCTs), Battalion (BN) and select Multi-Functional Support Brigades (MFSBs). Increment 1 expands on Increment 0 to include formation appropriate vehicle platforms (Stryker, AMPV, JLTV) in addition to the FMTV based MCP and CPSV. The Milestone C will authorize award of a new competed contract with industry for installation of the FMTV platform based MCP and CPSV. The PoR for Stryker, AMPV, JLTV will produce their platforms via their existing contracts - with CPI2 responsible for delivering the CPI2

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604818A
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Line Item MDAP/MAIS Code: N/A

equipment for installation to facilitate an integrated MCP/CPSV for that platform type. Installation will incorporate available commercial off the shelf (COTS) as well as Government PoR equipment that provide mission command and communications functions within the command post. These capabilities will enable the Army to employ command posts cross the operational spectrum, from early entry to major combat operations that will resolve current command post issues with set up and tear down, survivability, mobility, suitability and footprint.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	23.000	49.410	-	49.410	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	23.000	49.410	-	49.410	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604818A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B29801 / CPI2	P-5a, P-21			- / -	- / -	- / 23.000	- / 49.410	- / -	- / 49.410
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / 23.000	- / 49.410	- / -	- / 49.410

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Fiscal Year 2022 Base Procurement dollars in the amount of \$49.410 million provides for CPI2 to acquire vehicle platforms, hardware and installation for the production of CPI2 Mission Command Platform (MCP) and Command Post Support Vehicles (CPSV). The MCP and CPSV provides increased mobility and survivability of today's command post. Funding provides the procurement of vehicle platforms, equipment for communications, concealment, power, secure wireless solutions, installation, training and program management. Funds also include engineering changes for units issued CPI2 equipment in the development phase of Increment 0. Funds will also support procurement and fielding of hardware to a Division Main COIC solution.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	Item Number / Title [DODIC]: B29801 / CPI2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	23.000	49.410	-	49.410
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	23.000	49.410	-	49.410
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	23.000	49.410	-	49.410

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Installation Test Assembly & Checkout (IATC)	-	-	-	-	-	-	-	-	-	-	-	13.375	-	-	-	-	-	13.375
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	2.972	-	-	-	-	-	2.972
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	16.347	-	-	-	-	-	16.347
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	16.347	-	-	-	-	-	16.347
Hardware Cost																		
Recurring Cost																		
FMTV Platform ^(†)	-	-	-	-	-	-	585.471	17	9.953	599.167	18	10.785	-	-	-	599.167	18	10.785
M1152 Platform ^(†)	-	-	-	-	-	-	142.250	12	1.707	145.125	8	1.161	-	-	-	145.125	8	1.161
Unified Voice Management System (UVMS) ^(†)	-	-	-	-	-	-	46.552	29	1.350	47.500	26	1.235	-	-	-	47.500	26	1.235
Secure Wireless Solution ^(†)	-	-	-	-	-	-	31.205	88	2.746	33.154	39	1.293	-	-	-	33.154	39	1.293
Rigid Wall Shelter ^(†)	-	-	-	-	-	-	34.000	6	0.204	35.000	2	0.070	-	-	-	35.000	2	0.070
Towable Expeditionary Shelter System (TESS) ^(†)	-	-	-	-	-	-	248.000	20	4.960	275.667	18	4.962	-	-	-	275.667	18	4.962

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	Item Number / Title [DODIC]: B29801 / CPI2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Command Post Display System (CPDS) ^(†)	-	-	-	-	-	-	5.400	20	0.108	5.500	18	0.099	-	-	-	5.500	18	0.099
Bootwalls ^(†)	-	-	-	-	-	-	5.917	36	0.213	6.026	38	0.229	-	-	-	6.026	38	0.229
Camouflage ^(†)	-	-	-	-	-	-	10.985	130	1.428	11.203	123	1.378	-	-	-	11.203	123	1.378
IECU/Power Generators ^(†)	-	-	-	-	-	-	10.529	17	0.179	10.722	18	0.193	-	-	-	10.722	18	0.193
Division COIC ^(††)	-	-	-	-	-	-	-	-	-	776.000	1	0.776	-	-	-	776.000	1	0.776
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	22.848	-	-	22.181	-	-	-	-	-	22.181
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	22.848	-	-	22.181	-	-	-	-	-	22.181
Logistics Cost																		
Recurring Cost																		
New Equipment Training	-	-	-	-	-	-	-	-	-	-	-	3.948	-	-	-	-	-	3.948
Post Deployment Software Sustainment (PDSS)	-	-	-	-	-	-	-	-	-	-	-	0.354	-	-	-	-	-	0.354
Data	-	-	-	-	-	-	-	-	-	-	-	0.553	-	-	-	-	-	0.553
Initial Sparing	-	-	-	-	-	-	-	-	-	-	-	1.106	-	-	-	-	-	1.106
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.961	-	-	-	-	-	5.961
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.961	-	-	-	-	-	5.961
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	-	-	-	0.152	-	-	2.939	-	-	-	-	-	2.939
Government Management	-	-	-	-	-	-	-	-	-	-	-	1.982	-	-	-	-	-	1.982
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	0.152	-	-	4.921	-	-	-	-	-	4.921
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	23.000	-	-	49.410	-	-	-	-	-	49.410

Remarks:
 1) FMTV Unit costs vary year to year based on different vehicle types being procured by CPI2 to align with unit fielding's.
 2) Towable Expeditionary Shelter System (TESS) unit cost variability driven by improved understanding of final design which results in a higher projected unit cost.
 3) Increase in Program Management costs is due to fact that CPI2 will be managing an integration/production effort for a full year in FY22.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	Item Number / Title [DODIC]: B29801 / CPI2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	23.000	49.410	-	49.410
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	23.000	49.410	-	49.410

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	Item Number / Title [DODIC]: B29801 / CPI2
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
FMTV Platform ^(†)		2021	OSHKOSH Corp / Oshkosh, WI	Allot	TACOM, Warren, MI	Jun 2021	May 2022	17	585.471	Y		
FMTV Platform ^(†)		2022	OSHKOSH Corp / Oshkosh, WI	Allot	TACOM, Warren, MI	Dec 2021	Oct 2022	18	599.167	Y		
M1152 Platform		2021	American General / Mishawaka, IN	Allot	TACOM, Warren MI	Jun 2021	Dec 2021	12	142.250	Y		
M1152 Platform		2022	American General / Mishawaka, IN	Allot	TACOM, Warren MI	Dec 2021	May 2022	8	145.125	Y		
Unified Voice Management System (UVMS)		2021	CHS / Taunton, MA	MIPR	Aberdeen Proving Ground, MD	Jun 2021	May 2022	29	46.552	Y		
Unified Voice Management System (UVMS)		2022	CHS / Taunton, MA	MIPR	Aberdeen Proving Ground, MD	Dec 2021	May 2022	26	47.500	Y		
Secure Wireless Solution		2021	CHS / Taunton, MA	MIPR	Aberdeen Proving Ground, MD	Jun 2021	Dec 2021	88	31.205	Y		
Secure Wireless Solution		2022	CHS / Taunton, MA	MIPR	Aberdeen Proving Ground, MD	Dec 2021	Feb 2022	39	33.154	Y		
Rigid Wall Shelter		2021	AAR Manufacturing, Inc / Cadillac, MI	Allot	Natick MA	Jun 2021	Sep 2021	6	34.000	Y		
Rigid Wall Shelter		2022	AAR Manufacturing, Inc / Cadillac, MI	Allot	Natick, MA	Dec 2021	Apr 2022	2	35.000	Y		
Towable Expeditionary Shelter System (TESS)		2021	TBD / TBD	Allot	Natick, MA	Jun 2021	Sep 2021	20	248.000	Y		
Towable Expeditionary Shelter System (TESS)		2022	TBD / TBD	Allot	Natick MA	Dec 2021	Apr 2022	18	275.667	Y		
Command Post Display System (CPDS)		2021	CHS / Taunton, MA	MIPR	Aberdeen Proving Ground, MD	Jun 2021	Nov 2021	20	5.400	Y		
Command Post Display System (CPDS)		2022	CHS / Taunton, MA	MIPR	Aberdeen Proving Ground, MD	Dec 2021	Mar 2022	18	5.500	Y		
Bootwalls		2021	TACOM ILSC / Natick, MA	MIPR	Natick, MA	Jun 2021	Oct 2021	36	5.917	Y		
Bootwalls		2022	TACOM ILSC / Natick, MA	MIPR	Natick, MA	Dec 2021	Apr 2022	38	6.026	Y		
Camouflage		2021	TBD / TBD	Allot	Natick, MA	Jun 2021	Oct 2021	130	10.985	Y		
Camouflage		2022	TBD / TBD	Allot	Natick MA	Dec 2021	Apr 2022	123	11.203	Y		
IECU/Power Generators		2021	TBD / TBD	Allot	Ft.Belvoir, VA	Jun 2021	Oct 2021	17	10.529	Y		
IECU/Power Generators		2022	TBD / TBD	Allot	Ft.Belvoir, VA	Dec 2021	Apr 2022	18	10.722	Y		
Division COIC		2022	TBD / TBD	TBD	ACC, Aberdeen Proving Ground	Oct 2021	Mar 2022	1	776.000	Y		

^(†) indicates the presence of a P-21

Remarks:
1) CPI2 is an integration program that leverages hardware buys from existing PoR contracts.

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89										P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)										Item Number / Title [DODIC]: B29801 / CPI2									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023														Fiscal Year 2024														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
FMTV Platform																																			
	1	2021	ARMY	17	17	0																								0					
	1	2022	ARMY	18	0	18	18																							0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)
		Item Number / Title [DODIC]: B29801 / CPI2

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OSHKOSH Corp - Oshkosh, WI	1	5	20	0	1	10	11	0	1	10	11

Remarks:

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"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	287	525	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	542.254	13.197	9.390	9.853	-	9.853	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	542.254	13.197	9.390	9.853	-	9.853	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	542.254	13.197	9.390	9.853	-	9.853	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,889.387	25.137	-	-	-	-	-	-	-	-	-	-

Description:

The Fire Support Command & Control (FSC2) funding line supports the Long Range Precision Fires (LRPF) Cross Functional Team (CFT), the #1 priority in the Army Modernization Strategy and the Common Operating Environment (COE). Efforts are aligned to support the Network-CFT capability set approach.

Product Manager (PdM) FSC2 oversees the development and fielding of the Advanced Field Artillery Tactical Data System (AFATDS), Precision Fires-Dismounted/Mounted (PF-D/M) and Joint Automated Deep Operations Coordination System (JADOCS) programs. In support of the LRPF CFT, it also supports development of the Extended Range Canon Artillery (ERCA), Extended Range Guided Multiple Launch Rocket System (ER-GMLRS) and Precision Strike Missile System (PRSM) initiatives. To support these initiatives, PdM FSC2 also began supporting the Long Range Hypersonic Weapons (LRHW) program in FY 2020.

FSC2 systems automate the planning and execution of fire support operations so that suitable weapons or a group of weapons adequately cover targets. Fire support is the effect of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious and special operations forces to engage enemy forces, combat formations and facilities in pursuit of tactical and operational objectives.

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint and Coalition targeting, coordination mission management software application. It links Command and Control (C2), Intelligence, and Air Operations information with execution systems using real time collaborative targeting managers, customized for each service or specific functional area. JADOCS is used to significantly enhance the Joint Force and Component Command's capability to simultaneously develop, coordinate and execute Dynamic and Time Sensitive targets and fire missions, as well as battle space coordination worldwide. JADOCS provides coordination and de-confliction of targeting information at all levels of command structure for the military. JADOCS is used by Air, Ground, Maritime, and Special Operations forces. It provides horizontal (across Services) as well as vertical (within Services) coordination of missions to ensure a common picture of targeting operational status across the entire joint force. As a software application, JADOCS can be configured and customized for each user and location. FY20 was last year of procurement funding.

The Advanced Field Artillery Tactical Data System (AFATDS) provides the Army and Marine Corps automated fire support command, control and communications. AFATDS is used to plan, execute, and deliver lethal and non-lethal effects. AFATDS provides Joint/Coalition Situational Awareness for fires execution and mission management. The system interoperates and integrates with over 80 different battlefield systems, including Navy and Air Force command and control weapons systems. As a member of the Artillery System Cooperation Agreement (ASCA), AFATDS is interoperable with coalition partner fire support systems. Currently fielding AFATDS 6.8 baseline, which automates the planning, coordination, and control of all fire support assets (field artillery, mortars, close air support, naval gunfire, attack helicopters, offensive electronic warfare, fire support meteorological systems, forward observers, and fire support radars).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A

The Advanced Field Artillery Tactical Data System (AFATDS) funding line supports the Army Modernization Strategy Common Operating Environment. Efforts are aligned to support the Network-Cross Functional Team (CFT) capability set approach to achieve the network modernization strategy. AFATDS 7 modernizes the software currently in the field and enhances the existing legacy baseline by: (1) Providing a modernized web service backend that will simplify long-term maintenance of the software, (2) Bringing AFATDS into full compliance with the Army's Common Operating Environment (COE) Command Post Computing Environment (CPCE) initiative and (3) Enhancing overall usability of the system through the implementation of a role-based capability architecture with embedded training that allows the AFATDS operator to receive on-the-spot training for any aspect of AFATDS via interactive instruction.

AFATDS supports Long Range Precision Fires (LRPF) CFT, Extended Range Canon Artillery (ERCA), Extended Range Guided Multiple Launch Rocket System (ER-GMLRS), Precision Strike Missile System (PRSM) and emerging sensor to shooter initiatives. To support these initiatives, AFATDS will serve as the key sensor to shooter link for the Army and US Marine Corps providing fully automated support for planning, coordinating, controlling and executing fires and effects. AFATDS began supporting Long Range Hypersonic Weapons in Fiscal Year 20.

Precision Fires Dismounted/Mounted (PF-D/M) provides the dismounted and mounted Forward Observer (FO) and Fire Support Teams (FISTs) the ability to execute fire missions. PF-D/M, is a software application that operates on the Nett Warrior End User Device (EUD). It will provide the dismounted Forward Observer (FO) and Fire Support Teams (FISTs) the capability and functionality to accurately and rapidly locate ground targets and digitally process a Call for Fire. PF-D answers the Mobile Handheld Computing Environment requirement that all handheld applications reside on the Nett Warrior EUD. PF-M replaces the Lightweight Forward Entry Devices (LFED) Forward Observer Software (FOS) at the maneuver company FIST. PF-M answers the Mounted Computing Environment requirement and will reside on the Mounted Family of Computer Systems (MFoCS) computer.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	289	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.303	9.390	9.853	-	9.853	-	-	-	-
ANG	Quantity	222	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.613	-	-	-	-	-	-	-	-
AR	Quantity	14	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.281	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	525	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.197	9.390	9.853	-	9.853	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
 9060B28501 / Fire Support C2 Family

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203726A, 0203728A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B28504 / JADOCs				- / 5.411	- / 0.494	- / -	- / -	- / -	- / -
P-5	B28620 / MOD OF IN-SVC EQUIP, AFATDS	P-5a			287 / 212.464	114 / 4.083	- / 5.494	- / 7.205	- / -	- / 7.205
P-5	BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)	P-5a			- / 324.379	411 / 8.620	- / 3.896	- / 2.648	- / -	- / 2.648
P-40	Total Gross/Weapon System Cost				287 / 542.254	525 / 13.197	- / 9.390	- / 9.853	- / -	- / 9.853

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$9.853M support the following efforts:

FY22 Base procurement dollars (B28620) in the amount of \$7.205 million procures hardware (AFATDS workstation and Effects Management Tool (EMT)) for integration and fielding of AFATDS 6.8, Program Management Office (PMO) support, and fielding a portion of the Army directed BOI/MTOE increase.

FY22 Base procurement dollars (BZ9851) in the amount of \$2.648 million will procure ARSTRUC additions, ancillary equipment, consisting of ultralinks, cables and hubs to field PF-D 2, PDSS and PMO support.

B28504 / JADOCs has no FY2022 funding request.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P. L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28504 / JADOCs

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5.411	0.494	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5.411	0.494	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5.411	0.494	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Fielding Cost																		
Fielding	-	-	1.413	-	-	0.494	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Fielding Cost	-	-	1.413	-	-	0.494	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	1.209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Contractor Management	-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Program Management Cost	-	-	1.509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Equipment	-	-	2.489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Training Cost	-	-	2.489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	5.411	-	-	0.494	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.494	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	0.494	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	287	114	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	212.464	4.083	5.494	7.205	-	7.205
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	212.464	4.083	5.494	7.205	-	7.205
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	212.464	4.083	5.494	7.205	-	7.205

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	740.293	35.816	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware - AFATDS Legacy MC Workstations ^(†)	63.953	2,628	168.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	168.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	168.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
Hardware - AFATDS Legacy MC Workstations ^(†)	-	-	-	-	-	-	-	-	22.066	140	3.089	-	-	-	22.066	140	3.089	-
Hardware - EMT ^(††)	-	-	-	-	-	-	-	-	4.276	21	0.090	-	-	-	4.276	21	0.090	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	3.179	-	-	-	-	-	3.179	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	3.179	-	-	-	-	-	3.179	-
Software Cost																		
Recurring Cost																		
Post Deployment Software Support	-	-	-	-	-	0.489	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.489	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	-	-	-	0.489	-	-	-	-	-	-	-	-	-	-	-	-
Support - Common Support Equipment Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support and Handling Equipment	-	-	-	-	-	0.745	-	-	1.076	-	-	0.403	-	-	-	-	-	0.403
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	-	-	-	0.745	-	-	1.076	-	-	0.403	-	-	-	-	-	0.403
Support - Fielding Cost																		
Fielding	-	-	11.525	-	-	0.113	-	-	1.013	-	-	1.257	-	-	-	-	-	1.257
<i>Subtotal: Support - Fielding Cost</i>	-	-	11.525	-	-	0.113	-	-	1.013	-	-	1.257	-	-	-	-	-	1.257
Support - Program Management Cost																		
Contractor Management	-	-	8.649	-	-	0.520	-	-	1.311	-	-	1.311	-	-	-	-	-	1.311
Government Management	-	-	-	-	-	1.149	-	-	0.840	-	-	0.613	-	-	-	-	-	0.613
<i>Subtotal: Support - Program Management Cost</i>	-	-	8.649	-	-	1.669	-	-	2.151	-	-	1.924	-	-	-	-	-	1.924
Support - System Engineering Cost																		
System Engineering	-	-	11.426	-	-	0.898	-	-	0.605	-	-	0.442	-	-	-	-	-	0.442
<i>Subtotal: Support - System Engineering Cost</i>	-	-	11.426	-	-	0.898	-	-	0.605	-	-	0.442	-	-	-	-	-	0.442
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	-	-	-	0.169	-	-	0.466	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	0.169	-	-	0.466	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Services	-	-	12.796	-	-	-	-	-	0.183	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	12.796	-	-	-	-	-	0.183	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	740.293	287	212.464	35.816	114	4.083	-	-	5.494	-	-	7.205	-	-	-	-	-	7.205

Remarks:
The unit cost for the AFATDS Legacy MC Workstation in FY21 included just the cost of the laptop. The FY22 unit cost includes all the components of the fielded product/hardware which includes laptop, HDD, Utralink, cables and operational case.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	42	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	Total Obligation Authority	2.637	5.494	7.205	-	7.205
ANG	Quantity	58	-	-	-	-
	Total Obligation Authority	1.165	-	-	-	-
AR	Quantity	14	-	-	-	-
	Total Obligation Authority	0.281	-	-	-	-
Total:	Quantity	114	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.083	5.494	7.205	-	7.205

(t) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family				Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware - AFATDS Legacy MC Workstations		2021	CHS / Aberdeen Proving Ground, MD	C / FFP	Army Contracting Cmd, APG, MD	Mar 2021	Apr 2021	0	0.000	Y		
Hardware - AFATDS Legacy MC Workstations		2022	CHS / Aberdeen Proving Ground, MD	C / FP	Army Contracting Cmd, APG, MD	May 2022	Jun 2022	140	22.064	Y		
Hardware - EMT		2022	CHS / Aberdeen Proving Ground, MD	C / FP	Army Contracting Cmd, APG, MD	May 2022	Jun 2022	21	4.286	Y		

Remarks:
No P21 required for COTS/GOTS solutions. Mounted Family of Computer Systems (MFOCS) is a COTS procured item.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	411	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	324.379	8.620	3.896	2.648	-	2.648
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	324.379	8.620	3.896	2.648	-	2.648
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	324.379	8.620	3.896	2.648	-	2.648

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	20.973	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware ^(†)	42.037	895	37.623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	37.623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	37.623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
LFED	-	-	-	-	-	-	-	-	-	15.066	17	0.256	-	-	-	15.066	17	0.256
PFED (PF-D)	-	-	-	-	-	-	-	-	-	6.054	25	0.151	-	-	-	6.054	25	0.151
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.407	-	-	-	-	-	0.407
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.407	-	-	-	-	-	0.407
Software Cost																		
Recurring Cost																		
PDSS	-	-	-	-	-	0.345	-	-	0.444	-	-	0.850	-	-	-	-	-	0.850
Subtotal: Recurring Cost	-	-	-	-	-	0.345	-	-	0.444	-	-	0.850	-	-	-	-	-	0.850
Subtotal: Software Cost	-	-	-	-	-	0.345	-	-	0.444	-	-	0.850	-	-	-	-	-	0.850
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	9.477	-	-	0.446	-	-	0.606	-	-	0.429	-	-	-	-	-	0.429
Subtotal: Support - Common Support Equipment Cost	-	-	9.477	-	-	0.446	-	-	0.606	-	-	0.429	-	-	-	-	-	0.429

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family
		Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Fielding Cost																		
Fielding	-	-	45.113	-	-	1.367	-	-	0.478	-	-	0.492	-	-	-	-	-	0.492
<i>Subtotal: Support - Fielding Cost</i>	-	-	45.113	-	-	1.367	-	-	0.478	-	-	0.492	-	-	-	-	-	0.492
Support - Production Engineering Cost																		
Production Engineering	-	-	53.953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	53.953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Contractor Management	-	-	30.302	-	-	4.914	-	-	1.705	-	-	0.237	-	-	-	-	-	0.237
Government Management	-	-	-	-	-	1.048	-	-	0.391	-	-	0.233	-	-	-	-	-	0.233
<i>Subtotal: Support - Program Management Cost</i>	-	-	30.302	-	-	5.962	-	-	2.096	-	-	0.470	-	-	-	-	-	0.470
Support - System Engineering Cost																		
System Engineering	-	-	33.631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	33.631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	31.205	-	-	-	-	-	0.272	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	31.205	-	-	-	-	-	0.272	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Services	-	-	83.075	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	83.075	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	324.379	20.973	411	8.620	-	-	3.896	-	-	2.648	-	-	-	-	-	2.648

Remarks:
PMO increase to manage two baselines.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	247	-	-	-	-
	Total Obligation Authority	5.172	3.896	2.648	-	2.648

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
ANG	Quantity	164	-	-	-	-
	Total Obligation Authority	3.448	-	-	-	-
Total:	Quantity	411	-	-	-	-
Secondary Distribution	Total Obligation Authority	8.620	3.896	2.648	-	2.648

(t) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family				Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2019	DRS Tactical / Melbourne, Fl	C / FFP	Army Contracting Cmd, APG, MD	Nov 2018	May 2019	509	14.060	Y		

Remarks:
No P21 required for COTS/GOTS solutions. Hardware is Commercial Off The Shelf (COTS) procurement.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,006.333	39.061	62.517	67.193	-	67.193	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,006.333	39.061	62.517	67.193	-	67.193	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,006.333	39.061	62.517	67.193	-	67.193	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	17,970.232	5,580.143	2,841.682	22,397.667	-	22,397.667	-	-	-	-	-	-

Description:

The Air Missile Defense Planning and Control System (AMDPCS) provides integration of air and missile defense operations at all echelons. AMDPCS is comprised of the following major subsystems: Air Missile Defense Work Station (AMDWS) provides a correlated air picture using local radars, allowing the Commander the visibility and situational understanding of the airspace; other tools in AMDWS affords Soldiers horizontal and vertical collaborative planning with adjacent units. Air Defense System Integrator (ADSI) serves as a joint tactical data-link gateway/air picture. Forward Area Air Defense (FAAD), correlates the joint and local air picture and when displayed on AMDWS, provides a near real time, three-dimensional air picture for the Commander. Joint Tactical Terminal (JTT) provides Soldiers Theater Ballistic Missile (TBM) early warning allowing them to take appropriate actions. AMDPCS are currently fielded to Army Air and Missile Defense Commands (AAMDC), Air Defense Artillery Brigades, (ADA BDE), Air and Missile Defense Battalions (AMD BN) and Terminal High Altitude Area Defense Batteries (THAAD BTRY). Air Defense Airspace Management (ADAM), a variant of AMDPCS are fielded to Corps, Divisions, Brigade Combat Teams (BCTs) and multi-functional support brigades. AMDWS and FAAD C2 are core components of the Counter, Rocket, Artillery, Mortar (C-RAM) system-of-systems currently deployed in combat zones.

The Approved Acquisition Objective (AAO) for AMDPCS shelter systems is 503. FY 2020 through FY 2023 Base procurement dollars contain Army programmed funding for Interim Maneuver Short Range Air Defense (IM-SHORAD) Battalions and Grow the Army (GTA) requirements.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.061	33.300	19.808	-	19.808	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	29.217	47.385	-	47.385	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.061	62.517	67.193	-	67.193	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
 9266AD5070 / AIR & MSL Defense Planning & Control Sys

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604741A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	AD5070 / AIR & MSL Defense Planning & Control Sys	P-5a			- / 1,006.333	- / 39.061	- / 62.517	- / 67.193	- / -	- / 67.193
P-40	Total Gross/Weapon System Cost				- / 1,006.333	- / 39.061	- / 62.517	- / 67.193	- / -	- / 67.193

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$67.193 million procure four (4) Battery Command Posts (BCP) for the Active Component, and ten (10) Sensor Command and Control (C2) Nodes, three (3) Air Battle Management Operations Centers (ABMOC), and one (1) BCP for the Army National Guard, for a total of 18 shelters. In addition, FY 2022 Base procurement dollars procure 75 Passive Identification Friend or Foe (PIFF) systems for integration into fielded shelters. These procurement dollars also include shipping/fielding costs, New Equipment Training (NET), software sustainment/support (technical expertise and Information Assurance and Vulnerability Assessment [IAVA]).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys	Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		1,006.333	39.061	62.517	67.193	-	67.193
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		1,006.333	39.061	62.517	67.193	-	67.193
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		1,006.333	39.061	62.517	67.193	-	67.193
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		17,970.232	5,580.143	2,841.682	22,397.667	-	22,397.667

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. System Integration/ Hardware ^(†)	1,975.820	354	699.440	2,035.769	13	26.465	1,989.273	22	43.764	2,243.722	18	40.387	-	-	-	2,243.722	18	40.387
Passive Identification Friend or Foe (PIFF) Hardware ^(†)	-	-	-	-	-	-	-	-	-	151.280	75	11.346	-	-	-	151.280	75	11.346
<i>Subtotal: Recurring Cost</i>	-	-	699.440	-	-	26.465	-	-	43.764	-	-	51.733	-	-	-	-	-	51.733
<i>Subtotal: Flyaway Cost</i>	-	-	699.440	-	-	26.465	-	-	43.764	-	-	51.733	-	-	-	-	-	51.733
Software Cost																		
Recurring Cost																		
5. Software Modifications	-	-	39.346	-	-	3.297	-	-	3.483	-	-	3.553	-	-	-	-	-	3.553
<i>Subtotal: Recurring Cost</i>	-	-	39.346	-	-	3.297	-	-	3.483	-	-	3.553	-	-	-	-	-	3.553
<i>Subtotal: Software Cost</i>	-	-	39.346	-	-	3.297	-	-	3.483	-	-	3.553	-	-	-	-	-	3.553
Support - Fielding Cost																		
Fielding	-	-	106.874	-	-	3.868	-	-	6.806	-	-	4.994	-	-	-	-	-	4.994
<i>Subtotal: Support - Fielding Cost</i>	-	-	106.874	-	-	3.868	-	-	6.806	-	-	4.994	-	-	-	-	-	4.994
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	106.566	-	-	2.910	-	-	5.937	-	-	4.273	-	-	-	-	-	4.273

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys	Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	106.566	-	-	2.910	-	-	5.937	-	-	4.273	-	-	-	-	-	4.273
Support - Program Management Cost																		
Government Management	-	-	54.107	-	-	2.521	-	-	2.527	-	-	2.640	-	-	-	-	-	2.640
<i>Subtotal: Support - Program Management Cost</i>	-	-	54.107	-	-	2.521	-	-	2.527	-	-	2.640	-	-	-	-	-	2.640
Gross/Weapon System Cost	17,970.232	-	1,006.333	5,580.143	-	39.061	2,841.682	-	62.517	22,397.667	-	67.193	-	-	-	22,397.667	-	67.193

Remarks:

Quantities reflect six (6) shelter types (AMDPCS-A, AMDPCS-B, ADAM Cell, ABMOC, Battery CP, and Sensor C2 Node) and Transit Cased Air Defense System Integrator (ADSI) with varying unit costs. System Integration/Hardware cost also includes equipment refresh which is not associated with quantities. This results in fluctuation of unit cost by year based on the quantities procured in support of Army fielding requirements.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	39.061	33.300	19.808	-	19.808
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	29.217	47.385	-	47.385
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	39.061	62.517	67.193	-	67.193

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys					Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1. System Integration/Hardware		2019	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Dec 2018	May 2019	11	1,631.182	N		
1. System Integration/Hardware		2020	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Dec 2019	May 2020	13	2,035.769	N		
1. System Integration/Hardware		2021	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Feb 2021	Jul 2021	22	1,989.273	N		
1. System Integration/Hardware		2022	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Feb 2022	Jul 2022	18	2,243.722	N		
Passive Identification Friend or Foe (PIFF) Hardware		2022	Telephonics / Farmingdale, NY	SS / FFP	Huntsville, AL	Apr 2022	Nov 2022	75	151.280	N		

Remarks:
The Air and Missile Defense Planning and Control System (AMDPCS) is a COTS program. COTS and Government Furnished Equipment (GFE) are integrated by the contractor.

Quantities reflect six shelter types (AMDPCS-A, AMDPCS-B, ADAM Cell, ABMOC, Battery CP, and Sensor C2 Node) and Transit Cased Air Defense System Integrator (ADSI) with varying unit costs. System Integration/Hardware cost also includes equipment refresh which is not associated with quantities. This results in fluctuation of unit cost by year based on the quantities procured in support of Army fielding requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603327A, 0605457A
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Line Item MDAP/MAIS Code: 205

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.917	29.629	198.587	301.872	-	301.872	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.917	29.629	198.587	301.872	-	301.872	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.917	29.629	198.587	301.872	-	301.872	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Army Integrated Air and Missile Defense program (AIAMD) is a designated Major Defense Acquisition Program (MDAP), a critical component of the Army's Air and Missile Defense strategy, and is the number one AMD Cross Functional Team modernization priority program. The AIAMD program is a direct response to the U.S. Army Air and Missile Defense (AMD) Concept and Operational and Organizational (O&O) Plan for the Future Force, the AIAMD System of Systems (SoS) Capabilities Development Document (CDD), and the AMD Task Force Concept of Operations (CONOPS). The AIAMD Program is uniquely structured to enable the development of an overarching system of systems (SoS) capability with all participating Air Defense Artillery (ADA) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD program achieves this objective by establishing the AIAMD architecture and developing (1) the IAMD Battle Command Systems (IBCS) Engagement Operations Center (EOC) that provides the common Mission Command capability, (2) the Integrated Fire Control Network (IFCN) Relay capability for fire control connectivity and distributed operations, and (3) the common Plug and Fight (P&F) Kits that network enable multiple sensor components, weapon components, and the IBCS EOC.

The AIAMD Program will provide advanced capabilities to the Army and the soldier by allowing transformation to a network-centric system-of-systems capability (also referred to as "Plug and Fight") that integrates Army AMD sensors and weapons with the IBCS EOC. The AIAMD SoS architecture will enable extended range and non-line-of-sight engagements to include joint kill chain engagements across the full spectrum of aerial threats, providing fire control quality data to the most appropriate weapon to complete the mission successfully. Further, it will mitigate the coverage gaps and the single points of failure that have affected AMD defense design in the past. The AIAMD program will provide the user with the ability to train on a single IBCS that will result in overall training savings. The AIAMD program will also provide the Army with the ability to procure components that will build to established Integrated Fire Control interfaces alleviating the cost of procuring total system capabilities in the future.

AIAMD IOC will be delivered through the fielding of the IBCS-based AIAMD architecture, including the IBCS EOC, IFCN Relay, Sentinel A3, and Patriot components connected via an IFCN, working in an integrated manner. The government controlled open architecture enables integration of future capabilities to meet emerging threats and fielding to Enduring Indirect Fire Protection Capability (IFPC), Air Defense Airspace Management (ADAM) Cells, ADA Brigade, Army Air and Missile Defense Command Headquarters (AAMDC), and Terminal High Altitude Area Defense (THAAD).

FY 2022 funding is allocated to the Active Component.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.629	198.587	301.872	-	301.872	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: 0603327A, 0605457A			
Line Item MDAP/MAIS Code: 205									

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	29.629	198.587	301.872	-	301.872	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603327A, 0605457A
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Line Item MDAP/MAIS Code: 205

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ5075 / IAMD Battle Command System	P-5a, P-21			- / 20.917	- / 29.629	- / 198.587	- / 301.872	- / -	- / 301.872
P-40	Total Gross/Weapon System Cost				- / 20.917	- / 29.629	- / 198.587	- / 301.872	- / -	- / 301.872

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$301.872 million will procure hardware to convert two PATRIOT Battalions (six Engagement Operation Centers (EOC) and twelve Integrated Fire Control Network (IFCN) relays per Battalion), one Enduring IFPC Battery (four EOCs and three IFCN relays), one ADA Brigade (two EOCs and three IFCN relays), and one AAMDC (three EOCs and three IFCN relays), to IBCS enabled units. In addition to EOCs and IFCN Relays each unit also requires Plug and Fight kits, Government Furnished Equipment, such as radios and Global Positioning System equipment, and initial spares. Seven trainers (five EOCs and two relays) are also being procured in FY 2022 to enhance the training base.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System	Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	20.917	29.629	198.587	301.872	-	301.872
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	20.917	29.629	198.587	301.872	-	301.872
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.917	29.629	198.587	301.872	-	301.872

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Engagement Operation Centers (CFE) ^(†)	-	-	-	1,030.500	6	6.183	6,032.231	13	78.419	4,300.192	26	111.805	-	-	-	4,300.192	26	111.805
Integrated Fire Control Network Relays (CFE)	-	-	-	360.000	12	4.320	1,338.875	24	32.133	1,011.400	35	35.399	-	-	-	1,011.400	35	35.399
Plug and Fight Items	-	-	-	-	-	10.359	-	-	17.677	-	-	26.684	-	-	-	-	-	26.684
Government Furnished Equipment	-	-	-	-	-	3.826	-	-	19.584	-	-	40.282	-	-	-	-	-	40.282
Government Program Management	-	-	-	-	-	1.855	-	-	5.388	-	-	5.867	-	-	-	-	-	5.867
Software and Systems Engineering	-	-	-	-	-	1.243	-	-	36.652	-	-	61.518	-	-	-	-	-	61.518
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	27.786	-	-	189.853	-	-	281.555	-	-	-	-	-	281.555
Non Recurring Cost																		
Long Lead Materials	-	-	12.920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Production Facilities	-	-	7.997	-	-	0.261	-	-	1.512	-	-	2.416	-	-	-	-	-	2.416
<i>Subtotal: Non Recurring Cost</i>	-	-	20.917	-	-	0.261	-	-	1.512	-	-	2.416	-	-	-	-	-	2.416
<i>Subtotal: Flyaway Cost</i>	-	-	20.917	-	-	28.047	-	-	191.365	-	-	283.971	-	-	-	-	-	283.971
Logistics Cost																		
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Initial Spares	-	-	-	-	-	1.582	-	-	3.228	-	-	8.332	-	-	-	-	-	8.332
Interim Contractor Support	-	-	-	-	-	-	-	-	3.994	-	-	6.554	-	-	-	-	-	6.554
Logistics Support	-	-	-	-	-	-	-	-	-	-	-	3.015	-	-	-	-	-	3.015
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	1.582	-	-	7.222	-	-	17.901	-	-	-	-	-	17.901
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	1.582	-	-	7.222	-	-	17.901	-	-	-	-	-	17.901
Gross/Weapon System Cost	-	-	20.917	-	-	29.629	-	-	198.587	-	-	301.872	-	-	-	-	-	301.872

Remarks:

FY 2020, FY 2021, and FY 2022 funding breakouts were updated based on the Milestone C Army Cost Position. The program transitions from Engineering Manufacturing and Development to Low Rate Initial Production and continues to procure Major End Items (MEIs) in FY 2021 and beyond. Total costs include commercial-off-the-shelf software and software license costs that are delivered with the MEIs, as well as prime contractor production/systems engineering associated with the procurement of Engagement Operation Centers and Integrated Fire Control Network relays.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	29.629	198.587	301.872	-	301.872
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	29.629	198.587	301.872	-	301.872

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System	Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Engagement Operation Centers (CFE) ^(†)		2020	Northrop Grumman / Huntsville, AL	SS / FPIF	ACC-R	Mar 2020	Oct 2020	6	1,030.500	N		Oct 2019
Engagement Operation Centers (CFE) ^(†)		2021	TBD / TBD	C / IDIQ	ACC-R	Sep 2021	Dec 2022	13	6,032.231	N	Mar 2020	Nov 2020
Engagement Operation Centers (CFE) ^(†)		2022	TBD / TBD	Option / IDIQ	ACC-R	Aug 2022	Nov 2023	26	4,300.192	N		Apr 2022

^(†) indicates the presence of a P-21

Remarks:

The FY 2020 equipment quantities, unit cost, and delivery dates represent a refresh of previously procured RDT&E equipment to support the Initial Operational Capability. FY 2020 unit cost includes both Engagement Operation Centers and Integrated Fire Control Network Relays.

Beginning in FY 2021, all equipment will be new procurement hardware with a resultant increase in unit cost when compared to FY 2020 unit cost.

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Exhibit P-21, Production Schedule: PB 2022 Army															Date: May 2021														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89										P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System										Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Engagement Operation Centers (CFE)																																			
	1	2020	ARMY	6	6	0																												0	
	2	2021	ARMY	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	2	2		
	2	2022	ARMY	26	0	26											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89 **P-1 Line Item Number / Title:** 9280BZ5075 / IAMD Battle Command System **Item Number / Title [DODIC]:** BZ5075 / IAMD Battle Command System

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Engagement Operation Centers (CFE)																															
	1	2020	ARMY	6	6	0																							0		
	2	2021	ARMY	13	11	2		2																					0		
	2	2022	ARMY	26	0	26	-	2	2	2	2	2	2	2	3	3	3	3											0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9280BZ5075 / IAMD Battle Command System	Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2022	1-8-5 For 2022	MAX For 2022	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Northrop Grumman - Huntsville, AL	6	12	18	12	5	7	12	0	0	0	0
2	TBD - TBD	12	24	48	12	8	15	23	12	8	15	23

Remarks:
Procurement lead time differences between FY 2020 and FY's 2021-2022 equipment is due to FY 2020 being refresh of previously procured equipment and FY's 2021-2022 being new production hardware.

"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9442BD3955 / Life Cycle Software Support (LCSS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	114.622	5.420	2.495	5.182	-	5.182	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	114.622	5.420	2.495	5.182	-	5.182	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	114.622	5.420	2.495	5.182	-	5.182	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The CECOM Software Engineering Center (SEC) provides depot maintenance for weapon system specific Post Production Software Support (PPSS) supporting Intelligence, Force Protection, Electronic Warfare, Aviation, Mission Command, Tactical Radio, Tactical Network, Transport, Counter Fire Radar, and Satellite Communications programs. It supports readiness of Army network systems, mission command capabilities and intelligence and sensor systems. Policy for PPSS requires that system managers provide initial host capabilities for new systems and that the Life Cycle Management Centers (LCMCs) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are no longer economically repairable and/or are reaching obsolescence. There is a requirement to respond to emergency requests from the field for Software Engineering support, in order to maintain operational readiness of deployed weapon systems. With host computers and peripherals having a life span of approximately five years and SEC performing its mission over a continuous period of time beyond five years, equipment and labs must be replaced and/or upgraded regularly to deal with obsolescence and take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments. SEC must purchase these items to meet systems' mission requirements. SEC must also develop Continuity of Operations (COOP) sites in order to reduce risk of a catastrophic failure at the primary location. These sites will restore data and the software development environment, allowing SEC to maintain critical software updates, accreditation, and IV&V. Major equipment purchases include servers and server storage.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.420	2.495	5.182	-	5.182	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.420	2.495	5.182	-	5.182	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
 9442BD3955 / Life Cycle Software Support (LCSS)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BD3955 / Life Cycle Software Support (LCSS)				- / 114.622	- / 5.420	- / 2.495	- / 5.182	- / -	- / 5.182
P-40	Total Gross/Weapon System Cost				- / 114.622	- / 5.420	- / 2.495	- / 5.182	- / -	- / 5.182

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 procurement in the amount of \$5.182 million supports maintaining software capabilities in labs:

1. SDIN Hardware Infrastructure: Procure critical End of Service (EoS) hardware in order to support connecting labs to the SEC SE2 network, as well as to DREN, PM Tactical Networks GAIT, NSA and other connections. SDIN - DREN, JOIN CORE, and coalition networking updates: Procure key networking equipment that increases DREN, JOIN CORE, and coalition technical capability necessary to conform to ATO Certification.
2. Software Engineering Environment (SE2): Procure equipment to provide an offsite Continuity of Operations Plan (COOP) for Unclassified SE2 to reduce the risk of a catastrophic failure at the primary location (APG). Failure to receive approval will result in increased risk to the Unclassified SE2. Should a catastrophic event happen to the primary location, there will be no data and no software development environment to restore. The ability of the numerous SEC labs utilizing SE2 for their software development efforts will cease to exist resulting in the inability to produce software updates for fielded systems. The end result is an increase to the loss of aircraft, vehicles, systems and life that require the SEC mission critical software updates. Procure lab automation equipment to account for technological advancements for SEC's capability to centrally manage and sustain the SE2 Lab Infrastructure.
3. Sensors and Mission Equipment Division Tactical SIGINT Baseline Garrison Environment B Phase 1 (Stands up one shelter and completes one system): Procure servers and equipment to facilitate the transition of sustainment activities from a contractor facility to a government facility, as well as an additional COOP site. IEW&S requires a dedicated environment to maintain two (2) ATOs (NSA and GreyRock) associated with GRCS/TSB, EMARSS-S,G,V,M, ARL-E, and TSP SIGINT ground processing to support accreditation at a government facility as mandated by NSA. Without the environment, SEC will not have the capability to sustain the large number of SIGINT sensors and to maintain their ground accreditation. Cyber hardening of the systems will not be able to meet NSA mandates.
4. Tactical Mission Network Hardware Refresh: Restoration of end of life hardware equipment for At-The-Halt (ATH), On-The-Move (OTM), Single Shelter Switch (SSS), Regional Hub Node (RHN), Tactical Network Management System (TNMS), Battlefield Video Teleconferencing (BVTC), Enroute Mission Command Capability (EMC), Lab requires infrastructure upgrades, new software, licensing and technologies to better align the support infrastructure against the tactical test requirements; while at the same time future-proofing the environment to be able to take on new tasks and initiatives without impeding development and test events. Heavy focus on shifting to full virtualization / containerization of the dev, test and support environments. This will allow SEC to explore new options in rapid deployment/provisioning, ePatching and test automation with the express goal of maintaining a Security Posture at a level that allows us to regularly achieve full term ATO's (both AMC and Tactical/PEO).
5. Intelligence Support Division Lab (APG & Ft. Huachuca): Purchase equipment for classified file servers, switches, and racks to handle future growth. Equipment necessary to provide a capacity to host virtual machines used within the PPSS software engineering and testing environments. Test Automation: Refresh equipment used to conduct automated software testing within the Post Production Software Support (PPSS) environment.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9442BD3955 / Life Cycle Software Support (LCSS)	Item Number / Title [DODIC]: BD3955 / Life Cycle Software Support (LCSS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	114.622	5.420	2.495	5.182	-	5.182
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	114.622	5.420	2.495	5.182	-	5.182
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	114.622	5.420	2.495	5.182	-	5.182

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
AMES III -4th Gen RF Simulator	1,500.000	1	1.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test bed/COMSEC Facilities Upgrade-JOIN	952.250	4	3.809	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C2SD SIL Lab Test Equipment	400.000	1	0.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WIN-T ATH Test Equipment	978.500	2	1.957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Global Command Control Systems-Army	400.000	1	0.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platform Network Sim Environment	250.000	1	0.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VALFAC Modernization	300.000	1	0.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WSOC System of Systems Labs	5,936.000	1	5.936	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K-STARs SDE - Upgrade w/ added simulator	1,020.000	1	1.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rifleman Radio Test Environment	250.000	1	0.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9442BD3955 / Life Cycle Software Support (LCSS)	Item Number / Title [DODIC]: BD3955 / Life Cycle Software Support (LCSS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
IFS TES Sustainment Environment	9,394.000	1	9.394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prior Year Balancer	-	-	80.764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radio Frequency Simulators	-	-	5.136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Software Engineering Support	-	-	1.992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Software Capabilities Maintenance	-	-	1.514	-	-	5.420	-	-	2.495	-	-	5.182	-	-	-	-	-	5.182
<i>Subtotal: Recurring Cost</i>	-	-	114.622	-	-	5.420	-	-	2.495	-	-	5.182	-	-	-	-	-	5.182
<i>Subtotal: Flyaway Cost</i>	-	-	114.622	-	-	5.420	-	-	2.495	-	-	5.182	-	-	-	-	-	5.182
Gross/Weapon System Cost	-	-	114.622	-	-	5.420	-	-	2.495	-	-	5.182	-	-	-	-	-	5.182

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	5.420	2.495	5.182	-	5.182
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	5.420	2.495	5.182	-	5.182

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	349.055	24.448	18.651	31.349	-	31.349	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	349.055	24.448	18.651	31.349	-	31.349	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	349.055	24.448	18.651	31.349	-	31.349	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Network Management Initialization and Services (NMIS) program supports the Army's objectives of an integrated Network Operations capability. There are three components to the program:

Joint Network Management System (JNMS), Project B99318:

This funding line supports the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy. Joint Network Management System (B99318) is not a new start because funding transitioned from another line, Network Management Systems (NMS) (BA9301/BA9312), without a skip year of funding. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

The JNMS project supports training and logistics activities critically tied to Joint Enterprise Network Manager (JENM) planning applications and radio planner prototyping efforts, which provide Lower Tier Network planning, configuration, monitoring and troubleshooting and other Army Capability Manager (ACM) approved applications supporting Cross Functional Teams (CFT) and Integrated Tactical Network (ITN) Units and their emerging requirements. JNMS funding will provide critical support to meet Army timelines for Brigade Combat Teams (BCTs), U.S. Army support elements, ITN experimental units, and Security Forces Assistance Brigades (SFABs).

Network Management Systems (NMS), Project BA9312:

This funding line supports the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

NMS provides systems engineering support, integration, and Ruggedized Applications Platform -Tactical Radios (RAP-TR) hardware, a commercial Off-the-Shelf (COTS) component, to meet Tactical Network Operations requirements for the lower tactical internet tactical radios supporting the ITN Abbreviated - Capability Development Document (A-CDD) and the Handheld, Manpack, Small Form Factor (HMS) modernization efforts.

NMS efforts procure hardware that allow the Army to field software based, integrated Network Operations (NetOps) capabilities prototyped using an approved Section 804 Mid-Tier Acquisition (MTA) Rapid Prototyping approach. NMS underpins the Army's development operations (DevOps) for Unified NetOps (UNO) - creating NetOps prototypes, gaining user feedback via Pilot exercises, making adjustments and ultimately delivering enhanced capabilities to the operational force in the shortest time possible in support of the Army's Network Modernization Plan. RAP-TR HW piloting events and fieldings will deliver an

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems		P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

integrated NetOps capability, based upon an open framework, aggregating data, which enables common planning, configuration, management, monitoring, and defense of the Network. This will be accomplished through the integration, co-hosting, and federation of multiple NetOps systems from the hand held devices to the Enterprise.

Data Products, Project BA9315:
The Data Products funding line supports all of the Army's Network Modernization Strategy Lines of Effort 1 Unified Network, 2 Common Operating Environment, 3 Interoperability, and 4 Command Posts. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy. Data Products are a critical component in enabling a converged Mission Command Network that operates seamlessly worldwide in any environment. Data Products enable end-to-end network centric connectivity and interoperability across The Mission Command Network by enforcing and implementing standards-based technologies and providing the machine level instruction required by digital systems to communicate with each other. Data Products allow the integration of disparate networks/systems capabilities across multiple domains and environments. Data Products enable the network to provide resiliency through path diversity and dynamic routing to ensure tactical units can communicate in hostile environments. Data Products are a collection of information/data required to plan and initialize the current set of Mission Command Network capabilities such as Joint Battle Command - Platform (JBC-P), Command Post Computing Environment (CPCE), Nett Warrior (Ground Soldier System), Distributed Common Ground System (DCGS), Air and Missile Defense Workstation (AMDWS), Tactical Unmanned Aircraft System (TUAS), PEO Aviation, and other Army Mission Command Systems. Information/Data includes: JBC-P database, Combatant Command (COCOM) databases, and Active Directory initialization files (e.g., Lightweight Directory Interchange Format (LDIFs)), etc. AAO is N/A.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.448	18.651	31.033	-	31.033	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.216	-	0.216	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.100	-	0.100	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.448	18.651	31.349	-	31.349	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B99318 / Joint Network Management System				- / -	- / -	- / 3.904	- / 0.930	- / -	- / 0.930
P-5	BA9312 / NETWORK MANAGEMENT SYSTEM				- / 48.730	- / 13.534	- / 5.230	- / 21.625	- / -	- / 21.625
P-5	BA9315 / DATA PRODUCTS				- / 300.325	- / 10.914	- / 9.517	- / 8.794	- / -	- / 8.794
P-40	Total Gross/Weapon System Cost				- / 349.055	- / 24.448	- / 18.651	- / 31.349	- / -	- / 31.349

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Joint Network Management Systems (JNMS), Project B99318:
 FY 2022 Base dollars in the amount of \$0.930 million provides support for Field Support Engineering (FSE) personnel to support Soldiers' ability to plan, configure, monitor, manage, and sustain the radio network. JNMS utilizes Tobyhanna Army Depot (TYAD) stock support to ensure the laptops and tablets are maintained and distributed to the end users. JNMS will utilize Network Management Reference Implementation Laboratory (NM RIL) for help desk support, maintenance, and engineering change management.

Network Management Systems (NMS), Project BA9312:
 FY 2022 Base dollars of \$21.625 million to support Ruggedized Applications Platform -Tactical Radios (RAP-TR) fielding efforts targeting systems engineering support, integration, and RAP-TR hardware, a commercial Off-the-Shelf (COTS) component, to meet Tactical Network Operations requirements for the lower tactical internet tactical radios. All current NMS efforts are in support of fielding a software based, integrated NetOps capability being created under the UNO's Section 804, mid-tier acquisition (MTA) authority granted by the Army Acquisition Executive (AAE)'s 14 May 2019 Acquisition Decision Memorandum (ADM). NMS supports the Army's development operations (DevOps) approach to UNO - creating NetOps prototypes, gaining user feedback via Pilot exercises, making adjustments and ultimately delivering enhanced capabilities to the operational force in the shortest time allowable.

Cost drivers resulting in FY21 to FY22 increases are aligned to COTS RAP-TR HW platform procurement requirements in support of ITN units and HMS modernization efforts, licenses to support fielded SW applications, and systems engineering and program management in support of Army's RAP-TR fielding requirements.

Data Products, Project BA9315:
 FY 2022 Base dollars in the amount of \$8.794 million provides government support services, and contractor support services to execute the duties required to create Data Products in support of the entire Mission Command Network, across multiple software versions, to include current baselines, baselines in sustainment, and emerging or future baselines. Data Products are a vital enabling element to achieve multiple objectives across several Lines of Effort within the Mission Command Network Modernization Implementation Plan. Data Products are created in accordance with HQ DA G3/5/7 priorities, stakeholder requirements, and other top Army priorities for deployment, training, and reset. In addition, these dollars also provide the fielding, training, and support of the Initialization Tool Suite (ITS) which includes Warfighter Initialization Tool - Server (WIT-S), and Warfighter Initialization Tool - Manager (WIT-M). This ITS capability allows Soldiers the necessary flexibility to customize the Data Product to meet Commander's intent or mission requirements. Static Data Products are still necessary due to the requirements of the legacy systems that consume this data. Historical trends show growth in data product requirements, complexity, and quantity as the Mission Command Network continues to evolve. Data Products are an essential part in achieving interoperability across multiple domains, environments, disparate networks/systems capabilities, enabling tactical digital messaging such as Variable Messaging Format (VMF), enabling and informing the Common Operational Picture (COP) and other automated Command and Control (C2) functions.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: B99318 / Joint Network Management System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	3.904	0.930	-	0.930
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	3.904	0.930	-	0.930
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	3.904	0.930	-	0.930

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Training Cost																		
Services	-	-	-	-	-	-	-	-	3.904	-	-	0.930	-	-	-	-	-	0.930
Subtotal: Support - Training Cost	-	-	-	-	-	-	-	-	3.904	-	-	0.930	-	-	-	-	-	0.930
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	3.904	-	-	0.930	-	-	-	-	-	0.930

Remarks:

Field Support Engineering (FSE) personnel provide support for the Soldiers' ability to plan, configure, monitor, manage, and sustain the JENM radio network.

Joint Network Management System (B99318) is not a new start because funding transitioned from another line, Network Management Systems (NMS) (BA9301/BA9312), without a skip year of funding.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	3.904	0.930	-	0.930
Total:					
Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	-	3.904	0.930	-	0.930

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Exhibit P-5, Cost Analysis: PB 2022 Army											Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89					P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services						Item Number / Title [DODIC]: BA9312 / NETWORK MANAGEMENT SYSTEM						
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Procurement Quantity (Units in Each)				-		-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				48.730		13.534		5.230		21.625		-		21.625			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				48.730		13.534		5.230		21.625		-		21.625			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				48.730		13.534		5.230		21.625		-		21.625			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		39.606		-		39.606			

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Program Management	-	-	25.628	-	-	3.050	-	-	0.415	-	-	2.204	-	-	-	-	-	2.204
Systems Engineering	-	-	18.839	-	-	7.235	-	-	3.628	-	-	6.046	-	-	-	-	-	6.046
Integration & Testing	-	-	3.000	-	-	1.230	-	-	1.187	-	-	1.151	-	-	-	-	-	1.151
<i>Subtotal: Recurring Cost</i>	-	-	<i>47.467</i>	-	-	<i>11.515</i>	-	-	<i>5.230</i>	-	-	<i>9.401</i>	-	-	-	-	-	<i>9.401</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>47.467</i>	-	-	<i>11.515</i>	-	-	<i>5.230</i>	-	-	<i>9.401</i>	-	-	-	-	-	<i>9.401</i>
Hardware Cost																		
Recurring Cost																		
Ruggedized Application Platform ? Tactical Radios (RAP-TR) Laptop	5.689	222	1.263	4.588	102	0.468	-	-	-	-	-	-	-	-	-	-	-	-
Ruggedized Application Platform ? Tactical Radios (RAP-TR) Laptop Cases	-	-	-	0.225	102	0.023	-	-	-	-	-	-	-	-	-	-	-	-
Ruggedized Application Platform ? Tactical Radios (RAP-TR) Tablet	-	-	-	4.841	283	1.370	-	-	-	4.987	546	2.723	-	-	-	4.987	546	2.723
Ruggedized Application Platform ? Tactical Radios (RAP-TR) Tablet Cases	-	-	-	0.300	283	0.085	-	-	-	0.247	546	0.135	-	-	-	0.247	546	0.135

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9312 / NETWORK MANAGEMENT SYSTEM

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
TYAD	-	-	-	-	-	0.073	-	-	-	-	-	0.113	-	-	-	-	-	0.113
<i>Subtotal: Recurring Cost</i>	-	-	1.263	-	-	2.019	-	-	-	-	-	2.971	-	-	-	-	-	2.971
<i>Subtotal: Hardware Cost</i>	-	-	1.263	-	-	2.019	-	-	-	-	-	2.971	-	-	-	-	-	2.971
Software Cost																		
Recurring Cost																		
Licensing	-	-	-	-	-	-	-	-	-	-	-	5.722	-	-	-	-	-	5.722
PDSS	-	-	-	-	-	-	-	-	-	-	-	1.091	-	-	-	-	-	1.091
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.813	-	-	-	-	-	6.813
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.813	-	-	-	-	-	6.813
Logistics Cost																		
Recurring Cost																		
Log/Training	-	-	-	-	-	-	-	-	-	-	-	2.440	-	-	-	-	-	2.440
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.440	-	-	-	-	-	2.440
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.440	-	-	-	-	-	2.440
Gross/Weapon System Cost	-	-	48.730	-	-	13.534	-	-	5.230	39.606	-	21.625	-	-	-	39.606	-	21.625

Remarks:

1) The main drivers for the cost increase in FY22 are the procurement of additional software licenses and Commercial-off-the-shelf (COTS) hardware necessary to support fielding of Ruggedized Application Platform - Tactical Radios (RAP-TR) in FY22.

2) Quantity procurement in FY22 is supporting increase in Integrated Tactical Network (ITN) units and Handheld, Manpack, Small Form Factor (HMS) modernization efforts. COTS hardware procurement of the RAP-TR, comprised of a tablet, is required to support lower tactical internet tactical radios supported by the ITN Abbreviated - Capability Development Document (A-CDD) and the HMS modernization efforts.

3) Increase in systems engineering and program management from FY21 to FY22 is in support of RAP-TR fielding requirements.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	13.534	5.230	21.309	-	21.309
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.216	-	0.216
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.100	-	0.100
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army				Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services		Item Number / Title [DODIC]: BA9312 / NETWORK MANAGEMENT SYSTEM		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	13.534	5.230	21.625	-	21.625

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9315 / DATA PRODUCTS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	300.325	10.914	9.517	8.794	-	8.794
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	300.325	10.914	9.517	8.794	-	8.794
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	300.325	10.914	9.517	8.794	-	8.794

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Recurring Production	-	-	203.240	-	-	7.749	-	-	8.058	-	-	7.446	-	-	-	-	-	7.446
Test	-	-	14.647	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMO	-	-	58.735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	22.437	-	-	2.401	-	-	0.777	-	-	0.718	-	-	-	-	-	0.718
<i>Subtotal: Recurring Cost</i>	-	-	<i>299.059</i>	-	-	<i>10.150</i>	-	-	<i>8.835</i>	-	-	<i>8.164</i>	-	-	-	-	-	<i>8.164</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>299.059</i>	-	-	<i>10.150</i>	-	-	<i>8.835</i>	-	-	<i>8.164</i>	-	-	-	-	-	<i>8.164</i>
Support - System Engineering Cost																		
System Engineering	-	-	1.266	-	-	0.764	-	-	0.682	-	-	0.630	-	-	-	-	-	0.630
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>1.266</i>	-	-	<i>0.764</i>	-	-	<i>0.682</i>	-	-	<i>0.630</i>	-	-	-	-	-	<i>0.630</i>
Gross/Weapon System Cost	-	-	300.325	-	-	10.914	-	-	9.517	-	-	8.794	-	-	-	-	-	8.794

Remarks:

The cost element changes are due to reduction in the number of trainers as a result of migration to an online platform for ITS training and reallocation of those funds to the production of additional data products.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	10.914	9.517	8.794	-	8.794

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9315 / DATA PRODUCTS

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	10.914	9.517	8.794	-	8.794

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9742BA9320 / Maneuver Control System (MCS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0203740A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	7,995	13	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,815.686	0.260	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,815.686	0.260	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,815.686	0.260	-	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	227.103	20.000	-	-	-	-	-	-	-	-	-	-

Description:

Tactical Mission Command is a portfolio of products and services that enable commanders and their staff with collaborative environment, planning tools, and Common Operation Picture (COP) management and other maneuver and logistics functional tools. The overarching capability includes above platform level user-defined COP with integrated Command and Control (C2) and Situational Awareness (SA), map-centric collaboration, Army Mission Command System and other enabling system interoperability, data management and enterprise services. The revised Army Acquisition Objective is 20,579.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	13	-	-	-	-	-	-	-	-
Total Obligation Authority	0.260	-	-	-	-	-	-	-	-
Total:	13	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.260	-	-	-	-	-	-	-

Justification:

BA9320 has no funding request in FY22.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.862	8.815	2.792	11.271	-	11.271	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	61.862	8.815	2.792	11.271	-	11.271	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.862	8.815	2.792	11.271	-	11.271	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

GCSS-Army Increment 1 gives combat forces a decisive edge by providing soldiers a seamless flow of timely, accurate, accessible, and secure logistics information to get combat power at the right place, at the right time. The GCSS-Army program is an information and communications technology investment that provides key enabling support to the transformation of the Army into a network-centric, knowledge-based future force. The GCSS-Army approved Capability Description Document (CDD) and Capability Production Document (CPD) require an enterprise approach to replace current logistics and maintenance Standard Army Management Information Systems (STAMIS) to include supply, maintenance, ammunition, aviation, and property book. GCSS-Army implements best business practices to streamline supply, accountability, maintenance, distribution, and reporting procedures in support of the future force transition path of The Army Campaign Plan.

GCSS-Army Increment 2 consists of three waves: Wave 1- Enterprise Aviation (EAVN); Wave 2- Business Intelligence/Business Warehouse (BI/BW); Wave 3- Army Prepositioned Stocks (APS). Increment 2 builds on the current foundation by providing auditable EAVN maintenance, enhanced BI/BW, and APS functional capabilities which will directly impact the speed at which a deploying unit can draw combat equipment. Waves 1 and 2 will deliver greater efficiencies to Aviation Logistics warfighters and improved information flow and accuracy in real time to decision makers, helping them make better decisions faster on the battlefield. Wave 3 will sunset the Army War Reserve Deployment System (AWRDS) legacy system.

Wave 1 Enterprise Aviation will deploy and field 3 of the 5 Enterprise Aviation Release 2 Capability Drops during FY22. Capability Drop 2.3 (Tech Supply Integration) will begin fielding to all Army Aviation units across all 3 composites in Q3FY22. This fielding effort will require boots on the ground training for the 180 units affected by this capability enhancement. This fielding effort will continue into FY23. Release Capability Drop 2.4 will also deploy Q3FY22, but will only require online training for personnel. Release 2 Capability Drop 2.5 will initiate fielding efforts Q4FY22. Similar to Capability Drop 2.3, this effort will require boots on the ground training for the 180 Army Aviation units affected by this capability enhancement. This fielding effort will continue through FY23.

Wave 3 Army Pre-Positioned Stocks will initiate fielding the APS solution at the beginning of Q2FY21. The fielding effort will continue through FY21 and the team will complete fielding the APS solution at the end of Q1FY22.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.815	2.792	11.271	-	11.271	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	8.815	2.792	11.271	-	11.271	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	W11001 / AESIP Increment 1	P-5a			- / 57.995	- / 1.974	- / 1.998	- / 2.556	- / -	- / 2.556
P-5	W11011 / GCSS-Army Increment 2	P-5a			- / 3.867	- / 6.841	- / 0.794	- / 8.715	- / -	- / 8.715
P-40	Total Gross/Weapon System Cost				- / 61.862	- / 8.815	- / 2.792	- / 11.271	- / -	- / 11.271

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY2022 Base Procurement dollars in the amount of \$11.271 million will be used as follows:

\$2.556 million supports AESIP and will be used to purchase software products required for new data management initiatives and data analysis.
 \$8.715 million supports GCSS-ARMY INC2 and will be used for deployment/fielding of Release 2, Wave 1 EAVN (\$8.146M) and Wave 3 APS (\$0.604M).
 Wave 1 Enterprise Aviation will deploy and field three of the five Enterprise Aviation Release 2 Capability Drops across all three compos during FY22. Capability Drop 2.3 (Tech Supply Integration) will begin fielding to all Army Aviation units in Q3FY22. This fielding effort will require boots on the ground training for the 180 units affected by this capability enhancement. FY22 OPA funds will be used to staff the training and fielding teams, develop training materials, and cover the deployment/travel costs for fielding of the capability across the globe. This fielding effort will continue into FY23. Release Capability Drop 2.4 will also deploy Q3FY22, but will only require online training for personnel. OPA funds will be used to develop online training tools and incorporate into the online training website GCSS-Army utilizes.
 Release 2 Capability Drop 2.5 will initiate fielding efforts Q4FY22. Similar to Capability Drop 2.3, this effort will require boots on the ground training for the 180 Army Aviation units affected by this capability enhancement. OPA funds will be used to augment staffing of the existing training and fielding teams, develop training materials, and cover the deployment/travel costs for fielding of the capability across the globe. As much as possible the Program Office will eliminate duplication of concurrent fielding efforts between Capability Drops 2.3 and 2.5 (i.e. attempt to field both 2.3 and 2.5 enhancements to units one time rather than multiple visits for each enhancement). This fielding effort will continue through FY23.
 In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

W00800 (Increment 1) has no FY2022 funding request.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W11001 / AESIP Increment 1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	57.995	1.974	1.998	2.556	-	2.556
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	57.995	1.974	1.998	2.556	-	2.556
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	57.995	1.974	1.998	2.556	-	2.556

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
AESIP Hardware & Software ^(t)	14,498.750	4	57.995	1,974.000	1	1.974	1,998.000	1	1.998	2,556.000	1	2.556	-	-	-	2,556.000	1	2.556
<i>Subtotal: Recurring Cost</i>	-	-	57.995	-	-	1.974	-	-	1.998	-	-	2.556	-	-	-	-	-	2.556
<i>Subtotal: Flyaway Cost</i>	-	-	57.995	-	-	1.974	-	-	1.998	-	-	2.556	-	-	-	-	-	2.556
Gross/Weapon System Cost	-	-	57.995	-	-	1.974	-	-	1.998	-	-	2.556	-	-	-	-	-	2.556

Remarks:

FY 2022 OPA funding in the amount of \$2.556 million will be used for new software products. No hardware will be purchased.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	-	-	-	-	-
Total Obligation Authority	1.974	1.998	2.556	-	2.556
Total: Secondary Distribution	-	-	-	-	-
Total Obligation Authority	1.974	1.998	2.556	-	2.556

^(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89				P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)				Item Number / Title [DODIC]: W11001 / AESIP Increment 1				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AESIP Hardware & Software		2015	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Dec 2014	Jan 2015	0	1,076.000	Y		
AESIP Hardware & Software		2016	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Jan 2016	Feb 2016	1	3,392.000	Y		
AESIP Hardware & Software		2017	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	May 2017	Jun 2017	1	405.000	Y		
AESIP Hardware & Software		2018	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	May 2018	Jun 2018	1	2,697.000	N		
AESIP Hardware & Software		2019	Multiple Hardware/Software / Various	C / FP	ACCRI Rock Island Arsenal IL	May 2019	Jun 2019	1	1,238.000	N		
AESIP Hardware & Software		2020	Multiple Hardware/Software / Various	C / FP	ACCRI Rock Island Arsenal IL	Jan 2020	Feb 2020	1	1,974.000	N		
AESIP Hardware & Software		2022	Multiple Hardware/Software / Various	C / FP	ACCRI Rock Island IL	Jan 2022	Feb 2022	1	2,556.000	N		

Remarks:
FY22 OPA funding in the amount of \$2.556 million will be used for new software products:

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W11011 / GCSS-Army Increment 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3.867	6.841	0.794	8.715	-	8.715
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3.867	6.841	0.794	8.715	-	8.715
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3.867	6.841	0.794	8.715	-	8.715

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Non Recurring Cost																		
SAP Licenses and Hardware ^(†)	3,867.000	1	3.867	-	-	-	794.000	1	0.794	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	3.867	-	-	-	-	-	0.794	-	-	-	-	-	-	-	-	-
Subtotal: Software Cost	-	-	3.867	-	-	-	-	-	0.794	-	-	-	-	-	-	-	-	-
Logistics Cost																		
Non Recurring Cost																		
Deployment/New Equipment Training ^(†)	-	-	-	-	-	6.841	-	-	-	8,715.000	1	8.715	-	-	-	8,715.000	1	8.715
Subtotal: Non Recurring Cost	-	-	-	-	-	6.841	-	-	-	-	-	8.715	-	-	-	-	-	8.715
Subtotal: Logistics Cost	-	-	-	-	-	6.841	-	-	-	-	-	8.715	-	-	-	-	-	8.715
Gross/Weapon System Cost	-	-	3.867	-	-	6.841	-	-	0.794	-	-	8.715	-	-	-	-	-	8.715

Remarks:

FY22 OPA funding in the amount of \$8.715 million will be used for new equipment training/deployment/fielding.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W11011 / GCSS-Army Increment 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	6.841	0.794	8.715	-	8.715
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	6.841	0.794	8.715	-	8.715

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)				Item Number / Title [DODIC]: W11011 / GCSS-Army Increment 2					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SAP Licenses and Hardware		2018	TBD / TBD	Various	TBD	Jan 2018	Mar 2018	1	3,867.000	N	Apr 2018	Oct 2017
SAP Licenses and Hardware		2019	TBD / TBD	TBD	TBD	Jan 2019	Mar 2019	0	0.000	N		
Deployment/New Equipment Training		2022	TBD / TBD	Option / IDIQ	Huntsville AL	Jan 2022	Feb 2022	1	8,715.000	N		

Remarks:
FY22 OPA funding in the amount of \$8.715 million will be used for new equipment training/fielding/deployment.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605018A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	58.596	14.100	9.071	16.077	-	16.077	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	58.596	14.100	9.071	16.077	-	16.077	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	58.596	14.100	9.071	16.077	-	16.077	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Integrated Personnel and Pay System-Army Increment II (Project ED9), formerly designated as an Acquisition Category IA Major Automated Information System program under the authority of the Department of Defense Instruction (DODI) 5000.02, transitioned under the acquisition authority of DODI 5000.75 to a Business System Category I program as a result of the Release 2 Limited Deployment Acquisition Decision Memorandum signed 3 May 2019.

The Integrated Personnel and Pay System-Army Increment II (IPPS-A Inc II) provides an integrated, multi-Component, personnel and pay system that streamlines existing Human Resources (HR) systems and processes by enhancing efficiency and accuracy of personnel and pay procedures in support of 1.1 million Soldiers and their families. The Army will deploy IPPS-A Inc II to all Components in three software releases. In March 2020, the Army completed deployment of Release 2 to all Army National Guard (ARNG) units in the 54 states and territories. Release 2 replaced the ARNG's Standard Installation/Division Personnel System and consolidated many disparate state/territory systems into one. Release 3 will provide accountability and essential personnel services to all three Army Components when deployed in December 2021. Release 4 will provide a fully-integrated personnel and pay system to all three Army Components and is planned for deployment to the Total Force no later than May 2025. IPPS-A Inc II will subsume approximately 52 legacy systems (full and partial) across the Active, ARNG, and Reserve Components into a single, integrated system. IPPS-A Inc II is a web-based tool, available 24-hours a day, accessible to HR professionals, Combatant Commanders, pay managers, and other authorized users throughout the Army. IPPS-A Inc II addresses major deficiencies in the execution of military personnel and pay services by providing the necessary internal control and audit procedures, as well as preventing erroneous payments and loss of funds. This program is an essential building block to reform the Department of the Army towards achieving greater performance and affordability in support of the National Defense Strategy and the Congressional audit mandate.

IPPS-A Inc II is the number one HR modernization effort in the Army and will deliver fully integrated personnel and pay services for all Army Components building on the trusted database delivered by IPPS-A Inc I. The program is a critical enabler for The Army People Strategy and its transition to a Talent Management System and an HR data-rich environment. IPPS-A Inc II will link the personnel and pay functions for all Army personnel, eliminating duplicate data entry, reducing complex system maintenance, and minimizing pay discrepancies. IPPS-A Inc II will account for status changes between Active, National Guard, and Reserve Components to ensure accurate credit for service and individual pay and will enable disciplined human resource management.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.100	9.071	16.077	-	16.077	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: 0605018A			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	14.100	9.071	16.077	-	16.077	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605018A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B66706 / IPPS-A INC 2	P-5a			- / 58.596	- / 14.100	- / 9.071	- / 16.077	- / -	- / 16.077
P-40	Total Gross/Weapon System Cost				- / 58.596	- / 14.100	- / 9.071	- / 16.077	- / -	- / 16.077

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Fiscal Year 2022 (FY22) Base procurement dollars of \$16.077 million supports the completion of Release 3 pre-deployment training to enable the program's execution of a "big-bang" deployment strategy in 1QFY22. The "big-bang" execution in FY22 builds on the training and deployment preparation made in FY21. In 1QFY22 the program will complete Instructor-Led Training for 48,700 Human Resource Transactional Users and Distance Learning and Computer-Based Training for 1.1 million Soldiers in all 54 states and territories in support of all Army Commands, Army Service Component Commands, Direct Reporting Units, Combatant Commands, Corps and Divisions for Active and Reserve personnel stationed in the Continental United States (CONUS) and Outside CONUS. Training products were developed using the Oracle Usability Productivity Kit, which includes instructor manuals, lessons plans, an Electronic Performance Support System and job aids. Following the "big-bang" deployment of Release 3 at the end of 1QFY22, many significant post-deployment activities will occur through the end of FY22 including on-site data verification, workflow verification, and "over-the-shoulder" support to a large number of Active, National Guard, and Reserve organizations.

In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the Active and Reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	Item Number / Title [DODIC]: B66706 / IPPS-A INC 2

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				58.596	14.100	9.071	16.077	-	16.077
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				58.596	14.100	9.071	16.077	-	16.077
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				58.596	14.100	9.071	16.077	-	16.077
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Non Recurring Cost																		
Software Non-Recurring	12,933.000	1	12.933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	12.933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	12.933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Non Recurring Cost																		
System Infrastructure Hardware	4,037.000	1	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package Fielding Cost																		
Recurring Cost																		
New Equipment Training ^(†)	10,406.500	4	41.626	14,100.000	1	14.100	9,071.000	1	9.071	16,077.000	1	16.077	-	-	-	16,077.000	1	16.077
<i>Subtotal: Recurring Cost</i>	-	-	41.626	-	-	14.100	-	-	9.071	-	-	16.077	-	-	-	-	-	16.077
Subtotal: Package Fielding Cost	-	-	41.626	-	-	14.100	-	-	9.071	-	-	16.077	-	-	-	-	-	16.077
Gross/Weapon System Cost	-	-	58.596	-	-	14.100	-	-	9.071	-	-	16.077	-	-	-	-	-	16.077

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	Item Number / Title [DODIC]: B66706 / IPPS-A INC 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	14.100	9.071	16.077	-	16.077
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	14.100	9.071	16.077	-	16.077

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	Item Number / Title [DODIC]: B66706 / IPPS-A INC 2
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
New Equipment Training		2016	VAR / VAR	Option / CPIF	ACC-NJ	Sep 2016	Aug 2017	1	4,446.000	Y		
New Equipment Training		2017	VAR / VAR	Option / CPIF	ACC-NJ	Sep 2017	Jun 2018	1	4,214.000	Y		
New Equipment Training		2018	VAR / VAR	Option / CPIF	ACC-NJ	Aug 2018	Aug 2018	1	16,140.000	Y		
New Equipment Training		2019	VAR / VAR	Option / CPIF	ACC-NJ	Dec 2018	Aug 2019	1	16,800.000	Y		
New Equipment Training		2020	VAR / VAR	Option / CPIF	ACC-NJ	Jan 2020	Mar 2020	1	14,100.000	Y		
New Equipment Training		2021	VAR / VAR	Option / CPFF	ACC-NJ	Jan 2021	Jul 2021	1	9,071.000	Y		
New Equipment Training		2022	VAR / VAR	Option / CPFF	ACC-NJ	Nov 2021	May 2022	1	16,077.000	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9966BZ9966 / Reconnaissance and Surveying Instrument Set
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	390	80	152	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	135.882	11.000	12.117	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	135.882	11.000	12.117	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	135.882	11.000	12.117	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	348.415	137.500	79.717	-	-	-	-	-	-	-	-	-

Description:

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) is a Digital technical stand off engineering and data collection tool set designed to perform reconnaissance, obstacle reporting, construction management, and surveying using precision measuring devices in conjunction with a tablet computer that contains user friendly Geographic Information System (GIS) to auto populate Road, Bridge, Minefield, and UXO report forms. It allows greater accuracy and precision of measurements and faster, automatic information collection and less error-prone dissemination. ENFIRE is Common Joint Mapping Tool Kit (CJMTC) compatible for geospatial interoperability and allows data collection from a distance, minimizing exposure to enemy observation; greatly improving safety to soldiers. ENFIRE kits are comprised of Hardware and Software that are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, ford, tunnel and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the Battalion, Company, Platoon, and Squad levels as a means to facilitate rapid collection and dissemination of information to commanders in the field. Information may be disseminated via the Battle Command Common Services to other ENFIRE sets and to other Mission Command (MC) and Intelligence systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon with plans to incorporate research and development efforts that have application across Military and General Engineering disciplines.

The long distance laser range finder allows soldiers to quickly and accurately determine a target's bearing and distance from the users' location at a significant standoff range. Used in conjunction with the Defense Advanced Global Positioning System Receiver and ESRI Runtime software, ENFIRE users are able to create overlays of bridges, roads, hasty minefields, and IEDs on digital maps as they collect information related to these targets. Using the video camcorder and digital scanner, ENFIRE users can also collect picture and scanned image files that can be associated with bridge, road, hasty minefield and IED information for reporting purposes. Reports can be generated in hard or soft copy for rapid dissemination.

The ENFIRE Army Acquisition Objective (AAO) is 2,883.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					P-1 Line Item Number / Title: 9966BZ9966 / Reconnaissance and Surveying Instrument Set					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	15	67	-	-	-	-	-	-	-
	Total Obligation Authority	5.807	5.327	-	-	-	-	-	-	-
ANG	Quantity	45	40	-	-	-	-	-	-	-
	Total Obligation Authority	3.595	3.195	-	-	-	-	-	-	-
AR	Quantity	20	45	-	-	-	-	-	-	-
	Total Obligation Authority	1.598	3.595	-	-	-	-	-	-	-
Total:	Quantity	80	152	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	11.000	12.117	-	-	-	-	-	-	-

Justification:

BZ9966 has no FY2022 funding request.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9971B99901 / MOD of In-Svc Equipment (ENFIRE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	434	350	154	55	-	55	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.047	15.317	14.004	3.160	-	3.160	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.047	15.317	14.004	3.160	-	3.160	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.047	15.317	14.004	3.160	-	3.160	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	11.629	43.763	90.935	57.455	-	57.455	-	-	-	-	-	-

Description:

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Funds are used to modernize the following core Engineer capabilities to support Homeland defense missions, domestic emergency responses, and providing military support to civil authorities:

INSTRUMENT SET RECONNAISSANCE AND SURVEY (Common name ENFIRE): ENFIRE executes reconnaissance, route clearance, obstacle reporting, construction management, survey support, terrain analysis and management. Commercial Off The Shelf (COTS) capabilities are leveraged to capture, process and disseminate data through SIPR / NIPR Blue Force Tracker 2 (BFT2) Transceiver, Harris and other Tactical Radios that are organic to gaining units. ENFIRE is interoperable with Army Mission Command and USMC C2PC. This capability supports soldier Lethality by assessment of Environmental, Terrain and Infrastructure features. ENFIRE delivers reconnaissance and engineering capabilities that are accurate, interoperable and flexible. Tasks previously accomplished using analog methods have been automated reducing time on target and most can be conducted from a discrete stand-off position. The COTS baseline supports rapid modernization by adoption and integration.

GLOBAL POSITIONING SYSTEM - SURVEY (GPS-S): GPSS is a survey system capable of using military and commercial GPS satellite signals to perform precise static, kinematic, real-time- kinematic (RTK) surveys for geodetic control, construction, topographic and hydrographic survey. The GPS-S is used for independent navigation, Local Area Differential GPS (LADGPS) and precise point positioning. This capability supports Soldier Lethality by applying sub-meter and centimeter accuracy to targeting, navigation and survey operations. GPS-S provides precise survey and positioning information necessary for construction; precise position navigation and timing; topographic survey, hydrographic survey, construction, and geodetic control.

AUTOMATED INTEGRATED SURVEY INSTRUMENT (AISI): AISI is a COTS electronic transit theodolite integrated with Electronic Distance Measurement (EDM) used to measure both vertical & horizontal angles and slope distance from the instrument to a physical, targeted point. The system requires direct line of sight between any two points to establish relative coordinates using trigonometry and triangulation. The data collected is used for the creation of topographic maps and control points of an area of interest. This capability supports Soldier Lethality by adding higher accuracy terrain data that can be exploited for targeting, construction, and design operations. AISI provides the Army Surveyor the capability to determine horizontal and vertical position to a high degree of precision and accuracy in areas where GPS is not available or is operationally constrained.

ENFIRE Army Acquisition Objective (AAO) = 2883

GPS-S AAO: 773

AISI AAO: 430

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9971B99901 / MOD of In-Svc Equipment (ENFIRE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

ENFIRE, GPS-S and AISI Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	350	36	55	-	55	-	-	-	-
	Total Obligation Authority	15.317	5.610	3.160	-	3.160	-	-	-	-
ANG	Quantity	-	82	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.789	-	-	-	-	-	-	-
AR	Quantity	-	36	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.605	-	-	-	-	-	-	-
Total:	Quantity	350	154	55	-	55	-	-	-	-
Secondary Distribution	Total Obligation Authority	15.317	14.004	3.160	-	3.160	-	-	-	-

Justification:
 FY 2022 Base procurement dollars in the amount of \$3.160 million will support tech refresh of up to 55 ENFIRE systems. ENFIRE tech refresh kits are comprised of COTS components that replace equipment that has reached the end of its useful life. The technical refresh is critical to modernization, maintaining a strong security posture and interoperability with Army enterprise systems.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	359.029	19.220	19.262	9.833	-	9.833	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	359.029	19.220	19.262	9.833	-	9.833	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	359.029	19.220	19.262	9.833	-	9.833	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Army Training Modernization (ATM) consists of three related efforts to include Army National Guard (ARNG) Distributed Learning Program (DLP), Other Training Modernization, and Distributed Learning System (DLS) to acquire Digital Training Facilities (DTF). DTFs allow rapid delivery of high quality instruction to Army personnel. Infrastructure acquired is based on industry standards and complies with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This assures compatibility with other military services and that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support all Army components.

ATM provides a cost effective solution for training Army personnel. Supported training enhancements will help reduce the current backlog of Military Operational Specialty (MOS) training. Army can significantly increase levels of MOS qualification, enhance readiness, with standardized Army courseware delivered through Distributed Learning (DL) technology. Implementation of these technology enablers reduce resident training requirements and Soldiers spend less time in the training base and more time in units, thereby increasing readiness. ATM delivers standardized training to Active Component (AC) and Reserve Component (RC) Soldiers as well as Department of the Army Civilians (DAC).

The DLP/DLS provide infrastructure for Soldiers to train at or near their assigned station in lieu of resident training at Army schools. DLP and DLS will provide approximately 549 modern distance learning (DL) enabled DTFs and associated supporting infrastructure to augment training at existing resident Army schools. Moreover, DLS has fielded 20 Deployed Digital Training Campus (DDTC) to allow training while units are deployed. Additionally, DLS has fielded 94 Mobile Digital Training Facility's (MDTF) to the United States Army Reserve Command to support Soldiers/unit training at remote locations. This allows Army to both increase the number of Army personnel receiving required training and the amount of training that can be provided to each individual.

DLS provides the information technology for delivery and management of training in support of individual and collective task training. Benefits include increased training effectiveness and efficiency, improved readiness, and increased training for customers. Key customers: Soldiers (Active Duty, Army Reserve National Guard, and United States Army Reserve) and Army Civilians. Key Stakeholders: Army Capability Manager under Combined Arms Center - Training (Functional Proponent Agent), all other Army Commands, Program Executive Officer - Enterprise Information Systems, and Army General Staff. DLS provides capabilities using Commercial-Off-The-Shelf (COTS) solutions: (1) Digital Training Facilities (DTF): electronic classrooms that deliver multimedia courseware for self-paced training or group training events; (2) Mobile Digital Training Facility MDTF) unlike the traditional methods of training, the MDTF brings the training to the Soldiers at no cost to the unit; (3)Enterprise Management Center (EMC): centralized system management of the DLS information resources; (4) Army Learning Management System (ALMS): a web-based information system for centralizing, standardizing, and optimizing training, training management, and training delivery functions; (5) Deployed Digital Training Campuses (DDTC): electronic transportable classrooms that deliver multimedia courseware for self-paced instruction or group training events in a deployed location; and, (6) Army e-Learning: web-based training products used to acquire and sustain business, information technology or foreign language skills. As a whole, DLS facilitates the Training Mission

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Area mission to teach technical and tactical proficiency, develop military occupational specialty (MOS) skills, develop Leaders, support Army Training Transformation, Sustainable Readiness Model (SRM) and Lifelong Learning, promote self-development, and sustain individual and unit combat skills.

The United States Army Intelligence Center of Excellence (USAICoE) trains Military Intelligence (MI) Soldiers, leaders from all services, the professional civilian Intelligence workforce and mobilized reserve components as a power support platform for the Active Army. Because of Military Intelligence's reliance on Information Technology, information systems are the primary weapons for the Military Intelligence Corps, and a digital infrastructure that comprises the systems, networks, and databases that MI Soldiers and Leaders will use in the Force is required for training. The USAICoE G-6 is chartered with continuously maintaining and improving this vital digital training infrastructure, which encompasses 5 discreet network enclaves, each operating at different levels of classification, 25 training buildings, 4 field sites, 325 digital classrooms, and 3 data centers. The USAICoE G-6 operates and maintains the largest single site installation of Distributed Common Ground System-Army (DCGS-A).

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.220	19.262	9.833	-	9.833	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.220	19.262	9.833	-	9.833	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BE4171 / DISTRIBUTIVE TRAINING TECHNOLOGY				- / 71.997	- / 4.646	- / 4.640	- / 4.586	- / -	- / 4.586
P-5	BE4172 / OTHER TRAINING MODERNIZATION	P-5a			- / 73.400	- / 4.642	- / 4.688	- / -	- / -	- / -
P-5	BE4173 / Distributed Learning System (DLS)	P-5a			- / 213.632	- / 9.932	- / 9.934	- / 5.247	- / -	- / 5.247
P-40	Total Gross/Weapon System Cost				- / 359.029	- / 19.220	- / 19.262	- / 9.833	- / -	- / 9.833

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2022 (BE4171) Base procurement dollars in the amount of \$4.586 million support technical refresh of the ARNG Distributed Learning (DL) Program's 403 ARNG DL Classrooms. The ARNG DL Classrooms provide online capabilities in communities throughout the nation to support the training and readiness of Soldiers and units, assist in the generation of operational forces, and enhance routine and emergency operations for the Army National Guard. Technical refresh includes replacement of student and instructor workstations, audio/video equipment, printers, and network connectivity equipment that are past end-of-life or need upgrading to comply with current cybersecurity standards.

BE4172 has no FY2022 funding request.

FY 2022 (BE4173) Base procurement dollars in the amount of \$5.247 million funds the DLS Enterprise Technology Refreshment (Tech Refresh) program in support of all increments (Digital Training Facilities (DTF), Mobile Digital Training Facility (MDTF) Enterprise Management Center (EMC), Army Learning Management System (ALMS), and Deployed Digital Training Campus (DDTC)). Tech Refresh extends the service life by staying ahead of the obsolescence curve with cost-effective planned technology upgrades, refreshers, and insertions, based on market research and system performance requirements (current and projected). With the advance of information technology, Tech Refresh maintains continued supportability of the DLS Enterprise and avoids disruption of Army Training. Funds will also be used for software and engineering changes required to enhance the ALMS assessment capabilities. This will expand the automated capability for the creation, storage, management, and administration of online testing and course product evaluations, including surveys, to support Army Soldier and civilian training and education.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
		Item Number / Title [DODIC]: BE4171 / DISTRIBUTIVE TRAINING TECHNOLOGY

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	71.997	4.646	4.640	4.586	-	4.586
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	71.997	4.646	4.640	4.586	-	4.586
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	71.997	4.646	4.640	4.586	-	4.586

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Distributive Training Facility Refresh	71,997.000	1	71.997	-	-	4.646	4,640.000	1	4.640	4,586.000	1	4.586	-	-	-	4,586.000	1	4.586
<i>Subtotal: Recurring Cost</i>	-	-	71.997	-	-	4.646	-	-	4.640	-	-	4.586	-	-	-	-	-	4.586
<i>Subtotal: Flyaway Cost</i>	-	-	71.997	-	-	4.646	-	-	4.640	-	-	4.586	-	-	-	-	-	4.586
Gross/Weapon System Cost	-	-	71.997	-	-	4.646	-	-	4.640	-	-	4.586	-	-	-	-	-	4.586

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	4.646	4.640	4.586	-	4.586
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	4.646	4.640	4.586	-	4.586

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization	Item Number / Title [DODIC]: BE4172 / OTHER TRAINING MODERNIZATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	73.400	4.642	4.688	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	73.400	4.642	4.688	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	73.400	4.642	4.688	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Non Recurring Cost																		
NTNF ^(†)	34,509.000	2	69.018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAICoE MI Systems IMT ^(†)	4,382.000	1	4.382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAICoE MI Systems Training ^(†)	-	-	-	4,642.000	1	4.642	-	-	4.688	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	73.400	-	-	4.642	-	-	4.688	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	73.400	-	-	4.642	-	-	4.688	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	73.400	-	-	4.642	-	-	4.688	-	-	-	-	-	-	-	-	-

Remarks:
BE4172 has no FY2022 funding request.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.642	4.688	-	-	-
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization	Item Number / Title [DODIC]: BE4172 / OTHER TRAINING MODERNIZATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	4.642	4.688	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization				Item Number / Title [DODIC]: BE4172 / OTHER TRAINING MODERNIZATION				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
NTNF		2016	GCSS Army Supply System / Fort Leonard Wood	Reqn	Fort Leonard Wood, MO	Sep 2016	Jan 2017	1	38.000	Y		
USAICoE MI Systems IMT		2018	TBS / TBS	C / TBD	Fort Leavenworth, KS	Oct 2017	Jan 2018	1	4,382.000	Y		
USAICoE MI Systems Training		2020	TBS / TBS	C / TBD	Fort Leavenworth, KS	Oct 2019	Jan 2020	1	4,642.000	N		
USAICoE MI Systems Training		2021	TBS / TBS	C / TBD	Fort Leavenworth, KS	Oct 2020	Jan 2021	0	0.000	N		

Remarks:
 In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

 BE4172 has no FY2022 funding request.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
		Item Number / Title [DODIC]: BE4173 / Distributed Learning System (DLS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	213.632	9.932	9.934	5.247	-	5.247
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	213.632	9.932	9.934	5.247	-	5.247
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	213.632	9.932	9.934	5.247	-	5.247

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
System Fielding & Implementation ^(†)	15,980.750	4	63.923	1,618.000	1	1.618	848.000	1	0.848	850.000	1	0.850	-	-	-	850.000	1	0.850
Army Learning Management System ^(†)	9,758.250	4	39.033	6,972.000	1	6.972	1,738.000	1	1.738	1,269.000	1	1.269	-	-	-	1,269.000	1	1.269
Enterprise Technology Refreshment ^(†)	27,669.000	4	110.676	1,342.000	1	1.342	7,348.000	1	7.348	3,128.000	1	3.128	-	-	-	3,128.000	1	3.128
<i>Subtotal: Recurring Cost</i>	-	-	213.632	-	-	9.932	-	-	9.934	-	-	5.247	-	-	-	-	-	5.247
<i>Subtotal: Flyaway Cost</i>	-	-	213.632	-	-	9.932	-	-	9.934	-	-	5.247	-	-	-	-	-	5.247
Gross/Weapon System Cost	-	-	213.632	-	-	9.932	-	-	9.934	-	-	5.247	-	-	-	-	-	5.247

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	9.932	9.934	5.247	-	5.247
Total: Secondary Distribution	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	9.932	9.934	5.247	-	5.247

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization				Item Number / Title [DODIC]: BE4173 / Distributed Learning System (DLS)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
System Fielding & Implementation		2018	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2017	Nov 2017	1	323.000	Y		
System Fielding & Implementation		2019	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2018	Nov 2018	1	1,245.000	Y		
System Fielding & Implementation		2020	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2019	Nov 2019	1	1,618.000	Y		
System Fielding & Implementation		2021	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft. Detrick, MD	Oct 2020	Nov 2020	1	848.000	Y		
System Fielding & Implementation		2022	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft. Detrick, MD	Oct 2021	Nov 2021	1	850.000	N		
Army Learning Management System		2018	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft Eustis, VA	Apr 2018	Apr 2018	1	1,009.000	Y		
Army Learning Management System		2019	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft Eustis, VA	Feb 2019	Apr 2019	1	3,328.000	Y		
Army Learning Management System		2020	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft Eustis, VA	Feb 2020	Apr 2020	1	6,972.000	Y		
Army Learning Management System		2021	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft. Eustis, VA	Feb 2021	Apr 2021	1	1,738.000	Y		
Army Learning Management System		2022	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft Eustis, VA	Aug 2022	Aug 2022	1	1,269.000	N		
EnterpriseTechnology Refreshment		2018	CDW Government LLC / Vernon Hills, IL	C / FFP	MICC, Ft Eustis, VA	May 2018	May 2018	1	1,151.000	Y		
EnterpriseTechnology Refreshment		2019	Integration Technologies / Falls Church, VA	C / FFP	MICC, Ft Eustis, VA	May 2019	May 2019	1	3,068.000	Y		
EnterpriseTechnology Refreshment		2020	Integration Technologies / Falls Church, VA	C / FFP	MICC, Ft Eustis, VA	Apr 2020	Apr 2020	1	1,342.000	Y		
EnterpriseTechnology Refreshment		2021	To Be Determined / TBD	C / FFP	MICC, Ft. Eustis, VA	Apr 2021	Apr 2021	1	7,348.000	N		
EnterpriseTechnology Refreshment		2022	To Be Determined / TBD	C / FFP	MICC, Ft. Eustis, VA	Jan 2022	Feb 2022	1	3,128.000	N		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605013A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	6	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,565.674	179.715	151.187	130.924	-	130.924	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,565.674	179.715	151.187	130.924	-	130.924	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,565.674	179.715	151.187	130.924	-	130.924	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	594,279.000	-	-	-	-	-	-	-	-	-	-	-

Description:

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

All information technology (IT) procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration, site, and geographical location.

The Other Related Program Elements for 0605013A (RDTE), Information Technology Development, pertain only to five specific programs (IPERMS, ATIS, MIRS, SFL-TAP, and AIE), not the entire ADPE budget line.

The Automated Data Processing Equipment (ADPE) program supports the Army's sustaining base automation systems. Each system/program/initiative provides a separate and unique capability that is not funded or supported in another procurement budget line. The Army's primary sustaining base Information Management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. The Army's modernization strategy to support its warfighting forces in the 21st Century leverages and aligns the use of automation technology to consolidate, streamline, and modernize its management information systems to support Command, Control, Communications, Computers (C4) for the Warfighter, power projection strategies, battle space awareness, Army Transformation, and downsized force structures. Modernization plans flow from strategic planning (mission needs) and ensure standardization, interoperability, and systemic replacement of equipment that is obsolete due to technology changes, reliability, and serviceability. The ADPE program provides combat service support to the Warfighter in the areas of command and control, personnel, training, and other sustaining base functions.

OPTICAL DIGITAL EQUIP (BD3956):

INTERACTIVE PERSONNEL ELECTRONIC RECORDS MANAGEMENT SYSTEM (iPERMS): The iPERMS supports the Army's military personnel management mission on a 24 hours a day/7 days a week basis as required by Titles 10 and 44 US Code and DoD Directive 5015.2. The iPERMS is the Records Management Application (RMA) for the Army Military Human Resource Record (AMHRR), also known as the Official Military Personnel File (OMPF). It is used by Army Human Resource Managers and Soldiers throughout the world as the authoritative source for Army personnel documents and is also the repository for Soldier pay-substantiating documents. The documents in iPERMS are critical to the Army's Promotion, Command, and School Selection Board processes for both Enlisted and Officer Soldiers, and Army Audit Readiness. Over 263 million individual AMHRR/OMPF documents in iPERMS support the Active Army, Army Reserve, and Army National Guard personnel functions at all command levels and are available to the individual Soldier via web access. Currently, 9.8 million personnel files are supported by iPERMS and the number of files is expected to increase to approximately 10.6 million by FY2021. The system also supports other activities such as the Department of Veteran Affairs, Department of Labor, and Federal, State, and local Law Enforcement agencies. The iPERMS will interface directly with, but not be

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605013A
Line Item MDAP/MAIS Code: N/A		
<p>subsumed by, the Integrated Personnel and Pay System-Army (IPPS-A). This program is linked to RDTE Program Element 0605013A, Information Technology Development, Project Number FL9, Project Title Army Accessioning IT Development.</p> <p>HQ MANAGEMENT INFORMATION SYSTEMS (BE4161): HEADQUARTERS, DEPARTMENT OF THE ARMY AUTOMATED DATA PROCESSING EQUIPMENT (HQDA ADPE): The HQDA ADPE provides life cycle replacement of Video Teleconferencing environments at the Army agencies in the Pentagon, the National Capital Region, and select remote sites, including both classified and unclassified systems. The robust IP-based VTC environment helps eliminate costly dedicated Integrated Services Digital Network (ISDN) lines and unreliable ISDN-based systems, and significantly reduces local travel and temporary duty travel costs. This program also supports HQDA staff elements with classroom and training equipment required to meet American National Standards Institute (ANSI) and the International Association for Continuing Education and Training (IACET) accreditation standards.</p> <p>STRATEGIC COMMAND CENTERS (SCC): The SCC provides core C4 infrastructure for Joint, Coalition and Interagency C4 capabilities at Army and Army supported command centers. These include US European Command (EUCOM), US Africa Command (AFRICOM), US Forces Korea (USFK), US Joint Special Operations Command (JSOC), US Southern Command (SOUTHCOM), HQDA Army Operations Center (AOC), and the Alternate National Military Command Center (ANMCC)-Site R. Specifically, SCC provides resources for Army supported Combatant Commander (COCOM) C4 infrastructure in support of other IT programs of record (POR) such as the Global Command and Control System (GCCS) Family of Systems (FoS). The SCC provides core C4 infrastructure for Joint and COCOM sites to include system and technical facilities, Protected Distribution Systems, and site preparation for other support equipment such as Video Teleconference (VTC), data, voice, displays, audio-visual equipment, cabling, and lighting. This infrastructure supports COCOM requirements for Command and Control (C2) operations and worldwide Information Assurance and Security Assistance. These sites are designated as key National Military Command System (NMCS) Command Centers and are required to operate 24 hours a day/7 days a week.</p> <p>U.S. FORCES KOREA (USFK) HEADQUARTERS (HQ) COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS AND INFORMATION TECHNOLOGY (C4IT): The USFK HQ C4IT network provides the end user computing and application environments for USFK. It supports users at Yongsan, Camp Humphreys, Camp Walker and other sites on peninsula, with both classified (SIPRNET, CENTRIXS-K) and unclassified (NIPRNET) computing capabilities for US and Allied Forces. Systems and services include information assurance and security to further automate infrastructure scanning and patching to identify security vulnerabilities, take corrective actions, and investigate security incidents. The networks support US and Alliance planning and C4 tools to provide vital support to the theater's battle Command and Control capabilities by projecting and evaluating effects of Theater Operations in order to shape strategy, battle plans, and contingency operations on peninsula. These tools also provide advanced concept technology demonstration as well as communications, computing and intelligence capabilities, tailored to peninsula operational requirements.</p> <p>U.S. ARMY SOUTH (ARSOUTH) HEADQUARTERS LIFE CYCLE REPLACEMENT (LCR): ARSOUTH HQ LCR supports multiple ADPE efforts. The ARSOUTH Video Operations Center is the central control center that is used to manage all command conference rooms and communications with subordinate and higher echelon organizations not located at Fort Sam Houston. This capability allows the command to provide multi-classification to meet the command conferencing activities and to serve as a back-up for SOUTHCOMs VTC center in the event of failures or contingencies. The VOC provides Army South with videoconferencing and data collaboration for the conference rooms as well as video and voice support for the G3 Current Operations and Integration Center (COIC). The Main Conference Room is the primary meeting area for the Commanding General and HQ staff. With geographic dispersal of subordinate commands throughout Central and South America, video teleconferencing is a primary means of operational support for command. It also serves as the principal meeting area for General Officer level VIP visits such as with the SOUTCOM CG and high level representatives from partner nations. The G6 Conference room supports oversight of reporting procedures through the Joint Network Control Center (JNCC) between the various Department of Defense (DOD) entities involved in network operations in the Area of Operation (AO) during contingencies. The JNCC is the command's nerve center for communications status and operational control of deployed assets. All of these facilities are interconnected with equipment that is surpassing its 7-year life cycle and require upgrade from analog to digital systems.</p> <p>MACOM AUTOMATION SYSTEMS (BE4162): ARMY COMPUTING INFRASTRUCTURE (ACI): This program supports the Army's Network Modernization Strategy Line of Effort (LOE) #1 Unified Network. The Army Computing Infrastructure (ACI) resources equipment that provides for Joint Information Environment (JIE)-defined Installation Service Nodes (ISN) and Army Enterprise Data Centers at Army Installations within both CONUS and OCONUS. ACI implements an enterprise approach to Network Operations by delivering the following capabilities: consolidation of disparate Department of Defense Information Network-Army (DoDIN-A) Operations Tools into a single hosted platform with the Global Enterprise Fabric (GEF); security management from the enterprise level with a common view of the entire network with the Base Management System (BMS); modernization of designated Army Enterprise Data Centers (AEDC); and modernization of the Enterprise Protected - Domain Name System (EP-DNS) for NIPR and SIPR. This infrastructure is critical to reduce network latency,</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605013A
Line Item MDAP/MAIS Code: N/A		
<p>defend against cyberattacks, and enable network operators to manage Army communications systems to ensure greater responsiveness and network availability for the Warfighter and civilian workforce during military operations, training, and business operations.</p> <p>BATTLE LAB COLLABORATIVE SIMULATION ENVIRONMENT (BLCSE): BLCSE is an experimentation environment that combines a federation of constructive simulations, mission command systems, infrastructure, collaborative tools, certified common scenarios, and authoritative system performance data operating on a closed, secure, and persistent network. This system of systems supports multi-echelon, integrated experiments conducted between the Army Futures Command (AFC) Battle Labs (Maneuver, Fires, Aviation, Maneuver Support, Intelligence, Sustainment, Mission Command, Medical, Cyber, Space, and Special Operations), Joint service partners, and other agencies. Centralized network services and a tailorable simulation environment provides an enterprise-level capability to immerse Soldiers in the Future Operational Environment and reduce experimentation and battle lab overhead costs and operating costs.</p> <p>ARMY TRAINING INFORMATION ARCHITECTURE (ATIA): The ATIA infrastructure provides the operational environment supporting the Army's learning management systems, the Central Army Registry (CAR), Training Development Capability (TDC), and system interfaces to the Army Training Requirements and Resources System (ATRRS). These systems are the official repository of Army training products and services in accordance with Army Regulation 25-30 and TRADOC Regulation 350-70. The ATIA facilitates mission information infrastructure critical to all Army training development and management. It is used by over 480,000 Active, Guard, and Reserve Soldiers and trainers in residence and is available to deployed Soldiers via distance learning.</p> <p>ACADEMIC NETWORK VIRTUALIZATION (ANV): The Defense Language Institute Foreign Language Center (DLIFLC) academic network provides high-speed access to authentic language materials accelerating language acquisition for DoD linguists. The network provides virtualized desktop capability on mobile computing platforms to improve efficiency and security. The ANV leverages mobile computing technology to improve time on task for the DLIFLC student population. The DLIFLC has directly correlated both the speed of language acquisition and proficiency levels reached by students to the amount of exposure students have to authentic language content. The intent is to recapitalize the investment to ensure the continued functionality of the current mobile technology fleet by delivering virtual desktop capability through the student mobile devices. This will be accomplished through the replacement of end-of-life equipment to provide better virtual learning opportunities to the total force through immersive training events delivered via the web and mobile applications as well as language training detachments.</p> <p>U.S. ARMY CYBER CENTER OF EXCELLENCE VIRTUAL TRAINING AREA NETWORK (CVTAN) (formerly Persistent Training Environment (PTE) Cyber Range): The CVTAN provides global, always-on access for members of the Cyber Mission Force to hone individual skills in their own time on their own terms. It provides a safe, sandboxed environment that prevents inadvertent damage to the Department of Defense Information Network as a result of training and experimentation. The CVTAN also supports official courseware and provides for rapid changes and near-limitless scalability at a dramatically lower cost than traditional contracted Cyber Range's virtualized environments. The CVTAN was developed entirely by uniformed personnel using open-source as well as commercial tools and commodity hardware, which prevents vendor lock-in and maximizes the utility of increasingly limited resources. Instead of requiring a large team of IT personnel to manage, update, and maintain, the CVTAN can be run by a very small, competent team and be grown without practical limit to support new requirements of the Cyber Mission Force at a cost comparable to large public cloud providers.</p> <p>U.S. AFRICA COMMAND (AFRICOM) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The AFRICOM ADPE systems hosted at Kelley Barracks, Grafenwoehr, and Kaiserslautern, Germany, and at Del Din, Italy, provide both classified and unclassified computing and audio-visual capabilities. These capabilities provide unified communications servers integrating voice, teleconferencing, video teleconferencing, collaboration, and messaging services to enhance command and control missions. These systems also reduce the physical footprint of the hardware infrastructure and enable Continuity of Operations Planning (COOP) and data recovery throughout the area of operation.</p> <p>U.S. SOUTHERN COMMAND (SOUTHCOM) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The SOUTHCOM ADPE provides the end user computing services and application environments for SOUTHCOM HQ and users at the United States Army Garrison-Miami (USAG-M) in Doral, Florida, two enduring Joint Task Forces (JTFs) at Guantanamo Bay, Cuba (JTF-GTMO) and Soto Cano AB, Honduras (JTF-Bravo), and 27 Security Cooperation Offices (SCO) collocated with U.S. Embassies throughout the SOUTHCOM Area of Responsibility (AOR). SOUTHCOM ADPE provides both classified and unclassified computing capabilities as well as the hardware to meet Joint Information Environment (JIE) and Data Center Consolidation mandates. These efforts will reduce costs and create efficiencies by streamlining end user equipment with increased mobility and access to virtual desktops anytime, anywhere, and on any device. Increased cyber protection capabilities include scan and patch tools to identify security vulnerabilities, investigate security incidents, and take corrective actions. Other capabilities include unified communications servers to integrate voice, teleconferencing, video teleconferencing, collaboration, and messaging services to enhance mission success throughout the SOUTHCOM AOR. Centralized management and control of physical and virtual servers will reduce costs and the physical footprint of the hardware infrastructure.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605013A
Line Item MDAP/MAIS Code: N/A		
<p>U.S. EUROPEAN COMMAND (EUCOM) JOINT OPERATIONS CENTER (JOC): The EUCOM JOC modernization at Patch Barracks will improve operational network capabilities and system availability/reliability. It will integrate emerging technologies to optimize COCOM coordination, collaboration and interoperability with adjacent and subordinate commands. This effort will implement multi-enclave client back-end infrastructure, integrate additional coalition feeds into the JOC, upgrade back-end processing capabilities, and share C2 capabilities with alternate JOC locations and data resiliency sites in the United Kingdom and in Italy, to support contingency and crisis operations.</p> <p>U.S. EUROPEAN COMMAND (EUCOM) ASSURED MISSION DATA AVAILABILITY (AMDA): The AMDA program establishes and lifecycles non-Enterprise data resiliency nodes for EUCOM critical C2 capabilities in support of EUCOM warfighting functions. These nodes are located south of the Alps and across the English Channel. This program enables network fail-over in support of Command Disaster Recovery and Continuity of Operations activities. It ensures command compliance with NIST SP 800-53, Security and Privacy Controls for Federal Information Systems and Organizations, for establishment and maintenance of resilient and redundant of mission-critical C2 capabilities. This program is a new start for FY2022 in this budget line.</p> <p>U.S. ARMY MEDICAL DEPARTMENT (AMEDD) TELEVISION PRODUCTION TRUCK (TPT) EQUIPMENT: AMEDD TV utilizes a Television Production Truck (TPT) to produce above base line broadcast quality television products in direct support of the Office of the Surgeon General, U.S. Army Medical Command, U.S. Army Medical Center of Excellence, and the US Army Medical Recruiting Brigade. The TPT is essentially a studio on wheels that can be tied to a satellite truck in order to feed live events around the world and produce DVD products within 24 hours of completion. The current equipment is 15 years old and uses the now obsolete standard definition format. Lifecycle replacement of equipment will bring the truck to the current high definition format for higher quality products and transmission rates. This program is a new start for FY2022 in this budget line.</p> <p>ARMY TRAINING INFORMATION SYSTEM (ATIS): The ATIS will provide a Common Operational Picture (COP) of the training environment through integrated, interoperable training development, management, scheduling, and delivery capabilities. Existing training information systems do not provide Commanders, leaders, Soldiers, and civilians a centralized COP of the training environment that enables persistent, consistent access to the Training and Education information and products necessary to support readiness to meet emerging threats. Without ATIS, Army organizations will continue to develop and maintain a multitude of training information systems that are not part of an enterprise, thus inhibiting visualization, understanding, and informed decision making. This program is linked to RDTE Program Element 0605013A, Information Technology Development, Project Number FM8, Project Title Information Technology for Training Systems.</p> <p>ARMY OFFICE OF BUSINESS TRANSFORMATION (OBT) STRATEGIC MANAGEMENT SYSTEM (SMS): As the Army's System of Record for Performance Management, SMS, is a software tool that supports the Army Enterprise's strategy and campaign planning, measurement, and execution tracking mission. SMS reduces Army organization workload related to measuring, tracking, and reporting metric and strategy performance by automating data input and generating automated Common Operating Pictures of data aligned by a unit's Unit Identification Code (UIC). SMS provides Army commanders with a common operating picture for tracking unit, Command, and Enterprise performance and for generating up-to-date reports and dashboards for synchronization. SMS is the codified system of record for tracking performance for the Office of the Surgeon General, the Army's Sexual Harassment/Assault Response & Prevention program, the Army's Ready & Resilient program, and supports the Army Campaign Plan. SMS has system interfaces in place to automate data entry from numerous Army authoritative data sources. The intent of this effort is to advance the data analytics capability of SMS to enhance data reporting and visualization for the more than 30,000 Command level users of SMS. This program has no requirements for FY2022.</p> <p>U.S. ARMY EUROPE (USAREUR) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The USAREUR ADPE provides funding to perform a critical collaboration capabilities refresh and provides critical coalition infrastructure. Mission critical IT components in USAREUR's Headquarters now present increased cybersecurity risks as many devices are no longer manufactured or supported. USAREUR will update infrastructure to remediate open security vulnerabilities, which will allow USAREUR's senior leadership to continue to collaborate with DoD, DA, and NATO leaders for operational missions and contingency exercises. This program has no requirements in FY2022.</p> <p>PERSONNEL AUTOMATION SYSTEMS (BE4164): PERSONNEL ENTERPRISE SUPPORT-AUTOMATION (PES-A): The PES-A is an Information Technology (IT) Enterprise infrastructure acquisition program that provides integrated support to the Army Human Resources (HR) community and the Army Accessioning IT Mission which encompasses the automation support for the Army personnel systems, recruiting, accessioning, and Reserve Officers' Training Corps commissioning missions that satisfy Army manning and force strength requirements supporting the Warfighter. The PES-A is critical to the execution of the day-to-day operations for the Active Army and its components in terms of strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization by providing the hardware, network, and connectivity capabilities that serve as the technical foundation for core Army HR systems, applications, and services supporting the Warfighter. These systems include the Enlisted, Officer, and General Officer Selection Boards, the Soldier's Management System (SMS), the Wounded Warrior System, and the Defense Casualty Information Processing System (DCIPS). The PES-A supports the readiness and well-</p>		

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Line Item MDAP/MAIS Code: N/A		
<p>being of Army personnel enabling efficient and effective management of Soldiers world-wide. This integrated infrastructure serves as the backbone for applications to ensure that crucial data and information is available at all times to Soldiers, Army Leaders, the Department of Defense, and ultimately, Congress. The Army Accessioning IT Mission serves as an enabler for Total Army recruiting [Active, Reserve, and Army National Guard (ARNG)], in the public, educational, and commercial sectors, where the accessioning force and future force reside while exchanging data with Army and Department of Defense (DoD) automated personnel systems. The Army Accessioning IT Mission provides essential automation capabilities to field recruiters, special mission recruiters, and guidance counselors for the Regular Army, Reserves, and ARNG. It reduces administrative tasks while providing essential data on applicants and newly enlisted Soldiers to leadership. The Army Accessioning IT Mission facilitates responses to changes from Office of the Secretary of Defense and Department of the Army concerning accessioning business processes. Operationally it captures applicant information and supports electronic projection of that data and supporting documents. It also provides Continuity of Operations and disaster recovery for Primary Mission Essential Function applications and databases. It maintains historical production data, produces management reports, supports the presentation of Army opportunities, and is the sole information source for delivering leads to recruiters. The Army Accessioning IT Mission also provides the overarching support structure for cyber recruiting and applicant self-processing.</p> <p>UNITED STATES MILITARY ENTRANCE PROCESSING COMMAND (USMEPCOM) INTEGRATED RESOURCE SYSTEM (USMIRS): The USMIRS provides the automation and communications capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Department of Defense (DoD). The USMIRS is used at 65 Military Entrance Processing Stations (MEPS) and approximately 365 Military Entrance Test (MET) sites throughout the US and its territories. The USMIRS is the only official DoD joint accession resource system that processes applicants for enlistment into all Services. It collects, stores, edits, processes, and reports applicant and enlistment data on every US Military applicant to determine their aptitude, medical, and past conduct qualifications for service. The USMIRS interfaces with the Social Security Administration, the United States Citizen and Immigration Service, the Federal Bureau of Investigation through the Office of Personnel Management, commercial and DoD drug laboratories, the recruiting services, the Defense Manpower Data Center, and many other DoD systems. The USMIRS processes approximately 926.8 thousand individual records annually through its Data Services. This program is linked to RDTE Program Element 0605013A, Information Technology Development, Project Number T04, Project Title USMEPCOM Transformation - IT Modernization.</p> <p>SOLDIER FOR LIFE-TRANSITION ASSISTANCE PROGRAM XXI (SFL-TAP XXI): The SFL-TAP XXI application provides an interactive, multimedia approach to pre-separation counseling and job assistance training. This application uses full motion video, graphics, and sound to train clients and schedule classroom-type instruction. It integrates a complete range of transition services and benefits for Soldiers, Department of Army civilian employees, and their family members as they transition from the military. The SFL-TAP XXI is a web-based, three-tiered application with a centralized database for all transition sites. The user interface is browser-based, the application is based on a storefront intranet model to provide access from within transition centers. There is no application processing on the desktops located at transition centers. The SFL-TAP XXI application suite consists of the following subsystems: Transition Assistance Program-Support (TAP-Support), Transition Assistance Program-Online (TAP-Online) and TAP Virtual. The infrastructure modernization will provide system stability, support expansion requirements, and ensure reliable customer support. This program is linked to RDTE Program Element 0605013A, Information Technology Development, Project Number FM7, Project Title Human Resources Information Technology.</p> <p>ACCESSIONS INFORMATION ENVIRONMENT (AIE): AIE is a fully integrated enterprise level system that aligns authorities, responsibilities, and resources for Total Army accessions. It provides for customer relationship management, data analytics, mapping, visualization, mobility, and electronic signature as well as cloud infrastructure and hosting for three environments to implement Software as a Service (SaaS). AIE supports core accessions capabilities, including lead generation and management, prospecting, interviewing, processing, intelligence, marketing, training, leader development, and pay incentives. This system ensures that every Army recruiter has the information needed to obtain leads for potential recruits, engender commitments, and engage communities (geographic regions and universities) for direct contact with young Americans. AIE is a priority program for Senior Army Leadership due to degradation of performance and unreliability of 11 legacy systems and 33 modules of the current Army Recruiting Information Support System (ARISS). AIE deployment uses an agile method (deployment of defined capabilities incrementally to users) versus the standard waterfall method. As such, the Army is deploying AIE operationally in five iterative waves over three years, increasing the number of users and the capabilities every six months. Initial operational capabilities is to deploy early FY2021 to an active and ARNG battalion/state and will provide the ability to enlist and access a Soldier in the Regular Army, Army Reserve and/or the Army National Guard. Full operational capability across the enterprise will be completed in FY2023 and the legacy ARISS will sunset in FY2023. The program is linked to RDTE Program Element 0605013A, Project Number FL9, Project Title Army Accessioning IT Development. Beginning in FY2022, this program was moved to Standard Study Number B45000, Accessions Information Environment (AIE), for more efficient and effective program management as a BCAT I system.</p> <p>PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175): US MILITARY ACADEMY (USMA) INFORMATION TECHNOLOGY (IT): The USMA is an accredited institution of higher learning graduating approximately 1,100 Second Lieutenants to support the Army each year. The USMA IT sustains the mission of the Academy as it maintains pace with Army transformation, remains a competitive Tier 1 university, and supports 4,400 Cadets in accordance with Title 10 USC 4342. USMA IT also includes the United States Military Academy Preparatory School and supports 245 Cadet Candidates. Many non-DoD affiliations affect USMA IT mission requirements, specifically, the</p>		

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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605013A
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Line Item MDAP/MAIS Code: N/A

Accreditation Board of Engineering and Technology (ABET), Middle States Commission on Higher Education (MSCHE), and Computer Science Accreditation Board (CSAB). These accreditation efforts look at future plans for IT. To maintain its accreditation standards and to instruct and prepare future Army leaders to operate in the sophisticated high-tech warfare of Joint and Army Visions for 2020 and beyond, USMA must employ technology unique to the cadet education and development mission in spaces where cadets, staff, and faculty congregate and collaborate to include cadet barracks, administrative buildings, academic classrooms, and laboratories. The USMA IT is essential to every aspect of education, training, and Command and Control (C2) of the USMA and West Point Garrison. The USMA IT procurement directly supports the Army's core competency to train and equip Soldiers and to grow and develop our future leaders.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	179.715	151.187	130.924	-	130.924	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	179.715	151.187	130.924	-	130.924	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 92: Elect Equip - Automation

P-1 Line Item Number / Title:
 3002BD3000 / Automated Data Processing Equip

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605013A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BD3956 / OPTICAL DIGITAL EQUIP	P-5a	A		- / 104.708	- / 3.897	- / 1.293	- / 1.792	- / -	- / 1.792
P-5	BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS	P-5a			- / 1,007.992	- / 24.330	- / 18.786	- / 26.969	- / -	- / 26.969
P-5	BE4162 / MACOM AUTOMATION SYSTEMS	P-5a			6 / 1,552.649	- / 92.588	- / 58.281	- / 49.794	- / -	- / 49.794
P-5	BE4164 / PERSONNEL AUTOMATION SYSTEMS	P-5a			- / 880.391	- / 55.650	- / 69.290	- / 43.229	- / -	- / 43.229
P-5	BE4175 / Personnel Automation Systems - West Point	P-5a			- / 19.934	- / 3.250	- / 3.537	- / 9.140	- / -	- / 9.140
P-40	Total Gross/Weapon System Cost				6 / 3,565.674	- / 179.715	- / 151.187	- / 130.924	- / -	- / 130.924

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 OPTICAL DIGITAL EQUIP (BD3956):
 FY2022 Base procurement dollars in the amount of \$1.792 million support initial iPERMS Enterprise Application Migration and life cycle replacement of hardware to include Network Attached Storage, optical storage libraries, servers, system components, and related peripherals. Storage requirements are determined by the corresponding increase of Army personnel records and the DoD/NARA requirement to maintain all personnel records for 62 years after separation of the individual service member. These procurements will enhance system stability, support expansion requirements, and ensure reliable customer support at all levels.

HQ MANAGEMENT INFORMATION SYSTEMS (BE4161):
 FY2022 Base procurement dollars in the amount of \$1.393 million support HQDA ADPE requirements for U.S. Army Combat Readiness Center (USACRC) classrooms with audio systems, instructor touch panels, control systems, microphones, videos walls, smart podiums, and television monitors, servers, systems components, and related peripherals.

FY2022 Base procurement dollars in the amount of \$8.002 million support global SCC requirements for systems engineering and installation of Command, Control, Communication, Computers (C4) infrastructure, hardware (hubs, servers, protected cable distribution systems, secure video teleconferencing systems, integration and monitoring equipment), software, and program management costs associated at two (2) SCCs located at U.S. Southern Command and HQDA Army Operations Center.

FY2022 Base procurement dollars in the amount of \$12.811 million support USFK HQ C4IT network infrastructure and capabilities to include Directory, File, Print, and Web server processing; storage and switching; data replication for Continuity of Operations Planning (COOP), data recovery, and improved capacity for basic store and retrieve capabilities. Funds also support Lifecycle Replacement of critical network support equipment (servers, switches, routers, etc.) for Theater Mission Command networks supporting the Republic of Korea (ROK)-U.S. alliance.

FY2022 Base procurement dollars of \$4.763 million supports ARSOUTH HQ LCR with replacement of aged analog Video Teleconferencing (VTC) systems with digital systems that include high definition monitors, cameras, integrated microphones, Internet Protocol-based connectivity, and data collaboration tools to support the Enduring Requirement for Operation Guantanamo Bay (GTMO).

MACOM AUTOMATION SYSTEMS (BE4162):
 FY2022 Base procurement dollars in the amount of \$10.915 million support ACI to procure hardware and software for two (2) Army Enterprise Data Centers (AEDCs) located at Camp Arifjan, Kuwait and Fort Carson, Colorado; hardware and software for the classified network and the Enterprise Protected-Domain Name System (EP-DNS); and Base Management System (BMS) licenses for 53 sites currently migrated to the Joint Regional Security Stack architecture.

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Line Item MDAP/MAIS Code: N/A		
<p>FY2022 Base procurement dollars in the amount of \$6.015 million support BLCSE with cyclic replacement of critical wide area networking infrastructure hardware, which includes servers, switches, and routers. It also provides for life cycle replacement of scientific workstations that require significant system resources in order to run computationally expensive simulation applications, novel networking technologies, and three-dimensional (3D) visualizations required to operate within BLCSE.</p> <p>FY2022 Base procurement dollars in the amount of \$0.765 million support ATIA infrastructure to include virtual storage area network storage, virtual servers, and associated software for life cycle support of the existing infrastructure.</p> <p>FY2022 Base procurement dollars in the amount of \$1.213 million support ANV with network equipment including servers, routers, switches, wireless access points, firewalls, Storage Area Network (SAN), and fiber optic cable.</p> <p>FY2022 Base procurement dollars in the amount of \$1.081 million support CVTAN with network equipment including servers, routers, switches, wireless access points, firewalls, and fiber optic cable.</p> <p>FY2022 Base procurement dollars in the amount of \$4.604 million support AFRICOM ADPE with servers, storage, appliances, unified communications systems, video processing systems, and associated network interfaces.</p> <p>FY2022 Base procurement dollars in the amount of \$6.316 million support SOUTHCOM ADPE procurements for VDI network devices, computer hardware, audio/visual switches, displays, and Common User Infrastructure (CUI) storage to support directory, file, and print services; web server processing; storage and switching; data replication for Continuity of Operations Planning (COOP); and data recovery. Funds also support integration services (system assembly, installation, and checkout on site), training (services), and Risk Management Framework certification.</p> <p>FY2022 Base procurement dollars in the amount of \$4.876 million support EUCOM JOC and integrated alternate JOC sites, including data replication and resiliency locations in the United Kingdom and in Italy, with virtual technologies, multi-enclave clients, firewalls, video teleconferencing equipment, local networking, end user devices and storage capacity supporting multiple coalition and classified enclaves.</p> <p>FY2022 Base procurement dollars of \$11.412 million support EUCOM AMDA with classified and unclassified network computing and storage hardware, servers, audio visual equipment, networking, network security devices, network monitoring and load balancing, and end-user devices, in order to enable network for fail-over in support of command Disaster Recovery and Continuity of Operations activities to support the Enduring Requirement for Operation European Defense Initiative (EDI). AMDA is a new start Program/Project.</p> <p>FY2022 Base procurement dollars in the amount of \$1.579 million support AMEDD TPT with lifecycle replacement of standard definition format equipment to high definition format production equipment. AMEDD TPT is a new start Program/Project.</p> <p>FY2022 Base procurement dollars in the amount of \$1.018 million support ATIS deployment of Release 2 and system training for 12,000 users. There were no FY2021 procurement requirements based on initial fielding of Release 1 scheduled in FY2020.</p> <p>OBT SMS has no FY2022 funding request.</p> <p>USAREUR OCO EDI has no FY2022 funding request.</p> <p>PERSONNEL AUTOMATION SYSTEMS (BE4164): FY2022 Base procurement dollars in the amount of \$34.081 million support PES-A application migration, integration into a single architecture, and lifecycle replacement of the Human Resources Center of Excellence (HRCoE) Datacenter IT infrastructure at Ft. Knox, to include: mainframe, web and blade servers, network, backup/recovery, storage, Storage Area Network (SAN), routers, switches, load balance appliances telephony, disaster recovery equipment, Information Assurance compliance, and data center/architecture consolidation requirements.</p>		

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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605013A
Line Item MDAP/MAIS Code: N/A		
<p>FY2022 Base procurement dollars in the amount of \$8.512 million support the infrastructure for legacy USMIRS 1.0 applications, the Defense Accession Network (DAN), and general operations. This includes support to complete Military Health System (MHS) GENESIS implementation at MEPS locations, as well as lifecycle replacement of Command-wide load balancers and file/print servers to maintain security and operational support for USMIRS and administrative systems.</p> <p>FY2022 Base procurement dollars in the amount of \$0.636 million support SFL-TAP XXI with additional infrastructure, to include servers and storage devices, for the Commanders reporting requirement and the Virtual TAP migration into the HRC Data Center. The additional servers are required to increase storage capabilities and improve system response times.</p> <p>AIE has no FY2022 funding request. Program moved to Standard Study Number B45000, Accessions Information Environment (AIE) beginning in FY2022 for more efficient and effective program management as a BCAT I system.</p> <p>PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175) FY2022 Base procurement dollars in the amount of \$9.140 million support USMA IT academic audio/visual equipment and computing capabilities for academic facilities and computer lab infrastructure (includes digital signage, classroom scheduling platform and collaborative classroom integration). It also includes modernization to Army standards of the Academy Management System Enterprise Resource Planning (ERP) for grades and class scheduling; Distributed Antenna System (DAS) lifecycle in cadet barracks and academic buildings and preparation for 5G cellular/data; multi-functional device and copier lifecycle; and network/systems modernization for hardware/software that supports the West Point Research and Education Network (WREN).</p>		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
		Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	104.708	3.897	1.293	1.792	-	1.792
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	104.708	3.897	1.293	1.792	-	1.792
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	104.708	3.897	1.293	1.792	-	1.792

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ARIMS) Hardware ^(†)	3,457.500	4	13.830	1,529.000	1	1.529	-	-	-	-	-	-	-	-	-	-	-	-
(iPERMS) Hardware ^(†)	-	-	-	2,368.000	1	2.368	1,293.000	1	1.293	1,443.000	1	1.443	-	-	-	1,443.000	1	1.443
<i>Subtotal: Recurring Cost</i>	-	-	<i>13.830</i>	-	-	<i>3.897</i>	-	-	<i>1.293</i>	-	-	<i>1.443</i>	-	-	-	-	-	<i>1.443</i>
Non Recurring Cost																		
(iPERMS) Hardware	22,540.500	4	90.162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>90.162</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	<i>103.992</i>	-	-	<i>3.897</i>	-	-	<i>1.293</i>	-	-	<i>1.443</i>	-	-	-	-	-	<i>1.443</i>
Software Cost																		
Non Recurring Cost																		
(iPERMS) Software ^(†)	716.000	1	0.716	-	-	-	-	-	-	349.000	1	0.349	-	-	-	349.000	1	0.349
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.716</i>	-	-	-	-	-	-	-	-	<i>0.349</i>	-	-	-	-	-	<i>0.349</i>
<i>Subtotal: Software Cost</i>	-	-	<i>0.716</i>	-	-	-	-	-	-	-	-	<i>0.349</i>	-	-	-	-	-	<i>0.349</i>
Gross/Weapon System Cost	-	-	104.708	-	-	3.897	-	-	1.293	-	-	1.792	-	-	-	-	-	1.792

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	-	-	-	-	-
Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army				Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip		Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP		
ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:			
Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Total Obligation Authority		3.897	1.293	1.792	-	1.792
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.897	1.293	1.792	-	1.792

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
(ARIMS) Hardware		2020	Various / Various	C / FFP	ACC-NJ, Picatinny, NJ	Sep 2020	Dec 2020	1	1,529.000	Y		
(iPERMS) Hardware		2020	CDW Government LLC / Vernon Hills, IL	C / FFP	MICC Ft Knox, Ft Knox, KY	Sep 2020	Oct 2020	0	466.000	Y		
(iPERMS) Hardware		2020	Dell Federal Systems L.P. / Round Rock, TX	SS / FFP	MICC Ft Knox, Ft Knox, KY	Sep 2020	Sep 2020	1	1,902.000	Y		
(iPERMS) Hardware		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jul 2021	1	1,293.000	Y		
(iPERMS) Hardware		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jul 2022	1	1,443.000	N		
(iPERMS) Software		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jul 2022	1	349.000	N		

Remarks:
 All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site.
 Quantities reflected on P-5a include zero (0) to reflect multiple contract awards for the same system.
 ACC-RI - Army Contracting Command-Rock Island; ACC-NJ - Army Contracting Command-New Jersey; MICC - Mission Installation Contracting Command

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,007.992	24.330	18.786	26.969	-	26.969
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,007.992	24.330	18.786	26.969	-	26.969
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,007.992	24.330	18.786	26.969	-	26.969

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
(HQDA ADPE) Hardware	18,568.000	2	37.136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(PITI) Hardware	739,549.000	1	739.549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(DCIN/PCIS) Hardware	10,102.000	1	10.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCC Hardware ^(†)	9,430.500	4	37.722	6,768.000	1	6.768	8,192.000	1	8.192	8,002.000	1	8.002	-	-	-	8,002.000	1	8.002
-Army Operations Center (AOC) (Pentagon)	2,053.000	1	2.053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-Joint Special Operations Center (JSOC)	843.000	1	0.843	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USFK Hardware ^(†)	11,878.000	2	23.756	7,375.000	1	7.375	6,845.000	1	6.845	12,811.000	1	12.811	-	-	-	12,811.000	1	12.811
Domain and VTC Bridge	500.000	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORSCOM Hardware	2,082.000	1	2.082	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(HQDA ADPE) USACRC Hardware ^(†)	1,383.000	2	2.766	1,376.000	1	1.376	1,049.000	1	1.049	1,393.000	1	1.393	-	-	-	1,393.000	1	1.393
(HQDA ADPE) G3 Hardware	729.000	1	0.729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRADOC CCOE Cyber Initiatives OCO	5,140.000	1	5.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
TRADOC Cyber IT Training OCO	7,140.000	1	7.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRADOC ICOE Intel Initiatives OCO	4,514.000	1	4.514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IMCOM Operations Center/VTC Infrastructure	3,359.000	1	3.359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G-2 FALCON-I OCO	28,500.000	1	28.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G-2 Dionysus OCO	1,600.000	1	1.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAAC-S COIC OCO ^(†)	-	-	-	5,300.000	1	5.300	-	-	-	-	-	-	-	-	-	-	-	-
CENTRIXS-SWA OCO ^(†)	-	-	-	2,500.000	1	2.500	-	-	-	-	-	-	-	-	-	-	-	-
ARSOUTH GTMO ELC Expansion OCO ^(†)	-	-	-	-	-	-	2,216.000	1	2.216	-	-	-	-	-	-	-	-	-
ARSOUTH HQ LCR ^(†)	-	-	-	-	-	-	-	-	-	4,763.000	1	4.763	-	-	-	4,763.000	1	4.763
ARSOUTH JTF-MIGOPS GTMO LCR OCO ^(†)	-	-	-	-	-	-	484.000	1	0.484	-	-	-	-	-	-	-	-	-
Korea DODIN-A	6,330.000	1	6.330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USARPAC Multi Control Unit ^(†)	1,438.000	1	1.438	1,011.000	1	1.011	-	-	-	-	-	-	-	-	-	-	-	-
ARCYBER JMS/GEF Integration	3,872.000	1	3.872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARCENT VDI Refresh	3,389.000	1	3.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	922.520	-	-	24.330	-	-	18.786	-	-	26.969	-	-	-	-	-	26.969
<i>Subtotal: Hardware Cost</i>	-	-	922.520	-	-	24.330	-	-	18.786	-	-	26.969	-	-	-	-	-	26.969
Software Cost																		
Non Recurring Cost																		
(HQDA ADPE) Software	2,256.500	2	4.513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(PITI) Software	75,840.000	1	75.840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	80.353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	80.353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Contractor Management	1,706.333	3	5.119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	5.119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1,007.992	-	-	24.330	-	-	18.786	-	-	26.969	-	-	-	-	-	26.969

Remarks:

Quantities reflected on P-5 refer to total system cost by Cost Element rather than individual system components.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	24.330	18.786	26.969	-	26.969
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	24.330	18.786	26.969	-	26.969

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS				
Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
SCC Hardware		2020	TBS / TBS	C / FFP	TBS	Mar 2021	May 2021	0	673.000	Y		
SCC Hardware		2020	CACI Technologies Inc. / Chantilly, VA	C / CPAF	ACC-APG, APG, MD	Aug 2020	Sep 2020	0	670.000	Y		
SCC Hardware		2020	Tobyhanna Army Depot / Mechanicsburg, PA	MIPR	PEO EIS/PM DCATS, Ft. Belvoir, VA	Feb 2020	Mar 2020	1	5,071.000	Y		
SCC Hardware		2020	ISEC / Ft. Huachuca, AZ	MIPR	PEO EIS/PM DCATS, Ft. Belvoir, VA	Apr 2020	May 2020	0	354.000	Y		
SCC Hardware		2021	TBS / TBS	C / FP	TBS	Feb 2021	Apr 2021	1	7,301.000	Y		
SCC Hardware		2021	CECOM / Aberdeen Proving Ground, MD	MIPR	PEO EIS, Ft. Belvoir, VA	Jan 2021	Jan 2021	0	891.000	Y		
SCC Hardware		2022	TBS / TBS	C / FP	TBS	Feb 2022	Apr 2022	1	8,002.000	N		
USFK Hardware		2020	TBS / TBS	C / FFP	411th CSB, Korea	May 2021	Jul 2021	0	125.000	Y		
USFK Hardware		2020	World Wide Technology, Inc / Maryland Heights, MO	C / FFP	411th CSB Korea	Aug 2020	Sep 2020	0	1,035.000	Y		
USFK Hardware		2020	Iron Bow Technologies, LLC / Herndon, VA	C / FFP	411th CSB Korea	Jul 2020	Aug 2020	1	5,428.000	Y		
USFK Hardware		2020	CACI Technologies Inc. / Chantilly, VA	C / FFP	GSA, Ft. Worth, TX	Jan 2021	Apr 2021	0	406.000	Y		
USFK Hardware		2020	Science Applications International Corp / Reston, VA	C / FFP	411th CSB Korea	Jun 2020	Jan 2021	0	381.000	Y		
USFK Hardware		2021	TBS / TBS	C / FFP	411th CSB, Korea	Apr 2021	Jun 2021	1	6,845.000	Y		
USFK Hardware		2022	TBS / TBS	C / FFP	TBS	Apr 2022	Jul 2022	1	12,811.000	N		
(HQDA ADPE) USACRC Hardware		2020	TBS / TBS	C / FFP	TBS	Apr 2021	Jun 2021	0	529.000	Y		
(HQDA ADPE) USACRC Hardware		2020	ID Technologies LLC / Ashburn, VA	C / FFP	ACC-APG, Natick, MA	Jul 2020	Jul 2020	1	571.000	Y		
(HQDA ADPE) USACRC Hardware		2020	Dakota Consulting Inc. / Silver Spring, MD	C / FFP	ACC-APG, Natick, MA	May 2020	Aug 2020	0	276.000	Y		
(HQDA ADPE) USACRC Hardware		2021	TBS / TBS	C / FFP	TBS	Mar 2021	Jun 2021	1	1,049.000	Y		
(HQDA ADPE) USACRC Hardware		2022	TBS / TBS	C / FFP	TBS	Feb 2022	Mar 2022	1	1,393.000	N		
TAAC-S COIC OCO	✓	2020	TBS / TBS	C / FFP	TBS	Mar 2021	May 2021	1	5,300.000	Y		
CENTRIXS-SWA OCO	✓	2020	TBS / TBS	C / FFP	TBS	Mar 2021	Apr 2021	0	224.000	Y		
CENTRIXS-SWA OCO	✓	2020	World Wide Technology, Inc / Maryland Heights, MO	C / FFP	408th CSB, Camp Arifjan, Kuwait	Dec 2020	Feb 2021	1	2,276.000	Y		
ARSOUTH GTMO ELC Expansion OCO	✓	2021	TBS / TBS	C / FFP	TBS	Mar 2021	May 2021	1	2,216.000	Y		
ARSOUTH HQ LCR		2022	TBS / TBS	C / FFP	TBS	Jan 2022	Aug 2022	1	4,763.000	N		
ARSOUTH JTF-MIGOPS GTMO LCR OCO	✓	2021	TBS / TBS	C / FFP	TBS	Mar 2021	May 2021	1	484.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
USARPAC Multi Control Unit		2020	Innovative Management Concepts Inc / Sterling, VA	C / CPAF	GSA FEDSIM, Washington, DC	Sep 2020	Jan 2021	1	1,011.000	Y		

Remarks:

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site.
 ACC-APG - Army Contracting Command Aberdeen Proving Ground; CSB - Contracting Support Brigade; GSA FEDSIM - General Services Administration Federal Systems Integration and Management Center; ISEC - US Army Information Systems Engineering Command; PEO EIS - Program Executive Officer Enterprise Information Systems; DCATS - Defense Communications and Army Transmission Systems.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	6	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,552.649	92.588	58.281	49.794	-	49.794
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,552.649	92.588	58.281	49.794	-	49.794
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,552.649	92.588	58.281	49.794	-	49.794

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	258,774.833	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ATIA) Hardware ^(†)	1,043.250	4	4.173	793.000	1	0.793	808.000	1	0.808	765.000	1	0.765	-	-	-	765.000	1	0.765
(ANV) Hardware ^(†)	2,052.667	3	6.158	1,190.000	1	1.190	1,205.000	1	1.205	1,213.000	1	1.213	-	-	-	1,213.000	1	1.213
(AOS) Hardware	1,688.000	1	1.688	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ATIS) Hardware ^(†)	-	-	-	1,663.000	1	1.663	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>12.019</i>	-	-	<i>3.646</i>	-	-	<i>2.013</i>	-	-	<i>1.978</i>	-	-	-	-	-	<i>1.978</i>
Non Recurring Cost																		
(ACI) Army-wide Hardware ^(†)	93,147.750	4	372.591	24,300.000	1	24.300	12,731.000	1	12.731	10,915.000	1	10.915	-	-	-	10,915.000	1	10.915
(BLCSE) Hardware ^(†)	4,626.250	4	18.505	5,639.000	1	5.639	5,805.000	1	5.805	6,015.000	1	6.015	-	-	-	6,015.000	1	6.015
(TIABCSTB) Hardware ^(†)	1,905.000	2	3.810	902.000	1	0.902	-	-	-	-	-	-	-	-	-	-	-	-
(SPS) Hardware	3,101.000	1	3.101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ALTESS) Hardware ^(†)	22,679.500	2	45.359	644.000	1	0.644	-	-	-	-	-	-	-	-	-	-	-	-
(AcqBiz) Hardware	4,825.000	1	4.825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AFRICOM HQ ADPE) Hardware ^(†)	2,941.750	4	11.767	4,513.000	1	4.513	4,566.000	1	4.566	4,604.000	1	4.604	-	-	-	4,604.000	1	4.604
(KT) Hardware	105,171.000	1	105.171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(DRSN) Hardware	9,653.000	1	9.653	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
(AKO) Refresh Hardware ^(†)	37,165.500	2	74.331	3,556.000	1	3.556	-	-	-	-	-	-	-	-	-	-	-	-
(EKR) Hardware	1,570.000	1	1.570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TJAGLCS Infrastructure) Hardware	885.500	2	1.771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mission Command Facility (MCF) XVIII ABN Corp	1,504.000	1	1.504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHCOM Hardware ^(†)	6,590.000	2	13.180	6,186.000	1	6.186	6,329.000	1	6.329	6,316.000	1	6.316	-	-	-	6,316.000	1	6.316
PTE CYBER RANGE Hardware ^(†)	1,753.500	2	3.507	2,700.000	1	2.700	-	-	-	-	-	-	-	-	-	-	-	-
CVTAN (former PTE Cyber Range) ^(†)	-	-	-	-	-	-	-	-	-	1,081.000	1	1.081	-	-	-	1,081.000	1	1.081
USARPAC Hardware	2,974.000	2	5.948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDW Conmy Hall Hardware	5,854.000	1	5.854	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM ADPE Hardware ^(†)	16,708.500	2	33.417	4,939.000	1	4.939	12,726.000	1	12.726	4,876.000	1	4.876	-	-	-	4,876.000	1	4.876
EUCOM Base EDI ^(†)	-	-	-	-	-	-	-	-	-	11,412.000	1	11.412	-	-	-	11,412.000	1	11.412
EUCOM ADPE EDI ^(†)	-	-	-	23,000.000	1	23.000	-	-	-	-	-	-	-	-	-	-	-	-
ARCYBER AES3 OCO	4,370.000	1	4.370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARCYBER GMN OCO	4,983.000	1	4.983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM EMCC JOC Fusion Wall OCO	929.000	1	0.929	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARCENT SWA COIC Modernization OCO	6,971.000	1	6.971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORSCOM Data Center	2,672.000	2	5.344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAREUR EDI Hardware ^(†)	-	-	-	-	-	-	13,352.000	1	13.352	-	-	-	-	-	-	-	-	-
Korea DODIN-A	11,361.000	1	11.361	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARSOUTH OMC WIN10-GTMO	1,600.000	1	1.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
ARSOUTH Network Proxy-GTMO	370.000	1	0.370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARSOUTH Zero Client VDI-JTF GTMO	358.000	1	0.358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFC VDI/MILS	3,667.000	1	3.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMEDD TPT ^(†)	-	-	-	-	-	-	-	-	-	1,579.000	1	1.579	-	-	-	1,579.000	1	1.579
AFRICOM CARES CSfC ^(†)	-	-	-	5,000.000	1	5.000	-	-	-	-	-	-	-	-	-	-	-	-
ARCYBER CARES CSfC ^(†)	-	-	-	3,800.000	1	3.800	-	-	-	-	-	-	-	-	-	-	-	-
AMVID Video Streaming ^(†)	-	-	-	343.000	1	0.343	-	-	-	-	-	-	-	-	-	-	-	-
ARSOUTH HQ Infrastructure ^(†)	-	-	-	1,250.000	1	1.250	-	-	-	-	-	-	-	-	-	-	-	-
JTFMO Network ^(†)	-	-	-	650.000	1	0.650	-	-	-	-	-	-	-	-	-	-	-	-
USAREC Command Conf Room ^(†)	-	-	-	315.000	1	0.315	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	755.817	-	-	87.737	-	-	55.509	-	-	46.798	-	-	-	-	-	46.798
<i>Subtotal: Hardware Cost</i>	-	-	767.836	-	-	91.383	-	-	57.522	-	-	48.776	-	-	-	-	-	48.776
Software Cost																		
Recurring Cost																		
(ACI) R Army-wide Software	721,724.000	1	721.724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ATIS) Software ^(†)	-	-	-	1,205.000	1	1.205	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	721.724	-	-	1.205	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
(ACI) N-R Army-wide Software	41,084.000	1	41.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(BLSCE) Software	523.000	1	0.523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TIABCSTB) Software	885.000	1	0.885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ATIA) Software	181.500	2	0.363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(SPS) Software	804.000	1	0.804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ISM) Software	835.000	1	0.835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(KT) Software	17,049.000	1	17.049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
(TJAGLCS Infrastructure) Software	422.500	2	0.845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAREUR EDI Software ^(t)	-	-	-	-	-	-	500.000	1	0.500	-	-	-	-	-	-	-	-	-
OBT Software ^(t)	-	-	-	-	-	-	259.000	1	0.259	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	62.388	-	-	-	-	-	0.759	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	784.112	-	-	1.205	-	-	0.759	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Contractor Management	701.000	1	0.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Services ^(t)	-	-	-	-	-	-	-	-	-	1,018.000	1	1.018	-	-	-	1,018.000	1	1.018
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.018	-	-	-	-	-	1.018
Gross/Weapon System Cost	258,774.833	6	1,552.649	-	-	92.588	-	-	58.281	-	-	49.794	-	-	-	-	-	49.794

Remarks:
Quantities reflected on P-5 refer to total system cost by Cost Element rather than individual system components.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	92.588	58.281	49.794	-	49.794
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	92.588	58.281	49.794	-	49.794

^(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(ATIA) Hardware		2020	CDW-Government / Vernon Hills, IL	C / FP	MICC, Ft. Eustis, VA	May 2020	Jun 2020	1	702.000	Y		
(ATIA) Hardware		2020	TBS / TBS	C / FFP	TBS	Apr 2021	Jul 2021	0	29.000	Y		
(ATIA) Hardware		2020	NEXTECH Solutions LLC / Orange Park, FL	C / FP	MICC, Ft. Eustis, VA	May 2020	May 2020	0	62.000	Y		
(ATIA) Hardware		2021	TBS / TBS	C / FP	TBS	Apr 2021	Jul 2021	1	808.000	Y		
(ATIA) Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	Jul 2022	1	765.000	N		
(ANV) Hardware		2020	Zivaro Inc. / Denver, CO	C / FP	MICC Presidio of Monterey, Seaside, CA	Sep 2020	Oct 2020	1	1,190.000	Y		
(ANV) Hardware		2021	TBS / TBS	C / FP	TBS	Apr 2021	Jun 2021	1	1,205.000	Y		
(ANV) Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	Jul 2022	1	1,213.000	N		
(ATIS) Hardware		2020	TBS / TBS	C / FFP	TBS	Mar 2021	Jun 2021	1	1,663.000	Y		
(ACI) Army-wide Hardware		2020	Iron Bow Technologies / Chantilly, VA	C / FFP	ACC-APG, Ft. Huachuca, AZ	Aug 2020	Aug 2020	1	17,282.000	Y		
(ACI) Army-wide Hardware		2020	TBS / TBS	C / FP	TBS	Apr 2021	Jun 2021	0	3,487.000	Y		
(ACI) Army-wide Hardware		2020	World Wide Technology / St. Louis, MO	C / FFP	ACC-APG, Ft. Huachuca, AZ	Aug 2020	Dec 2020	0	1,689.000	Y		
(ACI) Army-wide Hardware		2020	Dynamic Systems Inc. / El Segundo, CA	C / FP	DISA/DITCO, Scott AFB, IL	Sep 2020	Nov 2020	0	1,419.000	Y		
(ACI) Army-wide Hardware		2020	Network Designs Inc. / McLean, VA	C / FP	ACC-APC, Ft. Huachuca, AZ	Sep 2020	Sep 2020	0	423.000	Y		
(ACI) Army-wide Hardware		2021	Affigent, LLC / Herndon, VA	C / FFP	ACC-APG, Ft. Huachuca, AZ	Dec 2020	Jan 2021	0	125.000	Y		
(ACI) Army-wide Hardware		2021	TBS / TBS	C / FP	TBS	Mar 2021	Jul 2021	1	12,606.000	Y		
(ACI) Army-wide Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	May 2022	1	10,915.000	N		
(BLCSE) Hardware		2020	Affigent, LLC / Herndon, VA	C / FFP	Ft. Gordon, GA	Jun 2020	Aug 2020	0	438.000	Y		
(BLCSE) Hardware		2020	CDW-Government / Vernon Hills, IL	C / FFP	Ft. Benning, GA	Jun 2020	Sep 2020	0	1,240.000	Y		
(BLCSE) Hardware		2020	Dell Federal Systems LP / Rock Round, TX	C / FFP	Ft. Leavenworth, KS	May 2020	Jun 2020	1	1,237.000	Y		
(BLCSE) Hardware		2020	Hewlett Packard / Reston, VA	C / FFP	ACC-APG, Ft. Huachuca, AZ	Sep 2020	Dec 2020	0	105.000	Y		
(BLCSE) Hardware		2020	HPI Federal LLC / Washington, DC	C / FFP	ACC-APG, Ft. Huachuca, AZ	Sep 2020	Oct 2020	0	66.000	Y		
(BLCSE) Hardware		2020	Iron Bow Technologies / Chantilly, VA	C / FFP	Ft. Gordon, GA	Jun 2020	Aug 2020	0	43.000	Y		
(BLCSE) Hardware		2020	TBS / TBS	C / FFP	TBS	Feb 2021	Mar 2021	0	289.000	Y		
(BLCSE) Hardware		2020	Telos Corporation / Ashburn, VA	C / FFP	Ft. Lee, VA	Sep 2020	Nov 2020	0	8.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(BLCSE) Hardware		2020	Wildflower International, LTD / Santa Fe, NM	C / FFP	Ft. Gordon, GA	Jun 2020	Jul 2020	0	209.000	Y		
(BLCSE) Hardware		2020	World Wide Technology / St. Louis, MO	C / FFP	Ft. Gordon, GA	Jun 2020	Aug 2020	0	41.000	Y		
(BLCSE) Hardware		2020	Zivaro Inc. / Denver, CO	C / FFP	Ft. Leavenworth, KS	Sep 2020	Nov 2020	0	148.000	Y		
(BLCSE) Hardware		2020	Crosspoint Technologies Inc. / Dudley, MA	C / FFP	Ft. Gordon, GA	Jul 2020	Aug 2020	0	496.000	Y		
(BLCSE) Hardware		2020	Delaware Nation Industries / Oklahoma City, OK	C / FFP	Ft. Eustis, VA	Sep 2020	Nov 2020	0	671.000	Y		
(BLCSE) Hardware		2020	FORCE 3 LLC / Crofton, MD	C / FFP	Ft. Gordon, GA	Jul 2020	Aug 2020	0	41.000	Y		
(BLCSE) Hardware		2020	Government Acquisitions Inc. / Cincinnati, OH	C / FFP	ACC-APG, Ft. Huachuca, AZ	Sep 2020	Nov 2020	0	57.000	Y		
(BLCSE) Hardware		2020	ID Technologies / Ashburn, VA	C / FFP	Ft. Sill, OK	Jun 2020	Aug 2020	0	43.000	Y		
(BLCSE) Hardware		2020	Integration Technologies Group / Falls Church, VA	C / FFP	Ft. Gordon, GA	May 2020	Jun 2020	0	19.000	Y		
(BLCSE) Hardware		2020	Mountain IT & Communications / Anchorage, AK	C / FFP	Ft. Leavenworth, KS	Aug 2020	Aug 2021	0	300.000	Y		
(BLCSE) Hardware		2020	SATCOM Solution & Resources / Avon, CO	C / FFP	Ft. Gordon, GA	Aug 2020	Sep 2020	0	102.000	Y		
(BLCSE) Hardware		2020	Unicom Government / Chantilly, VA	C / FFP	Ft. Gordon, GA	Jun 2020	Jul 2020	0	86.000	Y		
(BLCSE) Hardware		2021	TBS / TBS	C / FP	TBS	Apr 2021	Jul 2021	1	5,805.000	Y		
(BLCSE) Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	Jul 2022	1	6,015.000	N		
(TIABCSTB) Hardware		2020	TBS / TBS	C / FFP	TBS	Feb 2021	Mar 2021	0	442.000	Y		
(TIABCSTB) Hardware		2020	Wildflower International, LTD / Santa Fe, NM	C / FP	MICC, Ft. Leavenworth, KS	Sep 2020	Oct 2020	1	460.000	Y		
(ALTESS) Hardware		2020	TBS / TBS	C / FFP	TBS	Apr 2021	Apr 2021	0	19.000	Y		
(ALTESS) Hardware		2020	Dynamic Systems Inc. / El Segundo, CA	C / FFP	DISA/DITCO, Scott AFB, IL	Sep 2020	Oct 2020	0	13.000	Y		
(ALTESS) Hardware		2020	Guardian Systems LLC / Chesapeake, VA	SS / FFP	MICC, Ft. Lee, VA	Sep 2020	Jan 2021	1	612.000	Y		
(AFRICOM HQ ADPE) Hardware		2020	TBS / TBS	C / FFP	DISA DITCO, Scott AFB, IL	Feb 2021	Mar 2021	0	1,150.000	Y		
(AFRICOM HQ ADPE) Hardware		2020	GSA FAS/AAS FEDSIM / Washington, DC	MIPR	AFRICOM, Stuttgart, GE	Nov 2020	Feb 2021	0	969.000	Y		
(AFRICOM HQ ADPE) Hardware		2020	TSEAS Services / Fairview Heights, IL	MIPR	AFRICOM, Stuttgart, GE	Feb 2020	Feb 2021	0	447.000	Y		
(AFRICOM HQ ADPE) Hardware		2020	SPAWARSSYSCEN-Atlantic / North Charleston, SC	MIPR	AFRICOM, Stuttgart, GE	Aug 2020	Feb 2021	1	1,947.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army										Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92				P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(AFRICOM HQ ADPE) Hardware		2021	TBS / TBS	C / FFP	GSA FAS AAS, Philadelphia, PA	Feb 2021	Mar 2021	1	4,566.000	Y		
(AFRICOM HQ ADPE) Hardware		2022	TBS / TBS	C / FFP	TBS	Dec 2021	Mar 2022	1	4,604.000	N		
(AKO) Refresh Hardware		2020	TBS / TBS	C / FFP	TBS	Mar 2021	Jun 2021	0	13.000	Y		
(AKO) Refresh Hardware		2020	Virginia Energy and Lighting / Chesterfield, VA	SS / FFP	MICC, Ft. Lee, VA	May 2020	Jul 2020	0	390.000	Y		
(AKO) Refresh Hardware		2020	Dynamic Systems Inc. / El Segundo, CA	C / FFP	DISA/DITCO, Scott AFB, IL	Sep 2020	Oct 2020	1	2,144.000	Y		
(AKO) Refresh Hardware		2020	Guardian Systems LLC / Chesapeake, VA	SS / FFP	MICC, Ft. Lee, VA	Sep 2020	Sep 2020	0	334.000	Y		
(AKO) Refresh Hardware		2020	ARES Energy LLC / Odenton, MD	SS / FFP	MICC, Ft. Lee, VA	Sep 2020	Jun 2021	0	495.000	Y		
(AKO) Refresh Hardware		2020	Colossal Contracting LLC / Annapolis, MD	C / FFP	DISA/DITCO, Scott AFB, IL	Sep 2020	Oct 2020	0	180.000	Y		
SOUTHCOM Hardware		2020	General Dynamics Info Tech / Fairfax, VA	C / CPAF	GSA FEDSIM, Washington, DC	Mar 2020	May 2020	1	4,704.000	Y		
SOUTHCOM Hardware		2020	Iron Bow Technologies / Chantilly, VA	C / FFP	410th CSB, Miami, FL	Aug 2020	Sep 2020	0	86.000	Y		
SOUTHCOM Hardware		2020	Navy Systems Management Activity / Arlington, VA	MIPR	SOUTHCOM, Doral, FL	Jun 2020	Aug 2020	0	1,396.000	Y		
SOUTHCOM Hardware		2021	TBS / TBS	C / FP	TBS	Apr 2021	Jun 2021	1	6,329.000	Y		
SOUTHCOM Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	Jun 2022	1	6,316.000	N		
PTE CYBER RANGE Hardware		2020	CDW-Government / Vernon Hills, IL	C / FFP	MICC, Ft. Gordon, GA	Apr 2020	May 2020	1	588.000	Y		
PTE CYBER RANGE Hardware		2020	World Wide Technology / St. Louis, MO	SS / FFP	MICC, Ft. Gordon, GA	May 2020	Jun 2020	0	1,845.000	Y		
PTE CYBER RANGE Hardware		2020	Sterling Computers Corp / North Sioux City, SD	C / FFP	MICC, Ft. Gordon, GA	Sep 2020	Nov 2020	0	267.000	Y		
CVTAN (former PTE Cyber Range)		2022	TBS / TBS	C / FP	TBS	Mar 2022	Jun 2022	1	1,081.000	N		
EUCOM ADPE Hardware		2020	TBS / TBS	C / FFP	DISA/DITCO, Scott AFB, IL	Apr 2021	Jul 2021	0	3,804.000	Y		
EUCOM ADPE Hardware		2020	M.C. Dean Inc. / Tysons, VA	C / FFP	DISA/DITCO, Scott AFB, IL	Sep 2020	Sep 2020	1	1,135.000	Y		
EUCOM ADPE Hardware		2021	TBS / TBS	C / FFP	TBS	May 2021	Jul 2021	1	12,726.000	Y		
EUCOM ADPE Hardware		2022	TBS / TBS	C / FFP	TBS	May 2022	Jul 2022	1	4,876.000	N		
EUCOM Base EDI		2022	TBS / TBS	C / FFP	TBS	Apr 2022	Jul 2022	1	11,412.000	N		
EUCOM ADPE EDI	✓	2020	CDW-Government / Vernon Hills, IL	C / FFP	DISA/DITCO, Scott AFB, IL	Sep 2020	Sep 2020	0	2,779.000	Y		
EUCOM ADPE EDI	✓	2020	TBS / TBS	C / FFP	TBS	Mar 2021	Apr 2021	0	4,478.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
EUCOM ADPE EDI	✓	2020	DISYS Solutions Inc. / Ashburn, VA	C / FFP	DISA/DITCO, Scott AFB, IL	Sep 2020	Oct 2020	0	6,926.000	Y		
EUCOM ADPE EDI	✓	2020	GMC Tek Inc. / Manassas, VA	C / FFP	DISA/DITCO, Scott AFB, IL	Mar 2020	Apr 2020	0	779.000	Y		
EUCOM ADPE EDI	✓	2020	GOVSMART Inc. / Charlottesville, VA	C / FFP	DISA/DITCO, Scott AFB, IL	Sep 2020	Sep 2020	0	1,931.000	Y		
EUCOM ADPE EDI	✓	2020	M.C. Dean Inc. / Tysons, VA	C / FFP	DISA/DITCO, Scott AFB, IL	Feb 2020	Feb 2020	1	6,107.000	Y		
USAREUR EDI Hardware		2021	GSA-FAS / Philadelphia, PA	MIPR	USAREUR, Wiesbaden, Germany	Jan 2021	Feb 2021	0	1,801.000	Y		
USAREUR EDI Hardware		2021	TBS / TBS	C / FFP	TBS	Feb 2021	Apr 2021	1	11,551.000	Y		
AMEDD TPT		2022	TBS / TBS	C / FFP	TBS	Jun 2022	Aug 2022	1	1,579.000	N		
AFRICOM CARES CSfC		2020	TBS / TBS	C / FFP	TBS	Jan 2021	Mar 2021	1	4,657.000	Y		
AFRICOM CARES CSfC		2020	NAWCAD / Patuxent River, MD	MIPR	AFRICOM, Stuttgart, GE	Feb 2021	May 2021	0	41.000	Y		
AFRICOM CARES CSfC		2020	GSA FAS/AAS FEDSIM / Washington, DC	MIPR	AFRICOM, Stuttgart, GE	Feb 2021	May 2021	0	275.000	Y		
AFRICOM CARES CSfC		2020	BAE Systems Technology Solutions & Serv / Rockville, MD	C / FFP	NAVAIR AD, Patuxent River, MD	Sep 2020	Sep 2020	0	27.000	Y		
ARCYBER CARES CSfC		2020	CDW-Government / Vernon Hills, IL	C / FFP	ACC-APG, Ft Huachuca, AZ	Sep 2020	Oct 2020	1	2,833.000	Y		
ARCYBER CARES CSfC		2020	Network Designs Inc. / McLean, VA	C / FP	ACC-APG, Ft. Huachuca, AZ	Sep 2020	Sep 2020	0	379.000	Y		
ARCYBER CARES CSfC		2020	Business Mission Edge LLC / Bethesda, MD	C / FFP	ACC-APC, Ft. Huachuca, AZ	Sep 2020	Oct 2020	0	588.000	Y		
AMVID Video Streaming		2020	TBS / TBS	C / FFP	DMA, Riverside, CA	Mar 2021	Jun 2021	1	343.000	Y		
ARSOUTH HQ Infrastructure	✓	2020	TBS / TBS	C / FFP	CECOM, APG, MD	Feb 2021	Apr 2021	0	347.000	Y		
ARSOUTH HQ Infrastructure	✓	2020	ID Technologies / Ashburn, VA	C / FFP	ACC-APG, Ft. Huachuca, AZ	Sep 2020	Oct 2020	1	903.000	Y		
JTFMO Network	✓	2020	World Wide Technology / St. Louis, MO	C / FFP	RCO GTMO, Cuba	Feb 2021	Apr 2021	1	650.000	Y		
USAREC Command Conf Room		2020	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Mar 2021	May 2021	1	315.000	Y		
(ATIS) Software		2020	TBS / TBS	C / FFP	TBS	Mar 2021	Jun 2021	1	1,205.000	Y		
USAREUR EDI Software	✓	2021	TBS / TBS	C / FFP	TBS	Jan 2021	Mar 2021	1	500.000	Y		
OBT Software		2021	TBS / TBS	SS / FFP	ACC-APG, Aberdeen Proving Ground, MD	Apr 2021	Jul 2021	1	259.000	Y		
Services		2022	TBS / TBS	C / FFP	TBS	Jul 2022	Sep 2022	1	1,018.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS
Remarks: All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. ACC-APG - Army Contracting Command-Aberdeen Proving Ground; GSA FAS AAS - General Services Administration Federal Acquisition Services Assisted Acquisition Services; DISA DITCO - Defense Information Systems Agency Defense Information Technology Contracting Organization. NAWCAD - Naval Air Warfare Center Aircraft Division; DMA - Defense Media Activity; NAVAIR-AD - Naval Air Systems Aircraft Division; CECOM - US Army Communications & Electronics Command; MICC - Mission Installation Contracting Command; NSMA - Naval Systems Management Activity; RCO GTMO - Regional Contracting Office, Guantanamo Bay.		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	880.391	55.650	69.290	43.229	-	43.229
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	880.391	55.650	69.290	43.229	-	43.229
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	880.391	55.650	69.290	43.229	-	43.229

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ACCHR) Recurring Hardware	1,829.000	1	1.829	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(USMA) Hardware	17,602.000	1	17.602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA-IAA) Hardware Recurring	71,689.000	1	71.689	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	91.120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
(AA-IAA) Hardware Non-Recurring	6,236.000	1	6.236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(PES-A) Hardware Non-Recurring (t)	357,503.000	2	715.006	36,843.000	1	36.843	28,893.000	1	28.893	27,130.000	1	27.130	-	-	-	27,130.000	1	27.130
(MIRS) Hardware Non-Recurring (t)	13,063.250	4	52.253	10,810.000	1	10.810	6,388.000	1	6.388	8,512.000	1	8.512	-	-	-	8,512.000	1	8.512
(ACCHR) Hardware Non-Recurring	9,098.000	1	9.098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	782.593	-	-	47.653	-	-	35.281	-	-	35.642	-	-	-	-	-	35.642
Subtotal: Hardware Cost	-	-	873.713	-	-	47.653	-	-	35.281	-	-	35.642	-	-	-	-	-	35.642
Software Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
AIE Software & Training Recurring ^(†)	-	-	-	7,373.000	1	7.373	33,366.000	1	33.366	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	7.373	-	-	33.366	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
(ACCHR) Software	2,441.000	1	2.441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(Keystone) Software Non-Recurring	900.000	1	0.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(PES-A) Software ^(†)	3,337.000	1	3.337	-	-	-	-	-	-	6,951.000	1	6.951	-	-	-	6,951.000	1	6.951
SFL-TAP Software Non-Recurring ^(†)	-	-	-	624.000	1	0.624	643.000	1	0.643	636.000	1	0.636	-	-	-	636.000	1	0.636
<i>Subtotal: Non Recurring Cost</i>	-	-	6.678	-	-	0.624	-	-	0.643	-	-	7.587	-	-	-	-	-	7.587
<i>Subtotal: Software Cost</i>	-	-	6.678	-	-	7.997	-	-	34.009	-	-	7.587	-	-	-	-	-	7.587
Gross/Weapon System Cost	-	-	880.391	-	-	55.650	-	-	69.290	-	-	43.229	-	-	-	-	-	43.229

Remarks:
Quantities reflected on P-5 refer to total system cost by Cost Element rather than individual system components.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	55.650	69.290	43.229	-	43.229
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	55.650	69.290	43.229	-	43.229

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army										Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92				P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(PES-A) Hardware Non-Recurring		2020	CDW Government, LLC / Vernon Hills, IL	C / FFP	MICC, Ft. Knox, KY	Jun 2020	Jul 2020	0	5,054.000	Y		
(PES-A) Hardware Non-Recurring		2020	Dell Federal Systems, LP / Round Rock, TX	SS / FFP	MICC, Ft. Knox, KY	Aug 2020	Aug 2020	0	1,238.000	Y		
(PES-A) Hardware Non-Recurring		2020	GovConnection / Rockville, MD	C / FFP	MICC, Ft. Knox, KY	Jan 2020	Feb 2021	0	469.000	Y		
(PES-A) Hardware Non-Recurring		2020	Government Acquisition Inc. / Cincinnati, OH	C / FFP	MICC, Ft. Knox, KY	Sep 2020	Sep 2020	1	15,680.000	Y		
(PES-A) Hardware Non-Recurring		2020	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2021	Jun 2021	0	3,529.000	Y		
(PES-A) Hardware Non-Recurring		2020	World Wide Technology, LLC / St. Louis, MO	C / FFP	MICC, Ft. Knox, KY	Jun 2020	Jun 2020	0	6,805.000	Y		
(PES-A) Hardware Non-Recurring		2020	SIRIUS COMPUTER SOLUTIONS, INC. / San Antonio, TX	C / FFP	MICC, Ft. Knox, KY	Sep 2020	Sep 2020	0	3,072.000	Y		
(PES-A) Hardware Non-Recurring		2020	W2V6 USA ENG SPT CTR / Huntsville, AL	RO	USA Engineer Support Center, Huntsville, AL	Jul 2020	Sep 2020	0	996.000	Y		
(PES-A) Hardware Non-Recurring		2021	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2021	Jul 2021	1	27,600.000	Y		
(PES-A) Hardware Non-Recurring		2021	World Wide Technology, LLC / St. Louis, MO	C / FFP	MICC, Ft. Knox, KY	Nov 2020	Dec 2020	0	1,293.000	Y		
(PES-A) Hardware Non-Recurring		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2022	Jul 2022	1	27,130.000	N		
(MIRS) Hardware Non-Recurring		2020	Dell Federal Systems, LP / Round Rock, TX	C / BOA	DISA, Scott AFB, IL	Apr 2020	Apr 2020	0	707.000	Y		
(MIRS) Hardware Non-Recurring		2020	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jul 2021	Aug 2021	0	4,764.000	Y		
(MIRS) Hardware Non-Recurring		2020	World Wide Technology, LLC / St. Louis, MO	SS / BPA	MICC, Ft. Knox, KY	Sep 2020	Oct 2020	0	861.000	Y		
(MIRS) Hardware Non-Recurring		2020	HPI Federal LLC / Washington, DC	C / BOA	MICC, Ft. Knox, KY	Sep 2020	Oct 2020	0	1,533.000	Y		
(MIRS) Hardware Non-Recurring		2020	Transource Services Corp. / Phoenix, AZ	C / BOA	MICC, Ft. Knox, KY	Jun 2020	Jul 2020	1	2,944.000	Y		
(MIRS) Hardware Non-Recurring		2021	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2021	Apr 2021	1	6,388.000	Y		
(MIRS) Hardware Non-Recurring		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Mar 2022	May 2022	1	8,512.000	N		
AIE Software & Training Recurring		2020	TBS / TBS	C / FFP	TBS	Aug 2021	Oct 2021	0	2,429.000	Y		
AIE Software & Training Recurring		2020	Booz Allen Hamilton Inc. / McLean, VA	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Apr 2020	Aug 2020	1	4,944.000	Y		
AIE Software & Training Recurring		2021	TBS / TBS	C / FFP	TBS	Apr 2021	Jul 2021	1	33,366.000	N		
(PES-A) Software		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Sep 2022	Mar 2023	1	6,951.000	N		
SFL-TAP Software Non-Recurring		2020	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jul 2021	Aug 2021	1	624.000	Y		
SFL-TAP Software Non-Recurring		2021	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jul 2021	Aug 2021	1	643.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SFL-TAP Software Non-Recurring		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2022	Jul 2022	1	636.000	N		

Remarks:
 All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site.
 MICC - Mission and Installation Contracting Command; ACC-NJ - Army Contracting Command-New Jersey; DISA - Defense Information Systems Agency;

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4175 / Personnel Automation Systems - West Point

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	19.934	3.250	3.537	9.140	-	9.140
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	19.934	3.250	3.537	9.140	-	9.140
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	19.934	3.250	3.537	9.140	-	9.140

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
U. S. Military Academy (USMA) Hardware ^(†)	19,934.000	1	19.934	3,250.000	1	3.250	3,537.000	1	3.537	9,140.000	1	9.140	-	-	-	9,140.000	1	9.140
<i>Subtotal: Recurring Cost</i>	-	-	19.934	-	-	3.250	-	-	3.537	-	-	9.140	-	-	-	-	-	9.140
<i>Subtotal: Hardware Cost</i>	-	-	19.934	-	-	3.250	-	-	3.537	-	-	9.140	-	-	-	-	-	9.140
Gross/Weapon System Cost	-	-	19.934	-	-	3.250	-	-	3.537	-	-	9.140	-	-	-	-	-	9.140

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	-	-	-	-	-
Total Obligation Authority	3.250	3.537	9.140	-	9.140
Total: Secondary Distribution	-	-	-	-	-
Total Obligation Authority	3.250	3.537	9.140	-	9.140

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4175 / Personnel Automation Systems - West Point				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
U. S. Military Academy (USMA) Hardware		2020	Donnelly & Moore Inc / New City, NY	C / FFP	ACC-RI, Rock Island, IL	Sep 2020	Sep 2020	0	209.000	Y		
U. S. Military Academy (USMA) Hardware		2020	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jul 2021	0	30.000	Y		
U. S. Military Academy (USMA) Hardware		2020	Tri-Force Consulting Services / Lansdale, PA	C / FFP	MICC, West Point, NY	Jul 2020	Nov 2020	1	1,093.000	Y		
U. S. Military Academy (USMA) Hardware		2020	Signal Perfection, LTD. / Tampa, FL	C / FFP	ACC-RI, Rock Island, IL	Sep 2020	Jan 2021	0	1,048.000	Y		
U. S. Military Academy (USMA) Hardware		2020	Chenega Systems, LLC / Lorton, VA	C / FFP	ACC-RI, Rock Island, IL	Aug 2020	Aug 2020	0	675.000	Y		
U. S. Military Academy (USMA) Hardware		2020	Aeronautical Communications Group, Inc. / Annapolis, MD	C / FFP	MICC, West Point, NY	Mar 2020	Apr 2020	0	195.000	Y		
U. S. Military Academy (USMA) Hardware		2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jul 2021	0	2,505.000	Y		
U. S. Military Academy (USMA) Hardware		2021	22nd Century Technologies Inc. / Somerset, NJ	C / FFP	ACC-RI, Rock Island, IL	Nov 2020	Nov 2020	1	1,032.000	Y		
U. S. Military Academy (USMA) Hardware		2022	TBS / TBS	C / FFP	MICC, West Point, NY	Apr 2022	Jul 2022	1	9,140.000	N		

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission and Installation Contracting Command. ACC-RI - Army Contracting Command-Rock Island.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	44.635	-	44.635	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	44.635	-	44.635	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	44.635	-	44.635	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

ACCESSIONS INFORMATION ENVIRONMENT (AIE): AIE is a fully integrated enterprise level system that aligns authorities, responsibilities, and resources for Total Army accessions. It provides for customer relationship management, data analytics, mapping, visualization, mobility, and electronic signature as well as cloud infrastructure and hosting for three environments to implement Software as a Service (SaaS) solution. AIE supports core accessions capabilities, including lead generation and management, prospecting, interviewing, processing, intelligence, marketing, training, leader development, and pay incentives. This system ensures that every Army recruiter has the information needed to obtain leads for potential recruits, engender commitments, and engage communities (geographic regions and universities) for direct contact with young Americans. Senior Army Leadership accelerated AIE due to degradation of performance and unreliability of 11 legacy systems and 33 modules of the current Army Recruiting Information Support System (ARISS) that resulted in the loss of 20,000 recruitment records in 2018. AIE deployment uses an agile method versus the standard waterfall method. As such, the Army is deploying AIE operationally in five iterative waves over three years, increasing the number of users and the capabilities every six months. Initial operational capabilities is to deploy late FY2021 to an active and ARNG battalion/ state and will provide the ability to enlist and access a Soldier in the Regular Army, Army Reserve and/or the Army National Guard. Full operational capability across the enterprise will be completed in FY2023 and the legacy ARISS will begin sunset efforts in FY2023 to FY2024.

The program is linked to RDTE Program Element 0605013A, Project Number FL9, Project Title: Army Accessioning IT Development in FY2020 and FY2021. The program is also linked to RDTE Program Element 0655233A, Project Number CP8, Project Title: Accessions Information Environment beginning in FY2022. This program was realigned to Standard Study Number B45000, Accessions Information Environment (AIE), for more efficient and effective program management.

RFS VALUE HISTORY:

OLD: OPA2 BD3000/BE4164/PARENT - PERSONNEL AUTOMATION SYSTEMS - Accessions Information Environment (AIE) FY20 - \$7.373M, FY21 - \$33.366M

NEW: OPA2 B45000/B45000/PARENT - ACCESSIONS INFORMATION ENVIRONMENT (AIE)

NEW: OPA2 B45000/B45015/BABY - ACCESSIONS INFORMATION ENVIRONMENT

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	44.635	-	44.635	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation					P-1 Line Item Number / Title: 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	44.635	-	44.635	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 92: Elect Equip - Automation

P-1 Line Item Number / Title:
 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B45015 / ACCESSIONS INFORMATION ENVIRONMENT	P-5a			- / -	- / -	- / -	- / 44.635	- / -	- / 44.635
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 44.635	- / -	- / 44.635

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 AIE will provide a fully integrated enterprise level COTS-based capability enabling transparency, efficiency and effectiveness of the accessions workforce to acquire the best-qualified talent to meet Army recruiting and accessions requirements. It will ultimately replace the current legacy Accessions IT systems that have been in existence for over 30 years, and which have experienced frequent outages and unstable performance since FY 2018.

FY2022 Base procurement dollars in the amount of \$44.635 million provides AIE End users (Recruiters) with commercial-off-the-shelf based (COTS) software as a service (SAAS) licenses for 20 applications to support customer relationship management, data analytics, mapping, visualization, mobility, and electronic signatures. It also includes support costs for deployment of the AIE prototype to 24,000+ end users across the Army.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)	Item Number / Title [DODIC]: B45015 / ACCESSIONS INFORMATION ENVIRONMENT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	44.635	-	44.635
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	44.635	-	44.635
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	44.635	-	44.635

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Recurring Cost																		
Software Licenses - End User ^(†)	-	-	-	-	-	-	-	-	-	32,611.000	1	32,611	-	-	-	32,611.000	1	32,611
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	32,611	-	-	-	-	-	32,611
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	32,611	-	-	-	-	-	32,611
Support - Training Cost																		
Services ^(†)	-	-	-	-	-	-	-	-	-	12,024.000	1	12,024	-	-	-	12,024.000	1	12,024
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	12,024	-	-	-	-	-	12,024
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	44.635	-	-	-	-	-	44.635

Remarks:
 Increase/Decrease Statement: OPA increase between FY21 & FY22 is due to the increased end users requiring licenses and travel requirements to support training.
 Historical Reference for funding levels via old RFS: OPA2 BD3000/BE4164/PARENT - PERSONNEL AUTOMATION SYSTEMS FY20: AIE Software & Training \$7.373M
 FY21: AIE Software & Training \$33.366M.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	44.635	-	44.635

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)	Item Number / Title [DODIC]: B45015 / ACCESSIONS INFORMATION ENVIRONMENT

ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:				
Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	44.635	-	44.635

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)				Item Number / Title [DODIC]: B45015 / ACCESSIONS INFORMATION ENVIRONMENT				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Software Licenses - End User		2022	Booz Allen Hamilton / Herndon, VA	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	May 2022	May 2022	1	32,611.000	Y		
Services		2022	Booz Allen Hamilton / Herndon, VA	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	May 2022	May 2022	1	12,024.000	Y		

Remarks:
 All IT procurements consist of commercial off the shelf (COTS) software as a service (SAAS) products to support the AIE Solution. All quantities and unit costs vary by software component capability and end user roles. Quantities reflected on P-5a include zero (0) to reflect multiple contract awards for the same system.
 MICC - Mission and Installation Contracting Command; ACC-NJ - Army Contracting Command-New Jersey

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3004B55500 / General Fund Enterprise Business Systems Fam
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	285.544	15.002	4.448	1.452	-	1.452	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	285.544	15.002	4.448	1.452	-	1.452	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	285.544	15.002	4.448	1.452	-	1.452	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

BE4168 - General Fund Enterprise Business System (GFEBS): GFEBS is the Army's core financial management system for administering its General Fund. Full Deployment was reached in 2012 and the system is currently in the Capability Support (sustainment) phase of the Business Acquisition Cycle, focused on modernization, cyber security, and system enhancements while also conducting capability enhancements to meet policy and deliver a more accurate picture of Army financial awareness. GFEBS was implemented to fulfill the needs and enable the Army to comply with the Federal Financial Management. GFEBS was developed using a commercial off-the-shelf Enterprise Resource Planning system that is certified by the Chief, Financial Officer Council and provides six core financial functions (United States General Ledger (USGL), Cost Management, Funds Control, Payable Management, Real Property, Receivable Management and Reports).

B55511 - General Fund Enterprise Business System-Sensitive Activities (GFEBS-SA): GFEBS-SA is a designated National Security System (NSS) leveraging the GFEBS base system as the Army's core financial management system certified by the Chief Financial Officers Council. To protect sensitive information and enable clean auditability, the Army requires a separate instance of GFEBS operated on a secure network for processing sensitive and classified financial transactions that cannot be processed in the fully-fielded GFEBS base system without compromising classified information or missions, or endangering soldiers. Therefore, GFEBS-SA is an essential financial program designed to enable the auditability that is needed to comply with the Chief Financial Officers (CFO) Act, the Federal Financial Management Improvement Act (FFMIA), and prevent compromise of data that could cause grave harm to U.S. forces. GFEBS-SA is envisioned as a fully functional GFEBS application operated on a secure network (SIPR), leveraging off of the sustained system design while providing additional implementation that includes additional requirements designed to protect sensitive intelligence operations and special operations missions. It will process Secret Collateral and below information while providing GFEBS capabilities such as distribution and execution of appropriated funds, cost management, financial reporting, and asset management. GFEBS-SA has been implemented and deployed to 3,000 users across 100 locations worldwide. GFEBS-SA supports information exchanges with organizations that support the Army's sensitive activities mission, including cross-security domain integration between SIPR and NIPR with GFEBS and other system partners. Services are capable of being upgraded throughout the life of the program in order to incorporate advances in best business practices and technology, and will modify capability to maintain a synchronized software baseline with the GFEBS base system to maintain efficiencies in capability enhancements, training documentation, and sustainment support. FY21, GFEBS-SA transitions to Army Shared Services Center (ASSC).

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	15.002	4.448	1.452	-	1.452	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3004B55500 / General Fund Enterprise Business Systems Fam
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	15.002	4.448	1.452	-	1.452	-	-	-	-

Justification:
 FY 2022 procurement BASE funds in the amount of \$1.452 million to support new software upgrades to bring GFEBs reporting and analytics in-line with processing performance thresholds and to modernize the system in order to remain current with new technology standards.

BE4168 request is \$1.452 million in FY2022.

B55511 has no FY2022 funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	8	4	8	4	-	4	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	381.561	72.610	88.405	69.943	-	69.943	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	381.561	72.610	88.405	69.943	-	69.943	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	381.561	72.610	88.405	69.943	-	69.943	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	47,695.125	18,152.500	11,050.625	17,485.750	-	17,485.750	-	-	-	-	-	-

Description:

The Department of Defense (DoD) High Performance Computing (HPC) Modernization Program, managed by the Army, supports the needs of all services for technological superiority and military dominance on the battlefield by providing advanced computational services to U.S. weapons system scientists and engineers. By exploiting continuous advances in high performance computing technology, the Defense Research, Development, Test and Evaluation (RDT&E), and acquisition engineering community is able to resolve critical scientific and engineering problems quickly and with more precision. The results of these efforts align to DoD National Defense Strategy priorities, such as hypersonics, directed energy, autonomy, and artificial intelligence, and feed directly into the acquisition process by improving weapons system designs through an increased understanding of materials, aerodynamics, chemistry, fuels, acoustics, signal image recognition, electromagnetics, and other areas of basic and applied research as well as enabling advanced test and evaluation environments that allow synthetic scene generation, automatic control systems and virtual test environments. As such, HPC has been identified as a key enabling technology essential to achieving the objectives of the DoD's Science and Technology (S&T), Test and Evaluation (T&E), and acquisition communities. The program deploys compute-intensive and data-intensive systems to provide world-class HPC capabilities to the DoD-wide user community.

The HPC Modernization program provides focused modernization efforts crafted to ensure DoD's S&T and T&E communities are supported with current generation supercomputing capabilities. The HPC modernization program resulted from congressional language that recognized supercomputing as a national strategic asset and directed the DoD to focus on supercomputing modernization at laboratories and test centers to keep its forces and military systems on the leading technological edge.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	4	8	4	-	4	-	-	-
	Total Obligation Authority	72.610	88.405	69.943	-	69.943	-	-	-
Total: Secondary Distribution	Quantity	4	8	4	-	4	-	-	-
	Total Obligation Authority	72.610	88.405	69.943	-	69.943	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B66501 / High Perf Computing Mod Pgm (HPCMP)	P-5a			8 / 381.561	4 / 72.610	8 / 88.405	4 / 69.943	- / -	4 / 69.943
P-40	Total Gross/Weapon System Cost				8 / 381.561	4 / 72.610	8 / 88.405	4 / 69.943	- / -	4 / 69.943

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 Base procurement dollars in the amount of \$69.943 million supports the following efforts:
 FY 2022 Base procurement dollars in the amount of \$65.943 million supports up to four (4) HPC systems at two (2) DoD Supercomputing Resource Center (DRSC) locations.
 FY 2022 Base procurement dollars in the amount of \$4.000 million is projected to support two (2) DoD HPC Project Investments (DHPs) for Army, Navy, Air Force, or Agency initiatives or two (2) exploratory HPC systems. DHPs require unique specifications or computing classification that cannot be addressed with shared, allocated HPC systems. Exploratory HPC systems investigate new use cases and workloads beyond traditional modeling and simulation, such as big data, artificial intelligence, tactical computing at the edge.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
		Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	8	4	8	4	-	4
Gross/Weapon System Cost (\$ in Millions)	381.561	72.610	88.405	69.943	-	69.943
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	381.561	72.610	88.405	69.943	-	69.943
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	381.561	72.610	88.405	69.943	-	69.943

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	47,695.125	18,152.500	11,050.625	17,485.750	-	17,485.750

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
Dedicated HPC Project Investments ^(†)	1,768.000	13	22.984	2,000.000	2	4.000	2,000.000	2	4.000	2,000.000	2	4.000	-	-	-	2,000.000	2	4.000
Defense Supercomputing Resource Centers ^(†)	29,881.417	12	358.577	34,305.000	2	68.610	42,202.500	2	84.405	32,971.500	2	65.943	-	-	-	32,971.500	2	65.943
<i>Subtotal: Non Recurring Cost</i>	-	-	381.561	-	-	72.610	-	-	88.405	-	-	69.943	-	-	-	-	-	69.943
<i>Subtotal: Hardware Cost</i>	-	-	381.561	-	-	72.610	-	-	88.405	-	-	69.943	-	-	-	-	-	69.943
Gross/Weapon System Cost	47,695.125	8	381.561	18,152.500	4	72.610	11,050.625	8	88.405	17,485.750	4	69.943	-	-	-	17,485.750	4	69.943

Remarks:

The High Performance Computing Modernization Program (HPCMP) has a broad ordering agreement (BOA) arrangement through Huntsville Engineering Support Center (Army Corps of Engineers), increasing speed to award and acceptance. Other contracting mechanisms may be utilized by the Program if determined to be more advantageous in terms of cost or schedule. All procurements are commercial off the shelf or government off the shelf (COTS/GOTS).

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity 4	8	4	-	4
	Total Obligation Authority 72.610	88.405	69.943	-	69.943
Total:	Quantity 4	8	4	-	4

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)	Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP)

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	72.610	88.405	69.943	-	69.943

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army								Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)					Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Dedicated HPC Project Investments		2017	Cray, Inc. / Seattle, WA	C / CR	Navy (OPNAV N974B)	Aug 2017	Oct 2017	1	2,577.300	Y		Jun 2017
Dedicated HPC Project Investments		2017	HPE / Vienna, VA	SS / FFP	Army (ATEC)	Sep 2017	Nov 2017	1	1,958.800	Y		Aug 2017
Dedicated HPC Project Investments		2019	TBD / TBD	C / FFP	Army ERDC, DSRC, Vicksburg, MS	Aug 2019	Nov 2019	2	2,291.500	Y		Jul 2019
Dedicated HPC Project Investments		2020	TBD / TBD	TBD	TBD	Sep 2020	May 2021	2	2,000.000	N		Jul 2020
Dedicated HPC Project Investments		2021	TBD / TBD	TBD	TBD	Sep 2021	May 2022	2	2,000.000	N		Jul 2021
Dedicated HPC Project Investments		2022	TBD / TBD	TBD	TBD	Jun 2022	May 2023	2	2,000.000	N		Jan 2022
Defense Supercomputing Resource Centers		2017	HPE / SGI / Annapolis Junction, MD	C / BOA	AFRL, Wright Patterson AFB	Dec 2017	Jun 2018	1	27,696.000	Y		Mar 2017
Defense Supercomputing Resource Centers		2017	HPE/SGI / Annapolis Junction, MD	C / BOA	Navy DSRC Stennis Space Ctr	Dec 2017	Jun 2018	1	26,078.000	Y		Mar 2017
Defense Supercomputing Resource Centers		2018	Cray, Inc. / Seattle, WA	C / BOA	Army ERDC DSRC, Vicksburg, MS	May 2019	Nov 2019	1	29,553.000	Y		Nov 2018
Defense Supercomputing Resource Centers		2018	IBM / Bethesda, MD	C / BOA	Army ARL DSRC, Aberdeen, MD	Jun 2019	Jan 2020	1	9,500.000	Y		Jan 2019
Defense Supercomputing Resource Centers		2018	Cray, Inc 1 / Seattle, WA	C / BOA	Army ARL DSRC, Aberdeen, MD	May 2019	Nov 2019	1	27,310.000	Y		Dec 2018
Defense Supercomputing Resource Centers		2019	Cray, Inc. / Seattle, WA	C / BOA	AFRL, Wright Patterson AFB	Feb 2020	Sep 2020	2	25,480.000	Y		Jul 2019
Defense Supercomputing Resource Centers		2019	Cray, Inc 1 / Seattle, WA	C / BOA	Navy DSRC Stennis Space Ctr	Feb 2020	Sep 2020	1	26,480.000	Y		Jul 2019
Defense Supercomputing Resource Centers		2020	TBD / TBD	C / BOA	Army ERDC DSRC, Vicksburg, MS	Sep 2020	Feb 2021	1	31,805.000	N		Mar 2020
Defense Supercomputing Resource Centers		2020	TBD - 1 / TBD - 1	C / BOA	Army ARL DSRC, Aberdeen, MD	Sep 2020	Feb 2021	1	31,805.000	N		Mar 2020
Defense Supercomputing Resource Centers		2021	TBD / TBD	TBD	AFRL, Wright Patterson AFB	Sep 2021	Feb 2022	1	42,202.500	N		Mar 2021
Defense Supercomputing Resource Centers		2021	TBD - 1 / TBD - 1	TBD	Navy DSRC Stennis Space Ctr	Sep 2021	Feb 2022	1	42,202.500	N		Mar 2021
Defense Supercomputing Resource Centers		2022	TBD / TBD	TBD	Army ERDC DSRC, Vicksburg, MS	Apr 2022	Jul 2022	1	33,389.000	N		Oct 2021
Defense Supercomputing Resource Centers		2022	TBD - 1 / TBD - 1	TBD	Army ARL DSRC, Aberdeen, MD	Apr 2022	Jul 2022	1	33,390.000	N		Oct 2021

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)	Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP)

Remarks:
The High Performance Computing Modernization Program (HPCMP) has a five year broad ordering agreement (BOA) arrangement through Huntsville Engineering Support Center (Army Corps of Engineers), increasing speed to award and acceptance. All procurements are commercial off the shelf or government off the shelf (COTS/GOTS).

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3009B66001 / Contract Writing System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605047A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.788	6.000	2.459	16.957	-	16.957	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.788	6.000	2.459	16.957	-	16.957	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.788	6.000	2.459	16.957	-	16.957	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Army Contract Writing System (ACWS) will be the Army's single, next-generation, enterprise-wide contract writing, management, execution, and close-out software system. ACWS will facilitate the standardization of Army Procurement business processes and streamline the integration with Army Enterprise Resource Planning (ERP) systems. As a financial feeder system, ACWS will meet the full scope of Army contracting requirements, including those in secure and non-secure locations, those supporting combat or non-combat contingencies, those within or outside the borders of the Continental United States, those supporting grants and assistance agreements, and those performing weapons systems, construction, installation, other specialized contracting activities, and the Federal Financial Management Improvement Act of 1996. In November 2020, the MDA approved a Limited Deployment ATP for ACWS to deploy a Minimal Viable Solution (MVS) to the Humphrey's Engineer Center in November 2020. ACWS is on track to deploy an Initial Operating Capability (IOC) Q2FY2022. ACWS will deploy a full replacement capability by the end of FY 2023 to SPS users, allowing the Army to avoid the full SPS bill (\$14M+/ year) from OSD.

FY2022 OPA will be used to continue to acquire system licenses, as well as field, deploy, and train users to support interim and objective capability. This will initiate deployment to SPS users. ACWS will also plan for and conduct one or more separate operational Pilots in parallel to ACWS development to review options for enhanced usability, secure contracting requirements, and functionality improvements.

During FY 2020, ACWS coordinated with the Navy's eProcurement System (ePS) team to identify and implement efficiencies; the two teams will continue implementing those plans during FY 2021 and 2022, including using combined buying power for potential economies of scale for license purchases.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	6.000	2.459	16.957	-	16.957	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	6.000	2.459	16.957	-	16.957	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3009B66001 / Contract Writing System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605047A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B66002 / Army Contract Writing System				- / 1.788	- / 6.000	- / 2.459	- / 16.957	- / -	- / 16.957
P-40	Total Gross/Weapon System Cost				- / 1.788	- / 6.000	- / 2.459	- / 16.957	- / -	- / 16.957

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 ACWS base procurement funds of
 - \$11.848 million will be used to procure 4500 requisite ACWS software licenses for Full Deployment (FD) as the solution will ultimately support 10,000 Army users across the world.
 - \$4.225 million will support continued deployment activities including training and deployment teams for the IOC release and run throughout FY 2022. Funding also supports system fielding activities including training, deployment, and Organization Change Management (Soldier Touchpoints).
 - \$0.884 million will support the Logistics Modernization Program (LMP) integration deployment.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3009B66001 / Contract Writing System	Item Number / Title [DODIC]: B66002 / Army Contract Writing System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1.788	6.000	2.459	16.957	-	16.957
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1.788	6.000	2.459	16.957	-	16.957
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1.788	6.000	2.459	16.957	-	16.957

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Non Recurring Cost																		
Deployment & Training	17.000	1	0.017	2,000.000	1	2.000	893.000	1	0.893	4,225.000	1	4.225	-	-	-	4,225.000	1	4.225
Software License	1,771.000	1	1.771	4,000.000	1	4.000	1,566.000	1	1.566	2.650	4,471	11.848	-	-	-	2.650	4,471	11.848
ACWS Partner Costs (LMP)	-	-	-	-	-	-	-	-	-	884.000	1	0.884	-	-	-	884.000	1	0.884
<i>Subtotal: Non Recurring Cost</i>	-	-	1.788	-	-	6.000	-	-	2.459	-	-	16.957	-	-	-	-	-	16.957
<i>Subtotal: Software Cost</i>	-	-	1.788	-	-	6.000	-	-	2.459	-	-	16.957	-	-	-	-	-	16.957
Gross/Weapon System Cost	-	-	1.788	-	-	6.000	-	-	2.459	-	-	16.957	-	-	-	-	-	16.957

Remarks:

ACWS will begin deployment activities in FY2021 and then ramp up into FY2022. In FY2022, ACWS will be focused on deployment activities associated with IOC after initial deployment in Q3FY2021. The program plans to continue deployment to SPS users once the solution is available after its initial deployment. To support the contracting user community, the functional sponsor, DASA(P) does not allow for 4th quarter deployment given the user base (the contracting community) and timing of the business cycle (fiscal year contract closeout operations).

The program is reporting more detailed unit pricing (per unit costs) beginning in FY2022. Previous year unit costs reflect budgeted funds for licenses. Funding increases from FY22 reflect additional license procurement to complete deployment to all SPS users.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	6.000	2.459	16.957	-	16.957
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army			Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3009B66001 / Contract Writing System		Item Number / Title [DODIC]: B66002 / Army Contract Writing System		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	6.000	2.459	16.957	-	16.957

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3051BD3501 / CSS Communications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	386.049	24.700	51.129	73.110	-	73.110	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	386.049	24.700	51.129	73.110	-	73.110	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	386.049	24.700	51.129	73.110	-	73.110	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Combat Service Support (CSS) Communications funding line supports the Army's Network Modernization Strategy Line of Effort (LOE) 1 (Unified Network) and supports the Army's strategy for Logistics Transport Convergence. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

The CSS Communications funding line supports the Army's Sustainment Tactical Network (STN), a full spectrum logistics communication requirement. The STN is comprised of two main components: a wireless capability (Combat Service Support Automated Information System Interface (CAISI)), and a satellite terminal capability (Combat Service Support Very Small Aperture Terminal (CSS VSAT)). Developed for the General Purpose User (GPU), STN provides network connectivity for sustainment, medical, and administrative information to be exchanged on the battlefield across multiple echelons. The CSS VSAT augments tactical communications networks at all levels by providing tailored Commercial Off-The-Shelf (COTS) network capabilities for enabling Sustainment Information Systems (SIS) communications. The legacy VSAT and CAISI programs have an AAO of 32,795 end items fielded (3,620 VSAT terminals and 29,175 CAISI systems) supporting Army logistics operations. These were originally fielded in 2004 and cannot be technically or economically sustained past their 2030 end of life.

CSS Communications funding line supports modernization of the VSAT terminals and local transport (modernized CAISI), leveraging COTS solutions, to provide the DoD Information Network-Army (DODIN-A) access to wireless and wired network access point services. The modernized VSAT and local transport program will have an AAO of 22,701 end items fielded; 2,440 VSAT terminals and 20,261 local transport. Modernization efforts will ensure continued support of SIS communications globally, at home station (Garrison) and into the tactical, operational and strategic battle space. This will enable access to required sustainment business process systems that use Enterprise Resource Planning (ERP) software, such as Global Combat Support System-Army (GCSS-Army), Integrated Personnel and Pay System-Army (IPPS-A) and GCSS-Marine, which require global connectivity. These programs and their associated data are enterprise level services which require reliable, redundant, and consistent unit access to reach back capabilities to the DODIN-A through modernized VSAT and local transport. Additionally, these modernization efforts support the Army's strategy for Logistics Transport Convergence.

Note: The Program Office will conduct market research and hardware assessments in support of Logistics Network modernization and a Materiel Development Decision (MDD). These USAREUR-AF ONS VSATs will resolve growing gaps, provide assured communications within the logistics network by replacing current single-band CSS VSATs. Operational needs require a smaller, lighter system that is able to transition between frequency allocation bands at any time and that reduces susceptibility to position tracking and jamming.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army									
Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army							Date: May 2021			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation					P-1 Line Item Number / Title: 3051BD3501 / CSS Communications					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
	Total Obligation Authority	24.700	51.129	73.110	-	73.110	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	24.700	51.129	73.110	-	73.110	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3051BD3501 / CSS Communications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BD3513 / CSS SATCOM	P-5a			- / 386.049	- / 24.700	- / 51.129	- / 73.110	- / -	- / 73.110
P-40	Total Gross/Weapon System Cost				- / 386.049	- / 24.700	- / 51.129	- / 73.110	- / -	- / 73.110

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY22 Base procurement dollars in the amount of \$73.110 million procures 79 modernized multi-band Combat Service Support (CSS) Very Small Aperture Terminals (VSATs) to support the USAREUR-AF ONS (signed 10 May 2019), cyber resiliency equipment, and the upgrade of 312 previously fielded CSS VSAT Inflatable Satellite Antennas (ISAs) in USINDOPACOM to comply with cyber security requirements. The Program Office will conduct market research and hardware assessments in support of Logistics Network modernization and a Materiel Development Decision (MDD). These USAREUR-AF ONS VSATs will resolve growing gaps, provide assured communications within the logistics network by replacing current single-band CSS VSATs. Operational needs require a smaller, lighter system that is able to transition between frequency allocation bands at any time and that reduces susceptibility to position tracking and jamming.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3051BD3501 / CSS Communications
		Item Number / Title [DODIC]: BD3513 / CSS SATCOM

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	386.049	24.700	51.129	73.110	-	73.110
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	386.049	24.700	51.129	73.110	-	73.110
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	386.049	24.700	51.129	73.110	-	73.110

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	392.063	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Combat Service Support Automated Information Systems (CAISI)	-	-	193.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Local Transport - CAISI Modernization ^(f)	-	-	-	90.722	36	3.266	-	-	-	-	-	-	-	-	-	-	-	-
Very Small Aperture Terminal (VSAT)	-	-	193.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSAT Modernization ^(f)	-	-	-	251.385	52	13.072	316.920	115	36.446	321.419	79	25.392	-	-	-	321.419	79	25.392
Cyber Resiliency	-	-	-	-	-	-	29.499	115	3.392	30.887	79	2.440	-	-	-	30.887	79	2.440
Subtotal: Recurring Cost	-	-	386.049	-	-	16.338	-	-	39.838	-	-	27.832	-	-	-	-	-	27.832
Non Recurring Cost																		
Very Small Aperture Terminal (VSAT) - USINDOPACOM Retrofit	-	-	-	-	-	-	-	-	-	87.957	312	27.443	-	-	-	87.957	312	27.443
Very Small Aperture Terminal (VSAT) - ONS Spares	-	-	-	-	-	1.410	-	-	-	-	-	6.696	-	-	-	-	-	6.696
Subtotal: Non Recurring Cost	-	-	-	-	-	1.410	-	-	-	-	-	34.139	-	-	-	-	-	34.139
Subtotal: Hardware Cost	-	-	386.049	-	-	17.748	-	-	39.838	-	-	61.971	-	-	-	-	-	61.971
Support - Data Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army												Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92						P-1 Line Item Number / Title: 3051BD3501 / CSS Communications						Item Number / Title [DODIC]: BD3513 / CSS SATCOM					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support Data Data	-	-	-	-	-	-	-	-	-	-	-	0.488	-	-	-	-	-	0.488
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.488	-	-	-	-	-	0.488
Support - Fielding Cost																		
Fielding	-	-	-	-	-	2.506	-	-	6.405	-	-	5.176	-	-	-	-	-	5.176
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	2.506	-	-	6.405	-	-	5.176	-	-	-	-	-	5.176
Support - Hardware Analysis Cost																		
Hardware Analysis	-	-	-	-	-	-	-	-	0.120	-	-	0.423	-	-	-	-	-	0.423
<i>Subtotal: Support - Hardware Analysis Cost</i>	-	-	-	-	-	-	-	-	0.120	-	-	0.423	-	-	-	-	-	0.423
Support - Program Management Cost																		
Government Management	-	-	-	-	-	1.020	-	-	1.169	-	-	1.383	-	-	-	-	-	1.383
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	1.020	-	-	1.169	-	-	1.383	-	-	-	-	-	1.383
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	3.426	-	-	3.597	-	-	3.669	-	-	-	-	-	3.669
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	3.426	-	-	3.597	-	-	3.669	-	-	-	-	-	3.669
Gross/Weapon System Cost	-	-	386.049	392.063	-	24.700	-	-	51.129	-	-	73.110	-	-	-	-	-	73.110

Remarks:

FY22 Unit Cost adjusted for inflation from FY21.

Added Cyber Resiliency cost element to support baseband requirements necessary for cyber network requirements.

FY22 includes the cost to upgrade 312 previously procured USINDOPACOM systems. These upgrades will standardize the configuration for CSS VSAT ISA terminals allowing for transition to sustainment with a single configuration, which provides long-term cost avoidance by not having to maintain multiple versions of technical manuals, training packages, provisioning parts listings, and initial spares packages.

FY20 VSAT terminals supported the USAREUR-AF ONS (33 terminals) and a Soldier-Touch Point (19 terminals) to inform modernization efforts. In FY20 the program was able to coordinate VSAT procurement with Transportable Tactical Command Communications (T2C2) to leverage higher quantity discounts driving down the unit cost.

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	24.700	51.129	73.110	-	73.110
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2022 Army				Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3051BD3501 / CSS Communications		Item Number / Title [DODIC]: BD3513 / CSS SATCOM		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Secondary Distribution	Total Obligation Authority	24.700	51.129	73.110	-	73.110

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3051BD3501 / CSS Communications	Item Number / Title [DODIC]: BD3513 / CSS SATCOM
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Local Transport - CAISI Modernization		2020	Various / Various	C / FFP	Various	Jul 2020	Nov 2020	36	90.722	Y		
VSAT Modernization		2020	Various / Various	C / FFP	Various	Apr 2020	Oct 2020	52	251.385	Y		
VSAT Modernization		2021	TBD / TBD	C / FFP	TBD	Jun 2021	Dec 2021	115	316.920	Y		
VSAT Modernization		2022	TBD / TBD	C / FFP	TBD	Jan 2022	Jun 2022	79	321.419	Y		

Remarks:

FY22 Unit Cost adjusted for inflation from FY21.
Added Cyber Resiliency cost element to support baseband requirements necessary for cyber network requirements.

FY22 includes the cost to upgrade 312 previously procured USINDOPACOM systems. These upgrades will standardize the configuration for CSS VSAT ISA terminals allowing for transition to sustainment with a single configuration, which provides long-term cost avoidance by not having to maintain multiple versions of technical manuals, training packages, provisioning parts listings, and initial spares packages.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,953.655	27.879	14.848	12.905	-	12.905	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,953.655	27.879	14.848	12.905	-	12.905	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,953.655	27.879	14.848	12.905	-	12.905	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Reserve Component Automation System (RCAS) is the Army's system of choice and record for all Reserve Component (United States Army Reserve (USAR) and Army National Guard (ARNG)) commands mobilizing their citizen soldiers for disaster response, homeland security, and overseas deployment. Established in response to a Government Accountability Office report on the Army Reserve Component's inability to provide timely and accurate mobilization data, the system now dramatically improves the Army's and the States' ability to organize, train, equip and mobilize their Citizen Soldiers.

RCAS provides 15 web-based, software applications that support the Army Reserve Component's requirements for Force Management, Mobilization, Personnel, and Safety. RCAS was fully deployed in 2004 and is currently in sustainment, which includes modifications/updates to RCAS software, infrastructure refresh of end-user devices and network hardware, and end-user training. RCAS has been successfully utilized in response to 9/11, Homeland Security missions, National Training exercises, Disaster Relief, and Operations Iraqi Freedom, New Dawn, Enduring Freedom and Freedom's Sentinel.

The OPA funding allows the Army to securely link approximately 10,500 Army Reserve (USAR) and Army National Guard (ARNG) units at roughly 4,000 sites in 50 States, Washington, DC, Guam, Puerto Rico, and the Virgin Islands; this allows the Reserve Component units to connect to DODIN-A and access DA and DoD enterprise applications that support readiness, force management, mobilization and safety and occupational health. The RCAS network hardware infrastructure is refreshed on a five-year cycle, replacing approximately 10% of the fielded infrastructure per year.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	14.848	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.727	-	7.681	-	7.681	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.152	-	5.224	-	5.224	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	27.879	14.848	12.905	-	12.905	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BE4167 / Reserve Component Automation Sys (RCAS)	P-5a			- / 1,953.655	- / 27.879	- / 14.848	- / 12.905	- / -	- / 12.905
P-40	Total Gross/Weapon System Cost				- / 1,953.655	- / 27.879	- / 14.848	- / 12.905	- / -	- / 12.905

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2022 (FY22) Base procurement dollars in the amount of \$12.905 million will support approximately 10% refresh of the RCAS network hardware infrastructure. The FY22 total base procurement dollars of \$12.905 million is split between the Army National Guard, \$7.681 million and the US Army Reserve, \$5.224 million. Funding supports network modernization at 373 Army National Guard (ARNG) Readiness and U.S. Army Reserve (USAR) Centers, which represents 10% of the 3,731 fielded ARNG Readiness and USAR Centers. This refresh schedule is based on a 10-year cycle. RCAS executes a single network hardware procurement contract for refresh of 373 sites with FY22 funds.

The level of effort for Technical Refresh of each site (ARNG/USAR readiness centers) is different depending on the construct of the operation. Tech Refresh at the scheduled sites is planned in advance on a 5-year cycle, but age and performance dictate the amount of Technical Refresh at the scheduled sites so it is not always a one for one replacement of hardware. The program will support network hardware and software refresh to ARNG and USAR commands and units based on priorities established by the respective Components. The program will satisfy agency information technology mandates with respect to information assurance, net worthiness, server consolidation, and a common operating environment.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)	Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,953.655	27.879	14.848	12.905	-	12.905
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,953.655	27.879	14.848	12.905	-	12.905
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,953.655	27.879	14.848	12.905	-	12.905

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Life Cycle Replacement Hardware ⁽¹⁾	976,827.500	2	1,953.655	27,879.000	1	27.879	14,848.000	1	14.848	12,905.000	1	12.905	-	-	-	12,905.000	1	12.905
Subtotal: Recurring Cost	-	-	1,953.655	-	-	27.879	-	-	14.848	-	-	12.905	-	-	-	-	-	12.905
Subtotal: Hardware Cost	-	-	1,953.655	-	-	27.879	-	-	14.848	-	-	12.905	-	-	-	-	-	12.905
Gross/Weapon System Cost	-	-	1,953.655	-	-	27.879	-	-	14.848	-	-	12.905	-	-	-	-	-	12.905

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	14.848	-	-	-
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	16.727	-	7.681	7.681
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	11.152	-	5.224	5.224
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	27.879	14.848	12.905	12.905

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)	Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army							Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)				Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Life Cycle Replacement Hardware		2020	CACI Enterprise Solutions, INC / Reston, VA	C / CR	Washington, DC	May 2020	Jun 2020	1	27,879.000	Y		
Life Cycle Replacement Hardware		2021	CACI Enterprise Solutions, INC / Reston, VA	C / CR	Washington, DC	May 2021	Jun 2021	1	14,848.000	Y		
Life Cycle Replacement Hardware		2022	CACI Enterprise Solutions, INC / Reston, VA	C / CR	Washington, DC	May 2022	Jun 2022	1	12,905.000	Y		

Remarks:
CACI Enterprise Solutions Inc. is the prime contractor for RCAS. All items are COTS/GOTS solutions.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: 9998BL5300 / Items Less Than \$5M (Surveying Equipment)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	72.067	5.000	4.995	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	72.067	5.000	4.995	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	72.067	5.000	4.995	-	-	-	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,801.675	166.667	166.500	-	-	-	-	-	-	-	-	-

Description:

This program supports the procurement and upgrade of the Automated Integrated Survey Instrument (AISI) and Global Positioning System - Survey (GPS-S). This equipment supports the survey mission of both the Topographic and Construction Engineer. Capabilities provided by this equipment enable engineers to establish the geodetic control necessary for construction and topographic surveys with centimeter level precision in electronic contested environments. GPS-S integrates Selective Availability, Anti-Spoofing Module (SAASM), and Precise Positioning System GPS software upgrades into a Commercial Off the Shelf (COTS) GPS for military survey applications. Additionally, this equipment supports Construction Engineering surveys (e.g., roads, buildings, logistics sites, staging areas, and airfield construction). Software functionality, included as part of this procurement, allows the user to accomplish the design work necessary for site design and construction (e.g., materiel calculations, labor, resources). GPS-S interfaces with current Army Survey equipment to perform integrated GPS/optical surveys. Additionally, this leverages the Instrument Set, Reconnaissance and Surveying (ENFIRE) tablet PC to post process survey data files and import survey design files. GPS-S meets FAA standards for airfield survey and allows for standardized commercial data exchanges such that it is interoperable with commercial software and hardware equivalents. GPS-S kits are comprised of Commercial Off the Shelf equipment. GPS-S Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

The GPS-Survey Army Acquisition Objective (AAO) is 773.
 Automated Integrated Survey Instrument (AISI) Army Acquisition Objective (AAO) is 430.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.658	2.781	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.671	1.677	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.671	0.537	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: 9998BL5300 / Items Less Than \$5M (Surveying Equipment)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	5.000	4.995	-	-	-	-	-	-	-

Justification:

BL5300 has no funding request in FY22.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	P-1 Line Item Number / Title: 2723B88801 / BCT Emerging Technologies
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	181.335	19.312	8.491	13.835	-	13.835	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	181.335	19.312	8.491	13.835	-	13.835	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	181.335	19.312	8.491	13.835	-	13.835	-	-	-	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding supports the Army Rapid Capabilities and Critical Technologies Office (RCCTO) efforts to provide needed capabilities to Soldiers, to inform future Army capability requirements, and to potentially transition the capability to an Army acquisition program. The Army RCCTO expedites the fielding of critical combat materiel capabilities to the Warfighter to meet urgent needs and support the Army modernization strategy. The RCCTO assesses Commercial-Off-The Shelf (COTS), Government Off-The- Shelf (GOTS), and Non-Developmental Item (NDI) (non-standard equipment) solutions for modification and/or integration to address changes in contested environments with enduring materiel solutions for forces deployed globally. The RCCTO procures prototypes and evaluates solutions to field residual combat capability to a unit of action and transition the capability to an acquisition program for production and sustainment. This funding will also buy limited production units of demonstrated technologies to rapidly deliver critical combat materiel capabilities to the Warfighter to enable the National Defense Strategy.

Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.312	8.491	13.835	-	13.835	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.312	8.491	13.835	-	13.835	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	P-1 Line Item Number / Title: 2723B88801 / BCT Emerging Technologies
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B88801 / BCT Emerging Technologies	P-5a			- / 181.335	- / 19.312	- / 8.491	- / 13.835	- / -	- / 13.835
P-40	Total Gross/Weapon System Cost				- / 181.335	- / 19.312	- / 8.491	- / 13.835	- / -	- / 13.835

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY2022 Base funding in the amount of \$13.835 million supports the Army Rapid Capabilities and Critical Technologies Office expedited fielding of critical combat materiel capabilities to meet urgent needs and enable Army modernization and the National Defense Strategy. Funding supports procurement of demonstrated emerging technologies in support of Critical Technological efforts, survivability, Artificial Intelligence, and other capabilities.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98	P-1 Line Item Number / Title: 2723B88801 / BCT Emerging Technologies	Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	181.335	19.312	8.491	13.835	-	13.835
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	181.335	19.312	8.491	13.835	-	13.835
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	181.335	19.312	8.491	13.835	-	13.835

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
EWTV	1,500.000	3	4.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VROD/VMAX ^(†)	387.310	29	11.232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Hypersonic Glide Body (CHGB) COTS, GOTS and (NDI) ^(†)	-	-	-	8,764.988	1	8.765	-	-	-	-	-	-	-	-	-	-	-	-
Long Range Hypersonic Weapon Integration COTS, GOTS and (NDI) ^(†)	-	-	-	2,847.941	1	2.848	-	-	-	-	-	-	-	-	-	-	-	-
All Up Round and Canister (AUR+C) COTS, GOTS and (NDI) ^(†)	-	-	-	4,984.072	1	4.984	-	-	-	1,700.000	1	1.700	-	-	-	1,700.000	1	1.700
<i>Subtotal: Recurring Cost</i>	-	-	15.732	-	-	16.597	-	-	-	-	-	1.700	-	-	-	-	-	1.700
Non Recurring Cost																		
CA-CEMA ONS	-	-	147.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Demonstrated Emerging Technology	-	-	0.001	2,715.000	1	2.715	2,830.330	3	8.491	2,733.750	4	10.935	-	-	-	2,733.750	4	10.935
<i>Subtotal: Non Recurring Cost</i>	-	-	147.061	-	-	2.715	-	-	8.491	-	-	10.935	-	-	-	-	-	10.935
<i>Subtotal: Hardware Cost</i>	-	-	162.793	-	-	19.312	-	-	8.491	-	-	12.635	-	-	-	-	-	12.635
Package Fielding Cost																		

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98	P-1 Line Item Number / Title: 2723B88801 / BCT Emerging Technologies	Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2020			FY 2021			FY 2022 Base			FY 2022 OCO			FY 2022 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
EWTV Fielding	283.000	1	0.283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VROD/VMAX Fielding ^(t)	2,035.000	1	2.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EWPMT Thick Client Fielding	1,445.000	1	1.445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3.763	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
EWTV Services	3,907.000	1	3.907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VROD/VMAX Services ^(t)	747.000	1	0.747	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EWPMT Services	438.000	1	0.438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prophet Services	562.500	4	2.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	7.342	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Package Fielding Cost</i>	-	-	11.105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	7,437.000	1	7.437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	7.437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	1.200
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	1.200
Gross/Weapon System Cost	-	-	181.335	-	-	19.312	-	-	8.491	-	-	13.835	-	-	-	-	-	13.835

Secondary Distribution		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	19.312	8.491	13.835	-	13.835
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	19.312	8.491	13.835	-	13.835

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98	P-1 Line Item Number / Title: 2723B88801 / BCT Emerging Technologies	Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
VROD/VMAX		2018	Other Government Agency / TBD	MIPR	I2WD/APG Maryland	Dec 2017	May 2018	29	0.000	N		
Common Hypersonic Glide Body (CHGB) COTS, GOTS and (NDI)		2020	Various / TBD	MIPR	Various	Oct 2020	Sep 2022	1	8,764.988	N		
Long Range Hypersonic Weapon Integration COTS, GOTS and (NDI)		2020	Various / TBD	MIPR	Various	Oct 2020	Sep 2022	1	2,847.941	N		
All Up Round and Canister (AUR +C) COTS, GOTS and (NDI)		2020	Various / TBD	MIPR	Various	Oct 2020	Sep 2022	1	4,984.072	N		
VROD/VMAX Fielding		2018	Other Government Agency / TBD	MIPR	I2WD/APG Maryland	May 2018	May 2018	1	2,035.000	N		
VROD/VMAX Services		2018	Other Government Agency / TBD	MIPR	I2WD/APG Maryland	May 2018	May 2018	1	0.000	N		

Remarks:
These hardware/software products will be acquired either through existing Army contracts and/or production options.

Note for other system:
Quantities to be determined based on operational needs of the recipient units in the Pacific and European theaters.