

UNCLASSIFIED

**Department of Defense  
Fiscal Year (FY) 2023 Budget Estimates**

April 2022



**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 2023 • Procurement

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## Cost Statement

The following Justification Books were prepared at a cost of \$474,495.00: 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, \$8,457,509,000.00 to remain available for obligation until September 30, 2025.

Fiscal Year (FY) 2023 Overseas Operations Costs funding accounted for in the Base budget include:

Combat or direct combat support expenses that discontinue once combat operations end at major contingency locations  
\$31,832,000.00.

In-theater and in-CONUS expenses that remain after combat operations cease and have been previously funded in OCO  
\$254,336,000.00.

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Appropriation: **Other Procurement, Army**

<u>Budget Activity</u>	<u>FY 2021</u> <u>(Base + OCO)</u>	<u>FY 2022</u> <u>Enactment</u>	<u>FY 2023</u> <u>Request</u>
01. Tactical and Support Vehicles	1,696,785	1,443,049	1,125,195
02. Communications and Electronics Equipment	5,282,515	5,697,762	5,688,481
03. Other Support Equipment	2,534,635	2,303,441	1,633,370
04. Spare and Repair Parts	9,950	9,272	10,463
<b>Total Other Procurement, Army</b>	<b>9,523,885</b>	<b>9,453,524</b>	<b>8,457,509</b>

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Enactment		FY 2023 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
<b><u>Budget Activity 01: Tactical and Support Vehicles</u></b>									
<b>Tactical Vehicles</b>									
1	Tactical Trailers/Dolly Sets	A		9,653					U
2	Semitrailers, Flatbed:	A		22,460		11,239		23,021	U
3	Semitrailers, tankers	A		13,666		17,985		21,869	U
4	HI MOB MULTI-PURP WHLD VEH (HMMWV)			126,747		120,706		6,121	U
5	Ground Mobility Vehicles (GMV)	A		29,247		44,807		34,316	U
6	ARNG HMMWV Modernization Program	A		100,000		100,000			U
7	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICL	A		884,414		574,562		703,110	U
8	TRUCK, DUMP, 20T (CCE)			29,368		29,382			U
9	Family Of Medium Tactical Veh (FMTV)			184,508		61,885		74,086	U
10	Family of Cold Weather All-Terrain Vehicle (C	A		9,249		16,450		23,772	U
11	Firetrucks & Associated Firefighting Equip			27,687		26,256		39,950	U
12	Family Of Heavy Tactical Vehicles (FHTV)			6,500		173,282		96,112	U
13	PLS ESP	A		33,146		16,943		54,674	U
14	Hvy Expanded Mobile Tactical Truck Ext Serv			92,619					U
15	Tactical Wheeled Vehicle Protection Kits	A		63,563		17,957			U
16	Modification Of In Svc Equip			62,712		212,349		31,819	U
<b>Non-Tactical Vehicles</b>									
17	Passenger Carrying Vehicles			1,246				1,286	U
18	NonTactical Vehicles, Other	A				19,246		15,059	U
<b>Total Tactical and Support Vehicles</b>				<b>1,696,785</b>		<b>1,443,049</b>		<b>1,125,195</b>	



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Appropriation: 2035A Other Procurement, Army

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
<b><u>Budget Activity 02: Communications and Electronics Equipment</u></b>									
<b>Comm - Joint Communications</b>									
19	Signal Modernization Program	A		151,179		140,036		179,853	U
20	Tactical Network Technology Mod In Svc	A		347,782		433,124		382,007	U
21	SITUATION INFORMATION TRANSPORT	A		63,396					U
22	Disaster Incident Response Comms Terminal (DI	A				3,863		4,066	U
23	JCSE Equipment (USRDECOM)			5,170		4,845		5,505	U
<b>Comm - Satellite Communications</b>									
24	Spectrum METSAT	A		6,050					U
25	SPECTRUM CBRS			200					U
26	Defense Enterprise Wideband Satcom Systems			101,498		90,928		107,228	U
27	Transportable Tactical Command Communications	A		110,450		132,050		119,259	U
28	SHF Term			13,173		38,129		23,173	U
29	Assured Positioning, Navigation and Timing	A		140,953		112,791		184,911	U
30	EHF SATELLITE COMMUNICATION							5,853	U
31	SMART-T (SPACE)			8,900		15,407		4,916	U
32	Global Brdcst Svc - GBS			8,510		2,763		3,179	U
33	Spectrum Microwave			9,936					U
<b>Comm - C3 System</b>									
34	COE Tactical Server Infrastructure (TSI)	A		86,198		99,858		94,287	U
<b>Comm - Combat Communications</b>									
35	Handheld Manpack Small Form Fit (HMS)	A		547,148		724,099		728,366	U

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Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Enactment		FY 2023 Request		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
36	Radio Terminal Set, MIDS LVT(2)	A		8,237					U	
37	ARMY LINK 16 SYSTEMS	A			17,749		47,581		U	
38	Tactical Communications And Protective System	A			10,000				U	
39	Unified Command Suite	A		19,579	17,984		20,178		U	
40	COTS Communications Equipment	A		108,556	185,302		320,595		U	
41	Family of Med Comm for Combat Casualty Care	A		19,570	15,957		7,621		U	
42	Army Communications & Electronics	A		51,480	79,441		59,705		U	
<b>Comm - Intelligence Comm</b>										
43	CI AUTOMATION ARCHITECTURE-INTEL	A		16,578	13,317		13,891		U	
44	Defense Military Deception Initiative	A		5,624	5,207				U	
45	MULTI-DOMAIN INTELLIGENCE	A			20,095		20,637		U	
<b>Information Security</b>										
46	Information System Security Program-ISSP	A		4,596	987		1,019		U	
47	Communications Security (COMSEC)	A		159,400	126,273		125,692		U	
48	Defensive CYBER Operations	A		41,153	27,389				U	
49	Insider Threat Program - Unit Activity Monito	A		1,760			1,796		U	
50	SIO CAPABILITY	A			17,303				U	
51	BIOMETRIC ENABLING CAPABILITY (BEC)	A			914		816		U	
52	ARCYBER DEFENSIVE CYBER OPERATIONS	A					18,239		U	
53	Items Less Than \$5M (Info Security)	A		260					U	
<b>Comm - Long Haul Communications</b>										
54	Base Support Communications			30,761	9,209		10,262		U	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
<b>Comm - Base Communications</b>									
55	Information Systems			162,973		214,026		116,522	U
56	Emergency Management Modernization Program	A				4,875		5,036	U
57	Home Station Mission Command Centers (HSMCC)	A		15,227					U
58	Joint Information Environment (JIE)	A		3,177					U
59	Installation Info Infrastructure Mod Program	A		343,724		218,001		214,806	U
<b>Elect Equip - Tact Int Rel Act (TIARA)</b>									
62	TITAN	A						84,821	U
63	JTT/CIBS-M	B		5,304		5,463		2,352	U
64	TERRESTRIAL LAYER SYSTEMS (TLS)			8,081		39,240		88,915	U
65	DRUG INTERDICTION PROGRAM (DIP) (TIARA)			6,596					U
66	DCGS-A-INTEL			197,595		92,613		76,771	U
67	JOINT TACTICAL GROUND STATION (JTAGS)-INTEL	A				8,088		349	U
68	TROJAN	B		19,359		30,828		20,562	U
69	MOD OF IN-SVC EQUIP (INTEL SPT)			127,504		51,039		30,424	U
70	BIOMETRIC TACTICAL COLLECTION DEVICES	A		5,009		11,097		2,269	U
<b>Elect Equip - Electronic Warfare (EW)</b>									
71	Lightweight Counter Mortar Radar	A		5,332					U
72	EW Planning & Management Tools (EWPMT)	A		7,849		783			U
73	AIR VIGILANCE (AV)	A		8,160		13,486		5,688	U
74	Multi-Function Electronic Warfare (MFEW) Syst	A		8,669				3,060	U
75	FAMILY OF PERSISTENT SURVEILLANCE CAP.	A		42,043		14,414			U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost		
76	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES			40,913		19,111		19,519	U	
77	CI MODERNIZATION	A		300		421		437	U	
<b>Elect Equip - Tactical Surv. (Tac Surv)</b>										
78	Sentinel Mods			92,380		47,642		166,736	U	
79	Night Vision Devices	A		867,823		667,377		424,253	U	
80	Small Tactical Optical Rifle Mounted MLRF			7,715		21,103		11,357	U	
81	Indirect Fire Protection Family Of Systems	A		61,069		6,153			U	
82	FAMILY OF WEAPON SIGHTS (FWS)	A		86,389		184,145		202,258	U	
83	ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SE					2,371		5,116	U	
84	Forward Looking Infrared (IFLIR)	A				11,929		37,914	U	
85	COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)	A				434,058		326,364	U	
86	JOINT BATTLE COMMAND - PLATFORM (JBC-P)	A		243,850		253,661		186,515	U	
87	JOINT EFFECTS TARGETING SYSTEM (JETS)			54,206		62,082		10,304	U	
88	Computer Ballistics: LHMC XM32	A		7,789		2,811		3,038	U	
89	Mortar Fire Control System			17,472		17,236		4,879	U	
90	Mortar Fire Control Systems Modifications			7,292		2,830		4,370	U	
91	Counterfire Radars			71,404		26,694		162,208	U	
<b>Elect Equip - Tactical C2 Systems</b>										
92	Army Command Post Integrated Infrastructure (	A		23,000		49,410		60,455	U	
93	Fire Support C2 Family	A		9,390		9,853		9,676	U	
94	AIR & MSL Defense Planning & Control Sys			62,517		67,193		72,619	U	
95	IAMD Battle Command System	A		198,587		296,872		438,967	U	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost		
96	Life Cycle Software Support (LCSS)			2,495		5,182		4,586	U	
97	Network Management Initialization and Service	A		18,651		31,349		37,199	U	
98	Global Combat Support System-Army (GCSS-A)	A		2,792		11,271		4,102	U	
99	Integrated Personnel and Pay System-Army (IPP)	A		9,071		16,077		6,926	U	
100	Reconnaissance and Surveying Instrument Set	A		12,117					U	
101	MOD of In-Svc Equipment (ENFIRE)	A		14,004		14,560		4,076	U	
<b>Elect Equip - Automation</b>										
102	Army Training Modernization			19,262		12,333		8,033	U	
103	Automated Data Processing Equip			140,971		130,924		96,554	U	
104	ACCESSIONS INFORMATION ENVIRONMENT (AIE)					39,635		43,767	U	
105	General Fund Enterprise Business Systems Fam	A		4,448		1,452		97	U	
106	High Perf Computing Mod Pgm (HPCMP)	A		88,405		69,943		73,655	U	
107	Contract Writing System	A		2,459		14,957		17,701	U	
108	CSS Communications	A		51,129		73,110		88,141	U	
109	Reserve Component Automation Sys (RCAS)			14,848		12,905			U	
<b>Elect Equip - Audio Visual Sys (A/V)</b>										
110	Items Less Than \$5M (Surveying Equipment)			4,995					U	
<b>Elect Equip - Support</b>										
111	BCT Emerging Technologies	A		8,491		13,835		12,853	U	
999	Classified Programs			1,582		18,304		1,596	U	
<b>Total Communications and Electronics Equipment</b>				<b>5,282,515</b>		<b>5,697,762</b>		<b>5,688,481</b>		

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
<b><u>Budget Activity 03: Other Support Equipment</u></b>									
<b>Chemical Defensive Equipment</b>									
112	Family Of Non-Lethal Equipment (FNLE)	A		32,480		27,000			U
113	Base Defense Systems (BDS)	A		98,960		14,220		47,960	U
114	CBRN Defense	A		47,343		55,632		56,129	U
115	Smoke & Obscurant Family: SOF (Non AAO Item)			13,995					U
<b>Bridging Equipment</b>									
116	Tactical Bridging			60,945		9,625		13,785	U
117	Tactical Bridge, Float-Ribbon			72,074		74,182			U
118	BRIDGE SUPPLEMENTAL SET	A		25,994		19,867		6,774	U
119	Common Bridge Transporter (CBT) Recap	A		55,032		109,796		10,379	U
<b>Engineer (Non-Construction) Equipment</b>									
120	Handheld Standoff Minefield Detection Sys-HST	B		5,570		5,628			U
121	Grnd Standoff Mine Detectn Sysm (GSTAMIDS)			2,497					U
122	HUSKY MOUNTED DETECTION SYSTEM (HMDS)	A		95,608		26,823			U
123	EOD Robotics Systems Recapitalization	A		36,584					U
124	Robotics and Applique Systems			166,144		119,233		52,340	U
125	Render Safe Sets kits Outfits	A		145,313		84,000			U
126	Family of Boats and Motors	A		6,347					U
<b>Combat Service Support Equipment</b>									
127	Heaters and ECU's	A		8,570		6,116		7,672	U
128	Soldier Enhancement					1,286			U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost		
129	Personnel Recovery Support System (PRSS)	A		8,346		9,741		4,691	U	
130	Ground Soldier System	A		137,481		150,244		124,953	U	
131	Mobile Soldier Power	A		34,297		17,815		15,933	U	
132	Force Provider	A		64,216		38,860			U	
133	Field Feeding Equipment			2,279		12,321			U	
134	Cargo Aerial Del & Personnel Parachute System			58,935		37,040		42,444	U	
135	Family Of Engr Combat and Construction Sets	A		27,286		36,163			U	
136	Items Less Than \$5M (Eng Spt)	A		8,014				4,155	U	
<b>Petroleum Equipment</b>										
137	QUALITY SURVEILLANCE EQUIPMENT	A				744		2,845	U	
138	Distribution Systems, Petroleum & Water			72,348		72,296		26,433	U	
<b>Medical Equipment</b>										
139	Combat Support Medical			97,975		132,145		75,606	U	
<b>Maintenance Equipment</b>										
140	Mobile Maintenance Equipment Systems	A		168,106		134,756		3,936	U	
141	Items Less Than \$5.0M (Maint Eq)	A		5,570					U	
<b>Construction Equipment</b>										
142	Grader, Road Mtzd, Hvy, 6X4 (CCE)	A		5,406					U	
143	Scrapers, Earthmoving	A		4,188					U	
144	Loaders			6,256					U	
145	Hydraulic Excavator	B		10,277					U	
146	Tractor, Full Tracked	A		14,598					U	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost		
147	All Terrain Cranes	A		70,560		112,784		31,341	U	
148	High Mobility Engineer Excavator (HMEE)	A		3,703					U	
149	Family of Diver Support Equipment	A						3,256	U	
150	Const Equip ESP			9,582		18,694		9,104	U	
<b>Rail Float Containerization Equipment</b>										
151	Army Watercraft Esp	A		44,660		58,009		47,889	U	
152	Maneuver Support Vessel (MSV)	B		66,586		76,660		104,676	U	
153	Items Less Than \$5.0M (Float/Rail)	A		1,844				10,131	U	
<b>Generators</b>										
154	Generators And Associated Equip	A		101,239		105,892		54,400	U	
155	Tactical Electric Power Recapitalization	A		22,216		10,500		8,293	U	
<b>Material Handling Equipment</b>										
156	Family Of Forklifts	A		17,995		13,325		8,819	U	
<b>Training Equipment</b>										
157	Combat Training Centers Support			87,580		94,965		48,046	U	
158	Training Devices, Nonsystem			164,814		174,644		201,966	U	
159	Synthetic Training Environment (STE)			13,063		92,266		255,670	U	
160	Gaming Technology In Support of Army Training			1,950		11,642		9,546	U	
<b>Test Measure and Dig Equipment (TMD)</b>										
161	Calibration Sets Equipment			2,511					U	
162	Integrated Family Of Test Equipment (IFTE)			77,214		42,934		36,514	U	
163	Test Equipment Modernization (TEMOD)			14,941					U	



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			Quantity	Cost	Quantity	Cost	Quantity	Cost		
164	Test Equipment Modernization (TEMOD)	A			24,304		32,734		U	
<b>Other Support Equipment</b>										
165	Rapid Equipping Soldier Support Equipment	A		77						U
166	Physical Security Systems (OPA3)	A		89,219	91,930		102,556			U
167	Base Level Common Equipment			15,650	27,823		31,417			U
168	Modification Of In-Svc Equipment (OPA-3)			72,725	42,392		24,047			U
169	BUILDING, PRE-FAB, RELOCATABLE	A		18,000	32,227		32,151			U
170	Special Equipment for Test and Evaluation	B		39,436	76,917		84,779			U
171	Closed Account Adjustments			36						U
<b>Total Other Support Equipment</b>				<b>2,534,635</b>	<b>2,303,441</b>		<b>1,633,370</b>			
<b><u>Budget Activity 04: Spare and Repair Parts</u></b>										
<b>OPA2</b>										
172	INITIAL SPARES - C&E			9,950	9,272		10,463			U
<b>Total Spare and Repair Parts</b>				<b>9,950</b>	<b>9,272</b>		<b>10,463</b>			
<b>Total Other Procurement, Army</b>				<b>9,523,885</b>	<b>9,453,524</b>		<b>8,457,509</b>			



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<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
Family of Med Comm for Combat Casualty Care	9885MA8000	41	02	32.....	Volume 2 - 176
Fire Support C2 Family	9060B28501	93	02	89.....	Volume 2 - 453
Forward Looking Infrared (IFLIR)	0214KA4510	84	02	86.....	Volume 2 - 402
General Fund Enterprise Business Systems Fam	3004B55500	105	02	92.....	Volume 2 - 542
Global Brdcst Svc - GBS	9915BC4120	32	02	18.....	Volume 2 - 95
Global Combat Support System-Army (GCSS-A)	9875W30001	98	02	89.....	Volume 2 - 487
Handheld Manpack Small Form Fit (HMS)	6458B95004	35	02	32.....	Volume 2 - 105
High Perf Computing Mod Pgm (HPCMP)	3005B66501	106	02	92.....	Volume 2 - 544
Home Station Mission Command Centers (HSMCC)	9674B33000	57	02	73.....	Volume 2 - 248
IAMD Battle Command System	9280BZ5075	95	02	89.....	Volume 2 - 469
Indirect Fire Protection Family Of Systems	0173BZ0501	81	02	86.....	Volume 2 - 375
Information System Security Program-ISSP	0122TA0600	46	02	64.....	Volume 2 - 195
Information Systems	9200BB8650	55	02	73.....	Volume 2 - 228
Insider Threat Program - Unit Activity Monitoring	0131B89000	49	02	64.....	Volume 2 - 211
Installation Info Infrastructure Mod Program	9700BU0500	59	02	73.....	Volume 2 - 251
Integrated Personnel and Pay System-Army (IPPS-A)	9921B66701	99	02	89.....	Volume 2 - 489
Items Less Than \$5M (Info Security)	9091B85010	53	02	64.....	Volume 2 - 221
Items Less Than \$5M (Surveying Equipment)	9998BL5300	110	02	95.....	Volume 2 - 566
JCSE Equipment (USRDECOM)	2930BB5777	23	02	12.....	Volume 2 - 25
JOINT BATTLE COMMAND - PLATFORM (JBC-P)	0245W61990	86	02	86.....	Volume 2 - 410

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<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
JOINT EFFECTS TARGETING SYSTEM (JETS)	0254K32101	87	02	86.....	Volume 2 - 420
JOINT TACTICAL GROUND STATION (JTAGS)-INTEL	9692BZ8401	67	02	80.....	Volume 2 - 294
JTT/CIBS-M	9522V29600	63	02	80.....	Volume 2 - 277
Joint Information Environment (JIE)	9683B80000	58	02	73.....	Volume 2 - 250
Life Cycle Software Support (LCSS)	9442BD3955	96	02	89.....	Volume 2 - 478
Lightweight Counter Mortar Radar	8387B05201	71	02	83.....	Volume 2 - 316
MOD OF IN-SVC EQUIP (INTEL SPT)	9912BZ9750	69	02	80.....	Volume 2 - 305
MOD of In-Svc Equipment (ENFIRE)	9971B99901	101	02	89.....	Volume 2 - 497
MULTI-DOMAIN INTELLIGENCE	0287BZ6100	45	02	36.....	Volume 2 - 191
Mortar Fire Control System	7500K99300	89	02	86.....	Volume 2 - 427
Mortar Fire Control Systems Modifications	7563AD9300	90	02	86.....	Volume 2 - 429
Multi-Function Electronic Warfare (MFEW) Systems	8491B05000	74	02	83.....	Volume 2 - 324
Network Management Initialization and Services	9705BA9301	97	02	89.....	Volume 2 - 480
Night Vision Devices	0140KA3500	79	02	86.....	Volume 2 - 346
Radio Terminal Set, MIDS LVT(2)	6948B22603	36	02	32.....	Volume 2 - 124
Reconnaissance and Surveying Instrument Set	9966BZ9966	100	02	89.....	Volume 2 - 495
Reserve Component Automation Sys (RCAS)	9956BE4167	109	02	92.....	Volume 2 - 564
SHF Term	9810BA9350	28	02	18.....	Volume 2 - 58
SIO CAPABILITY	0150B68000	50	02	64.....	Volume 2 - 213
SITUATION INFORMATION TRANSPORT	1983BW7200	21	02	12.....	Volume 2 - 22

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<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
SMART-T (SPACE)	9910BC4002	31	02	18.....	Volume 2 - 93
SPECTRUM CBRS	2939B09600	25	02	18.....	Volume 2 - 31
Sentinel Mods	0125WK5057	78	02	86.....	Volume 2 - 331
Signal Modernization Program	1981B00010	19	02	12.....	Volume 2 - 1
Small Tactical Optical Rifle Mounted MLRF	0155K35110	80	02	86.....	Volume 2 - 366
Spectrum METSAT	2936B09800	24	02	18.....	Volume 2 - 30
Spectrum Microwave	9923B09900	33	02	18.....	Volume 2 - 97
TERRESTRIAL LAYER SYSTEMS (TLS)	9546B97600	64	02	80.....	Volume 2 - 279
TITAN	9398K57300	62	02	80.....	Volume 2 - 273
TROJAN	9704BA0326	68	02	80.....	Volume 2 - 295
Tactical Communications And Protective System	8562B55510	38	02	32.....	Volume 2 - 134
Tactical Network Technology Mod In Svc	1982B07100	20	02	12.....	Volume 2 - 16
Transportable Tactical Command Communications (T2C	2956B85800	27	02	18.....	Volume 2 - 46
Unified Command Suite	8563B58601	39	02	32.....	Volume 2 - 136

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

**Lookup Matrix by Model**

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

<b>Model:</b> AN/TPQ-53		
<b>P-3a Individual Modifications</b>		
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
<b>Exhibit P-3a</b>										
Sentinel Mods	774.488	92.380	47.642	166.736	-	166.736	165.199	234.255	234.248	235.052
AN/TPQ-53 MOD-IN-SERVICE LINE	-	-	26.694	70.975	-	70.975	101.825	119.283	120.089	120.035
<b>Totals (Total Obligation Authority)</b>										
<b>Total Obligation Authority</b>	<b>774.488</b>	<b>92.380</b>	<b>74.336</b>	<b>237.711</b>	<b>0.000</b>	<b>237.711</b>	<b>267.024</b>	<b>353.538</b>	<b>354.337</b>	<b>355.087</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	66	339	330	1,010	-	1,010	978	1,141	1,013	847	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	656.432	151.179	140.036	179.853	-	179.853	175.020	213.471	214.078	214.030	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	656.432	151.179	140.036	179.853	-	179.853	175.020	213.471	214.078	214.030	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>656.432</b>	<b>151.179</b>	<b>140.036</b>	<b>179.853</b>	<b>-</b>	<b>179.853</b>	<b>175.020</b>	<b>213.471</b>	<b>214.078</b>	<b>214.030</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	9,945.939	445.956	424.352	178.072	-	178.072	178.957	187.091	211.331	252.692	Continuing	Continuing

**Description:**

This funding line is directly aligned to the Army Network Modernization priority.

This funding line also supports the Army Network Modernization Strategy, LOE 1: Unified Network and LOE 3: Interoperability.

SIGMOD funding line procures additional and enhanced capabilities to modernize tactical network components by reducing Size, Weight and Power (SWaP) and providing increasingly expeditionary communications, leveraging the current Tactical Network found in Expeditionary Signal Battalions (ESB), Expeditionary Signal Battalion - Enhanced (ESB-E) conversions, Maneuver and Multi-Functional Brigades, and Division and Corps Headquarters. SIGMOD capabilities augment and increase capabilities to units equipped with the Tactical Network, allowing them to support the full spectrum of operations with Command Post Secure Wireless (Cellular & WIFI), Commercial, Coalition, and Top Secret networking enclaves. SIGMOD will provide redundant communications in satellite denied environments by providing improved Terrestrial Transmission Line of Sight (TRILOS) and beyond line of sight Troposcatter Transmission (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 theater's 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) internodal broadband Radios, Voice/Radio Bridging, and Command Post Communications capabilities. This includes Cyber Security Updates and Secure But Unclassified (SBU) and Colorless Core transport Domains for improved interoperability, usability, flexibility, and readiness as well as smaller more expeditionary technology. Provides LOS and non-LOS Multiple-in Multiple-out (MIMO) capable radios with Point to Point, Point to Multipoint and Mesh networking topologies for platform integrated and dismounted formations. Supports On The Move (OTM) and At The Quick Halt (ATQH) deployment and integrated protected waveforms integration for pathway to Low Probability to Interception (LPI) and Low Probability of Detection (LPD). Also provides wireless coverage for a squad (5-10 soldiers) and provides Mobile Broadband networking capabilities.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	187	232	841	-	841	736	733	561	577
	Total Obligation Authority	96.968	93.289	116.095	-	116.095	85.739	73.649	57.088	86.619
ANG	Quantity	121	65	155	-	155	236	312	284	93

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications					<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0604818A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	37.724	32.810	56.254	-	56.254	85.043	96.916	99.523	68.800
AR	Quantity	31	33	14	-	14	6	96	168	177
	Total Obligation Authority	16.487	13.937	7.504	-	7.504	4.238	42.906	57.467	58.611
<b>Total:</b>	<b>Quantity</b>	<b>339</b>	<b>330</b>	<b>1,010</b>	<b>-</b>	<b>1,010</b>	<b>978</b>	<b>1,141</b>	<b>1,013</b>	<b>847</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>151.179</b>	<b>140.036</b>	<b>179.853</b>	<b>-</b>	<b>179.853</b>	<b>175.020</b>	<b>213.471</b>	<b>214.078</b>	<b>214.030</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			66 / 656.432	339 / 151.179	330 / 140.036	1,010 / 179.853	- / -	1,010 / 179.853
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>66 / 656.432</b>	<b>339 / 151.179</b>	<b>330 / 140.036</b>	<b>1,010 / 179.853</b>	<b>- / -</b>	<b>1,010 / 179.853</b>

\*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 2023 Base procurement dollars in the amount of \$175.304 million supports procurement of the following SIGMOD Capabilities/Systems.

(A) 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. There are four variants in the CCE program: CCEv2 (AN/TYQ-167(V)2), CCEv4 (AN/TYQ-167(V)4), NETOPS, and CCEv5 - CS Hub. 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. The NETOPS provides Ability to monitor health and status of a MPE Coalition Network (CN) via the NETOPS Core stack. The CCEv5 - CS Hub enables transport and NetOps capabilities, while the Tactical Server Infrastructure (TSIv2) hosts critical Mission Command and common services. Procures fourteen (14) CCEv2; two hundred three (203) CCEv4; eight (8) NETOPS, and three (3) CCEv5-CS Hub.

(B) Command Post Secure Wireless (Cellular and WiFi): Expands the Tactical network below battalion, using an expeditionary cellular and wireless (WiFi) network. The 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. Procures fifty-three (53) Secure Wireless systems.

(C) 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 legacy 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. Procures thirty-six (36) TROPO radio systems.

(D) Terrestrial Transmission Line of Sight (TRILOS) System: Enables broadband communications in a satellite denied environment at higher throughput than the current High Capacity Line of Sight (HCLOS) System. 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 contested environments. Provides point to point and point to multi point. Procures one hundred and sixty-five (165) TRILOS to support line of sight communications supporting the Tactical Network.

(E) Integrated Tactical Network (ITN) Silvus 4200, Silvus 4400, and Mobile Broadband Kit (MBK) supports Line-of-Sight (LOS) internodal broadband Radios, Voice/Radio Bridging, and Command Post Communications capabilities. This includes Cyber Security Updates and Secure But Unclassified (SBU) and Colorless Core transport Domains for improved interoperability, usability, flexibility, and readiness as well as smaller more expeditionary technology. Procures sixty (60) Integrated Tactical Network Silvus 4400 Radios, sixty (60) Integrated Tactical Network Silvus 4200 Radios and four hundred and eight (408) MBK.

(F) 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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications		<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604818A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>adequate bandwidth to support required Mission Command and Intelligence applications. Completion of the Enroute Mission Command (EMC) through Full Operational Capability (FOC) will shift to SigMod for FY23. EMC FOC, originally scheduled for FY22, has shifted into FY23 due to the delays in the prime vendor's overhaul schedule of the US Air Force Air Mobility Command aircraft. EMC OPA (B00015) ended in FY20 and the program will require Matrix, SETA and Software support through FOC. The Milestone Decision Authority approved this mitigation plan in June 2021.</p> <p>(G) In addition, previously fielded MCN-AE and M-Drive systems ensure that coalition militaries can share critical information and coordinate command and control during exercises, contingency operations, and battle.</p> <p>FY 2023 Base procurement dollars in the amount of \$4.549 million supports requirements for European Deterrence Initiative (EDI).</p> <p>The Transmission Systems Capability Production Document (CPD) was approved on 30 Jan 2015.</p> <p>"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."</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program	<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				66	339	330	1,010	-	1,010
Gross/Weapon System Cost (\$ in Millions)				656.432	151.179	140.036	179.853	-	179.853
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				656.432	151.179	140.036	179.853	-	179.853
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>656.432</b>	<b>151.179</b>	<b>140.036</b>	<b>179.853</b>	<b>-</b>	<b>179.853</b>
<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)				9,945.939	445.956	424.352	178.072	-	178.072

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(f)</sup>	74.389	208	15.473	72.556	18	1.306	-	-	-	-	-	-	-	-	-	-	-	-
CCE V2 HW-Equipment <sup>(f)</sup>	219.231	108	23.677	-	-	-	173.000	12	2.076	176.429	14	2.470	-	-	-	176.429	14	2.470
CCE V4 HW-Equipment <sup>(f)</sup>	-	-	-	-	-	-	119.398	133	15.880	119.966	203	24.353	-	-	-	119.966	203	24.353
NETOPS HW-Equipment	-	-	-	-	-	-	46.600	5	0.233	47.500	8	0.380	-	-	-	47.500	8	0.380
CCE V5 - CS Hub	-	-	-	-	-	-	-	-	-	121.667	3	0.365	-	-	-	121.667	3	0.365
Cellular Solution HW - Equipment	880.000	30	26.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secure Wireless (WiFi) HW - Equipment <sup>(f)</sup>	245.049	102	24.995	149.963	54	8.098	152.933	60	9.176	155.981	53	8.267	-	-	-	155.981	53	8.267
TROPO HW-Equipment <sup>(f)</sup>	385.611	18	6.941	-	-	-	419.833	18	7.557	430.583	36	15.501	-	-	-	430.583	36	15.501
TRILOS HW - Equipment <sup>(f)</sup>	177.191	450	79.736	190.070	243	46.187	175.970	132	23.228	181.867	165	30.008	-	-	-	181.867	165	30.008
M-Drive	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	-	-	-	-
Integrated Tactical Network (ITN) Silvus - 4200 <sup>(f)</sup>	-	-	-	15.543	46	0.715	16.500	6	0.099	16.783	60	1.007	-	-	-	16.783	60	1.007

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12						<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program						<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Integrated Tactical Network (ITN) Silvus - 4400 <sup>(†)</sup>	-	-	-	23.587	46	1.085	24.000	6	0.144	24.417	60	1.465	-	-	-	24.417	60	1.465
Integrated Tactical Network (ITN) - MBK <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	4.321	408	1.763	-	-	-	4.321	408	1.763
Engineering / Integration / Tech Services Support	-	-	54.560	-	-	2.819	-	-	3.376	-	-	4.207	-	-	-	-	-	4.207
Technical Refresh	-	-	0.125	-	-	1.191	-	-	-	-	-	0.365	-	-	-	-	-	0.365
Non- Recurring Engineering	-	-	37.048	-	-	-	-	-	-	-	-	0.296	-	-	-	-	-	0.296
System Test / Validation	-	-	11.114	-	-	3.663	-	-	0.716	-	-	0.212	-	-	-	-	-	0.212
Data	-	-	7.653	-	-	1.072	-	-	3.802	-	-	2.914	-	-	-	-	-	2.914
Spares	-	-	24.253	-	-	6.807	-	-	8.071	-	-	14.163	-	-	-	-	-	14.163
Training	-	-	31.618	-	-	5.412	-	-	7.636	-	-	6.318	-	-	-	-	-	6.318
Fielding	-	-	23.753	-	-	4.685	-	-	3.989	-	-	2.657	-	-	-	-	-	2.657
Software	-	-	29.958	-	-	15.567	-	-	31.855	-	-	36.377	-	-	-	-	-	36.377
SBU VSAT and gateway (SFAB)	-	-	189.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Tactical Network VSAT (ITN)	-	-	25.049	-	-	34.263	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Recurring Cost</b>	-	-	<b>611.353</b>	-	-	<b>132.870</b>	-	-	<b>120.338</b>	-	-	<b>153.088</b>	-	-	-	-	-	<b>153.088</b>
<b>Non Recurring Cost</b>																		
COVID 19 unused travel funds excess	-	-	0.192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TROPO Post IOT&E System Refurbishment	-	-	-	-	-	-	-	-	-	-	-	6.825	-	-	-	-	-	6.825
EMC Engineering and Programmatic Support	-	-	-	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	1.500
<b>Subtotal: Non Recurring Cost</b>	-	-	<b>0.192</b>	-	-	-	-	-	-	-	-	<b>8.325</b>	-	-	-	-	-	<b>8.325</b>
<b>Subtotal: Flyaway Cost</b>	-	-	<b>611.545</b>	-	-	<b>132.870</b>	-	-	<b>120.338</b>	-	-	<b>161.413</b>	-	-	-	-	-	<b>161.413</b>
<b>Support - Program Management Cost</b>																		
Government Management	-	-	24.259	-	-	11.669	-	-	12.541	-	-	12.214	-	-	-	-	-	12.214
Contractor Management	-	-	20.628	-	-	6.640	-	-	7.157	-	-	6.226	-	-	-	-	-	6.226

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12		<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program
		<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 - Program Management Cost</i>	-	-	44.887	-	-	18.309	-	-	19.698	-	-	18.440	-	-	-	-	-	18.440
<b>Gross/Weapon System Cost</b>	9,945.939	66	656.432	445.956	339	151.179	424.352	330	140.036	178.072	1,010	179.853	-	-	-	178.072	1,010	179.853

**Remarks:**

Commercial Coalition Equipment (CCE), NetOps, Secure Wireless, TROPO, TRILOS, ITN Silvus: Unit Cost increases due to inflation.

- ITN MBK requirement transitioned to NetMod in FY23, previously funded by PEO Soldier.
- Engineering Integration: FY21/22 ITN costs were covered by PEO Soldier/PM Tactical Radios. FY23 and out is SigMod requirement funding engineering support for capability set integration.
- Tech Refresh: FY23 costs intended to fund CCEV2 HW upgrades.
- Non-Recurring Engineering: FY21/22 ITN costs were covered by PEO Soldier/PM Tactical Radios. FY23 and out is SigMod ITN requirement funding engineering changes for capability sets.
- System/Test/Validation: FY23 decrease from FY22 due to decreased requirement of TRILOS test asset equipment.
- Spares: Increase in spares is due to the program office beginning procurement of TROPO spares in FY23. TRILOS requires an increased procurement of spares to maintain the supply support transition to Tobyhanna in FY24.
- Software: SW costs include PDSS and licenses. Cost increase is due to increased number of software licenses driven by increase in overall system quantity. In addition, SW cost includes SW maintenance for MCN-AE MEG and SIGMOD ITN requirement (these costs were funded by PEO Soldier in FY21/22).
- Gov't management is for Matrix support from other organizations, travel, and PM.
- EMC Engineering and Programmatic Support: Addition of FY23 costs are to supplement the EMC program as it achieves FOC. This program was previously funded out of B00015 funding line.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	187	232	841	-	841
	Total Obligation Authority	96.968	93.289	116.095	-	116.095
ANG	Quantity	121	65	155	-	155
	Total Obligation Authority	37.724	32.810	56.254	-	56.254
AR	Quantity	31	33	14	-	14
	Total Obligation Authority	16.487	13.937	7.504	-	7.504
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>339</b>	<b>330</b>	<b>1,010</b>	<b>-</b>	<b>1,010</b>
	<b>Total Obligation Authority</b>	<b>151.179</b>	<b>140.036</b>	<b>179.853</b>	<b>-</b>	<b>179.853</b>

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Army</b>								<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12			<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program					<b>Item Number / Title [DODIC]:</b> 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	72.556	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		2022	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2022	May 2022	12	173.000	Y		
CCE V2 HW-Equipment		2023	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2023	May 2023	14	176.429	Y		
CCE V4 HW-Equipment <sup>(†)</sup>		2022	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2022	May 2022	133	119.398	Y		
CCE V4 HW-Equipment <sup>(†)</sup>		2023	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Oct 2022	Mar 2023	203	119.966	N		
Secure Wireless (WiFi) HW - Equipment <sup>(†)</sup>		2019	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2019	May 2019	32	248.188	Y		
Secure Wireless (WiFi) HW - Equipment <sup>(†)</sup>		2020	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2020	May 2020	40	266.575	Y		
Secure Wireless (WiFi) HW - Equipment <sup>(†)</sup>		2021	GDMS CHS IV / Taunton, MA	C / IDDQ	Aberdeen Proving Ground, MD	Jan 2021	May 2021	54	149.963	Y		
Secure Wireless (WiFi) HW - Equipment <sup>(†)</sup>		2022	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2022	May 2022	60	152.933	Y		
Secure Wireless (WiFi) HW - Equipment <sup>(†)</sup>		2023	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2023	May 2023	53	155.981	Y		
TROPO HW-Equipment <sup>(†)</sup>		2019	Raytheon Company / Dulles , VA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2019	Nov 2019	18	385.611	Y		
TROPO HW-Equipment <sup>(†)</sup>		2022	Raytheon Company / Dulles , VA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2022	Nov 2022	18	419.833	Y		

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program	<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program
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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
TROPO HW-Equipment <sup>(†)</sup>		2023	Raytheon Company / Dulles , VA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2023	Nov 2023	36	430.583	Y		
TRILOS HW - Equipment <sup>(†)</sup>		2017	ADS / Virginia Beach, VA	C / IDIQ	Aberdeen Proving Ground, MD	Aug 2017	Jan 2018	120	179.000	Y		
TRILOS HW - Equipment <sup>(†)</sup>		2018	ADS / Virginia Beach, VA	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2018	Jan 2019	110	185.000	Y		
TRILOS HW - Equipment <sup>(†)</sup>		2019	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2019	Jan 2020	70	181.314	Y		
TRILOS HW - Equipment <sup>(†)</sup>		2020	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2020	Sep 2020	150	168.093	Y		
TRILOS HW - Equipment <sup>(†)</sup>		2021	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDDQ	Aberdeen Proving Ground, MD	Feb 2021	Sep 2021	243	190.070	Y		
TRILOS HW - Equipment <sup>(†)</sup>		2022	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2022	Sep 2022	132	175.970	Y		
TRILOS HW - Equipment <sup>(†)</sup>		2023	Ultra - Canadian Commercial Corp / Ottawa, Canada	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2023	Sep 2023	165	181.867	Y		
Integrated Tactical Network (ITN) Silvus - 4200		2023	TBD / APG, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2023	Nov 2023	60	16.783	Y		
Integrated Tactical Network (ITN) Silvus - 4400		2023	TBD / APG, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2023	Nov 2023	60	24.417	Y		
Integrated Tactical Network (ITN) - MBK		2023	TBD / APG, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2023	Nov 2023	408	4.321	Y		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program	<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C O	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	133	0	133																							133		
	1	2023	ARMY	203	0	203																							203		
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		
	2	2023	ARMY	53	0	53																							53		
TROPO HW-Equipment																															
	3	2019	ARMY	18	0	18																							18		
	3	2022	ARMY	18	0	18																							18		
	3	2023	ARMY	36	0	36																							36		
TRILOS HW - Equipment																															
	4	2017	ARMY	120	0	120																							15		
	4	2018	ARMY	110	0	110																							110		
	5	2019	ARMY	70	0	70																							70		
	5	2020	ARMY	150	0	150																							150		
	5	2021	ARMY	243	0	243																							243		
	5	2022	ARMY	132	0	132																							132		
	5	2023	ARMY	165	0	165																							165		
							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 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program	<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program
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Cost Elements <i>(Units in Each)</i>					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	133	0	133																							133				
	1	2023	ARMY	203	0	203																							203				
Secure Wireless (WiFi) HW - Equipment																																	
Prior Years Deliveries: 30																																	
	2	2019	ARMY	32	0	32																							0				
	2	2020	ARMY	40	0	40																							15				
	2	2021	ARMY	54	0	54																							54				
	2	2022	ARMY	60	0	60																							60				
	2	2023	ARMY	53	0	53																							53				
TROPO HW-Equipment																																	
	3	2019	ARMY	18	0	18																							0				
	3	2022	ARMY	18	0	18																							18				
	3	2023	ARMY	36	0	36																							36				
TRILOS HW - Equipment																																	
	4	2017	ARMY	120	105	15	10	5																					0				
	4	2018	ARMY	110	0	110	-	-	-	10	10	10	10	10	10	15	15	15	15	5									0				
	5	2019	ARMY	70	0	70																							0				
	5	2020	ARMY	150	0	150																							140				
	5	2021	ARMY	243	0	243																							243				
	5	2022	ARMY	132	0	132																							132				
	5	2023	ARMY	165	0	165																							165				
							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 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program	<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE				
O C O	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								
CCE V4 HW-Equipment																																						
	1	2022	ARMY	133	0	133																							A -	-	-	-	14	14	14	14	14	63
	1	2023	ARMY	203	0	203																																203
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	3			0		
	2	2022	ARMY	60	0	60																							A -	-	-	-	3	4	4	5	5	39
	2	2023	ARMY	53	0	53																															53	
TROPO HW-Equipment																																						
	3	2019	ARMY	18	18	0																															0	
	3	2022	ARMY	18	0	18																								A -	-	-	-	-	-	-	18	
	3	2023	ARMY	36	0	36																															36	
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	15	15	15	15	15	15																				0	
	5	2021	ARMY	243	0	243																															0	
	5	2022	ARMY	132	0	132																															121	
	5	2023	ARMY	165	0	165																															165	
							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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<b>Exhibit P-21, Production Schedule: PB 2023 Army</b>															<b>Date: April 2022</b>														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12										<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program										<b>Item Number / Title [DODIC]:</b> 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	133	70	63	14	14	9	-	-	-	-	5															21				
	1	2023	ARMY	203	0	203	A -	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	20		3				
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				
	2	2023	ARMY	53	0	53				A -	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	3		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	2	2	2	2	2	2	2	2	2	2	2		0				
	3	2023	ARMY	36	0	36									A -	-	-	-	-	-	3	3	3	3	3	3	3	3	3				
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	243	243	0																							0				
	5	2022	ARMY	132	11	121	11	11	11	11	11	11	11	11	11	11	11	10											1				
	5	2023	ARMY	165	0	165															A -	-	-	-	-	-	-		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 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program	<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program
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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	ACCEP T P R I O R T O 1 O C T 2 0 2 4	BAL D U E A S O F 1 O C T	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
CCE V4 HW-Equipment																															
	1	2022	ARMY	133	112	21																							21		
	1	2023	ARMY	203	200	3																							3		
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	60	0																							0		
	2	2023	ARMY	53	53	0																							0		
TROPO HW-Equipment																															
	3	2019	ARMY	18	18	0																							0		
	3	2022	ARMY	18	18	0																							0		
	3	2023	ARMY	36	33	3																							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	243	243	0																							0		
	5	2022	ARMY	132	131	1																							1		
	5	2023	ARMY	165	165	0																							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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12		<b>P-1 Line Item Number / Title:</b> 1981B00010 / Signal Modernization Program
		<b>Item Number / Title [DODIC]:</b> B00010 / Signal Modernization Program

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	<b>P-1 Line Item Number / Title:</b> 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,466.084	347.782	433.124	382.007	-	382.007	381.740	375.354	376.423	376.257	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,466.084	347.782	433.124	382.007	-	382.007	381.740	375.354	376.423	376.257	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,466.084</b>	<b>347.782</b>	<b>433.124</b>	<b>382.007</b>	-	<b>382.007</b>	<b>381.740</b>	<b>375.354</b>	<b>376.423</b>	<b>376.257</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 Priority 1, LOE 1: Unified Network.

This funding line enables Joint All Domain Command and Control (JADC2) by providing network connectivity and transport for the ground domain, connecting the ground domain to the DoD Information Network (DoDIN) and enabling the Army's contribution to Joint Force Commanders. 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 At the Halt and On the Move Network Transport, 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 FY 2023, the primary focus of TNT MIS remains 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications					<b>P-1 Line Item Number / Title:</b> 1982B07100 / Tactical Network Technology Mod In Svc					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	347.782	433.124	382.007	-	382.007	381.740	375.354	376.423	376.257
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>347.782</b>	<b>433.124</b>	<b>382.007</b>	-	<b>382.007</b>	<b>381.740</b>	<b>375.354</b>	<b>376.423</b>	<b>376.257</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 1,466.084	- / 347.782	- / 433.124	- / 382.007	- / -	- / 382.007
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 1,466.084</b>	<b>- / 347.782</b>	<b>- / 433.124</b>	<b>- / 382.007</b>	<b>- / -</b>	<b>- / 382.007</b>

\*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 2023 Base procurement dollars in the amount of \$382.007 million focus on procuring and fielding At the Halt Mission Network upgrade and modernization of unsustainable/end of life commercial technology in Army units (Division, Brigade Combat Team (BCT) and Corps) and Regional Hub Nodes (RHN), and initial spares.

(a) Upgrades RHN Obsolescence 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. FY23 funding is a continuation of RHN infrastructure upgrades. These upgrades provide Combatant Commanders with an Army asset that provides all encompassing, seamless tactical global network point of presence that can be leveraged anywhere, anytime. RHNs are the foundation of today's Army network and the backbone of future network modernization initiatives. (\$19.524 million)

(b) SATCOM obsolescence procures and fields modernized Satellite Transportable Terminals (STT) at the Unit Level as well as Tactical Hub Nodes (THN) to address obsolescence at Division headquarters, with many of these systems approaching 20 years in the field. FY23 procures 70 of 768 STT and 2 of 18 THN Divisions. 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 a modernized mobile communications system to integrate, manage, and control all communications within a Division's footprint. These efforts ensure 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: \$30.335 million, THN: \$37.114 million)

(c) 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) addresses obsolescence in 20 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 FY 2023 investment modernizes end of life components in the At the Halt and On the Move communications baseline. These FY 2023 upgrades are critical to defending the network from emerging cyber threats, ensuring commanders maintain communications in contested or congested environments. (\$104.943 million)

(d) 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. This equipment provides expeditionary, modular and scalable signal capabilities for permissive and non-permissive environments and modernizes elements of Tactical Network Transport. (\$110.895 million)

(e) Commercial Broadband Efforts support 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). (\$12.500 million)

(f) Fielding, Initial Spares and Repair Parts, Post Deployment Software Support (PDSS), Contractor and Government Management, Systems Engineering and other support to Tactical Network Transport equipped units. (\$66.696 million)



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12		<b>P-1 Line Item Number / Title:</b> 1982B07100 / Tactical Network Technology Mod In Svc
		<b>Item Number / Title [DODIC]:</b> B07110 / Tactical Network Technology Mod In Svc

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,466.084	347.782	433.124	382.007	-	382.007
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,466.084	347.782	433.124	382.007	-	382.007
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,466.084</b>	<b>347.782</b>	<b>433.124</b>	<b>382.007</b>	<b>-</b>	<b>382.007</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	8.957	-	-	6.839	-	-	-	-	-	-	-	-	-	-	-	-
RHN Obsolescence	-	-	97.845	-	-	15.774	-	-	16.108	-	-	19.524	-	-	-	-	-	19.524
TNMS	-	-	8.211	-	-	1.515	-	-	-	-	-	-	-	-	-	-	-	-
Tactical PKI	-	-	0.017	-	-	1.693	-	-	-	-	-	-	-	-	-	-	-	-
SATCOM Obsolescence - STT	-	-	176.413	-	-	11.669	-	-	27.276	-	-	30.335	-	-	-	-	-	30.335
SATCOM Obsolescence - THN	-	-	10.365	-	-	10.598	-	-	-	-	-	37.114	-	-	-	-	-	37.114
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	-	-	66.798	-	-	78.840	-	-	94.117	-	-	104.943	-	-	-	-	-	104.943
Scalable Network Nodes (SNN)	-	-	149.927	-	-	69.020	-	-	130.338	-	-	110.895	-	-	-	-	-	110.895

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>													<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12						<b>P-1 Line Item Number / Title:</b> 1982B07100 / Tactical Network Technology Mod In Svc						<b>Item Number / Title [DODIC]:</b> B07110 / Tactical Network Technology Mod In Svc						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	264.859	-	-	20.194	-	-	63.794	-	-	12.067	-	-	-	-	-	12.067
Commercial Broadband	-	-	-	-	-	10.379	-	-	-	-	-	12.500	-	-	-	-	-	12.500
ABCT On the Move	-	-	71.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,054.182</i>	-	-	<i>226.521</i>	-	-	<i>331.633</i>	-	-	<i>327.378</i>	-	-	-	-	-	<i>327.378</i>
<b>Non Recurring Cost</b>																		
Engineering	-	-	52.820	-	-	14.206	-	-	17.588	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>52.820</i>	-	-	<i>14.206</i>	-	-	<i>17.588</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,107.002</i>	-	-	<i>240.727</i>	-	-	<i>349.221</i>	-	-	<i>327.378</i>	-	-	-	-	-	<i>327.378</i>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	88.098	-	-	34.739	-	-	29.448	-	-	22.013	-	-	-	-	-	22.013
<i>Subtotal: Support - Fielding Cost</i>	-	-	<i>88.098</i>	-	-	<i>34.739</i>	-	-	<i>29.448</i>	-	-	<i>22.013</i>	-	-	-	-	-	<i>22.013</i>
<b>Support - Initial Spares and Repair Parts Cost</b>																		
Initial Spares and Repair Parts	-	-	98.979	-	-	30.636	-	-	-	-	-	7.701	-	-	-	-	-	7.701
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<i>98.979</i>	-	-	<i>30.636</i>	-	-	-	-	-	<i>7.701</i>	-	-	-	-	-	<i>7.701</i>
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	55.918	-	-	14.775	-	-	27.663	-	-	7.321	-	-	-	-	-	7.321
Government Management	-	-	45.242	-	-	11.980	-	-	21.892	-	-	10.462	-	-	-	-	-	10.462
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>101.160</i>	-	-	<i>26.755</i>	-	-	<i>49.555</i>	-	-	<i>17.783</i>	-	-	-	-	-	<i>17.783</i>
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	32.883	-	-	7.249	-	-	-	-	-	7.132	-	-	-	-	-	7.132
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>32.883</i>	-	-	<i>7.249</i>	-	-	-	-	-	<i>7.132</i>	-	-	-	-	-	<i>7.132</i>
<b>Support - System Test and Evaluation Cost</b>																		
Development Test and Evaluation	-	-	3.825	-	-	2.598	-	-	4.900	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	<i>3.825</i>	-	-	<i>2.598</i>	-	-	<i>4.900</i>	-	-	-	-	-	-	-	-	-
<b>Support - Training Cost</b>																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 1982B07100 / Tactical Network Technology Mod In Svc	<b>Item Number / Title [DODIC]:</b> B07110 / Tactical Network Technology Mod In Svc
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	34.137	-	-	5.078	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	<b>34.137</b>	-	-	<b>5.078</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>1,466.084</b>	-	-	<b>347.782</b>	-	-	<b>433.124</b>	-	-	<b>382.007</b>	-	-	-	-	-	<b>382.007</b>

**Remarks:**  
 TNMS is the Tactical NetOps Management System (TNMS).  
 RHN obsolescence increases due to modernization of the Ka/Ku infrastructure.  
 SATCOM Obsolescence - STT decreases in FY23 due to a reduction in procurement quantities from 92 to 70 terminals.  
 SATCOM Obsolescence - THN increases in FY23 as procurement begins to address obsolescence at two Division Headquarters.  
 Tech Insertions increases in FY23 due to a difference in the mix of more expensive Units being procured as compared to prior years.  
 Scalable Network Nodes (SNN) included Signal School assets and tech refresh in FY22 which were not required in FY23, driving the subsequent reduction in the P-form.  
 Fielding increases in FY23 due to an increased pace of modernizing at the halt communications and higher quantities procured in the prior years.  
 Initial Spares and Repair Parts decreases in FY23 a result of fewer pipeline spares procured for B-16 sustainment of NITE systems.  
 Government Management funds matrix support to the PM.  
 All procurements consist of COTS/GOTS solutions.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	347.782	433.124	382.007	-	382.007
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>347.782</b>	<b>433.124</b>	<b>382.007</b>	-	<b>382.007</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	112.143	63.396	-	-	-	-	-	-	-	-	-	175.539
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	112.143	63.396	-	-	-	-	-	-	-	-	-	175.539
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>112.143</b>	<b>63.396</b>	-	-	-	-	-	-	-	-	-	<b>175.539</b>

*(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 FY 2021, 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	63.396	-	-	-	-	-	-	-
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>63.396</b>	-	-	-	-	-	-	-

**Justification:**

BW7200 has no FY 2023 funding request.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	3.863	4.066	-	4.066	0.259	-	-	-	-	8.188
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	3.863	4.066	-	4.066	0.259	-	-	-	-	8.188
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>3.863</b>	<b>4.066</b>	-	<b>4.066</b>	<b>0.259</b>	-	-	-	-	<b>8.188</b>

*(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 Secure Cellular): 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.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.128	-	0.128	0.007	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.863	3.938	-	3.938	0.252	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>3.863</b>	<b>4.066</b>	-	<b>4.066</b>	<b>0.259</b>	-	-

**Justification:**

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications		<b>P-1 Line Item Number / Title:</b> 2161B47200 / Disaster Incident Response Comms Terminal (DIRECT)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
FY 2023 Base Procurement dollars in the amount of \$4.066 million supports annual software, System Engineering and Technical assistance (SETA), Post Deployment Software Support (PDSS) and Program Management Office (PMO).		
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 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	174.276	5.170	4.845	5.505	-	5.505	5.201	5.751	5.768	5.766	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	174.276	5.170	4.845	5.505	-	5.505	5.201	5.751	5.768	5.766	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>174.276</b>	<b>5.170</b>	<b>4.845</b>	<b>5.505</b>	-	<b>5.505</b>	<b>5.201</b>	<b>5.751</b>	<b>5.768</b>	<b>5.766</b>	<b>Continuing</b>	<b>Continuing</b>

*(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: 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.170	4.845	5.505	-	5.505	5.201	5.751	5.768
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>5.170</b>	<b>4.845</b>	<b>5.505</b>	-	<b>5.505</b>	<b>5.201</b>	<b>5.751</b>	<b>5.768</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	BB5777 / JCSE Equipment (USRDECOM)	P-5a			- / 174.276	- / 5.170	- / 4.845	- / 5.505	- / -	- / 5.505
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 174.276</b>	<b>- / 5.170</b>	<b>- / 4.845</b>	<b>- / 5.505</b>	<b>- / -</b>	<b>- / 5.505</b>

\*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 2023 Base funding in the amount of \$5.505 million supports the procurement of communications equipment. This equipment encompasses major upgrades to large and small aperture mobile satellite systems, everything over internet protocol (EoIP), airborne/enroute, forced entry, single-channel radios, and power generation equipment.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 2930BB5777 / JCSE Equipment (USRDECOM)	<b>Item Number / Title [DODIC]:</b> BB5777 / JCSE Equipment (USRDECOM)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	174.276	5.170	4.845	5.505	-	5.505
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	174.276	5.170	4.845	5.505	-	5.505
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>174.276</b>	<b>5.170</b>	<b>4.845</b>	<b>5.505</b>	-	<b>5.505</b>

*(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.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
(JCSE) <sup>(†)</sup>	58,092.000	3	174.276	5,170.000	1	5.170	4,845.000	1	4.845	5,505.000	1	5.505	-	-	-	5,505.000	1	5.505
<i>Subtotal: Recurring Cost</i>	-	-	174.276	-	-	5.170	-	-	4.845	-	-	5.505	-	-	-	-	-	5.505
<i>Subtotal: Flyaway Cost</i>	-	-	<b>174.276</b>	-	-	<b>5.170</b>	-	-	<b>4.845</b>	-	-	<b>5.505</b>	-	-	-	-	-	<b>5.505</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>174.276</b>	-	-	<b>5.170</b>	-	-	<b>4.845</b>	-	-	<b>5.505</b>	-	-	-	-	-	<b>5.505</b>

**Remarks:**

Multiple contract awards for small acquisitions in work through different government contracts and contracting agencies. JCSE contracting actions primarily provided by 6th Contracting Squadron, MacDill AFB, FL.

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.

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	5.170	4.845	5.505	-	5.505
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12	<b>P-1 Line Item Number / Title:</b> 2930BB5777 / JCSE Equipment (USRDECOM)	<b>Item Number / Title [DODIC]:</b> BB5777 / JCSE Equipment (USRDECOM)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Secondary Distribution	Total Obligation Authority	5.170	4.845	5.505	-	5.505

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 12			<b>P-1 Line Item Number / Title:</b> 2930BB5777 / JCSE Equipment (USRDECOM)				<b>Item Number / Title [DODIC]:</b> BB5777 / JCSE Equipment (USRDECOM)				

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
(JCSE)		2021	Multiple (3) / MULTIPLE	Various	Various	Apr 2021	Sep 2021	1	5,170.000	N		
(JCSE)		2022	Multiple (3) / MULTIPLE	Various	Various	Apr 2022	Sep 2022	1	4,845.000	N		
(JCSE)		2023	Multiple (3) / MULTIPLE	Various	Various	Apr 2023	Sep 2023	1	5,505.000	N		

**Remarks:**  
No P-21 because the equipment being procured is COTS.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	29.588	6.050	-	-	-	-	-	-	-	-	-	35.638
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	29.588	6.050	-	-	-	-	-	-	-	-	-	35.638
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>29.588</b>	<b>6.050</b>	-	-	-	-	-	-	-	-	-	<b>35.638</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.050	-	-	-	-	-	-	-
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>6.050</b>	-	-	-	-	-	-	-

**Justification:**

B09800 has no funding request in FY 2023.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	<b>P-1 Line Item Number / Title:</b> 2939B09600 / SPECTRUM CBRS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.200	-	-	-	-	-	-	-	-	-	0.200
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.200	-	-	-	-	-	-	-	-	-	0.200
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>0.200</b>	-	-	-	-	-	-	-	-	-	<b>0.200</b>

*(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.

In accordance with 47 USC 928 and the Commercial Spectrum Enhancement Act (CSEA) Title, P.L. 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the cost associated with relocating spectrum dependent systems from spectrum bands which were auctioned for commercial purposes. The activities meet the CSEA and SRF requirements for funding to support spectrum relocation and sharing of the Citizen Broadband Radio System (CBRS) and the Americas Mid-band Initiative Team (AMBIT).

Department of Defense (DoD) costs associated with transition activities to ensure protection of incumbent spectrum dependent systems and military operations functioning within a given auctioned electromagnetic spectrum (EMS) band. Activities focus on ecosystem validations, environmental assessments, and continued industry engagement to refine the indefinite sharing infrastructure.

- 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.

The DoD POST-AUCTION 3550-3650 MHz Transition Plan focuses on the AN/TPQ-53 radar and adjacent band operations. In order to ensure that AN/TPQ-53 radar can function free from interference, Army will conduct radio frequency (RF) monitoring of the electromagnetic environment (EME) generated by the CBRS deployment at various locations where the AN/TPQ-53 radar operates within the Continental United States (CONUS). RF monitoring will enable the assessment of interference with the AN/TPQ-53 potentially caused by the CBRS. The Army plans to procure RF monitoring equipment, draft test plans, and assemble an engineering team to conduct measurements for various locations where the AN/TPQ-53 operates. The monitoring efforts will include test reports analyzing and quantizing findings from the measured data. The engineering and sharing support component of the Army Transition Plan will provide the Army with qualified personnel for working group coverage and engineering management needed to implement the DoD sharing strategy, in coordination with industry, the National Telecommunications Administration (NTIA), and the Federal Communications Commission (FCC). DoD's implementation of an indefinite sharing arrangement with new uses and users in the 3550-3650 MHz band inevitably involves the sharing costs as identified in 47 USC 923(g)(3). To ensure comparable operations and capabilities, DoD is and will continue to incur costs to mitigate against harmful interference to its protected operations. The SRF is funded with proceeds from FCC conducted auctions of spectrum licenses. SRF funds have an indefinite obligation period and remain available until expended (X Year). The DoD Chief Information Officer (CIO) executes oversight of DoD spectrum relocation and sharing efforts.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	<b>P-1 Line Item Number / Title:</b> 2939B09600 / SPECTRUM CBRS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.200	-	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>0.200</b>	-	-	-	-	-	-	-	-

**Justification:**  
 B09600 has no funding request in FY 2023.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3,204.444	101.498	90.928	107.228	-	107.228	116.716	90.849	94.346	94.304	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,204.444	101.498	90.928	107.228	-	107.228	116.716	90.849	94.346	94.304	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3,204.444</b>	<b>101.498</b>	<b>90.928</b>	<b>107.228</b>	<b>-</b>	<b>107.228</b>	<b>116.716</b>	<b>90.849</b>	<b>94.346</b>	<b>94.304</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 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: 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.

B08900/Special Communications Links Program - The Senior National Leadership Communications (SNLC) program and the required modernization effort exists through a bilateral agreement for a 5-year user equipment modernization. Per Lead MILDEP designation memorandum - dated 28 July 2000, this is a must fund effort. This funding supports the acquisition and fielding of unique internal requirements that provide critical communications to support continuing relations between the United States President, Department of State (DoS), Secretary of Defense (SECDEF), other high level United States members and their foreign counterparts. The program includes the Direct Communications Link (DCL), Continuous Communications Link (CCL) and the Government-to-Government Communications Link (GGCL). Communications are required for diplomatic peacekeeping, arms control and treaty verification purposes.

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

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 procures IT based COTS hardware including servers, routers, switches, and encryption devices supporting the COTS software applications configured to 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. Wideband Satellite Operations Management System (WSOMS) 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. 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	101.498	90.928	107.228	-	107.228	116.716	90.849	94.346	94.304
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>101.498</b>	<b>90.928</b>	<b>107.228</b>	-	<b>107.228</b>	<b>116.716</b>	<b>90.849</b>	<b>94.346</b>	<b>94.304</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	B08900 / Special Communications Links Program				- / 39.262	- / 2.393	- / 2.242	- / 2.546	- / -	- / 2.546
P-5	BB8416 / Enterprise Wideband Satellite Terminal - (Mod)				- / 956.988	- / 28.401	- / 25.559	- / 40.004	- / -	- / 40.004
P-5	BB8501 / Enterprise Wideband Satellite Terminal Digital EQ				- / 992.869	- / 28.866	- / 25.559	- / 22.341	- / -	- / 22.341
P-5	BB8509 / Enterprise Wideband Sat Payload Control System				- / 1,215.325	- / 41.838	- / 37.568	- / 42.337	- / -	- / 42.337
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 3,204.444</b>	<b>- / 101.498</b>	<b>- / 90.928</b>	<b>- / 107.228</b>	<b>- / -</b>	<b>- / 107.228</b>

\*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 2023 BB8500 Base procurement dollars in the amount of \$107.228 million support the following programs:

FY 2023 B08900 Base procurement dollars in the amount of \$2.546 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 2023 BB8416 Base Procurement dollars in the amount of \$40.004 million supports the engineering, systems integration, post-production integration, testing and installation support of Modernization of Enterprise Terminals (MET) systems fielding globally; MET Interactive Electronic Technical Manual (IETM) upgrades, Life Cycle Modernization of the terminal systems; and the procurement, site preparation and installation of radomes. Out of the \$40.004 million, \$14.260 million in the fielding category is required to accelerate the fielding of two additional large X-Band and Ka-Band terminals at Fort Buckner, Japan and Lago di Patria, Italy to provide ground station anchoring for the Wideband Global SATCOM (WGS)-11 FY24 launch.

FY 2023 BB8501 Base procurement dollars in the amount \$22.341 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 2023 BB8509 Base procurement dollars in the amount of \$42.337 million modernizes the closed restricted Wideband Satellite Operations Management System (WSOMS) network to transition to a modern and capable IP-based any-to-any network that provides reliability, sustainability, scalability, security, and management of the increasing SATCOM demands; increases resiliency, trend analysis and anomaly resolutions to ensure reliable communications; increases automation of payload planning to increase resource efficiency and dynamic Combatant Commands (COCOM) mission planning; and transitioning WSOMS subsystems to a common interoperable Virtual Machine computing environment which will significantly reduce the physical footprint and reduce energy costs to the facilities.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems	<b>Item Number / Title [DODIC]:</b> B08900 / Special Communications Links Program

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	39.262	2.393	2.242	2.546	-	2.546
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	39.262	2.393	2.242	2.546	-	2.546
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>39.262</b>	<b>2.393</b>	<b>2.242</b>	<b>2.546</b>	<b>-</b>	<b>2.546</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Software Cost</b>																		
Recurring Cost																		
Software Development Integration	-	-	3.490	-	-	0.205	-	-	0.246	-	-	0.369	-	-	-	-	-	0.369
<i>Subtotal: Recurring Cost</i>	-	-	3.490	-	-	0.205	-	-	0.246	-	-	0.369	-	-	-	-	-	0.369
<i>Subtotal: Software Cost</i>	-	-	3.490	-	-	0.205	-	-	0.246	-	-	0.369	-	-	-	-	-	0.369
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding	-	-	3.852	-	-	0.898	-	-	0.526	-	-	0.912	-	-	-	-	-	0.912
<i>Subtotal: Recurring Cost</i>	-	-	3.852	-	-	0.898	-	-	0.526	-	-	0.912	-	-	-	-	-	0.912
<i>Subtotal: Package Fielding Cost</i>	-	-	3.852	-	-	0.898	-	-	0.526	-	-	0.912	-	-	-	-	-	0.912
<b>Support - Program Management Cost</b>																		
Government Management	-	-	31.920	-	-	0.128	-	-	0.134	-	-	0.101	-	-	-	-	-	0.101
<i>Subtotal: Support - Program Management Cost</i>	-	-	31.920	-	-	0.128	-	-	0.134	-	-	0.101	-	-	-	-	-	0.101
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	-	-	-	1.162	-	-	1.336	-	-	1.164	-	-	-	-	-	1.164
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	1.162	-	-	1.336	-	-	1.164	-	-	-	-	-	1.164
<b>Gross/Weapon System Cost</b>	-	-	<b>39.262</b>	-	-	<b>2.393</b>	-	-	<b>2.242</b>	-	-	<b>2.546</b>	-	-	-	-	-	<b>2.546</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems	<b>Item Number / Title [DODIC]:</b> B08900 / Special Communications Links Program

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

**Remarks:**  
Program Management consists of travel, training and supplies.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.393	2.242	2.546	-	2.546
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>2.393</b>	<b>2.242</b>	<b>2.546</b>	-	<b>2.546</b>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18		<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems
		<b>Item Number / Title [DODIC]:</b> BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				956.988	28.401	25.559	40.004	-	40.004
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				956.988	28.401	25.559	40.004	-	40.004
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>956.988</b>	<b>28.401</b>	<b>25.559</b>	<b>40.004</b>	<b>-</b>	<b>40.004</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	19.317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MET Post Deployment Software Support (PDSS)	-	-	6.586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MET Tech Refresh	-	-	13.521	-	-	0.300	-	-	1.572	-	-	-	-	-	-	-	-	-
Radome Hardware & Install	-	-	2.400	-	-	3.451	-	-	4.841	-	-	4.990	-	-	-	-	-	4.990
Digital Intermediate Frequency (IF)	-	-	-	-	-	-	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>715.115</i>	-	-	<i>3.751</i>	-	-	<i>7.413</i>	-	-	<i>5.990</i>	-	-	-	-	-	<i>5.990</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>715.115</i>	-	-	<i>3.751</i>	-	-	<i>7.413</i>	-	-	<i>5.990</i>	-	-	-	-	-	<i>5.990</i>
Support - Fielding Cost																		
Fielding	-	-	57.876	-	-	17.434	-	-	10.726	-	-	26.142	-	-	-	-	-	26.142
<i>Subtotal: Support - Fielding Cost</i>	-	-	<i>57.876</i>	-	-	<i>17.434</i>	-	-	<i>10.726</i>	-	-	<i>26.142</i>	-	-	-	-	-	<i>26.142</i>
Support - Program Management Cost																		
Government Management	-	-	135.451	-	-	0.250	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18		<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems
		<b>Item Number / Title [DODIC]:</b> BB8416 / Enterprise Wideband Satellite Terminal - (Mod)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 - Program Management Cost</i>	-	-	135.451	-	-	0.250	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
<i>Support - System Engineering Cost</i>																		
System Engineering	-	-	48.546	-	-	6.966	-	-	7.170	-	-	7.622	-	-	-	-	-	7.622
<i>Subtotal: Support - System Engineering Cost</i>	-	-	48.546	-	-	6.966	-	-	7.170	-	-	7.622	-	-	-	-	-	7.622
<b>Gross/Weapon System Cost</b>	-	-	956.988	-	-	28.401	-	-	25.559	-	-	40.004	-	-	-	-	-	40.004

**Remarks:**

FY2023 BB8416 Base Procurement dollar increase in the amount of \$14.260 million in the fielding category is required to accelerate the fielding of two additional large X-Band and Ka-Band terminals at Fort Buckner, Japan and Lago di Patria, Italy to provide ground station anchoring for the Wideband Global SATCOM (WGS)-11 FY24 launch.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	28.401	25.559	40.004	-	40.004
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	28.401	25.559	40.004	-	40.004

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>											<b>Date:</b> April 2022						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18						<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems						<b>Item Number / Title [DODIC]:</b> BB8501 / Enterprise Wideband Satellite Terminal Digital EQ					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :											<b>MDAP/MAIS Code:</b>						
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>			
Procurement Quantity (Units in Each)				-		-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				992.869		28.866		25.559		22.341		-		22.341			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				992.869		28.866		25.559		22.341		-		22.341			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
<b>Total Obligation Authority (\$ in Millions)</b>				<b>992.869</b>		<b>28.866</b>		<b>25.559</b>		<b>22.341</b>		<b>-</b>		<b>22.341</b>			
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	16.401	-	-	0.304	-	-	0.378	-	-	0.795	-	-	-	-	-	0.795
Landstuhl Baseband Installs	-	-	283.080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precision Timing Rack Modification	-	-	2.923	-	-	-	-	-	-	-	-	0.299	-	-	-	-	-	0.299
Enhanced Bandwidth Efficient Modem (EBEM)	-	-	1.104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transport Convergence	-	-	3.531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prototyping, Integration, Test, Training (PITT) Lab	-	-	4.679	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SATCOM Unified Net-Centric System (SUNS)	-	-	46.658	-	-	8.903	-	-	4.590	-	-	-	-	-	-	-	-	-
Communication Configuration and Asset Management System (CCAMS)	-	-	4.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Power Distribution Rack	-	-	0.354	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18						<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems						<b>Item Number / Title [DODIC]:</b> BB8501 / Enterprise Wideband Satellite Terminal Digital EQ					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	0.837	-	-	-	-	-	0.837
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	-	-	0.338	-	-	-	-	-	0.338
Enterprise SATCOM Gateway Modem (ESGM)	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	-	-	-	-
Camp Humphreys Equipment	-	-	-	-	-	-	-	-	1.409	-	-	6.835	-	-	-	-	-	6.835
Serial Interface Patching System	-	-	-	-	-	-	-	-	1.000	-	-	1.955	-	-	-	-	-	1.955
<i>Subtotal: Recurring Cost</i>	-	-	<b>364.498</b>	-	-	<b>25.221</b>	-	-	<b>14.128</b>	-	-	<b>11.059</b>	-	-	-	-	-	<b>11.059</b>
<i>Subtotal: Flyaway Cost</i>	-	-	<b>364.498</b>	-	-	<b>25.221</b>	-	-	<b>14.128</b>	-	-	<b>11.059</b>	-	-	-	-	-	<b>11.059</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	10.285	-	-	1.065	-	-	3.490	-	-	3.865	-	-	-	-	-	3.865
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>10.285</b>	-	-	<b>1.065</b>	-	-	<b>3.490</b>	-	-	<b>3.865</b>	-	-	-	-	-	<b>3.865</b>
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	14.676	-	-	0.665	-	-	3.250	-	-	3.141	-	-	-	-	-	3.141
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<b>14.676</b>	-	-	<b>0.665</b>	-	-	<b>3.250</b>	-	-	<b>3.141</b>	-	-	-	-	-	<b>3.141</b>
<b>Support - Program Management Cost</b>																		
Government Management	-	-	398.909	-	-	0.175	-	-	0.350	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>398.909</b>	-	-	<b>0.175</b>	-	-	<b>0.350</b>	-	-	<b>0.250</b>	-	-	-	-	-	<b>0.250</b>
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	204.501	-	-	1.740	-	-	4.341	-	-	4.026	-	-	-	-	-	4.026
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<b>204.501</b>	-	-	<b>1.740</b>	-	-	<b>4.341</b>	-	-	<b>4.026</b>	-	-	-	-	-	<b>4.026</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>992.869</b>	-	-	<b>28.866</b>	-	-	<b>25.559</b>	-	-	<b>22.341</b>	-	-	-	-	-	<b>22.341</b>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems	<b>Item Number / Title [DODIC]:</b> BB8501 / Enterprise Wideband Satellite Terminal Digital EQ

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

- FY 2022 to FY2023, Ft. Buckner equipment cost decreased as equipment procurements occurred in FY 2022. Subsequent increase in Fielding costs (see fielding note below). Beneficial Occupancy Date (BOD) is scheduled to be complete in FY 2023.
- FY 2022 to FY 2023, Enterprise SATCOM Gateway Modem (ESGM) decreased to zero as fielding completed in FY 2022.
- PTRM Cost Element: This is an ongoing effort that was funded in FY 2019 and prior. This was not funded in FY 2020 and FY 2021 due to a delay in MILCON efforts.
- FY 2022 to FY 2023, Camp Humphreys Military Construction, Army (MCA) equipment cost increase is due to requirement to procure Satellite Baseband Equipment, Uninterruptable Power Supply, and cabling in order to meet production and integration lead time for newly constructed Satellite Earth Terminal Station in FY 2024.
- FY 2022 to FY 2023 Serial Interface Patching System (SIPS) cost increase is due to procure and field the remainder replacement for legacy Multiplexer Integration and DCSS Automation System (MIDAS) at Army Gateways.
- FY 2022 to FY 2023 System and Production Engineering cost decrease is due to reduced Baseband Modernization project workload.
- FY 2022 to FY 2023 Fielding cost increase is due to the Baseband equipment installations at Ft. Buckner Military Construction, Army (MCA).
- Program Management consists of travel, training and supplies.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	28.866	25.559	22.341	-	22.341
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>28.866</b>	<b>25.559</b>	<b>22.341</b>	-	<b>22.341</b>



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems	<b>Item Number / Title [DODIC]:</b> BB8509 / Enterprise Wideband Sat Payload Control System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		1,215.325	41.838	37.568	42.337	-	42.337
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		1,215.325	41.838	37.568	42.337	-	42.337
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>1,215.325</b>	<b>41.838</b>	<b>37.568</b>	<b>42.337</b>	-	<b>42.337</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)	-	-	134.050	-	-	3.904	-	-	6.903	-	-	8.161	-	-	-	-	-	8.161
Wideband Remote Monitoring System (WRMS)	-	-	135.751	-	-	4.178	-	-	0.939	-	-	-	-	-	-	-	-	-
Common Network Planning System (CNPS)	-	-	139.185	-	-	3.634	-	-	3.152	-	-	-	-	-	-	-	-	-
Global Satellite Configuration Control Element (GSCCE)	-	-	201.778	-	-	4.423	-	-	3.488	-	-	-	-	-	-	-	-	-
Wideband SATCOM Operational Management System (WSOMS)	-	-	18.845	-	-	12.850	-	-	8.908	-	-	17.926	-	-	-	-	-	17.926
Joint Mngmt. & Ops. System (JMOS)	-	-	132.942	-	-	0.226	-	-	-	-	-	0.300	-	-	-	-	-	0.300
Remote Monitor Control Equipment (RMCE)	-	-	183.237	-	-	-	-	-	-	-	-	0.918	-	-	-	-	-	0.918

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems	<b>Item Number / Title [DODIC]:</b> BB8509 / Enterprise Wideband Sat Payload Control System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)	-	-	4.906	-	-	1.371	-	-	1.641	-	-	2.743	-	-	-	-	-	2.743
Radio Frequency Modulated Orderwire (RFMOW)	-	-	141.488	-	-	0.114	-	-	-	-	-	-	-	-	-	-	-	-
Power Control Management System (PCMS)	-	-	26.120	-	-	0.678	-	-	2.276	-	-	-	-	-	-	-	-	-
Post Gres Enterprise Class Data Management Platform	-	-	6.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Replacement and Patch Test Facility (RPTF)	-	-	0.368	-	-	0.464	-	-	-	-	-	0.500	-	-	-	-	-	0.500
Replacement Radio Frequency Interconnecting Subsystem (RRFIS)	-	-	-	-	-	0.271	-	-	-	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Recurring Cost</i>	-	-	1,124.675	-	-	32.113	-	-	27.307	-	-	30.848	-	-	-	-	-	30.848
<i>Subtotal: Flyaway Cost</i>	-	-	1,124.675	-	-	32.113	-	-	27.307	-	-	30.848	-	-	-	-	-	30.848
<b>Support - Fielding Cost</b>																		
Fielding	-	-	1.128	-	-	0.933	-	-	1.000	-	-	1.337	-	-	-	-	-	1.337
<i>Subtotal: Support - Fielding Cost</i>	-	-	1.128	-	-	0.933	-	-	1.000	-	-	1.337	-	-	-	-	-	1.337
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	6.583	-	-	2.262	-	-	2.008	-	-	2.331	-	-	-	-	-	2.331
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	6.583	-	-	2.262	-	-	2.008	-	-	2.331	-	-	-	-	-	2.331
<b>Support - Program Management Cost</b>																		
Government Management	-	-	54.469	-	-	1.343	-	-	1.493	-	-	1.487	-	-	-	-	-	1.487
<i>Subtotal: Support - Program Management Cost</i>	-	-	54.469	-	-	1.343	-	-	1.493	-	-	1.487	-	-	-	-	-	1.487
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	28.470	-	-	5.187	-	-	5.760	-	-	6.334	-	-	-	-	-	6.334
<i>Subtotal: Support - System Engineering Cost</i>	-	-	28.470	-	-	5.187	-	-	5.760	-	-	6.334	-	-	-	-	-	6.334
<b>Gross/Weapon System Cost</b>	-	-	1,215.325	-	-	41.838	-	-	37.568	-	-	42.337	-	-	-	-	-	42.337

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2948BB8500 / Defense Enterprise Wideband Satcom Systems	<b>Item Number / Title [DODIC]:</b> BB8509 / Enterprise Wideband Sat Payload Control System

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

- FY 2022 to FY 2023 Wideband Satellite Communications Trend Analysis and Anomaly Resolution Solution (WSTARS) cost increase is a direct result of Common Network Planning System (CNPS) integration.
- FY 2022 to FY 2023 Wideband Remote Monitoring System (WRMS) cost decrease is a direct result of WGS-11 requirements funded by International Partners.
- FY 2022 to FY 2023 CNPS cost decrease is a direct result of WGS-11 requirements funded by International Partners.
- FY 2022 to FY 2023 Global Satellite Configuration Control Element (GSCCE) cost decrease is a direct result of WGS-11 requirements funded by International Partners.
- FY 2022 to FY 2023 Wideband Satellite Operations Management System (WSOMS) cost increase is a direct result of increasing the network cybersecurity and resiliency requirement. This increase includes the hardware, software, and license procurements for the associated global network appliances. Maintaining satellite communications requires the WSOMS to rapidly plan, implement, and manage payload satellite communications across a global network infrastructure (WSOMS) with real-time failover and redundancy (network agility). As a result, the payload communications information and payload control systems (WSOMS) must be protected from these threats.
- For the following cost elements (JMOS, RMCE, RPTF, and RRFIS): FY22 to FY23, the increase is due to restrictions such as COVID and other fact of life changes. These procurements provide upgrades and enhancements to Payload Control System equipment. These procurements were unable to be procured and fielded as planned due to these restrictions.
- Readiness Level. FY20-FY22 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) 2016 Section 1647 mandated cybersecurity evaluation of the Wideband Global SATCOM system.
- Program Management consists of frequent travel (CONUS/OCONUS), training and supplies.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	41.838	37.568	42.337	-	42.337
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>41.838</b>	<b>37.568</b>	<b>42.337</b>	-	<b>42.337</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	457.558	110.450	132.050	119.259	-	119.259	98.933	97.000	97.276	97.233	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	457.558	110.450	132.050	119.259	-	119.259	98.933	97.000	97.276	97.233	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>457.558</b>	<b>110.450</b>	<b>132.050</b>	<b>119.259</b>	<b>-</b>	<b>119.259</b>	<b>98.933</b>	<b>97.000</b>	<b>97.276</b>	<b>97.233</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 Priority.

This funding line supports the Army Network Cross Functional Team. T2C2 provides a family of expeditionary and mobile satellite terminals. 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 terminals in the portfolio support and complement the Army's tactical network and architecture by increasing the operational reach and situational awareness of the entire force.

Industry innovation over the last four years has resulted in exponential market growth, with multiple vendors providing commercial terminals available for military needs. The program office will be leveraging a T2C2 "Family of Terminals" (FoT) strategy to meet Army requirements for the 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 formations. This strategy 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 reusing and upgrading material solutions previously fielded. The program will transition the T2C2 Lite material solution from an inflatable satellite terminal to a lighter, more expeditionary and capable rigid dish solution, the T2C2 Lite v2. The T2C2 Lite v2 terminal will begin procurement in FY 2022 to meet the remaining T2C2 lite requirements. In FY 2023, the program will incorporate an Ultra Lite terminal intended for small teams that require high bandwidth network capability in austere environments. The T2C2 Ultra Lite, will begin procurement of new terminals and upgrade existing Ultra Lite terminals starting in FY 2023. Additionally, the program office will produce logistics products, program supply support, cyber support, etc. and establish contracts to support the T2C2 Ultra Lite terminal.

The approved Army Procurement Objective (APO) is 637 T2C2 terminals, consisting of 312 T2C2 Lite and 325 Heavy terminals. 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 terminals to provide increased operational flexibility. T2C2 transitioned into Full Rate Production (FRP) for T2C2 Lite and Heavy terminals in January 2018 after a successful FRP Decision and immediately began fielding in March 2018.

In July 2020, SCOUT ITN ADM directed the incorporation of the SCOUT ITN VSAT and SFAB into the T2C2 Program of Record (PoR). In January 2021, the program revised the Acquisition Program Baseline (APB) transitioning the program from an ACAT III to an ACAT II. The FoT strategy was approved by the MDA on 11 February 2021. This directed the inclusion of the Ultra Lite solution into the T2C2 PoR and the

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C

<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

transition of the T2C2 Lite terminal to T2C2 Lite v2. By 4Q FY 2022, the program expects the APO for the T2C2 FoT strategy to increase to 2,168 T2C2 terminals consisting of 312 T2C2 Lite, 281 T2C2 Lite v2, 342 T2C2 Heavy, 352 Ultra Lite, 214 Ultra Lite Upgrade, 294 SCOUT SFAB, and 373 SCOUT ITN terminals.

T2C2 Lite v2 (1.3m): Supports small command posts of 6 subscribers over SIPR/NIPR. This is the follow-on system to the T2C2 Lite and offers reduced setup time, improved connection characteristics, reduced maintenance requirements, and less overall complexity resulting in a more desirable terminal based on end-user feedback when compared to the previous T2C2 Lite.

T2C2 Lite Enhanced Baseband: Additional baseband added to previously fielded T2C2 Lite terminals to support up to 48 additional users over Secure Internet Protocol Router/Non-Secure Internet Protocol Router (SIPR/NIPR), consistent with ITN requirements.

T2C2 Heavy (2.4m): Supports small command posts of 48 subscribers over SIPR/NIPR/MPE. The only terminal that supports full command post operations. Provides large-scale SATCOM connection that enables full mission command operations at upper echelons that require early entry SATCOM and access to mission critical data.

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.

SCOUT SFAB (Medium 1.3m): Supports small command posts of 12 subscribers over SIPR/NIPR/MPE. The terminal provides a tri-band capable, early entry satellite connection for SFAB units to complete their mission.

SCOUT Medium (1.3m) - ITN: Supports small command posts of 48 subscribers over SIPR/NIPR. This terminal is capable of supporting voice, imagery, data, video, chat, and FMV at the battalion level. Terminal meets or exceeds all antenna requirements for ITN effort.

T2C2 Ultra Lite terminals: Provide lightweight early-entry communications packages for small teams at the tactical edge. Supports one subscriber over SIPR. The only system in the family of terminals that consists of one (1) transit case in a carry-on suitcase that provides a SIPR connection over commercial SATCOM for small intelligence teams and executive communications. In addition to procuring new terminals, the program will upgrade previously procured Global Rapid Response Information Package (GRRIP) terminals to meet Capability Production Document (CPD) Key Performance Parameters (KPP) requirements. This includes upgrades to the antenna and transit case to meet the current T2C2 Ultra Lite configuration. The Ultra Lite terminal requires support from the S-NOC, which provides 24/7 helpdesk support and mission critical network connectivity that actively supports secure commercial tunnel architecture, access to unclassified, classified (up to Secret), and coalition networks, and routing to a Top Secret gateway. The program will fund S-NOC services for T2C2 Ultra Lite terminals.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.421	68.679	90.122	-	90.122	94.647	97.000	85.833	93.981
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	47.996	34.978	26.015	-	26.015	4.286	-	11.443	3.252
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.033	28.393	3.122	-	3.122	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>110.450</b>	<b>132.050</b>	<b>119.259</b>	-	<b>119.259</b>	<b>98.933</b>	<b>97.000</b>	<b>97.276</b>	<b>97.233</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	<b>P-1 Line Item Number / Title:</b> 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 457.558	- / 110.450	- / 132.050	- / 119.259	- / -	- / 119.259
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 457.558</b>	<b>- / 110.450</b>	<b>- / 132.050</b>	<b>- / 119.259</b>	<b>- / -</b>	<b>- / 119.259</b>

\*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 2023 base procurement dollars of \$119.259 million supports procurement of FRP quantities for T2C2 Lite v2 (75), T2C2 Lite Enhanced Basebands (24), SCOUT Integrated Tactical Network (ITN) (60), and T2C2 Ultra Lite (112) terminals. Additionally, T2C2 Ultra Lite upgrades (128) will be conducted using previously fielded Global Rapid Response Information Package (GRRIP) terminals. The hardware cost element also includes Recurring Engineering for Engineering Change Proposals (ECPs) that effect hardware and software configuration baselines. Changes include improved modems, radome material, Compact Inflation Units (CIUs), and updated software requirements. In addition, FY 2023 funding will be used to provide configuration management, engineering and logistics support, software procurement and maintenance, cyber security, and T2C2 Ultra Lite System support which includes SATCOM Network Operations Center (S-NOC) helpdesk labor and material procurement support, and connection services to secure enclaves for the T2C2 Ultra Lite terminal. Funding also supports fielding which includes personnel for fielding and training, procurement of initial spares and consumables, shipping, and pre-planned product improvement/obsolescence (P3I). Funding also supports System Technical Support (STS), including help desk, software renewals and maintenance support for fielded SCOUT SFAB terminals.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18		<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C)
		<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	457.558	110.450	132.050	119.259	-	119.259
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	457.558	110.450	132.050	119.259	-	119.259
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>457.558</b>	<b>110.450</b>	<b>132.050</b>	<b>119.259</b>	<b>-</b>	<b>119.259</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
T2C2 Lite <sup>(†)</sup>	358.873	267	95.819	326.600	45	14.697	-	-	-	-	-	-	-	-	-	-	-	-
T2C2 Lite v2 <sup>(†)</sup>	-	-	-	-	-	-	309.724	58	17.964	309.725	51	15.796	-	-	-	309.725	51	15.796
T2C2 Lite Enhanced Baseband <sup>(†)</sup>	-	-	-	-	-	-	151.833	24	3.644	151.833	24	3.644	-	-	-	151.833	24	3.644
T2C2 Heavy <sup>(†)</sup>	463.277	213	98.678	454.321	84	38.163	454.311	45	20.444	454.294	17	7.723	-	-	-	454.294	17	7.723
T2C2 Tri-band Delta Kit	155.049	82	12.714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCOUT ITN <sup>(†)</sup>	-	-	-	-	-	-	442.417	60	26.545	442.417	60	26.545	-	-	-	442.417	60	26.545
T2C2 Ultra Lite <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	64.973	112	7.277	-	-	-	64.973	112	7.277
T2C2 Ultra Lite Upgrade <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	10.563	128	1.352	-	-	-	10.563	128	1.352
Recurring Engineering	-	-	3.236	-	-	6.311	-	-	6.659	-	-	5.512	-	-	-	-	-	5.512
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>210.447</i>	<i>-</i>	<i>-</i>	<i>59.171</i>	<i>-</i>	<i>-</i>	<i>75.256</i>	<i>-</i>	<i>-</i>	<i>67.849</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>67.849</i>
<b>Non Recurring Cost</b>																		
RHN Upgrades	-	-	16.849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercially Available Systems	720.944	36	25.954	925.000	4	3.700	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C)	<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Base Operations Spartan Shield (BOSS)	-	-	-	-	-	-	-	-	2.233	-	-	-	-	-	-	-	-	-
AN/PSC-15 (GRRIP) Upgrade	10.000	54	0.540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSS-VSAT	-	-	90.372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	133.715	-	-	3.700	-	-	2.233	-	-	-	-	-	-	-	-	-
<b>Subtotal: Hardware Cost</b>	-	-	<b>344.162</b>	-	-	<b>62.871</b>	-	-	<b>77.489</b>	-	-	<b>67.849</b>	-	-	-	-	-	<b>67.849</b>
<b>Software Cost</b>																		
<b>Recurring Cost</b>																		
Software	-	-	25.568	-	-	8.383	-	-	9.654	-	-	9.177	-	-	-	-	-	9.177
<i>Subtotal: Recurring Cost</i>	-	-	25.568	-	-	8.383	-	-	9.654	-	-	9.177	-	-	-	-	-	9.177
<b>Non Recurring Cost</b>																		
Production Verification Testing	-	-	-	-	-	0.056	-	-	0.600	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.056	-	-	0.600	-	-	-	-	-	-	-	-	-
<b>Subtotal: Software Cost</b>	-	-	<b>25.568</b>	-	-	<b>8.439</b>	-	-	<b>10.254</b>	-	-	<b>9.177</b>	-	-	-	-	-	<b>9.177</b>
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
Ultra Lite System Support	-	-	-	-	-	-	-	-	-	-	-	4.271	-	-	-	-	-	4.271
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.271	-	-	-	-	-	4.271
<b>Non Recurring Cost</b>																		
GRRIP System Support	-	-	-	-	-	-	-	-	4.188	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	4.188	-	-	-	-	-	-	-	-	-
<b>Subtotal: Logistics Cost</b>	-	-	-	-	-	-	-	-	<b>4.188</b>	-	-	<b>4.271</b>	-	-	-	-	-	<b>4.271</b>
<b>Support - Data Cost</b>																		
Technical Publications	-	-	8.525	-	-	1.143	-	-	3.478	-	-	3.957	-	-	-	-	-	3.957
<i>Subtotal: Support - Data Cost</i>	-	-	<b>8.525</b>	-	-	<b>1.143</b>	-	-	<b>3.478</b>	-	-	<b>3.957</b>	-	-	-	-	-	<b>3.957</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	46.261	-	-	20.106	-	-	24.193	-	-	22.196	-	-	-	-	-	22.196



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18						<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C)						<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	46.261	-	-	20.106	-	-	24.193	-	-	22.196	-	-	-	-	-	22.196
<b>Support - Program Management Cost</b>																		
Government Management	-	-	15.293	-	-	3.744	-	-	2.970	-	-	2.892	-	-	-	-	-	2.892
Contractor Management	-	-	15.071	-	-	6.954	-	-	5.515	-	-	5.370	-	-	-	-	-	5.370
<i>Subtotal: Support - Program Management Cost</i>	-	-	30.364	-	-	10.698	-	-	8.485	-	-	8.262	-	-	-	-	-	8.262
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	2.678	-	-	3.116	-	-	3.191	-	-	3.270	-	-	-	-	-	3.270
<i>Subtotal: Support - System Engineering Cost</i>	-	-	2.678	-	-	3.116	-	-	3.191	-	-	3.270	-	-	-	-	-	3.270
<b>Support - System Technical Support (STS) Cost</b>																		
System Technical Support (STS)	-	-	-	-	-	4.077	-	-	0.772	-	-	0.277	-	-	-	-	-	0.277
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	4.077	-	-	0.772	-	-	0.277	-	-	-	-	-	0.277
<b>Gross/Weapon System Cost</b>	-	-	457.558	-	-	110.450	-	-	132.050	-	-	119.259	-	-	-	-	-	119.259

**Remarks:**

FY23 quantities on the P-40 and P-5 report 17 T2C2 Heavy terminals that are now being procured in FY22 due to program increase in FY22 appropriations. P-40 and P-5 quantities will be zero in FY23 when the databases update.

FY23 quantities on P-40 and P-5 report 51 T2C2 Lite v2 terminals. P-40 and P-5 quantities will increase to 75 when the databases update.

FY23 quantities on the P-5 include 128 T2C2 Ultra Lite Upgrades that are not reflected in the P-40 quantities because they are not yet reflected in the database that generates the P-40 quantities.

Recurring Engineering cost decreased from FY22 to FY23 due to the transition from a consolidated services contract to an integrator support contract.

The Ultra Lite System Support includes required SATCOM Network Operations Center (S-NOC) labor and material support, licensing and warranties, and sustainment materials for deployed T2C2 Ultra Lite terminals. Ultra Lite System Support, previously reported as GRRIP System Support, costs increased from FY22 to FY23 due to the procurement Ultra Lite terminals beginning in FY23.

Data / Technical Publications represents Level of Repair Analysis (LORA) development and updates, and includes Technical Manual (TM) development and updates.

System Technical Support (STS) cost decreased due completion of Ka-Band retrofit in (FY22). FY23 cost supports repairs and maintenance of fielded SCOUT SFAB terminals.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C)	<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C)

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

Government Program Management consists of matrix personnel labor and travel requirements. This includes all required program oversight, system engineering and technical control, risk management, and fielding support. CORE Government program management is paid with OMA.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	43.421	68.679	90.122	-	90.122
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	47.996	34.978	26.015	-	26.015
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	19.033	28.393	3.122	-	3.122
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>110.450</b>	<b>132.050</b>	<b>119.259</b>	-	<b>119.259</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C	<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C
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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
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	326.600	N		Jun 2013
T2C2 Lite v2 <sup>(†)</sup>		2022	TAMPA Microwave / St. Petersburg, Florida	C / IDIQ	TBD	Mar 2022	Sep 2022	58	309.724	N		
T2C2 Lite v2 <sup>(†)</sup>		2023	TAMPA Microwave / St. Petersburg, Florida	C / FFP	Aberdeen Proving Ground, MD	Mar 2023	Sep 2023	51	309.725	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 Lite Enhanced Baseband		2023	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2023	Aug 2023	24	151.833	N		
T2C2 Heavy <sup>(†)</sup>		2020	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Feb 2020	Jun 2020	66	454.318	Y		Jun 2013
T2C2 Heavy <sup>(†)</sup>		2021	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground MD	Mar 2021	Sep 2021	84	454.321	N		Jun 2013
T2C2 Heavy <sup>(†)</sup>		2022	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2022	Sep 2022	45	454.311	N		Jun 2013
T2C2 Heavy <sup>(†)</sup>		2023	GATR Technologies / Huntsville, Alabama	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2023	Sep 2023	17	454.294	N		
SCOUT ITN <sup>(†)</sup>		2022	TAMPA Microwave / St. Petersburg, Florida	C / FFP	Aberdeen Proving Ground, MD	Mar 2022	Sep 2022	60	442.417	Y		Jun 2020
SCOUT ITN <sup>(†)</sup>		2023	TAMPA Microwave / St. Petersburg, Florida	C / FFP	Aberdeen Proving Ground, MD	Mar 2023	Sep 2023	60	442.417	Y		
T2C2 Ultra Lite <sup>(†)</sup>		2023	KLAS Gov't Inc / Herndon, VA	C / FFP	Aberdeen Proving Ground, MD	Mar 2023	Sep 2023	112	64.973	N		
T2C2 Ultra Lite Upgrade		2023	KLAS Gov't Inc / Herndon, VA	C / FFP	Aberdeen Proving Ground, MD	Mar 2023	Sep 2023	128	10.563	N		

<sup>(†)</sup> 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. FY 2023 costs reflect most current contract values.

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18										<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C)										<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														BALANCE	
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																																			
	2	2022	ARMY	58	0	58																							58						
	1	2023	ARMY	51	0	51																							51						
T2C2 Heavy																																			
Prior Years Deliveries: 147																																			
	3	2020	ARMY	66	0	66																						0							
	3	2021	ARMY	84	0	84																						69							
	3	2022	ARMY	45	0	45																						45							
	3	2023	ARMY	17	0	17																						17							
SCOUT ITN																																			
	4	2022	ARMY	60	0	60																						60							
	4	2023	ARMY	60	0	60																						60							
T2C2 Ultra Lite																																			
	5	2023	ARMY	112	0	112																						112							
							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 2023 Army																							Date: April 2022							
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										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
T2C2 Lite v2																														
	2	2022	ARMY	58	0	58																								0
	1	2023	ARMY	51	0	51																								25
T2C2 Heavy																														
Prior Years Deliveries: 147																														
	3	2020	ARMY	66	66	0																								0
	3	2021	ARMY	84	15	69	15	15	15	15	9																			0
	3	2022	ARMY	45	0	45																								0
	3	2023	ARMY	17	0	17																								0
SCOUT ITN																														
	4	2022	ARMY	60	0	60																								0
	4	2023	ARMY	60	0	60																								30
T2C2 Ultra Lite																														
	5	2023	ARMY	112	0	112																								56
							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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18										<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C)										<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C)									

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					
T2C2 Lite v2																																			
	2	2022	ARMY	58	58	0																											0		
	1	2023	ARMY	51	26	25	25																									0			
T2C2 Heavy																																			
Prior Years Deliveries: 147																																			
	3	2020	ARMY	66	66	0																										0			
	3	2021	ARMY	84	84	0																										0			
	3	2022	ARMY	45	45	0																										0			
	3	2023	ARMY	17	17	0																										0			
SCOUT ITN																																			
	4	2022	ARMY	60	60	0																										0			
	4	2023	ARMY	60	30	30	30																									0			
T2C2 Ultra Lite																																			
	5	2023	ARMY	112	56	56	56																									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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18		<b>P-1 Line Item Number / Title:</b> 2956B85800 / Transportable Tactical Command Communications (T2C)
		<b>Item Number / Title [DODIC]:</b> B85800 / Transportable Tactical Command Communications (T2C)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TAMPA Microwave - St. Petersburg, Florida	1	80	120	0	3	5	8	0	3	5	8
2	TAMPA Microwave - St. Petersburg, Florida	1	30	80	0	3	3	6	0	6	3	9
3	GATR Technologies - Huntsville, Alabama	1	30	80	0	3	3	6	0	6	3	9
4	TAMPA Microwave - St. Petersburg, Florida	1	80	120	0	3	5	8	0	3	5	8
5	KLAS Gov't Inc - Herndon, VA	1	60	100	0	2	3	5	0	2	3	5

"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 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	715.416	13.173	38.129	23.173	-	23.173	22.453	-	-	-	-	812.344
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	715.416	13.173	38.129	23.173	-	23.173	22.453	-	-	-	-	812.344
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>715.416</b>	<b>13.173</b>	<b>38.129</b>	<b>23.173</b>	<b>-</b>	<b>23.173</b>	<b>22.453</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>812.344</b>

*(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 provides support to the Network Army Modernization priority.

The Tactical Super High Frequency (SHF) Terminal (TSST) (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-156E will replace the AN/TSC-156D in the Expeditionary Signal Battalion - Enhanced (ESB-E) which will provide mobile, command and control, wideband communications at the Division, Corps and Joint Task Force Headquarters. The AN/TSC-156E is based on emerging architectures levied in the Transmission Systems Increment 1 Capabilities Production Document (CPD) to increase demand for satellite bandwidth, enable interface with strategic networks via Regional Hub Node (RHN), Standardized Tactical Entry Points (STEP), and end of life of the AN/TSC-156D.

The AN/TSC-156E serves as the solution for the ESB-E's large SATCOM terminal. The design of the AN/TSC-156E will leverage commercial off-the-shelf (COTS) solutions to increase reliable, flexible, mobile, extended range, Inter and Intra theater network communications transport operating over military and commercial satellite space segments, and provide high capacity communications links to support voice and data. The AN/TSC-156E will utilize a transit-case based concept allowing for rapid deployments with or without the vehicle support. 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. 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.

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.245	38.129	7.725	-	7.725	14.969	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.952	-	7.724	-	7.724	-	-	-	-



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications					<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.976	-	7.724	-	7.724	7.484	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>13.173</b>	<b>38.129</b>	<b>23.173</b>	-	<b>23.173</b>	<b>22.453</b>	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 715.416	- / 13.173	- / 38.129	- / 23.173	- / -	- / 23.173
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 715.416</b>	<b>- / 13.173</b>	<b>- / 38.129</b>	<b>- / 23.173</b>	<b>- / -</b>	<b>- / 23.173</b>

\*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 2023 Base procurement dollars in the amount of \$23.173 million supports the procurement of 8 E-Model terminals, pipeline spares, testing, fielding, and training under a 5-year competitive follow-on production contract. Funding also supports procurement of GFE, Government and Contractor support, systems engineering, and software licenses. E-Model terminals will be fielded to Expeditionary Signal Battalions-Enhanced (ESB-Es) and Multi Domain Task Force (MDTF) 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>						<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18			<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term			<b>Item Number / Title [DODIC]:</b> BA9350 / SHF Term		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			715.416	13.173	38.129	23.173	-	23.173
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			715.416	13.173	38.129	23.173	-	23.173
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>715.416</b>	<b>13.173</b>	<b>38.129</b>	<b>23.173</b>	-	<b>23.173</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Flyaway Cost</b>																		
Recurring Cost																		
SHF Terminals	-	-	184.906	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE	-	-	3.934	-	-	3.064	-	-	1.920	-	-	1.351	-	-	-	-	-	1.351
E-Model Terminals <sup>(†)</sup>	14,277.750	4	57.111	1,529.000	3	4.587	1,446.889	18	26.044	1,698.375	8	13.587	-	-	-	1,698.375	8	13.587
<i>Subtotal: Recurring Cost</i>	-	-	<i>245.951</i>	-	-	<i>7.651</i>	-	-	<i>27.964</i>	-	-	<i>14.938</i>	-	-	-	-	-	<i>14.938</i>
Non Recurring Cost																		
Data/ Test	-	-	3.064	-	-	0.235	-	-	0.161	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>3.064</i>	-	-	<i>0.235</i>	-	-	<i>0.161</i>	-	-	<i>0.250</i>	-	-	-	-	-	<i>0.250</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>249.015</i>	-	-	<i>7.886</i>	-	-	<i>28.125</i>	-	-	<i>15.188</i>	-	-	-	-	-	<i>15.188</i>
<b>Software Cost</b>																		
Recurring Cost																		
FRP Software	-	-	-	-	-	-	-	-	-	-	-	0.081	-	-	-	-	-	0.081
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.081</i>	-	-	-	-	-	<i>0.081</i>
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.081</i>	-	-	-	-	-	<i>0.081</i>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding	-	-	0.219	-	-	1.386	-	-	0.220	-	-	1.100	-	-	-	-	-	1.100
Training	-	-	0.179	-	-	0.319	-	-	0.100	-	-	1.181	-	-	-	-	-	1.181
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.398</i>	-	-	<i>1.705</i>	-	-	<i>0.320</i>	-	-	<i>2.281</i>	-	-	-	-	-	<i>2.281</i>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term	<b>Item Number / Title [DODIC]:</b> BA9350 / SHF Term

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	0.398	-	-	1.705	-	-	0.320	-	-	2.281	-	-	-	-	-	2.281
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
Logistics Services	-	-	82.635	-	-	0.311	-	-	1.000	-	-	0.750	-	-	-	-	-	0.750
Obsolescence Mitigation/ D-Model Terminal Support	-	-	4.770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	87.405	-	-	0.311	-	-	1.000	-	-	0.750	-	-	-	-	-	0.750
<b>Non Recurring Cost</b>																		
Depot Pipeline / Organic Maintenance Build Up	-	-	0.211	-	-	0.634	-	-	2.839	-	-	1.742	-	-	-	-	-	1.742
<i>Subtotal: Non Recurring Cost</i>	-	-	0.211	-	-	0.634	-	-	2.839	-	-	1.742	-	-	-	-	-	1.742
<i>Subtotal: Logistics Cost</i>	-	-	87.616	-	-	0.945	-	-	3.839	-	-	2.492	-	-	-	-	-	2.492
<b>Support - Program Management Cost</b>																		
Government Management	-	-	21.815	-	-	1.003	-	-	1.834	-	-	1.181	-	-	-	-	-	1.181
Contractor Management	-	-	20.199	-	-	1.008	-	-	2.752	-	-	0.890	-	-	-	-	-	0.890
<i>Subtotal: Support - Program Management Cost</i>	-	-	42.014	-	-	2.011	-	-	4.586	-	-	2.071	-	-	-	-	-	2.071
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	323.363	-	-	0.626	-	-	1.259	-	-	1.060	-	-	-	-	-	1.060
<i>Subtotal: Support - System Engineering Cost</i>	-	-	323.363	-	-	0.626	-	-	1.259	-	-	1.060	-	-	-	-	-	1.060
<b>Support - Training Cost</b>																		
Services	-	-	13.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	13.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	715.416	-	-	13.173	-	-	38.129	-	-	23.173	-	-	-	-	-	23.173

**Remarks:**

GFE cost decrease coincides with reduced E-Model quantity procurement in FY23.

E-Model Terminal unit costs increase in FY23 due to elimination of range-quantity discounts provided in FY22.

Data/Test represents Joint Interoperability Test Certification (JITC), government acceptance, and other testing required of production units.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term	<b>Item Number / Title [DODIC]:</b> BA9350 / SHF Term

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Package Fielding Costs includes fielding and NET efforts and is aligned with FY23's current fielding and training schedules.

Software license procurement will begin in FY23 for FRP terminals via Enterprise Licensing Agreements (ELAs). Software enables interfacing with multiple devices, which allows operator/soldiers to control the 2.2 meter antenna via laptop.

The FY23 Depot Pipeline/Organic Maintenance represents on-board and pipeline spares to support the fielding of 2 complete ESB-Es. The decrease from FY22 is due to changes to the pipeline supply plan. Spares procurement has been adjusted to align with hardware procurement.

FY23 Program Management - Government decreased in FY23 due to correlation of overhead to total funding. Government support consists of CORE travel, Matrix personnel labor and travel requirement, program oversight, risk management, and some fielding support. CORE Government program management is paid with OMA.

FY23 Program Management - Contractor consists of SETA support personnel, to include Programmatic, Logistics, System Engineering, and Technical Support.

Systems Engineering is for SME engineers and technical control personnel.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	7.245	38.129	7.725	-	7.725
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	3.952	-	7.724	-	7.724
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	1.976	-	7.724	-	7.724
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>13.173</b>	<b>38.129</b>	<b>23.173</b>	-	<b>23.173</b>

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term	<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2021	Envistacom / Duluth, GA	C / FFP	Duluth, GA	Dec 2020	Feb 2021	3	1,529.000	N		
E-Model Terminals <sup>(†)</sup>		2022	Envistacom / Duluth, GA	C / FFP	Duluth, GA	Apr 2022	Dec 2022	18	1,446.889	N		
E-Model Terminals <sup>(†)</sup>		2023	TBD / TBD	Option / FFP	TBD	Jan 2023	Sep 2023	8	1,698.375	N		

<sup>(†)</sup> 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).

FY23 production quantities will be awarded as a modification to the Follow-on contract (to be competed in FY22-23).

Competitive contract planned for March 2022 has been delayed until 1QFY23. Initial production quantities will be procured in FY22 via existing DLA contract vehicles, FRP quantities will be procured via Follow-on contract upon award.

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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term	<b>Item Number / Title [DODIC]:</b> BA9350 / SHF Term
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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		
E-Model Terminals																																	
Prior Years Deliveries: 4																																	
	2	2021	ARMY	3	0	3			A -	-		1	2																0				
	2	2022	ARMY	18	0	18																					A -	-	-	-	-	-	18
	1	2023	ARMY	8	0	8																									8		
									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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term	<b>Item Number / Title [DODIC]:</b> BA9350 / SHF Term
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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
E-Model Terminals																															
Prior Years Deliveries: 4																															
	2	2021	ARMY	3	3	0																							0		
	2	2022	ARMY	18	0	18	-	-	4	4	4																		6		
	1	2023	ARMY	8	0	8				A	-	-	-	-	-	-	-	-	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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9810BA9350 / SHF Term	<b>Item Number / Title [DODIC]:</b> BA9350 / SHF Term
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	4	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 FY23.

"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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604120A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	615	2,141	1,742	1,814	-	1,814	2,130	4,226	3,984	4,186	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	43.452	140.953	112.791	184.911	-	184.911	201.449	196.802	197.325	206.081	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	43.452	140.953	112.791	184.911	-	184.911	201.449	196.802	197.325	206.081	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>43.452</b>	<b>140.953</b>	<b>112.791</b>	<b>184.911</b>	<b>-</b>	<b>184.911</b>	<b>201.449</b>	<b>196.802</b>	<b>197.325</b>	<b>206.081</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 Army Modernization Priorities and supports Assured Positioning, Navigation and Timing (APNT) .

Assured Positioning, Navigation and Timing (APNT) provides Army combat forces access to assured PNT under conditions where Global Positioning Systems (GPS) may be limited or denied (jammed and spoofed) in support of the 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).

Approved Requirements: The Dismounted APNT System (DAPS) Capabilities Development Document (CDD) was Joint Requirements Oversight Council (JROC) approved on 28 January 2022. The Army Requirements Oversight Council (AROC) approved the Mounted APNT System (MAPS) CDD on 12 September 2020. MAPS and DAPS are implementing Congressional and OSD guidance to develop and field Military Code (M-Code) Global Positioning System (GPS) Ground user Equipment. The AROC approved the Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Modular Open Suite of Standards (CMOSS) Mounted Form Factor (CMFF) Abbreviated Capabilities Development Document (A-CDD) on 04 January 2021. In support of House Report 116-442, 2020, the program will prototype modular cards and software according to the Modular Open System Approach (MOSA) standards, for future modernization and new weapons systems. On 31 January, 19 March, and 10 August 2019, the MAPS, DAPS, and Alternative Navigation (ALTNAV) Directed Requirements were approved, respectively. An abbreviated Capabilities Development Document (A-CDD) for the ALTNAV capability is drafted and in staffing. 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.

Assured PNT consists of:

SSN K49010 - Mounted/Dismounted Receiver: Deploys Resiliency and Software Assurance Measures (RSAM) to legacy Selective Availability and Anti-Spoof Module (SAASM) based military Global Positioning System (GPS) receivers, including Defense Advanced GPS Receiver (DAGR) and embedded Ground Based - GPS Receiver Applications Module (GB-GRAM) to recognize, reject, and report bad navigation data until more effective PNT solutions are deployed.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing

<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604120A
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**Line Item MDAP/MAIS Code:** N/A

SSN K49020 - Dismounted Hub: The Dismounted Assured PNT (APNT) System (DAPS) is a near term and enduring capability that implements congressional and OSD guidance to develop and field Military Code (M-Code) Global Positioning System (GPS) to dismounted Soldiers, Commanders, and applicable End User Devices to provide assured timing and position data necessary to effectively engage targets, share data across the network, and conduct mission command functions. DAPS will deliver APNT in an optimized form factor that supports dismounted mission profiles in denied environments and use cases where mounted APNT solutions are not available. DAPS is being fielded to execute the DAPS Directed Requirement (March 2019). The DAPS system is being developed to execute the Joint Requirements Oversight Council (JROC) approved DAPS Capability Development Document (January 2022) requirements and will provide an increased capability to include Alternative Navigation (ALTNV) signal and stand-alone operation. The DAPS will enable the Dismounted Team Leader up through the Commander with APNT 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 APNT System (MAPS) will deliver systems that provide the Army's combat forces access to assured PNT information under conditions where space-based GPS may be limited or denied to enable Army forces the ability to move, shoot, communicate, and provide situational awareness. MAPS addresses two critical capability gaps: Access and Integrity. Access is the ability to retrieve PNT information in a contested Electronic Warfare/Cyber environment. Integrity is the ability to trust the PNT information. 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 Cyber Electromagnetic Activity (CEMA) Operational Needs Statements. The MAPS GEN II system is the enduring capability to meet the Army Requirements Oversight Council (AROC) approved Capability Development Document (September 2020). Congressional (10 USC 2281) and Department of Defense guidance to provide resilient, survivable, and M-Code capable Ground User Equipment receivers. The MAPS GEN II provides increased capability to include M-Code GPS, Alternative Navigation (ALTNV) 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 GPS) are fused together to distribute an assured PNT solution to the platform and onboard client systems; and an Anti-Jam Antenna System (AJAS) mounted externally on the platform to protect access to GPS and receive ALTNV signals. This capability will deliver distributed assured PNT capabilities to Armored, Stryker and Infantry Brigade Combat Team (BCT) platforms in an iterative and affordable manner that allows for future modernization.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	2,141	1,742	1,814	-	1,814	2,130	4,226	3,984	4,186
	Total Obligation Authority	140.953	112.791	184.911	-	184.911	201.449	196.802	197.325	206.081
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>2,141</b>	<b>1,742</b>	<b>1,814</b>	<b>-</b>	<b>1,814</b>	<b>2,130</b>	<b>4,226</b>	<b>3,984</b>	<b>4,186</b>
	<b>Total Obligation Authority</b>	<b>140.953</b>	<b>112.791</b>	<b>184.911</b>	<b>-</b>	<b>184.911</b>	<b>201.449</b>	<b>196.802</b>	<b>197.325</b>	<b>206.081</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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:** 0604120A

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	- / 2.127	- / -	- / 2.127
P-5	K49020 / Dismounted Hub	P-5a, P-21	B		- / -	1,388 / 48.449	1,242 / 30.143	698 / 26.769	- / -	698 / 26.769
P-5	K49030 / Mounted Hub A-PNT	P-5a, P-21	B		615 / 41.728	753 / 86.610	500 / 80.658	1,116 / 156.015	- / -	1,116 / 156.015
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>615 / 43.452</b>	<b>2,141 / 140.953</b>	<b>1,742 / 112.791</b>	<b>1,814 / 184.911</b>	<b>- / -</b>	<b>1,814 / 184.911</b>

\*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 2023 Base dollars in the amount of \$184.911 million will support the following:

SSN K49010 - Mounted/Dismounted Receiver: FY 2023 base procurement dollars in the amount of \$2.127 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 2023 base procurement dollars in the amount of \$26.769 million supports fielding of Dismounted Assured Position Navigation and Timing Systems (DAPS) to execute the Directed Requirement. Procurement of 698 DAPS systems, spares, long lead components, and integrated logistics support and engineering services to support Production Qualification Test, Initial Operational Test & Evaluation, demonstrate ramp up to production quantities and field to initial Infantry Brigade Combat Team (IBCT).

SSN K49030 - Mounted Hub A-PNT: FY 2023 base procurement in the amount of \$156.015 million procures 1,116 Mounted Assured Positioning, Navigation and Timing System (MAPS) GEN II for Follow on Test and Evaluation, fielding to Armored, Stryker Brigade Combat Teams and integrates on platforms and client systems. FY 2023 base procurement dollars includes \$3.216 Million for MAPS GEN I logistics support to European Deterrence Initiative (EDI).

All Quantities are for the Active component.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>													<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18						<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing						<b>Item Number / Title [DODIC]:</b> K49010 / Mounted/Dismounted Receivers						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				1.724		5.894		1.990		2.127		-		2.127				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				1.724		5.894		1.990		2.127		-		2.127				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
<b>Total Obligation Authority (\$ in Millions)</b>				<b>1.724</b>		<b>5.894</b>		<b>1.990</b>		<b>2.127</b>		<b>-</b>		<b>2.127</b>				
<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.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Logistics Cost																		
Recurring Cost																		
FSR Support, SETA Support	-	-	0.500	-	-	1.739	-	-	1.730	-	-	1.790	-	-	-	-	-	1.790
<i>Subtotal: Recurring Cost</i>	-	-	0.500	-	-	1.739	-	-	1.730	-	-	1.790	-	-	-	-	-	1.790
Non Recurring Cost																		
Post Software Release Product Support	-	-	0.580	-	-	3.192	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	0.580	-	-	3.192	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics Cost</i>	-	-	1.080	-	-	4.931	-	-	1.730	-	-	1.790	-	-	-	-	-	1.790
Support - Program Management Cost																		
Contractor Management	-	-	0.644	-	-	0.963	-	-	0.260	-	-	0.337	-	-	-	-	-	0.337
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.644	-	-	0.963	-	-	0.260	-	-	0.337	-	-	-	-	-	0.337
<b>Gross/Weapon System Cost</b>	-	-	1.724	-	-	5.894	-	-	1.990	-	-	2.127	-	-	-	-	-	2.127
<b>Secondary Distribution</b>						<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>				
Army						Quantity		-		-		-		-				
						Total Obligation Authority		5.894		1.990		2.127		-				

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army			<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18		<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing		<b>Item Number / Title [DODIC]:</b> K49010 / Mounted/Dismounted Receivers		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	5.894	1.990	2.127	-	2.127

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>						<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18				<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing			<b>Item Number / Title [DODIC]:</b> K49020 / Dismounted Hub		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )				-	1,388	1,242	698	-	698
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-	48.449	30.143	26.769	-	26.769
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )				-	48.449	30.143	26.769	-	26.769
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				-	<b>48.449</b>	<b>30.143</b>	<b>26.769</b>	-	<b>26.769</b>
<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> )				-	34.906	24.270	38.351	-	38.351

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
DAPS Hardware (QRC) <sup>(†)</sup>	-	-	-	20.462	611	12.502	-	-	-	-	-	-	-	-	-	-	-	-
DAPS Hardware Handheld (QRC) <sup>(†)</sup>	-	-	-	15.546	777	12.079	15.151	1,242	18.818	-	-	-	-	-	-	-	-	-
DAPS Hardware (POR) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	15.072	698	10.520	-	-	15.072	698	10.520	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	24.581	-	-	18.818	-	-	10.520	-	-	-	-	-	10.520
<b>Non Recurring Cost</b>																		
DAPS Software Configuration Modifications	-	-	-	-	-	-	-	-	-	-	-	1.108	-	-	-	-	-	1.108
DAPS Production Equipment and Engineering Services	-	-	-	-	-	8.717	-	-	-	-	-	3.282	-	-	-	-	-	3.282
Net Warrior System Integration Lab Support	-	-	-	-	-	0.753	-	-	-	-	-	0.753	-	-	-	-	-	0.753
DAPS Long Lead Components	-	-	-	-	-	-	-	-	3.028	-	-	3.521	-	-	-	-	-	3.521
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	9.470	-	-	3.028	-	-	8.664	-	-	-	-	-	8.664
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	34.051	-	-	21.846	-	-	19.184	-	-	-	-	-	19.184
<b>Package Fielding Cost</b>																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18						<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing						<b>Item Number / Title [DODIC]:</b> K49020 / Dismounted Hub					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B										<b>MDAP/MAIS Code:</b>							
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Recurring Cost</b>																		
Product Support Services	-	-	-	-	-	-	-	-	0.637	-	-	1.876	-	-	-	-	-	1.876
Interim Logistics Support Repairs	-	-	-	-	-	-	-	-	0.071	-	-	0.341	-	-	-	-	-	0.341
Initial Spares/Repairs Parts	-	-	-	-	-	5.915	-	-	3.012	-	-	1.052	-	-	-	-	-	1.052
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.915	-	-	3.720	-	-	3.269	-	-	-	-	-	3.269
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	5.915	-	-	3.720	-	-	3.269	-	-	-	-	-	3.269
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
DAPS Data & Training	-	-	-	-	-	-	-	-	0.035	-	-	0.054	-	-	-	-	-	0.054
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.035	-	-	0.054	-	-	-	-	-	0.054
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	0.035	-	-	0.054	-	-	-	-	-	0.054
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	-	-	-	4.970	-	-	2.915	-	-	2.678	-	-	-	-	-	2.678
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	4.970	-	-	2.915	-	-	2.678	-	-	-	-	-	2.678
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	-	-	-	3.512	-	-	1.627	-	-	1.584	-	-	-	-	-	1.584
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	3.512	-	-	1.627	-	-	1.584	-	-	-	-	-	1.584
<b>Gross/Weapon System Cost</b>	-	-	-	34.906	1,388	48.449	24.270	1,242	30.143	38.351	698	26.769	-	-	-	38.351	698	26.769

**Remarks:**

Due to current contractor supply chain challenges, hardware components are required in order to maintain a production schedule that meets the Dismounted Assured PNT (APNT) System (DAPS) Unit fielding schedule.

DAPS Software Configuration Modifications costs includes efforts associated with defining, allocating, generating, integrating, and testing software changes to the DAPS system.

DAPS Production Equipment and Engineering Services costs are for DAPS Hardware (Program of Record) production line setup to support low-rate and full-scale production of the system.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	1,388	1,242	698	-	698
	Total Obligation Authority	48.449	30.143	26.769	-	26.769



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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> K49020 / Dismounted Hub
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Total:</b>	<b>Quantity</b>	1,388	1,242	698	-	698
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	48.449	30.143	26.769	-	26.769

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> 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 (QRC)		2021	Integrated Solutions for Systems, Inc. (IS4S) / Huntsville, AL	MIPR	Philadelphia, PA	Mar 2021	Apr 2022	611	20.462	N		
DAPS Hardware Handheld (QRC)		2021	TRX Systems Inc. / Greenbelt, MD	C / FFP	ACC, APG	Sep 2021	Apr 2022	777	15.546	N		
DAPS Hardware Handheld (QRC)		2022	TRX Systems Inc. / Greenbelt, MD	SS / FFP	ACC, APG	Feb 2022	Jan 2023	1,242	15.151	N		
DAPS Hardware (POR) <sup>(†)</sup>		2023	TRX Systems Inc. (POR) / Greenbelt, MD	SS / TBD	ACC, APG	Apr 2023	Jul 2023	698	15.072	N		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> K49020 / Dismounted Hub
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021														Fiscal Year 2022														BALANCE	
O C C O	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 (POR)																																			
	1	2023	ARMY	698	0	698																								698					
							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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> 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 (POR)																															
1		2023	ARMY	698	0	698																									
																														0	

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> K49020 / Dismounted Hub
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	TRX Systems Inc.(POR) - Greenbelt, MD	100	250	600	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18		<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing
		<b>Item Number / Title [DODIC]:</b> K49030 / Mounted Hub A-PNT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	615	753	500	1,116	-	1,116
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	41.728	86.610	80.658	156.015	-	156.015
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	41.728	86.610	80.658	156.015	-	156.015
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>41.728</b>	<b>86.610</b>	<b>80.658</b>	<b>156.015</b>	<b>-</b>	<b>156.015</b>

*(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> )	67.850	115.020	161.316	139.798	-	139.798

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Mounted APNT Systems GEN I QRC B-Kits <sup>(†)</sup>	44.566	615	27.408	51.233	894	45.802	-	-	-	-	-	-	-	-	-	-	-	-
Mounted APNT Systems GEN I QRC A-Kits	8.780	615	5.400	9.235	894	8.256	-	-	-	-	-	-	-	-	-	-	-	-
Mounted APNT Systems GEN II POR B-Kits <sup>(†)</sup>	-	-	-	-	-	-	64.240	500	32.120	61.424	1,116	68.549	-	-	-	61.424	1,116	68.549
Mounted APNT Systems GEN II POR A-Kits	-	-	-	-	-	-	7.798	500	3.899	7.025	1,116	7.840	-	-	-	7.025	1,116	7.840
<i>Subtotal: Recurring Cost</i>	-	-	<i>32.808</i>	-	-	<i>54.058</i>	-	-	<i>36.019</i>	-	-	<i>76.389</i>	-	-	-	-	-	<i>76.389</i>
<i>Subtotal: Hardware Cost</i>	-	-	<b><i>32.808</i></b>	-	-	<b><i>54.058</i></b>	-	-	<b><i>36.019</i></b>	-	-	<b><i>76.389</i></b>	-	-	-	-	-	<b><i>76.389</i></b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Installation	-	-	1.141	-	-	6.806	-	-	3.001	-	-	0.344	-	-	-	-	-	0.344
Interim Contractor Logistic Support	-	-	-	-	-	6.408	-	-	2.624	-	-	4.006	-	-	-	-	-	4.006
Spares	-	-	4.784	-	-	9.102	-	-	2.600	-	-	7.839	-	-	-	-	-	7.839
Training	-	-	0.246	-	-	1.670	-	-	1.425	-	-	2.261	-	-	-	-	-	2.261

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18						<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing						<b>Item Number / Title [DODIC]:</b> K49030 / Mounted Hub A-PNT					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B										<b>MDAP/MAIS Code:</b>							

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 & Logistics Support - Software	-	-	-	-	-	-	-	-	1.825	-	-	1.442	-	-	-	-	-	1.442
<i>Subtotal: Recurring Cost</i>	-	-	6.171	-	-	23.986	-	-	11.475	-	-	15.892	-	-	-	-	-	15.892
Non Recurring Cost																		
Mounted PNT Integration - Combat Platforms	-	-	-	-	-	-	-	-	3.611	-	-	27.739	-	-	-	-	-	27.739
Mounted PNT Integration - Combat Support Platforms	-	-	-	-	-	-	-	-	5.714	-	-	15.195	-	-	-	-	-	15.195
Mounted PNT Integration - Combat Systems Platforms	-	-	-	-	-	-	-	-	5.775	-	-	6.833	-	-	-	-	-	6.833
Engineering and Logistics Support - Production Line	-	-	-	-	-	2.820	-	-	8.526	-	-	3.552	-	-	-	-	-	3.552
Transportation	-	-	0.029	-	-	0.049	-	-	0.100	-	-	0.447	-	-	-	-	-	0.447
<i>Subtotal: Non Recurring Cost</i>	-	-	0.029	-	-	2.869	-	-	23.726	-	-	53.766	-	-	-	-	-	53.766
<i>Subtotal: Package Fielding Cost</i>	-	-	6.200	-	-	26.855	-	-	35.201	-	-	69.658	-	-	-	-	-	69.658
Support - Program Management Cost																		
Contractor Management	-	-	1.528	-	-	2.342	-	-	4.675	-	-	4.926	-	-	-	-	-	4.926
<i>Subtotal: Support - Program Management Cost</i>	-	-	1.528	-	-	2.342	-	-	4.675	-	-	4.926	-	-	-	-	-	4.926
Support - System Engineering Cost																		
System Engineering	-	-	1.192	-	-	3.355	-	-	4.763	-	-	5.042	-	-	-	-	-	5.042
<i>Subtotal: Support - System Engineering Cost</i>	-	-	1.192	-	-	3.355	-	-	4.763	-	-	5.042	-	-	-	-	-	5.042
<b>Gross/Weapon System Cost</b>	<b>67.850</b>	<b>615</b>	<b>41.728</b>	<b>115.020</b>	<b>753</b>	<b>86.610</b>	<b>161.316</b>	<b>500</b>	<b>80.658</b>	<b>139.798</b>	<b>1,116</b>	<b>156.015</b>	-	-	-	<b>139.798</b>	<b>1,116</b>	<b>156.015</b>

**Remarks:**

FY2022 Production MAPS GEN I (Quick Reaction Capability) Akit and Bkit funding reduced to zero due to completion of equipping of priority units aligned to United States Army, Europe (USAREUR) and Cyber Electromagnetic Activity (CEMA) operational needs statements (ONS) in 1Q FY2023. The dollars were allocated to Hardware and Engineering and Logistics support - Production Line for MAPS GEN II Program of Record (POR) with increased capability (e.g. M-code and ALTNAV fusion capabilities) to defeat current and emerging threats against the most challenging adversaries.

FY2023 Package Fielding Recurring installation funds MAPS GEN II

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> K49030 / Mounted Hub A-PNT
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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FY2023 Package Fielding Recurring Interim Contractor Logistics Support funds MAPS GEN I Field Service Representatives and original equipment manufacturer engineering support

FY2023 Package Fielding Recurring Spares are approximately 10% of fielding hardware

FY2023 Package Fielding Recurring Training funds MAPS GEN II Logistics Demonstration along with technical manuals and new equipment training material, validation and verification supporting Initial Operational Test and Evaluation (IOT&E)

FY2023 Package Fielding Recurring Engineering and Logistics Support funds software support for MAPS GEN II

FY2023 Non Recurring Package Fielding Cost for Integration funds MAPS GEN II client system and platform integration supporting follow on Operational Test and Evaluation and fielding aligned to draft Basis of Issue Feeder Data

FY2023 Non Recurring Package Fielding Cost for Engineering and Logistics Support funds establishing the production line supporting the MAPS GEN II production contract award planned for 3Q FY2022

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	753	500	1,116	-	1,116
	Total Obligation Authority	86.610	80.658	156.015	-	156.015
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>753</b>	<b>500</b>	<b>1,116</b>	<b>-</b>	<b>1,116</b>
	<b>Total Obligation Authority</b>	<b>86.610</b>	<b>80.658</b>	<b>156.015</b>	<b>-</b>	<b>156.015</b>

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



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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> 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	894	51.233	N		
Mounted APNT Systems GEN II POR B-Kits <sup>(†)</sup>		2022	TBD / TBD	C / TBD	APG, MD	Jun 2022	Jul 2023	500	64.240	N		
Mounted APNT Systems GEN II POR B-Kits <sup>(†)</sup>		2023	TBD / TBD	C / TBD	APG, MD	Jan 2023	Apr 2024	1,116	61.424	N		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> K49030 / Mounted Hub A-PNT
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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
Mounted APNT Systems GEN II POR B-Kits																															
	1	2022	ARMY	500	0	500																							500		
	1	2023	ARMY	1,116	0	1,116																							1,116		
							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 2023 Army **Date:** April 2022

**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 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
Mounted APNT Systems GEN II POR B-Kits																														
	1	2022	ARMY	500	70	430	40	50	70	70	100	100																	0	
	1	2023	ARMY	1,116	0	1,116	-	-	-	-	-	-	100	100	172	172	172	172	128	100									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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9897K49000 / Assured Positioning, Navigation and Timing	<b>Item Number / Title [DODIC]:</b> K49030 / Mounted Hub A-PNT
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	20	172	258	0	0	0	0	0	0	0	0	0

**Remarks:**  
Estimated Production schedule based on June 2022 contract award.

"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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	<b>P-1 Line Item Number / Title:</b> 9903BC4000 / EHF SATELLITE COMMUNICATION
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	5.853	-	5.853	19.514	37.694	37.804	37.788	-	138.653
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	5.853	-	5.853	19.514	37.694	37.804	37.788	-	138.653
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	-	-	<b>5.853</b>	-	<b>5.853</b>	<b>19.514</b>	<b>37.694</b>	<b>37.804</b>	<b>37.788</b>	-	<b>138.653</b>

*(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 Priority.

Protected Anti-jam Tactical SATCOM (Protected SATCOM) fills a critical communications gap for Anti-jam SATCOM capability for mobile ground forces conducting expeditionary operations in electronically contested environments. It provides the ability for the Army tactical terminals to be resilient in a contested environment and protect against catastrophic loss of situational awareness and command and control during critical battle movement with Anti-jam capabilities.

Air Force/Army Anti-Jam Modem (A3M) will offer tactical Army protection against interference that is either intentional or unintentional. These DoD Joint efforts are synchronized with United States Space Force (USSF) and Army for execution of Protected Tactical Waveforms (PTW) on Wideband Global SATCOM (WGS), Protected Tactical Satellites (PTS), and commercial SATCOM systems. Project is focused on the procurement and fielding of A3M Block I and Block II Modems to Army Tactical SATCOM Terminals. The Capabilities Development Document (CDD) is expected to be validated and approved by 4QFY22.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	5.853	-	5.853	13.659	26.386	26.463
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	3.903	7.538	7.561	7.557
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	1.952	3.770	3.780	3.779
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	-	<b>5.853</b>	-	<b>5.853</b>	<b>19.514</b>	<b>37.694</b>	<b>37.804</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	<b>P-1 Line Item Number / Title:</b> 9903BC4000 / EHF SATELLITE COMMUNICATION
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	B34002 / Protected Anti Jam Tactical SATCOM	P-5a			- / -	- / -	- / -	- / 5.853	- / -	- / 5.853
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	- / -	- / 5.853	- / -	- / 5.853

\*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 2023 base procurement dollars in the amount of \$5.853M supports the procurement of 63 A3M Block I modems, and associated fielding, training, data, and non-recurring engineering (NRE) support. System engineering and program management costs are also required to support the Protected SATCOM A3M Block I development and support associated with the program. Funds in this budget line are a new start Program.

EHF SATELLITE COMMUNICATION is a new start in FY 2023.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9903BC4000 / EHF SATELLITE COMMUNICATION	<b>Item Number / Title [DODIC]:</b> B34002 / Protected Anti Jam Tactical SATCOM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	-	-	5.853	-	5.853
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		-	-	-	5.853	-	5.853
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		-	-	-	<b>5.853</b>	-	<b>5.853</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Block I Modems <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	49.619	63	3.126	-	-	-	49.619	63	3.126
Systems Engineering	-	-	-	-	-	-	-	-	-	-	-	0.133	-	-	-	-	-	0.133
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.259	-	-	-	-	-	3.259
Non Recurring Cost																		
Non-Recurring Engineering (NRE) Drawings	-	-	-	-	-	-	-	-	-	-	-	0.287	-	-	-	-	-	0.287
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.287	-	-	-	-	-	0.287
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.546	-	-	-	-	-	3.546
<b>Logistics Cost</b>																		
Recurring Cost																		
Fielding Training	-	-	-	-	-	-	-	-	-	-	-	0.319	-	-	-	-	-	0.319
Data Tech Manuals	-	-	-	-	-	-	-	-	-	-	-	0.865	-	-	-	-	-	0.865
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.184	-	-	-	-	-	1.184
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.184	-	-	-	-	-	1.184
<b>Support - Program Management Cost</b>																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	0.521	-	-	-	-	-	0.521
Contractor Management	-	-	-	-	-	-	-	-	-	-	-	0.602	-	-	-	-	-	0.602



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18	<b>P-1 Line Item Number / Title:</b> 9903BC4000 / EHF SATELLITE COMMUNICATION	<b>Item Number / Title [DODIC]:</b> B34002 / Protected Anti Jam Tactical SATCOM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.123	-	-	-	-	-	1.123
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	-	-	5.853	-	-	-	-	-	5.853

**Remarks:**  
 FY 2023 A3M Block I modems, including warranties and other associated integration and production costs.  
 FY 2023 System Engineering supports the Protected SATCOM A3M Block I procurement and support associated with the program.  
 FY 2023 Non Recurring Engineering (NRE) for any required production level III drawing updates.  
 FY 2023 Fielding and Training costs include spares, shipping and training packages.  
 FY 2023 Data and Technical Manual supports updates to technical data, providing instructions for installation, operation, maintenance, training, and support, formatted into a technical manual.  
 FY 2023 Government Program Management consists of matrix personnel labor and travel requirements. This includes all required program oversight, system engineering and technical control, risk management, and fielding support. CORE Government program management is paid with OMA.  
 FY 2023 Contractor PMO SETA support personnel to include, programmatic, logistical (program and system engineering and technical assistance). This encompasses the overall planning, direction, and control of the definition, development, and production of the system/program, including functions of logistics engineering and integrated logistics support (ILS) management (e.g., maintenance support, facilities, personnel, training, testing, and activation of a system).  
 EHF SATELLITE COMMUNICATION is a new start in FY 2023.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	5.853	-	5.853
<b>Total:</b>	Quantity	-	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	-	-	5.853	-	5.853

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 18			<b>P-1 Line Item Number / Title:</b> 9903BC4000 / EHF SATELLITE COMMUNICATION				<b>Item Number / Title [DODIC]:</b> B34002 / Protected Anti Jam Tactical SATCOM					
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
Block I Modems		2023	TBD / TBD	C / FFP	TBD	Mar 2023	Jul 2023	63	49.619	N		

**Remarks:**  
A3M Block I Modem Production quantities will be awarded via a competitive contract in FY 2023.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	787.294	8.900	15.407	4.916	-	4.916	-	-	-	-	-	816.517
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	787.294	8.900	15.407	4.916	-	4.916	-	-	-	-	-	816.517
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>787.294</b>	<b>8.900</b>	<b>15.407</b>	<b>4.916</b>	<b>-</b>	<b>4.916</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>816.517</b>

*(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 provides support to the Network Army Modernization Priority.

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 through tech refresh, software upgrades, and operator training.

The Approved Acquisition Objective (AAO) is 324 terminals plus 15 terminals procured for the DoD Special Users; Army Procurement Objective (APO) is 278; ACAT Level II (Inactive).

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.900	10.407	4.916	-	4.916	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
AR	Total Obligation Authority	-	4.000	-	-	-	-	-	-	-
	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.000	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>8.900</b>	<b>15.407</b>	<b>4.916</b>	-	<b>4.916</b>	-	-	-	-

**Justification:**  
FY 2023 Base procurement dollars in the amount of \$4.916 million supports Modification Work Order (MWO) upgrades, fielding, training, and system engineering (includes Army Support Service efforts, Information Assurance Vulnerability Alerts (IAVA), and logistics training base support).

a) SMART-T Upgrades include 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). This also includes unit refresher training, necessary due to an increase in usage caused by intensified electronic warfare threats.

b) Procurement funding supports MWO upgrades to existing systems, therefore, no new quantities/end items will be procured. The MWO upgrades include T-MPSS Mission Planner, Ethernet IP capability, and exploratory Wide Area Network (WAN) solution as a potential emerging, low cost baseband solution that converts Ethernet to Serial for encrypted data over high speed networks. The Wide Area Network (WAN) solution bridges Ethernet Packages or routes the Internet Protocol through a high speed WAN. The WAN also supports Point to Point and Frame Relay WAN protocols with 24/7 interoperability. This technology is currently under test to determine feasibility as an alternate solution.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	339.102	8.510	2.763	3.179	-	3.179	0.001	-	-	-	-	353.555
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	339.102	8.510	2.763	3.179	-	3.179	0.001	-	-	-	-	353.555
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>339.102</b>	<b>8.510</b>	<b>2.763</b>	<b>3.179</b>	<b>-</b>	<b>3.179</b>	<b>0.001</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>353.555</b>

*(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:**

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. 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.510	2.763	1.059	-	1.059	0.001	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	2.120	-	2.120	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>8.510</b>	<b>2.763</b>	<b>3.179</b>	<b>-</b>	<b>3.179</b>	<b>0.001</b>	<b>-</b>	<b>-</b>

**Justification:**

FY 2023 Base procurement funds in the amount of \$3.179 million will be used to complete training and fielding requirements of remaining TSR-11, and complete all programmatic, testing, and certification requirements to transition and close out GBS program by 4QFY23.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		<b>P-1 Line Item Number / Title:</b> 9915BC4120 / Global Brdcst Svc - GBS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	30.088	9.936	-	-	-	-	-	-	-	-	-	40.024
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	30.088	9.936	-	-	-	-	-	-	-	-	-	40.024
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>30.088</b>	<b>9.936</b>	-	-	-	-	-	-	-	-	-	<b>40.024</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	9.936	-	-	-	-	-	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>9.936</b>	-	-	-	-	-	-	-	-

**Justification:**

B09900 has no funding request in FY 2023.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	443	380	791	422	-	422	493	373	325	281	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	88.030	86.198	99.858	94.287	-	94.287	106.611	110.237	110.509	110.419	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	88.030	86.198	99.858	94.287	-	94.287	106.611	110.237	110.509	110.419	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>88.030</b>	<b>86.198</b>	<b>99.858</b>	<b>94.287</b>	<b>-</b>	<b>94.287</b>	<b>106.611</b>	<b>110.237</b>	<b>110.509</b>	<b>110.419</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	198.713	226.837	126.243	223.429	-	223.429	216.249	295.542	340.028	392.950	Continuing	Continuing

**Description:**

This funding line is directly aligned to the Army Network Modernization priority 1.

Efforts are 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, Unified Network.

The COE Tactical Server Infrastructure (TSI) is the server hardware platform that hosts Command Post Computing Environment and enterprise software in Army units from Battalion echelon up through ASCC. CPCE/TSI provides the hardware infrastructure and computing resources to host capabilities, such as movement and maneuver applications, network enabling tools and warfighting function applications. TSI hardware is fielded with CPCE software Increments.

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 enduring Battle Command Common Services (BCSS) server stacks.

The Milestone Decision Authority (MDA) approved a Full Deployment Decision (FDD) to field CPCE Increment 1 capability on the TSI. CPCE Increment 1 First Unit Equipped (FUE) fielding began 6 January 2022.

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	280	554	295	-	295	345	261	228	198
Total Obligation Authority	62.260	69.901	66.000	-	66.000	74.628	77.166	77.357	77.293



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
ANG	Quantity	79	158	85	-	85	98	75	65	56
	Total Obligation Authority	19.580	19.972	18.858	-	18.858	21.322	22.047	22.102	22.084
AR	Quantity	21	79	42	-	42	50	37	32	27
	Total Obligation Authority	4.358	9.985	9.429	-	9.429	10.661	11.024	11.050	11.042
<b>Total:</b>	<b>Quantity</b>	<b>380</b>	<b>791</b>	<b>422</b>	<b>-</b>	<b>422</b>	<b>493</b>	<b>373</b>	<b>325</b>	<b>281</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>86.198</b>	<b>99.858</b>	<b>94.287</b>	<b>-</b>	<b>94.287</b>	<b>106.611</b>	<b>110.237</b>	<b>110.509</b>	<b>110.419</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			443 / 88.030	380 / 86.198	791 / 99.858	422 / 94.287	- / -	422 / 94.287
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>443 / 88.030</b>	<b>380 / 86.198</b>	<b>791 / 99.858</b>	<b>422 / 94.287</b>	<b>- / -</b>	<b>422 / 94.287</b>

\*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 2023 Base procurement funding in the amount of \$94.287 million supports the purchase of 89 TSI Large servers and 333 TSI Small servers to host Command Post Computing Environment (CPCE) core infrastructure software and warfighting function applications. These servers replace aging enduring BCCS/TSIv1 servers previously fielded as part of the TMC/MCS program of record. The Tactical Server Infrastructure (TSI) is the server hardware platform that hosts CPCE and enterprise software in Army units from Battalion echelon up through ASCC. CPCE/TSI provides the hardware infrastructure to host capabilities, such as movement and maneuver applications, network enabling tools 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 (Tactical DCO Infrastructure (TDI) and Cyber Situational Understanding (Cyber SU)) into the COE TSI.

Funding supports hosting of CPCE Increment 2 capabilities (Capability Drops 2 & 3) as part of CS23, as well as, CPCE/TSI integration with Cloud services, 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. Funding supports the fielding and training of converged/converging software, developed by external programs of record, including TDI and Cyber SU.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 24		<b>P-1 Line Item Number / Title:</b> 8151B70000 / COE Tactical Server Infrastructure (TSI)
		<b>Item Number / Title [DODIC]:</b> B70005 / Tactical Server Infrastructure (TSI)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)		443	380	791	422	-	422
Gross/Weapon System Cost (\$ in Millions)		88.030	86.198	99.858	94.287	-	94.287
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		88.030	86.198	99.858	94.287	-	94.287
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>88.030</b>	<b>86.198</b>	<b>99.858</b>	<b>94.287</b>	<b>-</b>	<b>94.287</b>
<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)		198.713	226.837	126.243	223.429	-	223.429

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Hardware TSI Large Server <sup>(f)</sup>	124.292	120	14.915	120.169	148	17.785	132.388	85	11.253	135.022	89	12.017	-	-	-	135.022	89	12.017
Hardware TSI Small Server (Laptop) <sup>(f)</sup>	19.424	323	6.274	23.919	259	6.195	21.482	706	15.166	21.907	333	7.295	-	-	-	21.907	333	7.295
<i>Subtotal: Recurring Cost</i>	-	-	21.189	-	-	23.980	-	-	26.419	-	-	19.312	-	-	-	-	-	19.312
<i>Subtotal: Hardware Cost</i>	-	-	<b>21.189</b>	-	-	<b>23.980</b>	-	-	<b>26.419</b>	-	-	<b>19.312</b>	-	-	-	-	-	<b>19.312</b>
<b>Software Cost</b>																		
Recurring Cost																		
TSI Large SW Licenses	119.800	120	14.376	107.318	148	15.883	106.835	85	9.081	108.966	89	9.698	-	-	-	108.966	89	9.698
TSI Small SW Licenses	17.304	313	5.416	11.931	259	3.090	19.176	706	13.538	19.559	333	6.513	-	-	-	19.559	333	6.513
Software License Maintenance	-	-	19.063	-	-	20.504	-	-	22.762	-	-	28.602	-	-	-	-	-	28.602
Post Deployment Software Support	-	-	-	-	-	1.253	-	-	3.161	-	-	3.573	-	-	-	-	-	3.573
<i>Subtotal: Recurring Cost</i>	-	-	38.855	-	-	40.730	-	-	48.542	-	-	48.386	-	-	-	-	-	48.386
<i>Subtotal: Software Cost</i>	-	-	<b>38.855</b>	-	-	<b>40.730</b>	-	-	<b>48.542</b>	-	-	<b>48.386</b>	-	-	-	-	-	<b>48.386</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	8.304	-	-	2.913	-	-	3.190	-	-	4.851	-	-	-	-	-	4.851

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 24	<b>P-1 Line Item Number / Title:</b> 8151B70000 / COE Tactical Server Infrastructure (TSI)	<b>Item Number / Title [DODIC]:</b> B70005 / Tactical Server Infrastructure (TSI)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	8.304	-	-	2.913	-	-	3.190	-	-	4.851	-	-	-	-	-	4.851
<b>Support - Initial Spares and Repair Parts Cost</b>																		
Initial Spares and Repair Parts	-	-	1.415	-	-	3.670	-	-	2.450	-	-	2.437	-	-	-	-	-	2.437
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	1.415	-	-	3.670	-	-	2.450	-	-	2.437	-	-	-	-	-	2.437
<b>Support - New Equipment Training (NET) Cost</b>																		
Equipment	-	-	7.377	-	-	5.543	-	-	6.741	-	-	6.874	-	-	-	-	-	6.874
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	7.377	-	-	5.543	-	-	6.741	-	-	6.874	-	-	-	-	-	6.874
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	5.190	-	-	2.680	-	-	2.755	-	-	2.707	-	-	-	-	-	2.707
<i>Subtotal: Support - Program Management Cost</i>	-	-	5.190	-	-	2.680	-	-	2.755	-	-	2.707	-	-	-	-	-	2.707
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	4.250	-	-	4.665	-	-	7.896	-	-	7.880	-	-	-	-	-	7.880
<i>Subtotal: Support - System Engineering Cost</i>	-	-	4.250	-	-	4.665	-	-	7.896	-	-	7.880	-	-	-	-	-	7.880
<b>Support - Training Cost</b>																		
Equipment	-	-	1.450	-	-	2.017	-	-	1.865	-	-	1.840	-	-	-	-	-	1.840
<i>Subtotal: Support - Training Cost</i>	-	-	1.450	-	-	2.017	-	-	1.865	-	-	1.840	-	-	-	-	-	1.840
<b>Gross/Weapon System Cost</b>	198.713	443	88.030	226.837	380	86.198	126.243	791	99.858	223.429	422	94.287	-	-	-	223.429	422	94.287

**Remarks:**  
 Note 1: The TSI Large hardware supports 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. Quantities are dependent on the type of unit to be fielded; FY23 quantities based on projected unit formations.  
 Note 2: Unit costs for hardware based on CHS contract costs and software unit costs based on current Enterprise License Agreements.  
 Note 3: PDSS are those software support activities that occur after the deployment of the system. It 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 mitigation of Cyber vulnerabilities, and 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 6: Quantities procured in FY23 are dependent on fielding guidance from G3/5/7.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 24	<b>P-1 Line Item Number / Title:</b> 8151B70000 / COE Tactical Server Infrastructure (TSI)	<b>Item Number / Title [DODIC]:</b> B70005 / Tactical Server Infrastructure (TSI)

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

Note 7: Due to lead time of procured quantities, not all quantities will be fielded in the FY they are procured. This impacts fielding cost in the following FY.  
 Note 8: System Engineering cost increase in FY23 due to efforts to upgrade TSI V2 servers with TSI V3 servers (improved size, weight, and performance).

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	280	554	295	-	295
	Total Obligation Authority	62.260	69.901	66.000	-	66.000
ANG	Quantity	79	158	85	-	85
	Total Obligation Authority	19.580	19.972	18.858	-	18.858
AR	Quantity	21	79	42	-	42
	Total Obligation Authority	4.358	9.985	9.429	-	9.429
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>380</b>	<b>791</b>	<b>422</b>	<b>-</b>	<b>422</b>
	<b>Total Obligation Authority</b>	<b>86.198</b>	<b>99.858</b>	<b>94.287</b>	<b>-</b>	<b>94.287</b>

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army								<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 24			<b>P-1 Line Item Number / Title:</b> 8151B70000 / COE Tactical Server Infrastructure (TSI)					<b>Item Number / Title [DODIC]:</b> 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		2021	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2020	Mar 2021	148	120.169	Y		
Hardware TSI Large Server		2022	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2021	Feb 2022	85	132.388	Y		
Hardware TSI Large Server		2023	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2022	Feb 2023	89	135.022	Y		
Hardware TSI Small Server (Laptop)		2021	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen, Proving Ground, MD	Nov 2020	Mar 2021	259	23.919	Y		
Hardware TSI Small Server (Laptop)		2022	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2021	Feb 2022	706	21.482	Y		
Hardware TSI Small Server (Laptop)		2023	General Dynamics / Taunton, MA	Option / IDIQ	Aberdeen Proving Ground, MD	Nov 2022	Feb 2023	333	21.907	Y		

**Remarks:**  
Per Army Regulation 25-1, COTS procurements leverage the Army's CHS contract with General Dynamics Mission Systems as the prime contractor.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,450.207	547.148	724.099	728.366	-	728.366	905.517	804.072	818.258	826.234	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,450.207	547.148	724.099	728.366	-	728.366	905.517	804.072	818.258	826.234	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,450.207</b>	<b>547.148</b>	<b>724.099</b>	<b>728.366</b>	<b>-</b>	<b>728.366</b>	<b>905.517</b>	<b>804.072</b>	<b>818.258</b>	<b>826.234</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 Priority 1.

This effort supports the Army Network Modernization Strategy Line of Effort 1, Unified Network.

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a single Acquisition Category 1C program encompassing handheld radios and manpack radios. Handheld radio variants include the legacy single-channel Rifleman Radio (RR), single-channel Single Channel Data Radio (SCDR), and two-channel Leader Radio (LR). The manpack variants include the legacy Generation 1 Manpack, and the current Generation 2 Manpack. 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) waveform for Classified and Unclassified communications. HMS radios also provide advanced waveforms (e.g., TrellisWare TSM) that provide Secure but Unclassified (SBU) and Secret and Below (SAB) 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 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 procures Non-Developmental Items (NDI) through full and open competition to all potential industry partners. The competitive strategy promotes not only cost savings, but innovation. These continual improvements result in better capabilities for the Warfighter. 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 and procures Leader Radios; the second contract was awarded on 26 February 2016 and procures MP Radios. The SCDRs will initially be purchased through an Other Transaction Agreement (OTA) with Microsoft. HMS will continue to pursue alternative contract strategies to include possible competitive IDIQ contracts, continue increase in capability through vendor incentivization of requirements and allow for vendor on-ramp and off-ramp opportunities.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604280A, 0605042A
<b>Line Item MDAP/MAIS Code:</b> 385		

HMS achieved a successful Full Rate Production (FRP) decision, for Manpack and Leader Radios, per the Army System Acquisition Review Council (ASARC) held on July 22, 2021. This milestone results in the ability to procure radios in sync with the current Army fielding priorities schedules. HMS will be able to rapidly replace legacy equipment with more efficient and better capable radios.

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. Achieved Full Rate Production (22 August 2021)
- f. Awarded FRP delivery order (23 September 2021)
- g. Awarded out of cycle FRP delivery order (16 December 2021)

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 & 12 November 2020)
- e. Achieved Full Rate Production (22 August 2021)
- f. Awarded FRP delivery order (22 September 2021)
- g. Awarded out of cycle FRP delivery order (13 December 2021)

The current AAO (Army Acquisition Objective) is 255,112:

- 85,964 Leader Radios
- 21,579 Rifleman Radios
- 68,000 Single Channel Data Radios
- 79,619 Manpack Radios (50 are Navy systems)

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	547.148	724.099	728.366	-	728.366	905.517	804.072	818.258	826.234
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>547.148</b>	<b>724.099</b>	<b>728.366</b>	-	<b>728.366</b>	<b>905.517</b>	<b>804.072</b>	<b>818.258</b>	<b>826.234</b>



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army	<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604280A, 0605042A
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**Line Item MDAP/MAIS Code:** 385

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / 428.486	- / 141.311	- / 307.425	- / 229.092	- / -	- / 229.092
P-5	B95007 / Manpack Radio	P-5a, P-21			- / 1,021.721	- / 405.837	- / 416.674	- / 499.274	- / -	- / 499.274
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 1,450.207</b>	<b>- / 547.148</b>	<b>- / 724.099</b>	<b>- / 728.366</b>	<b>- / -</b>	<b>- / 728.366</b>

\*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 2023 Base procurement dollars in the amount of \$728.366 million support the procurement of:

- 5,069 Leader Radios, 7,272 Single-Channel Data Radios, Non-Recurring Engineering (NRE), System Engineering and Program Management (SEPM), support equipment, fielding, and vehicle integration. (\$229.092 million).
- 6,858 Manpack Radios, NRE, SEPM, support equipment, fielding, vehicle integration, AGNR assets, and AGNR NRE. (\$499.274 million).

Single channel radios (SCDR) procured in the IVAS (K36402) program in FY21 will be procured by 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> B95006 / Handheld Radio

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	428.486	141.311	307.425	229.092	-	229.092
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	428.486	141.311	307.425	229.092	-	229.092
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>428.486</b>	<b>141.311</b>	<b>307.425</b>	<b>229.092</b>	<b>-</b>	<b>229.092</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Manufacturing - Leader Radio <sup>(†)</sup>	28.230	10,960	309.404	28.782	3,594	103.442	28.881	6,759	195.205	29.705	5,069	150.577	-	-	-	29.705	5,069	150.577
Manufacturing - Single-Channel Data Radios <sup>(†)</sup>	-	-	-	-	-	-	3.176	13,104	41.618	3.176	7,272	23.096	-	-	-	3.176	7,272	23.096
<i>Subtotal: Recurring Cost</i>	-	-	309.404	-	-	103.442	-	-	236.823	-	-	173.673	-	-	-	-	-	173.673
Non Recurring Cost																		
Hardware NRE	-	-	15.325	-	-	0.642	-	-	4.373	-	-	2.187	-	-	-	-	-	2.187
<i>Subtotal: Non Recurring Cost</i>	-	-	15.325	-	-	0.642	-	-	4.373	-	-	2.187	-	-	-	-	-	2.187
<i>Subtotal: Hardware Cost</i>	-	-	<b>324.729</b>	-	-	<b>104.084</b>	-	-	<b>241.196</b>	-	-	<b>175.860</b>	-	-	-	-	-	<b>175.860</b>
<b>Support - Common Support Equipment Cost</b>																		
Support and Handling Equipment	-	-	11.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	<b>11.054</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Data Cost</b>																		
Engineering Data	-	-	40.668	-	-	12.262	-	-	21.697	-	-	14.053	-	-	-	-	-	14.053
<i>Subtotal: Support - Data Cost</i>	-	-	<b>40.668</b>	-	-	<b>12.262</b>	-	-	<b>21.697</b>	-	-	<b>14.053</b>	-	-	-	-	-	<b>14.053</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	12.519	-	-	12.482	-	-	14.932	-	-	11.240	-	-	-	-	-	11.240

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32						<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)						<b>Item Number / Title [DODIC]:</b> B95006 / Handheld Radio					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	12.519	-	-	12.482	-	-	14.932	-	-	11.240	-	-	-	-	-	11.240
<b>Support - Initial Spares and Repair Parts Cost</b>																		
Initial Spares and Repair Parts	-	-	-	-	-	4.014	-	-	5.747	-	-	4.483	-	-	-	-	-	4.483
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	4.014	-	-	5.747	-	-	4.483	-	-	-	-	-	4.483
<b>Support - New Equipment Training (NET) Cost</b>																		
Equipment	-	-	0.691	-	-	2.096	-	-	1.807	-	-	2.236	-	-	-	-	-	2.236
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	0.691	-	-	2.096	-	-	1.807	-	-	2.236	-	-	-	-	-	2.236
<b>Support - Operational/Site Activation Cost</b>																		
System Assembly, Installation and Checkout on Site	-	-	3.816	-	-	0.963	-	-	8.448	-	-	6.354	-	-	-	-	-	6.354
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	3.816	-	-	0.963	-	-	8.448	-	-	6.354	-	-	-	-	-	6.354
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	18.486	-	-	4.637	-	-	7.193	-	-	9.564	-	-	-	-	-	9.564
<i>Subtotal: Support - System Engineering Cost</i>	-	-	18.486	-	-	4.637	-	-	7.193	-	-	9.564	-	-	-	-	-	9.564
<b>Support - System Technical Support (STS) Cost</b>																		
System Technical Support (STS)	-	-	10.064	-	-	0.100	-	-	2.140	-	-	0.642	-	-	-	-	-	0.642
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	10.064	-	-	0.100	-	-	2.140	-	-	0.642	-	-	-	-	-	0.642
<b>Support - System Test and Evaluation Cost</b>																		
Test and Evaluation Support	-	-	6.462	-	-	0.672	-	-	4.263	-	-	4.662	-	-	-	-	-	4.662
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	6.462	-	-	0.672	-	-	4.263	-	-	4.662	-	-	-	-	-	4.662
<b>Gross/Weapon System Cost</b>	-	-	428.486	-	-	141.311	-	-	307.425	-	-	229.092	-	-	-	-	-	229.092

**Remarks:**  
SCDDR quantity was reduced to align with IVAS program requirements.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> B95006 / Handheld Radio

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Recurring Manufacturing: This includes Leader Radio, 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, CECOM SEC facilitization support, LR battery study, depot level maintenance repair manual evaluation, depot level tooling setup, TS-4549 Test Sets

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, maintenance and repair logistics documentation, data escrow costs

Fielding Costs: Warranties, Contractor Logistics Support (CLS) Labor, Tobyhanna Army Depot (TYAD), Regional Support Center (RSC), and initial consumables costs

Operational/Site Activation: Installation costs (labor and travel) for mounted LR platforms.

Systems Engineering Costs: Matrix Government and SETA contract labor for system management and control, and PMO travel and LR radio vendor prime contractor SEPM costs.

System Technical Support (STS) Costs: Leader Radio Post Deployment Software Support and GD sustainment support (Prior)

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) For LR includes Operator and maintainer level NET training, radio network planner and operator training, Logistics Assistance Representatives (LARs), Mission Training Center (MTC), Combined Training Centers (JRTC, NTC, JRMC) and TRADOC and helpdesk training, For IVAS SCDR includes 1 FTE from FY22-26 to provide NET training oversight.

Initial Spares: Initial spare components, assemblies, and subassemblies to support end item fielding, with stock going to ILS-C to build HW spare stock levels

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	141.311	307.425	229.092	-	229.092
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>141.311</b>	<b>307.425</b>	<b>229.092</b>	-	<b>229.092</b>

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

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		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 <sup>(†)</sup>		2020	Thales Defense & Security, Inc. / Maryland	C / FFP	APG, MD	Nov 2020	Dec 2020	1,130	25.786	Y		Apr 2020
Manufacturing - Leader Radio <sup>(†)</sup>		2021	L3Harris Technologies / New York	C / FFP	APG, MD	Sep 2021	Oct 2021	2,498	24.460	N	Aug 2020	May 2021
Manufacturing - Leader Radio <sup>(†)</sup>		2021	Thales Defense & Security, Inc. / Maryland	C / FFP	APG, MD	Sep 2021	Nov 2021	1,096	0.000	N		
Manufacturing - Leader Radio <sup>(†)</sup>		2022	TBD / TBD	C / FFP	APG, MD	Aug 2022	Feb 2023	6,759	28.881	N	Oct 2022	May 2022
Manufacturing - Leader Radio <sup>(†)</sup>		2023	TBD / TBD	C / FFP	APG, MD	Jun 2023	Dec 2023	5,069	29.705	N	Sep 2022	Jul 2022
Manufacturing - Single-Channel Data Radios <sup>(†)</sup>		2022	TBD 2 / TBD	C / FFP	APG, MD	Sep 2022	Mar 2023	13,104	3.176	N	Aug 2022	Jun 2022
Manufacturing - Single-Channel Data Radios <sup>(†)</sup>		2023	TBD 2 / TBD	C / FFP	APG, MD	Jan 2023	Jul 2023	7,272	3.176	N	May 2022	Sep 2022

<sup>(†)</sup> 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 2023 Army **Date:** April 2022

**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 2021												Fiscal Year 2022												BALANCE		
O C C O	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
Manufacturing - Leader Radio																															
Prior Years Deliveries: 7540																															
	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	
	1	2021	ARMY	2.498	.000	2.498													A -	.040	-	-	-	-	2.458					.000	
	2	2021	ARMY	1.096	.000	1.096													A -	-	.040	-	-	-	1.056					.000	
	3	2022	ARMY	6.759	.000	6.759																					A -	-	6.759		
	3	2023	ARMY	5.069	.000	5.069																							5.069		
Manufacturing - Single-Channel Data Radios																															
	4	2022	ARMY	13.104	.000	13.104																						A -	13.104		
	4	2023	ARMY	7.272	.000	7.272																							7.272		
								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 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> B95006 / Handheld Radio
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Cost Elements <i>(Units in Thousands)</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
Manufacturing - Leader Radio																															
Prior Years Deliveries: 7540																															
	1	2020	ARMY	2.290	2.290	.000																							.000		
	2	2020	ARMY	1.130	1.130	.000																							.000		
	1	2021	ARMY	2.498	2.498	.000																							.000		
	2	2021	ARMY	1.096	1.096	.000																							.000		
	3	2022	ARMY	6.759	.000	6.759	-	-	-	-	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.259	.000			
	3	2023	ARMY	5.069	.000	5.069																						.831			
Manufacturing - Single-Channel Data Radios																															
	4	2022	ARMY	13.104	.000	13.104	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	1.104											.000		
	4	2023	ARMY	7.272	.000	7.272																						.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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> B95006 / Handheld Radio
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Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
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			
Manufacturing - Leader Radio																																	
Prior Years Deliveries: 7540																																	
	1	2020	ARMY	2.290	2.290	.000																							.000				
	2	2020	ARMY	1.130	1.130	.000																							.000				
	1	2021	ARMY	2.498	2.498	.000																							.000				
	2	2021	ARMY	1.096	1.096	.000																							.000				
	3	2022	ARMY	6.759	6.759	.000																							.000				
	3	2023	ARMY	5.069	4.238	.831		.424	.407																				.000				
Manufacturing - Single-Channel Data Radios																																	
	4	2022	ARMY	13.104	13.104	.000																							.000				
	4	2023	ARMY	7.272	7.272	.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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> B95006 / Handheld Radio
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	200	300	900	0	0	0	0	0	0	0	0	0
2	Thales Defense & Security, Inc. - Maryland	200	200	450	0	0	0	0	0	0	0	0	0
3	TBD - TBD	100	400	1,200	0	0	0	0	0	0	0	0	0
4	TBD 2 - TBD	100	400	1,200	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)
		<b>Item Number / Title [DODIC]:</b> B95007 / Manpack Radio

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				1,021.721	405.837	416.674	499.274	-	499.274
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				1,021.721	405.837	416.674	499.274	-	499.274
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>1,021.721</b>	<b>405.837</b>	<b>416.674</b>	<b>499.274</b>	<b>-</b>	<b>499.274</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Flyaway Cost</b>																		
Recurring Cost																		
Recurring Manufacturing - Manpack <sup>(†)</sup>	70.406	7,620	536.497	51.949	3,867	200.885	50.277	5,282	265.562	52.467	6,858	359.816	-	-	-	52.467	6,858	359.816
<i>Subtotal: Recurring Cost</i>	-	-	536.497	-	-	200.885	-	-	265.562	-	-	359.816	-	-	-	-	-	359.816
Non Recurring Cost																		
Hardware NRE	-	-	92.181	-	-	108.380	-	-	39.785	-	-	19.754	-	-	-	-	-	19.754
<i>Subtotal: Non Recurring Cost</i>	-	-	92.181	-	-	108.380	-	-	39.785	-	-	19.754	-	-	-	-	-	19.754
<i>Subtotal: Flyaway Cost</i>	-	-	<b>628.678</b>	-	-	<b>309.265</b>	-	-	<b>305.347</b>	-	-	<b>379.570</b>	-	-	-	-	-	<b>379.570</b>
<b>Support - Common Support Equipment Cost</b>																		
Support and Handling Equipment	-	-	144.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	<b>144.440</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Data Cost</b>																		
Engineering Data	-	-	36.759	-	-	2.492	-	-	18.027	-	-	7.995	-	-	-	-	-	7.995
<i>Subtotal: Support - Data Cost</i>	-	-	<b>36.759</b>	-	-	<b>2.492</b>	-	-	<b>18.027</b>	-	-	<b>7.995</b>	-	-	-	-	-	<b>7.995</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	65.278	-	-	46.548	-	-	43.544	-	-	47.616	-	-	-	-	-	47.616
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>65.278</b>	-	-	<b>46.548</b>	-	-	<b>43.544</b>	-	-	<b>47.616</b>	-	-	-	-	-	<b>47.616</b>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32						<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)						<b>Item Number / Title [DODIC]:</b> B95007 / Manpack Radio					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Support - Initial Spares and Repair Parts Cost</b>																		
Initial Spares and Repair Parts	-	-	-	-	-	7.230	-	-	7.189	-	-	8.762	-	-	-	-	-	8.762
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	<b>7.230</b>	-	-	<b>7.189</b>	-	-	<b>8.762</b>	-	-	-	-	-	<b>8.762</b>
<b>Support - New Equipment Training (NET) Cost</b>																		
Equipment	-	-	1.079	-	-	3.914	-	-	-	-	-	2.358	-	-	-	-	-	2.358
<i>Subtotal: Support - New Equipment Training (NET) Cost</i>	-	-	<b>1.079</b>	-	-	<b>3.914</b>	-	-	-	-	-	<b>2.358</b>	-	-	-	-	-	<b>2.358</b>
<b>Support - Operational/Site Activation Cost</b>																		
System Assembly, Installation and Checkout on Site	-	-	4.965	-	-	1.087	-	-	17.522	-	-	29.543	-	-	-	-	-	29.543
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	<b>4.965</b>	-	-	<b>1.087</b>	-	-	<b>17.522</b>	-	-	<b>29.543</b>	-	-	-	-	-	<b>29.543</b>
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	96.618	-	-	23.059	-	-	20.668	-	-	14.527	-	-	-	-	-	14.527
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<b>96.618</b>	-	-	<b>23.059</b>	-	-	<b>20.668</b>	-	-	<b>14.527</b>	-	-	-	-	-	<b>14.527</b>
<b>Support - System Technical Support (STS) Cost</b>																		
System Technical Support (STS)	-	-	34.386	-	-	5.242	-	-	0.813	-	-	0.973	-	-	-	-	-	0.973
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	<b>34.386</b>	-	-	<b>5.242</b>	-	-	<b>0.813</b>	-	-	<b>0.973</b>	-	-	-	-	-	<b>0.973</b>
<b>Support - System Test and Evaluation Cost</b>																		
Test and Evaluation Support	-	-	9.521	-	-	6.998	-	-	3.561	-	-	7.927	-	-	-	-	-	7.927
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	<b>9.521</b>	-	-	<b>6.998</b>	-	-	<b>3.561</b>	-	-	<b>7.927</b>	-	-	-	-	-	<b>7.927</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>1,021.721</b>	-	-	<b>405.837</b>	-	-	<b>416.674</b>	-	-	<b>499.274</b>	-	-	-	-	-	<b>499.274</b>

**Remarks:**  
Recurring Manufacturing: This includes Manpack Radio, as well as AGNR and A kits for mounted platforms.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> B95007 / Manpack Radio

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

**MDAP/MAIS Code:**

Non-recurring Cost: Vehicle integration NRE for MP, TSM porting and Warrior Robust Enhanced Network (WREN)/TSM certification, CECOM SEC facilitization support, MP battery study, depot level maintenance repair manual evaluation, depot level tooling setup, TS-4549 Test Sets

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.

Data Costs: Radio vendor Services and Contractor Data Requirements List (CDRL) contractual costs outside of hardware and warranty, maintenance and repair logistics documentation, data escrow costs

Fielding Costs: Warranties, Contractor Logistics Support (CLS) Labor, Tobyhanna Army Depot (TYAD), Regional Support Center (RSC), and initial consumables costs

Operational/Site Activation: Installation costs (labor and travel) for mounted MP platforms.

Systems Engineering Costs: Matrix Government and SETA contract labor for system management and control, and PMO travel and MP radio vendor prime contractor SEPM costs.

System Technical Support (STS) Costs: Manpack Radio Post Deployment Software Support and GD sustainment support (Prior)

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) For MP includes Operator and maintainer level NET training, radio network planner and operator training, Logistics Assistance Representatives (LARs), Mission Training Center (MTC), Combined Training Centers (JRTC, NTC, JRMC) and TRADOC and helpdesk training,

Initial Spares: Initial spare components, assemblies, and subassemblies to support end item fielding, with stock going to ILS-C to build HW spare stock levels

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	405.837	416.674	499.274	-	499.274
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>405.837</b>	<b>416.674</b>	<b>499.274</b>	-	<b>499.274</b>

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

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2020	Collins Aerospace / Iowa	C / FFP	APG, MD	Apr 2020	Dec 2020	1,720	0.000	N		
Recurring Manufacturing - Manpack <sup>(†)</sup>		2020	L3Harris Technologies / New York	C / FFP	APG, MD	Apr 2020	Dec 2020	1,720	53.810	N	Aug 2019	Nov 2019
Recurring Manufacturing - Manpack <sup>(†)</sup>		2021	Collins Aerospace / Iowa	C / FFP	APG, MD	Sep 2021	Dec 2021	1,547	51.145	N	Aug 2020	Nov 2020
Recurring Manufacturing - Manpack <sup>(†)</sup>		2021	L3Harris Technologies / New York	C / FFP	APG, MD	Sep 2021	Dec 2021	2,320	0.000	N		
Recurring Manufacturing - Manpack <sup>(†)</sup>		2022	TBD / TBD	C / FFP	APG, MD	Sep 2022	Mar 2023	5,282	50.277	N	Aug 2022	May 2022
Recurring Manufacturing - Manpack <sup>(†)</sup>		2023	TBD / TBD	C / FFP	APG, MD	Apr 2023	Oct 2023	6,858	52.467	N	Aug 2022	Aug 2022

<sup>(†)</sup> 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 Manpack IDIQ contracts are Harris Radio Corp (Rochester, NY) and Collins Aerospace (Cedar Rapids, IA). 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 2023 Army **Date:** April 2022

**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												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
Recurring Manufacturing - Manpack																															
Prior Years Deliveries: 4180																															
	1	2020	ARMY	1,720	0	1,720																									
	2	2020	ARMY	1,720	0	1,720																									
	1	2021	ARMY	1,547	0	1,547																						A -	1,547		
	2	2021	ARMY	2,320	0	2,320																						A -	2,320		
	3	2022	ARMY	5,282	0	5,282																							5,282		
	3	2023	ARMY	6,858	0	6,858																							6,858		
							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 2023 Army **Date:** April 2022

**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	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		
Recurring Manufacturing - Manpack																																	
Prior Years Deliveries: 4180																																	
1		2020	ARMY	1,720	1,720	0																							0				
2		2020	ARMY	1,720	1,720	0																							0				
1		2021	ARMY	1,547	0	1,547	-	-	387	-	-	387	-	-	387	-	-	386											0				
2		2021	ARMY	2,320	0	2,320	-	-	580	-	-	580	-	-	580	-	-	580											0				
3		2022	ARMY	5,282	0	5,282												A	-	-	-	-	-	-	440	440	440	440	2,202				
3		2023	ARMY	6,858	0	6,858																				A	-	-	-	-	-	-	6,858

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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

**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 2024												Fiscal Year 2025												BALANCE	
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 3	BAL D U E A S O F 1 O C T	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
Recurring Manufacturing - Manpack																															
Prior Years Deliveries: 4180																															
	1	2020	ARMY	1,720	1,720	0																							0		
	2	2020	ARMY	1,720	1,720	0																							0		
	1	2021	ARMY	1,547	1,547	0																							0		
	2	2021	ARMY	2,320	2,320	0																							0		
	3	2022	ARMY	5,282	3,080	2,202	440	440	440	440	442																		0		
	3	2023	ARMY	6,858	0	6,858	572	572	572	572	572	572	572	572	572	572	572	566											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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 6458B95004 / Handheld Manpack Small Form Fit (HMS)	<b>Item Number / Title [DODIC]:</b> B95007 / Manpack Radio
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	133	133	180	0	1,576	0	1,576	0	0	0	0
2	L3Harris Technologies - New York	133	133	300	0	1,576	0	1,576	0	0	0	0
3	TBD - TBD	60	150	600	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 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	229	-	-	-	-	-	-	-	-	-	-	229
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	158.419	8.237	-	-	-	-	-	-	-	-	-	166.656
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	158.419	8.237	-	-	-	-	-	-	-	-	-	166.656
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>158.419</b>	<b>8.237</b>	-	-	-	-	-	-	-	-	-	<b>166.656</b>

*(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> )	691.786	-	-	-	-	-	-	-	-	-	-	727.755

**Description:**

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	8.237	-	-	-	-	-	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	8.237	-	-	-	-	-	-	-	-

**Justification:**

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		<b>P-1 Line Item Number / Title:</b> 6948B22603 / Radio Terminal Set, MIDS LVT(2)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

B22603 has no funding request in FY 2023.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	14	-	14	54	79	59	36	-	242
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	17.749	47.581	-	47.581	60.627	52.662	41.921	32.868	-	253.408
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	17.749	47.581	-	47.581	60.627	52.662	41.921	32.868	-	253.408
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>17.749</b>	<b>47.581</b>	-	<b>47.581</b>	<b>60.627</b>	<b>52.662</b>	<b>41.921</b>	<b>32.868</b>	-	<b>253.408</b>

*(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> )	-	-	-	3,398.643	-	3,398.643	1,122.722	666.608	710.525	913.000	-	1,047.140

**Description:**

This funding line supports the Army Modernization Priority Air & Missile Defense.

B24400 Army Link 16 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 Link 16 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 Link 16 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	14	-	14	54	79	59	36
Total Obligation Authority	-	17.749	47.581	-	47.581	60.627	52.662	41.921	32.868
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	14	-	14	54	79	59	36
Total Obligation Authority	-	17.749	47.581	-	47.581	60.627	52.662	41.921	32.868

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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, P-21			- / -	- / -	- / 17.749	14 / 47.581	- / -	14 / 47.581
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	- / 17.749	14 / 47.581	- / -	14 / 47.581

\*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 2023 Base procurement dollars in the amount of \$32.860 million supports the procurement of 6 MIDS JTRS Ground Variant systems for schoolhouses and NET, ancillaries, assessments, warranties, software licenses, training events, Army Network Design Facility (ANDF) support, manuals, platform integration, and Systems Engineering and Program Management (SEPM).  
  
 FY 2023 BEDI procurement dollars in the amount of \$14.721 million supports the procurement of 13 MIDS JTRS Ground Variant systems for schoolhouses and NET, ancillaries, warranties, and platform integration which support Enduring Requirement for European Deterrence Initiative (EDI).  
  
 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 and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 7264B24400 / ARMY LINK 16 SYSTEMS	<b>Item Number / Title [DODIC]:</b> B24425 / MIDS JTRS GROUND VARIANT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	14	-	14
Gross/Weapon System Cost (\$ in Millions)	-	-	17.749	47.581	-	47.581
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	17.749	47.581	-	47.581
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>17.749</b>	<b>47.581</b>	-	<b>47.581</b>

*(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)	-	-	-	3,398.643	-	3,398.643

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Non Recurring Cost																		
MIDS JTRS GV TYAD, Platform Integration and Interoperability Hardware	-	-	-	-	-	-	-	-	12.501	-	-	33.593	-	-	-	-	-	33.593
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	12.501	-	-	33.593	-	-	-	-	-	33.593
<b>Subtotal: Hardware Cost</b>	-	-	-	-	-	-	-	-	<b>12.501</b>	-	-	<b>33.593</b>	-	-	-	-	-	<b>33.593</b>
<b>Software Cost</b>																		
Recurring Cost																		
Software Maintenance	-	-	-	-	-	-	-	-	0.960	-	-	0.981	-	-	-	-	-	0.981
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.960	-	-	0.981	-	-	-	-	-	0.981
<b>Subtotal: Software Cost</b>	-	-	-	-	-	-	-	-	<b>0.960</b>	-	-	<b>0.981</b>	-	-	-	-	-	<b>0.981</b>
<b>Support - Data Cost</b>																		
Technical Publications	-	-	-	-	-	-	-	-	0.350	-	-	0.179	-	-	-	-	-	0.179
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	0.350	-	-	0.179	-	-	-	-	-	0.179
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	-	-	-	-	-	-	1.270	-	-	2.317	-	-	-	-	-	2.317
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	1.270	-	-	2.317	-	-	-	-	-	2.317

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 7264B24400 / ARMY LINK 16 SYSTEMS	<b>Item Number / Title [DODIC]:</b> B24425 / MIDS JTRS GROUND VARIANT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	2.668	-	-	2.391	-	-	-	-	-	2.391
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	<b>2.668</b>	-	-	<b>2.391</b>	-	-	-	-	-	<b>2.391</b>
Support - Training Cost																		
Equipment <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	427.368	19	8.120	-	-	-	427.368	19	8.120
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>8.120</b>	-	-	-	-	-	<b>8.120</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	<b>17.749</b>	<b>3,398.643</b>	<b>14</b>	<b>47.581</b>	-	-	-	<b>3,398.643</b>	<b>14</b>	<b>47.581</b>

**Remarks:**

FY 2023 Base procurement dollars in the amount of \$32.860 million supports the procurement of 6 MIDS JTRS Ground Variant systems for schoolhouses and NET, ancillaries, assessments, warranties, software licenses, training events, Army Network Design Facility (ANDF) support, manuals, platform integration, and Systems Engineering and Program Management (SEPM).

FY 2023 BEDI procurement dollars in the amount of \$14.721 million supports the procurement of 13 MIDS JTRS Ground Variant systems for schoolhouses and NET, ancillaries, warranties, and platform integration which support Enduring Requirement for Operation in European Deterrence Initiative (EDI).

Non-Recurring Cost consists of MIDS-J units for test stations, ancillaries, warranty on test units (RTs only), and Platform Integration.

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

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

Support - System Test and Evaluation Cost consists of MIDS JTRS GV ATEC and SETA contract labor, Operational Assessment, and minor training event.

Support - Training Cost consists of MIDS JTRS GV schoolhouse RTs (1 Base/13 Bedi), NET assets (5 Base), training, ancillary schoolhouse equipment, and associated warranties.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	14	-	14
	Total Obligation Authority	-	17.749	47.581	-	47.581
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>14</b>	-	<b>14</b>
	<b>Total Obligation Authority</b>	-	<b>17.749</b>	<b>47.581</b>	-	<b>47.581</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 7264B24400 / ARMY LINK 16 SYSTEMS	<b>Item Number / Title [DODIC]:</b> B24425 / MIDS JTRS GROUND VARIANT
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>
<sup>(†)</sup> indicates the presence of a P-5a		



**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32			<b>P-1 Line Item Number / Title:</b> 7264B24400 / ARMY LINK 16 SYSTEMS				<b>Item Number / Title [DODIC]:</b> 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
Equipment <sup>(†)</sup>		2023	TBD / TBD	C / FFP	San Diego, CA	Jun 2023	Jun 2024	19	427.368	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
Note: Contractor and Location will be TBD until time of annual awards due to competition between Data Link Solutions L.L.C. and ViaSat, Inc.



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 7264B24400 / ARMY LINK 16 SYSTEMS
		<b>Item Number / Title [DODIC]:</b> B24425 / MIDS JTRS GROUND VARIANT

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	4	34	1,920	0	0	12	12	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	<b>P-1 Line Item Number / Title:</b> 8562B55510 / Tactical Communications And Protective System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	10.000	-	-	-	-	-	-	-	-	10.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	10.000	-	-	-	-	-	-	-	-	10.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>10.000</b>	-	-	-	-	-	-	-	-	<b>10.000</b>

*(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 Tactical Communications and Protective System (TCAPS) provides Soldiers with advanced active hearing protection that simultaneously protects Soldiers' hearing (from harmful Impulse and Steady-State Noises), while enabling situational awareness (e.g., enhanced ability to detect sounds) and mission command (e.g., voice communications over a tactical radio). TCAPS enhances survivability and situational awareness by protecting Soldiers from noise induced hearing loss. Soldiers wearing TCAPS are provided the capability to amplify faint sounds that under normal circumstance would not be audible or intelligible with the naked ear, as well as the ability to detect the direction of the sound, while wearing a hearing protection device.

TCAPS employs Commercial-Off-The-Shelf (COTS) solutions that are evaluated on a periodic basis, in order to validate performance requirements and Soldier acceptance. The best commercial solution(s) evaluated are transitioned into sustainment and fielding. TCAPS hearing protection contributes to the reduction of post-service disability compensation and limits lost in-service time related to hearing injuries. To accommodate existing situations for Soldiers not assigned a tactical radio, the TCAPS Program includes a TCAPS-Lite variant that provides hearing protection and situational awareness similar to that of a TCAPS.

TCAPS Approved Acquisition Objective is 111,347.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	10.000	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>10.000</b>	-	-	-	-	-	-

**Justification:**

Program has no FY2023 funding request.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		<b>P-1 Line Item Number / Title:</b> 8562B55510 / Tactical Communications And Protective System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
Program received a Congressional add of \$10.000 million in the FY 2022 enactment for active hearing protection.		
"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 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	111.709	19.579	17.984	20.178	-	20.178	18.911	20.291	20.352	20.343	-	249.347
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	111.709	19.579	17.984	20.178	-	20.178	18.911	20.291	20.352	20.343	-	249.347
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>111.709</b>	<b>19.579</b>	<b>17.984</b>	<b>20.178</b>	-	<b>20.178</b>	<b>18.911</b>	<b>20.291</b>	<b>20.352</b>	<b>20.343</b>	-	<b>249.347</b>

*(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 Command Post efforts (which address 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army Quantity	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	-	-	0.635	-	0.635	0.905	0.556	0.621	0.612
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.579	17.984	19.543	-	19.543	18.006	19.735	19.731	19.731
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>19.579</b>	<b>17.984</b>	<b>20.178</b>	<b>-</b>	<b>20.178</b>	<b>18.911</b>	<b>20.291</b>	<b>20.352</b>	<b>20.343</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / 111.709	- / 19.579	- / 17.984	- / 20.178	- / -	- / 20.178
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 111.709</b>	<b>- / 19.579</b>	<b>- / 17.984</b>	<b>- / 20.178</b>	<b>- / -</b>	<b>- / 20.178</b>

\*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 2023 Base funding in the amount of \$20.178 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). FY2023 funding will allow for the continued progress of modernizing the cryptographic equipment, which is a work package included in the Change Package VII WBS. Additionally, FY 2023 funding will be used to initiate efforts to modernize satellite communications (SATCOM) and the UCS Prime Mover, which are the work packages included in the UCS Block 3 Change Package I WBS.

The cryptographic system modernization includes encryption devices for NIPR and SIPR network data to ensure continued compliance with cyber policies. The SATCOM modernization includes the commercial Wideband Global SATCOM (WGS) satellites, as legacy systems will no longer be supported by the manufacturer. The UCS Prime Mover effort includes integrating existing shelters onto newly leased prime movers. Note, the UCS prime movers are leased approximately every ten (10) years through GSA and include a maintenance warranty that expires at the end of the lease. 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.

UCS Change Packages consist of multiple procurements of diverse hardware within a given technology area (e.g. cryptographic equipment). Significant unit cost increase from FY22 to FY23 in the same hardware line (change package VII) is due to price differences per unit of dissimilar subsystems procured. Although the per unit cost of the UCS system at the Change Package level remains unchanged, the price per unit of subsystem procured may vary widely in a given fiscal year.



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>											<b>Date:</b> April 2022						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32						<b>P-1 Line Item Number / Title:</b> 8563B58601 / Unified Command Suite					<b>Item Number / Title [DODIC]:</b> B58601 / Unified Command Suite						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :											<b>MDAP/MAIS Code:</b>						
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>			
Procurement Quantity ( <i>Units in Each</i> )				-		-		-		-		-		-			
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				111.709		19.579		17.984		20.178		-		20.178			
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-			
Net Procurement (P-1) ( <i>\$ in Millions</i> )				111.709		19.579		17.984		20.178		-		20.178			
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-			
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				<b>111.709</b>		<b>19.579</b>		<b>17.984</b>		<b>20.178</b>		<b>-</b>		<b>20.178</b>			
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	160.892	93	14.963	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Recurring Manufacturing - Server Modernization	61.000	40	2.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Recurring Manufacturing - Network Components	-	-	-	63.000	57	3.591	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32						<b>P-1 Line Item Number / Title:</b> 8563B58601 / Unified Command Suite						<b>Item Number / Title [DODIC]:</b> B58601 / Unified Command Suite					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	-	-	-	32.712	156	5.103	55.383	34	1.883	-	-	-	55.383	34	1.883
Block 3 Change Package I	-	-	-	-	-	-	-	-	-	92.990	94	8.741	-	-	-	92.990	94	8.741
<i>Subtotal: Recurring Cost</i>	-	-	19.424	-	-	6.801	-	-	5.103	-	-	10.624	-	-	-	-	-	10.624
<b>Non Recurring Cost</b>																		
Non-Recurring Manufacturing - VTC / BGAN	12.946	258	3.340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	3.340	-	-	4.174	-	-	4.642	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	22.764	-	-	10.975	-	-	9.745	-	-	10.624	-	-	-	-	-	10.624
<b>Support - Engineering Change Proposals Cost</b>																		
Engineering Change Proposals	-	-	3.668	-	-	3.268	-	-	3.441	-	-	3.685	-	-	-	-	-	3.685
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	3.668	-	-	3.268	-	-	3.441	-	-	3.685	-	-	-	-	-	3.685
<b>Support - Government Furnished Materials Cost</b>																		
Government Furnished Materials	5.750	64	0.368	-	-	0.164	-	-	0.161	-	-	0.175	-	-	-	-	-	0.175
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	0.368	-	-	0.164	-	-	0.161	-	-	0.175	-	-	-	-	-	0.175
<b>Support - Initial Spares and Repair Parts Cost</b>																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 8563B58601 / Unified Command Suite	<b>Item Number / Title [DODIC]:</b> B58601 / Unified Command Suite

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 and Repair Parts	-	-	0.676	-	-	0.515	-	-	0.507	-	-	0.552	-	-	-	-	-	0.552
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<b>0.676</b>	-	-	<b>0.515</b>	-	-	<b>0.507</b>	-	-	<b>0.552</b>	-	-	-	-	-	<b>0.552</b>
Support - Program Management Cost																		
Government Management	-	-	4.609	-	-	1.620	-	-	1.177	-	-	1.918	-	-	-	-	-	1.918
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>4.609</b>	-	-	<b>1.620</b>	-	-	<b>1.177</b>	-	-	<b>1.918</b>	-	-	-	-	-	<b>1.918</b>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.105	-	-	0.062	-	-	0.008	-	-	0.009	-	-	-	-	-	0.009
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	<b>0.105</b>	-	-	<b>0.062</b>	-	-	<b>0.008</b>	-	-	<b>0.009</b>	-	-	-	-	-	<b>0.009</b>
Support - System Engineering Cost																		
System Engineering	-	-	0.684	-	-	1.674	-	-	1.891	-	-	2.066	-	-	-	-	-	2.066
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<b>0.684</b>	-	-	<b>1.674</b>	-	-	<b>1.891</b>	-	-	<b>2.066</b>	-	-	-	-	-	<b>2.066</b>
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	1.396	-	-	1.090	-	-	0.845	-	-	0.921	-	-	-	-	-	0.921
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	<b>1.396</b>	-	-	<b>1.090</b>	-	-	<b>0.845</b>	-	-	<b>0.921</b>	-	-	-	-	-	<b>0.921</b>
Support - Training Cost																		
Equipment	-	-	0.268	-	-	0.211	-	-	0.209	-	-	0.228	-	-	-	-	-	0.228
<i>Subtotal: Support - Training Cost</i>	-	-	<b>0.268</b>	-	-	<b>0.211</b>	-	-	<b>0.209</b>	-	-	<b>0.228</b>	-	-	-	-	-	<b>0.228</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>111.709</b>	-	-	<b>19.579</b>	-	-	<b>17.984</b>	-	-	<b>20.178</b>	-	-	-	-	-	<b>20.178</b>

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.635	-	0.635
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	19.579	17.984	19.543	-	19.543
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army				<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 8563B58601 / Unified Command Suite		<b>Item Number / Title [DODIC]:</b> B58601 / Unified Command Suite		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	19.579	17.984	20.178	-	20.178

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**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	3,708	22,259	-	22,259	12,611	15,172	14,733	15,605	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	108.556	185.302	320.595	-	320.595	193.697	194.426	198.497	198.409	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	108.556	185.302	320.595	-	320.595	193.697	194.426	198.497	198.409	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>108.556</b>	<b>185.302</b>	<b>320.595</b>	-	<b>320.595</b>	<b>193.697</b>	<b>194.426</b>	<b>198.497</b>	<b>198.409</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	-	-	49.974	14.403	-	14.403	15.359	12.815	13.473	12.714	Continuing	Continuing

**Description:**

This funding line is directly aligned to the Army Network Modernization Priority 1. This line supports the Army Network Modernization Strategy Line of Effort 1, Unified Network.

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). Beginning in FY23 the Small Unit and Emergency Locator Communications line is aligned to Tactical Communications Components (B08111).

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 provide resilient software-defined communication systems and operational utility and adaptability through simplified and protected communications and are 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 Size, Weight and Power (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 (LCTRR) (B08105) supports the replacement and modernization of legacy Single Channel Ground and Airborne Radio System (SINGARS) to address emerging threats and meet National Security Agency (NSA)/Office of Secretary Defense mandated cryptographic modernization requirements. ("Combat Net Radio" (CNR) is synonymous with LCTRR.) 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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 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. The HF radios acquisition approach is based on a Class II Engineering Change Proposal (ECP) that utilizes 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. B98121 has no funding in FY 2023. Beginning in FY23 the Small Unit and Emergency Locator Communications line is aligned to Tactical Communications Components (B08111).

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	3,708	22,259	-	22,259	12,611	15,172	14,733	15,605
	Total Obligation Authority	108.556	185.302	320.595	-	320.595	193.697	194.426	198.497	198.409
<b>Total:</b>	<b>Quantity</b>	<b>-</b>	<b>3,708</b>	<b>22,259</b>	<b>-</b>	<b>22,259</b>	<b>12,611</b>	<b>15,172</b>	<b>14,733</b>	<b>15,605</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>108.556</b>	<b>185.302</b>	<b>320.595</b>	<b>-</b>	<b>320.595</b>	<b>193.697</b>	<b>194.426</b>	<b>198.497</b>	<b>198.409</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / -	- / -	2,143 / 51.632	11,327 / 178.613	- / -	11,327 / 178.613
P-5	B08111 / TACTICAL COMMUNICATIONS COMPONENTS	P-5a, P-21			- / -	- / -	1,565 / 31.819	10,302 / 97.969	- / -	10,302 / 97.969
P-5	B98111 / COMMUNICATIONS GATEWAYS	P-5a, P-21			- / -	- / 30.212	- / 33.639	- / 20.849	- / -	- / 20.849
P-5	B98120 / HIGH FREQUENCY RADIOS	P-5a, P-21			- / -	- / 21.040	- / 20.989	630 / 23.164	- / -	630 / 23.164
P-5	B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS	P-5a			- / -	- / 57.304	- / 47.223	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 108.556	3,708 / 185.302	22,259 / 320.595	- / -	22,259 / 320.595

\*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:**  
 FY2023 Base procurement dollars in the amount of \$320.595 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 2023 Base procurement dollars in the amount of \$178.613 million supports the procurement of Low Cost Tactical Radio Replacement (Combat Net Radio (CNR)) hardware, warranties, data, test and evaluation, non-recurring integration, initial spares, ILS support, fielding and SEPM.

Tactical Communications Components (B08111) FY 2023 Base procurement dollars in the amount of \$97.969 million procures LOS and Link 16 Radios, dual headsets, Battalion Tactical Radio Integration Kits, power wedges, software support, ancillaries, logistics, repairs, platform integration, fielding, technical data, sustainment support and SEPM in support of the ITN CS21/23 fielding.

Communication Gateways (B98111) FY 2023 Base procurement dollars in the amount of \$20.849 million procures communication gateways, ancillaries, software support, software licenses, technical data, fielding and SEPM in support of the ITN CS21/23 fielding.

HF Radio (B98120) FY 2023 Base procurement dollars in the amount of \$23.164 million will support the procurement of HF radios, ancillaries, initial spares, fielding, and SEPM.

Small Unit and Emergency Locator Communications (B98121) has no funding in FY 2023. Beginning in FY 2023 the Small Unit and Emergency Locator Communications line is aligned to Tactical Communication Components (B08111) to support LOS and Link 16 Radios, software support, ancillaries, logistics, repairs, integration, fielding, technical data, on demand support for SFAB units via FSRs and SEPM in support of the ITN CS21/23 fielding.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B08105 / Low Cost Tactical Radio Replacement (LCTRR)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	2,143	11,327	-	11,327
Gross/Weapon System Cost (\$ in Millions)	-	-	51.632	178.613	-	178.613
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	51.632	178.613	-	178.613
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>51.632</b>	<b>178.613</b>	-	<b>178.613</b>

*(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)	-	-	24.093	15.769	-	15.769

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Low Cost Tactical Radio Replacement (LCTRR) <sup>(†)</sup>	-	-	-	-	-	-	14.532	2,143	31.143	11.269	11,327	127.646	-	-	-	11.269	11,327	127.646
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	31.143	-	-	127.646	-	-	-	-	-	127.646
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	31.143	-	-	127.646	-	-	-	-	-	127.646
<b>Logistics Cost</b>																		
Recurring Cost																		
Warranty	-	-	-	-	-	-	-	-	-	-	-	9.245	-	-	-	-	-	9.245
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	9.245	-	-	-	-	-	9.245
Non Recurring Cost																		
NRE Integration	-	-	-	-	-	-	-	-	4.903	-	-	10.090	-	-	-	-	-	10.090
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	4.903	-	-	10.090	-	-	-	-	-	10.090
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	4.903	-	-	19.335	-	-	-	-	-	19.335
<b>Support - Data Cost</b>																		
Support Data Data	-	-	-	-	-	-	-	-	9.824	-	-	5.361	-	-	-	-	-	5.361
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	9.824	-	-	5.361	-	-	-	-	-	5.361
<b>Support - Fielding Cost</b>																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	7.422	-	-	-	-	-	7.422



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment
		<b>Item Number / Title [DODIC]:</b> B08105 / Low Cost Tactical Radio Replacement (LCTRR)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	-	-	-	-	-	-	-	-	-	7.422	-	-	-	-	-	7.422
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	1.258	-	-	5.902	-	-	-	-	-	5.902
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	1.258	-	-	5.902	-	-	-	-	-	5.902
Support - Logistics Cost																		
Integrated Logistics Support	-	-	-	-	-	-	-	-	-	-	-	0.600	-	-	-	-	-	0.600
<i>Subtotal: Support - Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.600	-	-	-	-	-	0.600
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	2.254	-	-	6.509	-	-	-	-	-	6.509
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	2.254	-	-	6.509	-	-	-	-	-	6.509
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	2.250	-	-	5.840	-	-	-	-	-	5.840
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	2.250	-	-	5.840	-	-	-	-	-	5.840
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	24.093	2,143	51.632	15.769	11,327	178.613	-	-	-	15.769	11,327	178.613

**Remarks:**  
 The increase in FY 2023 funding for LCTRR is due to quantity increase in FY 2023 needed for full rate production.

Acquisition strategy anticipates a multiple vendor contract award to meet production quantities needed for fielding to NSA cryptographic modernization goals. Upon contract award unit costs will be updated to reflect actuals.

Low Cost Tactical Radio Replacement (B08105) FY 2023 Base procurement dollars in the amount of \$178.613 million supports the procurement of Low Cost Tactical Radio Replacement (Combat Net Radio (CNR)) hardware, warranties, data, test and evaluation, non-recurring integration, initial spares, integrated logistics support, fielding and SEPM.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	2,143	11,327	-	11,327
	Total Obligation Authority	-	51.632	178.613	-	178.613

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B08105 / Low Cost Tactical Radio Replacement (LCTRR)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Total:</b>	<b>Quantity</b>	-	2,143	11,327	-	11,327
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	51.632	178.613	-	178.613

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32			<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment				<b>Item Number / Title [DODIC]:</b> B08105 / Low Cost Tactical Radio Replacement (LCTRR)					

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Low Cost Tactical Radio Replacement (LCTRR) <sup>(†)</sup>		2022	TBD / TBD	C / FFP	ACC	Mar 2022	Aug 2022	2,143	14.532	N		
Low Cost Tactical Radio Replacement (LCTRR) <sup>(†)</sup>		2023	TBD / TBD	C / FFP	ACC	Jun 2023	Nov 2023	11,327	11.269	N		

<sup>(†)</sup> indicates the presence of a P-21



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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32										<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment										<b>Item Number / Title [DODIC]:</b> B08105 / Low Cost Tactical Radio Replacement (LCTRR)									

Cost Elements <i>(Units in Thousands)</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
Low Cost Tactical Radio Replacement (LCTRR)																															
	1	2022	ARMY	2.143	2.143	.000																							.000		
	1	2023	ARMY	11.327	.000	11.327	-	.750	.943	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.634										.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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment
		<b>Item Number / Title [DODIC]:</b> B08105 / Low Cost Tactical Radio Replacement (LCTRR)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	5	5	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B08111 / TACTICAL COMMUNICATIONS COMPONENTS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	1,565	10,302	-	10,302
Gross/Weapon System Cost (\$ in Millions)	-	-	31.819	97.969	-	97.969
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	31.819	97.969	-	97.969
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>31.819</b>	<b>97.969</b>	-	<b>97.969</b>

*(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)	-	-	20.332	9.510	-	9.510

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
ITN Line of Sight Radios <sup>(†)</sup>	-	-	-	-	-	-	10.839	1,565	16.963	6.445	10,302	66.398	-	-	-	6.445	10,302	66.398
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	16.963	-	-	66.398	-	-	-	-	-	66.398
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	16.963	-	-	66.398	-	-	-	-	-	66.398
<b>Software Cost</b>																		
Recurring Cost																		
Enterprise Software Support	-	-	-	-	-	-	-	-	6.056	-	-	0.207	-	-	-	-	-	0.207
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	6.056	-	-	0.207	-	-	-	-	-	0.207
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	6.056	-	-	0.207	-	-	-	-	-	0.207
<b>Logistics Cost</b>																		
Recurring Cost																		
Logistics Sustainment	-	-	-	-	-	-	-	-	1.929	-	-	7.601	-	-	-	-	-	7.601
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	1.929	-	-	7.601	-	-	-	-	-	7.601
Non Recurring Cost																		
Integration	-	-	-	-	-	-	-	-	3.180	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	3.180	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	5.109	-	-	7.601	-	-	-	-	-	7.601
<b>Launch Cost</b>																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B08111 / TACTICAL COMMUNICATIONS COMPONENTS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
---------------------------------------------------------	------------------------

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Recurring Cost</b>																		
Out of Warranty Repair	-	-	-	-	-	-	-	-	-	-	-	0.219	-	-	-	-	-	0.219
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.219	-	-	-	-	-	0.219
<i>Subtotal: Launch Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.219	-	-	-	-	-	0.219
<b>Support - Data Cost</b>																		
Support Data Data	-	-	-	-	-	-	-	-	0.148	-	-	0.107	-	-	-	-	-	0.107
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	0.148	-	-	0.107	-	-	-	-	-	0.107
<b>Support - Fielding Cost</b>																		
Fielding	-	-	-	-	-	-	-	-	2.637	-	-	19.226	-	-	-	-	-	19.226
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	2.637	-	-	19.226	-	-	-	-	-	19.226
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	-	-	-	-	-	-	0.906	-	-	4.213	-	-	-	-	-	4.213
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	0.906	-	-	4.213	-	-	-	-	-	4.213
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	20.332	1,565	31.819	9.510	10,302	97.969	-	-	-	9.510	10,302	97.969

**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.

FY23 Funding increase is due to a funding realignment from the Small Unit and Emergency Locator Communications (B98121) line to the Tactical Communications Components (B08111) line.

FY 2023 Base procurement dollars in the amount of \$97.969 million procures LOS and Link 16 Radios, dual headsets, Battalion Tactical Radio Integration Kits, power wedges, software support, ancillaries, logistics, repairs, platform integration, fielding, technical data, on demand support for SFAB units via FSRs and SEPM in support of the ITN CS21/23 fielding.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	1,565	10,302	-	10,302
	Total Obligation Authority	-	31.819	97.969	-	97.969
<b>Total:</b>	<b>Quantity</b>	-	1,565	10,302	-	10,302



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B08111 / TACTICAL COMMUNICATIONS COMPONENTS

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Secondary Distribution	Total Obligation Authority	-	31.819	97.969	-	97.969

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32			<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ITN Line of Sight Radios <sup>(†)</sup>		2022	TBD / TBD	C / FFP	ACC-APG	Apr 2022	Jul 2022	1,565	10.839	N		
ITN Line of Sight Radios <sup>(†)</sup>		2023	TBD / TBD	C / FFP	ACC-APG	Apr 2023	Jul 2023	10,302	6.445	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

Procures LOS Radios, L16 Radios, BN TRIKS, Merlin Power wedges and Headsets, in support of the ITN CS21/23 fielding.



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32										<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment										<b>Item Number / Title [DODIC]:</b> B08111 / TACTICAL COMMUNICATIONS COMPONENTS									

Cost Elements <i>(Units in Thousands)</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
ITN Line of Sight Radios																															
	1	2022	ARMY	1.565	1.565	.000																							.000		
	1	2023	ARMY	10.302	2.700	7.602	.900	.900	.900	.900	.900	.861	.900	.441															.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	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment
<b>Item Number / Title [DODIC]:</b> B08111 / TACTICAL COMMUNICATIONS COMPONENTS		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	1,000	0	0	3	3	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**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B98111 / COMMUNICATIONS GATEWAYS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
---------------------------------------------------------	------------------------

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	30.212	33.639	20.849	-	20.849
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	30.212	33.639	20.849	-	20.849
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>30.212</b>	<b>33.639</b>	<b>20.849</b>	-	<b>20.849</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Small <sup>(†)</sup>	-	-	-	-	-	-	379.000	18	6.822	377.535	43	16.234	-	-	-	377.535	43	16.234
Radio Gateways Tactical Integration Kits <sup>(†)</sup>	-	-	-	135.161	56	7.569	128.721	147	18.922	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	7.569	-	-	25.744	-	-	16.234	-	-	-	-	-	16.234
Non Recurring Cost																		
Ancillaries	-	-	-	-	-	0.175	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.175	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	7.744	-	-	25.744	-	-	16.234	-	-	-	-	-	16.234
<b>Software Cost</b>																		
Non Recurring Cost																		
Software Enterprise Licenses	-	-	-	-	-	16.910	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	16.910	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	-	-	-	16.910	-	-	-	-	-	-	-	-	-	-	-	-
<b>Logistics Cost</b>																		
Recurring Cost																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment
		<b>Item Number / Title [DODIC]:</b> B98111 / COMMUNICATIONS GATEWAYS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
---------------------------------------------------------	------------------------

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Out of Warranty Repairs	-	-	-	-	-	-	-	-	0.039	-	-	0.031	-	-	-	-	-	0.031
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.039	-	-	0.031	-	-	-	-	-	0.031
Non Recurring Cost																		
Integration	-	-	-	-	-	2.083	-	-	-	-	-	-	-	-	-	-	-	-
Logistics Sustainment ECPs	-	-	-	-	-	-	-	-	0.453	-	-	0.118	-	-	-	-	-	0.118
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	2.083	-	-	0.453	-	-	0.118	-	-	-	-	-	0.118
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	2.083	-	-	0.492	-	-	0.149	-	-	-	-	-	0.149
Support - Data Cost																		
Technical Publications	-	-	-	-	-	-	-	-	0.017	-	-	0.022	-	-	-	-	-	0.022
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	0.017	-	-	0.022	-	-	-	-	-	0.022
Support - Fielding Cost																		
Fielding	-	-	-	-	-	0.941	-	-	4.585	-	-	3.547	-	-	-	-	-	3.547
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	0.941	-	-	4.585	-	-	3.547	-	-	-	-	-	3.547
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	2.534	-	-	2.801	-	-	0.897	-	-	-	-	-	0.897
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	2.534	-	-	2.801	-	-	0.897	-	-	-	-	-	0.897
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	30.212	-	-	33.639	-	-	20.849	-	-	-	-	-	20.849

**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 2023 Base procurement dollars in the amount of \$20.849 million procures communication gateways, ancillaries, technical data, fielding and SEPM in support of the ITN CS21/23 fielding.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	30.212	33.639	20.849	-	20.849

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B98111 / COMMUNICATIONS GATEWAYS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	30.212	33.639	20.849	-	20.849

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



**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32			<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment				<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2022	TBD / TBD	C / FFP	Aberdeen Proving Ground, MD	Apr 2022	Oct 2022	18	379.000	N	Oct 2022	Dec 2021
Small <sup>(†)</sup>		2023	TBD / TBD	C / FFP	Aberdeen Proving Ground, MD	Apr 2023	Oct 2023	43	377.535	N		
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

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

**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
								Calendar Year 2022														Calendar Year 2023											
OCO	FR#	FY	SERVICE	PROC	QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	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		18	0	18														5		7		6							0	
	1	2023	ARMY		43	0	43																									43	

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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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army																<b>Date:</b> April 2022													
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32										<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment										<b>Item Number / Title [DODIC]:</b> B98111 / COMMUNICATIONS GATEWAYS									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												B A L A N C E				
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			
Small																																		
	1	2022	ARMY	18	18	0																									0			
	1	2023	ARMY	43	0	43	22	10	11																									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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment
		<b>Item Number / Title [DODIC]:</b> B98111 / COMMUNICATIONS GATEWAYS

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	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).

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>						<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32				<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment			<b>Item Number / Title [DODIC]:</b> B98120 / HIGH FREQUENCY RADIOS		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	630	-	630
Gross/Weapon System Cost (\$ in Millions)				-	21.040	20.989	23.164	-	23.164
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	21.040	20.989	23.164	-	23.164
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>21.040</b>	<b>20.989</b>	<b>23.164</b>	-	<b>23.164</b>
<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)				-	-	-	36.768	-	36.768

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
High Frequency Radios <sup>(†)</sup>	-	-	-	25.894	634	16.417	27.421	565	15.493	29.151	630	18.365	-	-	-	29.151	630	18.365
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	16.417	-	-	15.493	-	-	18.365	-	-	-	-	-	18.365
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	16.417	-	-	15.493	-	-	18.365	-	-	-	-	-	18.365
<b>Support - Fielding Cost</b>																		
Fielding	-	-	-	-	-	1.606	-	-	2.096	-	-	1.266	-	-	-	-	-	1.266
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	1.606	-	-	2.096	-	-	1.266	-	-	-	-	-	1.266
<b>Support - Initial Spares and Repair Parts Cost</b>																		
Initial Spares and Repair Parts	-	-	-	-	-	1.606	-	-	1.506	-	-	1.722	-	-	-	-	-	1.722
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	1.606	-	-	1.506	-	-	1.722	-	-	-	-	-	1.722
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	-	-	-	1.027	-	-	1.339	-	-	1.398	-	-	-	-	-	1.398
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	1.027	-	-	1.339	-	-	1.398	-	-	-	-	-	1.398
<b>Support - System Test and Evaluation Cost</b>																		
Test and Evaluation Support	-	-	-	-	-	0.384	-	-	0.555	-	-	0.413	-	-	-	-	-	0.413

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32						<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment						<b>Item Number / Title [DODIC]:</b> B98120 / HIGH FREQUENCY RADIOS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 Test and Evaluation Cost</i>	-	-	-	-	-	0.384	-	-	0.555	-	-	0.413	-	-	-	-	-	0.413
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	21.040	-	-	20.989	36.768	630	23.164	-	-	-	36.768	630	23.164

**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 2023 Base procurement dollars in the amount of \$23.164 million will support the procurement of HF radios, ancillaries, initial spares, fielding, and SEPM.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	630	-	630
	Total Obligation Authority	21.040	20.989	23.164	-	23.164
<b>Total:</b>	<b>Quantity</b>	-	-	630	-	630
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	21.040	20.989	23.164	-	23.164

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2021	L3 HARRIS / Rochester, NY	C / FFP	Rochester, NY	Mar 2021	Aug 2021	634	25.894	Y		
High Frequency Radios <sup>(†)</sup>		2022	L3 HARRIS / Rochester, NY	C / FFP	Rochester, NY	Apr 2022	Sep 2022	565	27.421	Y		
High Frequency Radios <sup>(†)</sup>		2023	L3 HARRIS / Rochester, NY	C / FFP	Rochester, NY	Mar 2023	Aug 2023	630	29.151	Y		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

**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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C C O	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			
High Frequency Radios																																	
	1	2021	ARMY	634	0	634																								0			
	1	2022	ARMY	565	0	565																							425				
	1	2023	ARMY	630	0	630																							630				
							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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> 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 #	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	634	634	0																							0		
	1	2022	ARMY	565	140	425	145	150	130																				0		
	1	2023	ARMY	630	0	630											150	150	150	150	30								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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army								<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32				<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment				<b>Item Number / Title [DODIC]:</b> B98120 / HIGH FREQUENCY RADIOS				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	57.304	47.223	-	-	-
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	57.304	47.223	-	-	-
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>57.304</b>	<b>47.223</b>	-	-	-
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
ITN Systems of Radios <sup>(†)</sup>	-	-	-	5.096	8,137	41.470	4.217	7,833	33.031	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	41.470	-	-	33.031	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Ancillaries	-	-	-	-	-	0.631	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.631	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	<b>42.101</b>	-	-	<b>33.031</b>	-	-	-	-	-	-	-	-	-
<b>Logistics Cost</b>																		
Recurring Cost																		
Logistics Sustainment	-	-	-	-	-	-	-	-	0.640	-	-	-	-	-	-	-	-	-
Out of Warranty Repairs	-	-	-	-	-	-	-	-	0.066	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.706	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Integration	-	-	-	-	-	4.827	-	-	3.898	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	4.827	-	-	3.898	-	-	-	-	-	-	-	-	-
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	<b>4.827</b>	-	-	<b>4.604</b>	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment	<b>Item Number / Title [DODIC]:</b> B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 Cost																		
Technical Publications	-	-	-	-	-	0.300	-	-	0.658	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	<b>0.300</b>	-	-	<b>0.658</b>	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	-	-	-	6.025	-	-	6.865	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	<b>6.025</b>	-	-	<b>6.865</b>	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	4.055	-	-	2.064	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	<b>4.055</b>	-	-	<b>2.064</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>57.304</b>	-	-	<b>47.223</b>	-	-	-	-	-	-	-	-	-

**Remarks:**

SSN B98121 / SMALL UNIT AND EMERGENCY LOCATOR COMMUNICATIONS has no funding request in FY 2023.

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.

Small Unit and Emergency Locator Communications (B98121) has no funding in FY23. Beginning in FY 2023 the Small Unit and Emergency Locator Communications line is aligned to Tactical Communication Components (B08111) to support LOS and Link 16 Radios, software support, ancillaries, logistics, repairs, integration, fielding, technical data, on demand support for SFAB units via FSRs and SEPM in support of the ITN CS21/23 fielding.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	57.304	47.223	-	-	-
<b>Total:</b>	Quantity	-	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	<b>57.304</b>	<b>47.223</b>	-	-	-

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32			<b>P-1 Line Item Number / Title:</b> 9164BU8100 / COTS Communications Equipment				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ITN Systems of Radios		2021	TBD / TBD	C / Various	Various	Apr 2021	Oct 2021	8,137	5.096	N		Dec 2020
ITN Systems of Radios		2022	TBD / TBD	C / Various	Various	Apr 2022	Oct 2022	7,833	4.217	N		Dec 2021

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	<b>P-1 Line Item Number / Title:</b> 9885MA8000 / Family of Med Comm for Combat Casualty Care
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	4,589	600	298	47	-	47	-	-	-	-	-	5,534
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	598.289	19.570	15.957	7.621	-	7.621	-	-	-	-	-	641.437
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	598.289	19.570	15.957	7.621	-	7.621	-	-	-	-	-	641.437
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>598.289</b>	<b>19.570</b>	<b>15.957</b>	<b>7.621</b>	<b>-</b>	<b>7.621</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>641.437</b>

*(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> )	130.375	32.617	53.547	162.149	-	162.149	-	-	-	-	-	115.908

**Description:**

(Note: Note: Unit cost depends on the particular equipment LIN that is procured. The program procures six (6) LINs with significant range in unit cost, resulting in differing unit cost year over year, depending on the quantity of each LIN procured.)

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.

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	401	234	23	-	23	-	-	-	-
Total Obligation Authority	13.511	13.492	3.907	-	3.907	-	-	-	-

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		<b>P-1 Line Item Number / Title:</b> 9885MA8000 / Family of Med Comm for Combat Casualty Care
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
ANG	Quantity	122	35	14	-	14	-	-	-	-
	Total Obligation Authority	3.708	1.361	2.231	-	2.231	-	-	-	-
AR	Quantity	77	29	10	-	10	-	-	-	-
	Total Obligation Authority	2.351	1.104	1.483	-	1.483	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>600</b>	<b>298</b>	<b>47</b>	<b>-</b>	<b>47</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>19.570</b>	<b>15.957</b>	<b>7.621</b>	<b>-</b>	<b>7.621</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	<b>P-1 Line Item Number / Title:</b> 9885MA8000 / Family of Med Comm for Combat Casualty Care
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			4,589 / 598.289	600 / 19.570	298 / 15.957	47 / 7.621	- / -	47 / 7.621
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>4,589 / 598.289</b>	<b>600 / 19.570</b>	<b>298 / 15.957</b>	<b>47 / 7.621</b>	<b>- / -</b>	<b>47 / 7.621</b>

\*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 2023 Base procurement dollars in the amount of \$7.621 million procures 47 end components of the MC4 system for upgraded systems and provides new equipment training (NET) as needed for 1 Active Component Brigade Combat Team, 2 National Guard Sustainment Brigades, and 1 Army Reserve Forward Surgical Team, which completes MC4 hardware fielding to the Army force. Funding also provides contracted support to the program office management and supports cyber security compliance, hardware procurement, fielding and new equipment training. Upgraded hardware will be fielded to the deploying force with mission requirements, to maintain the electronic health record capability.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32		<b>P-1 Line Item Number / Title:</b> 9885MA8000 / Family of Med Comm for Combat Casualty Care
		<b>Item Number / Title [DODIC]:</b> MA8046 / Medical Comm For CBT Casualty Care (MC4)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	4,589	600	298	47	-	47
Gross/Weapon System Cost (\$ in Millions)	598.289	19.570	15.957	7.621	-	7.621
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	598.289	19.570	15.957	7.621	-	7.621
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>598.289</b>	<b>19.570</b>	<b>15.957</b>	<b>7.621</b>	<b>-</b>	<b>7.621</b>

*(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)	130.375	32.617	53.547	162.149	-	162.149

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	1,393.000	14	19.502	1,100.000	1	1.100	801.000	1	0.801	800.000	1	0.800	-	-	-	800.000	1	0.800
Production Engineering <sup>(†)</sup>	4,601.500	14	64.421	5,121.000	1	5.121	4,412.000	1	4.412	2,513.000	1	2.513	-	-	-	2,513.000	1	2.513
Product Office and Facility Support Administrative <sup>(†)</sup>	1,500.000	1	1.500	1,611.000	1	1.611	1,728.000	1	1.728	1,801.000	1	1.801	-	-	-	1,801.000	1	1.801
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>146.247</i>	<i>-</i>	<i>-</i>	<i>7.832</i>	<i>-</i>	<i>-</i>	<i>6.941</i>	<i>-</i>	<i>-</i>	<i>5.114</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>5.114</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>146.247</i>	<i>-</i>	<i>-</i>	<i>7.832</i>	<i>-</i>	<i>-</i>	<i>6.941</i>	<i>-</i>	<i>-</i>	<i>5.114</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>5.114</i>

Hardware Cost																		
Recurring Cost																		
Medical Information Systems Equipment <sup>(†)</sup>	4.439	75,898	336.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C27503 AN/TYQ 105 <sup>(†)</sup>	1.260	900	1.134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment	2.145	2,097	4.499	1.702	1,634	2.781	2.357	805	1.897	2.404	47	0.113	-	-	-	2.404	47	0.113

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9885MA8000 / Family of Med Comm for Combat Casualty Care	<b>Item Number / Title [DODIC]:</b> MA8046 / Medical Comm For CBT Casualty Care (MC4)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>																		
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v1 <sup>(†)</sup>	3.290	1,213	3.991	2.070	828	1.714	2.961	358	1.060	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C18209 AN/TYQ 107v2 <sup>(†)</sup>	2.625	283	0.743	1.875	257	0.482	2.396	53	0.127	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C41358 AN/TYQ 108v1 <sup>(†)</sup>	40.080	25	1.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C27571 AN/TYQ 108v2 <sup>(†)</sup>	43.440	25	1.086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C27639 AN/TYQ 108v3 (Small) <sup>(†)</sup>	3.791	239	0.906	2.392	209	0.500	2.476	231	0.572	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	350.237	-	-	5.477	-	-	3.656	-	-	0.113	-	-	-	-	-	0.113
<i>Subtotal: Hardware Cost</i>	-	-	350.237	-	-	5.477	-	-	3.656	-	-	0.113	-	-	-	-	-	0.113
<b>Package Fielding Cost</b>																		
<b>Recurring Cost</b>																		
Field equipment / conduct New Equip Train <sup>(†)</sup>	7,269.286	14	101.770	6,260.000	1	6.260	5,360.000	1	5.360	2,394.000	1	2.394	-	-	-	2,394.000	1	2.394
<i>Subtotal: Recurring Cost</i>	-	-	101.770	-	-	6.260	-	-	5.360	-	-	2.394	-	-	-	-	-	2.394
<i>Subtotal: Package Fielding Cost</i>	-	-	101.770	-	-	6.260	-	-	5.360	-	-	2.394	-	-	-	-	-	2.394
<b>Gross/Weapon System Cost</b>	<b>130.375</b>	<b>4,589</b>	<b>598.289</b>	<b>32.617</b>	<b>600</b>	<b>19.570</b>	<b>53.547</b>	<b>298</b>	<b>15.957</b>	<b>162.149</b>	<b>47</b>	<b>7.621</b>	-	-	-	<b>162.149</b>	<b>47</b>	<b>7.621</b>

**Remarks:**  
Unit cost depends on the particular equipment LIN that is procured. The program procures six (6) 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.

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9885MA8000 / Family of Med Comm for Combat Casualty Care	<b>Item Number / Title [DODIC]:</b> MA8046 / Medical Comm For CBT Casualty Care (MC4)

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**  
 This item is a Commercial Off the Shelf (COTS) / Government Off the Shelf (GOTS) item and does not require the P-21 form

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	401	234	23	-	23
	Total Obligation Authority	13.511	13.492	3.907	-	3.907
ANG	Quantity	122	35	14	-	14
	Total Obligation Authority	3.708	1.361	2.231	-	2.231
AR	Quantity	77	29	10	-	10
	Total Obligation Authority	2.351	1.104	1.483	-	1.483
<b>Total:</b>	<b>Quantity</b>	<b>600</b>	<b>298</b>	<b>47</b>	<b>-</b>	<b>47</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>19.570</b>	<b>15.957</b>	<b>7.621</b>	<b>-</b>	<b>7.621</b>

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
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	801.000	N		
PMO Management Support		2023	CACI / Reston, VA	Option / FP	GSA	Dec 2022	Jan 2023	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	5,121.000	N		May 2020
Production Engineering		2022	TBS / TBS	Option / CPFF	GSA	Dec 2021	Jan 2022	1	4,412.000	N		
Production Engineering		2023	CACI / Reston, VA	Option / FP	GSA	Dec 2022	Jan 2023	1	2,513.000	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 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	805	2.357	N	Sep 2021	Oct 2021
Medical Information Systems Equipment LIN C18345 AN/TYQ 106v1		2023	TBS / TBS	C / FP	ACC-RI	Nov 2022	Nov 2022	47	2.404	N	Jul 2022	Nov 2022
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		
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v1		2022	TBS / TBS	C / FP	ACC-RI	Jan 2022	Apr 2022	358	2.961	N		

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<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Army</b>							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32			<b>P-1 Line Item Number / Title:</b> 9885MA8000 / Family of Med Comm for Combat Casualty Care				<b>Item Number / Title [DODIC]:</b> 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 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	53	2.396	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		
Field equipment /conduct New Equip Train		2023	CACI / Reston, VA	Option / FP	GSA	Dec 2022	Jan 2023	1	2,394.000	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 FY22, vendors are unknown at this time.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	<b>P-1 Line Item Number / Title:</b> 9887B88810 / Army Communications & Electronics
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	37.856	51.480	79.441	59.705	-	59.705	60.896	112.906	141.169	121.033	-	664.486
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	37.856	51.480	79.441	59.705	-	59.705	60.896	112.906	141.169	121.033	-	664.486
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>37.856</b>	<b>51.480</b>	<b>79.441</b>	<b>59.705</b>	<b>-</b>	<b>59.705</b>	<b>60.896</b>	<b>112.906</b>	<b>141.169</b>	<b>121.033</b>	<b>-</b>	<b>664.486</b>

*(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.

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	51.480	79.441	59.705	-	59.705	60.896	112.906	141.169	121.033
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	51.480	79.441	59.705	-	59.705	60.896	112.906	141.169	121.033

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	<b>P-1 Line Item Number / Title:</b> 9887B88810 / Army Communications & Electronics
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	- / 79.441	- / 59.705	- / -	- / 59.705
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 37.856</b>	<b>- / 51.480</b>	<b>- / 79.441</b>	<b>- / 59.705</b>	<b>- / -</b>	<b>- / 59.705</b>

\*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 2023 base procurement dollars in the amount of \$59.705 million support the 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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 32	<b>P-1 Line Item Number / Title:</b> 9887B88810 / Army Communications & Electronics	<b>Aggregated Items Title:</b> B88820 / Army Communications A
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	79.441	-	-	59.705	-	-	-	-	-	59.705
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	51.480	-	-	79.441	-	-	59.705	-	-	-	-	-	59.705
<b>Total</b>			-	-	<b>37.856</b>	-	-	<b>51.480</b>	-	-	<b>79.441</b>	-	-	<b>59.705</b>	-	-	-	-	-	<b>59.705</b>

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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	<b>P-1 Line Item Number / Title:</b> 0250BK5284 / CI AUTOMATION ARCHITECTURE-INTEL
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	158.225	16.578	13.317	13.891	-	13.891	16.901	14.367	14.553	14.692	-	262.524
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	158.225	16.578	13.317	13.891	-	13.891	16.901	14.367	14.553	14.692	-	262.524
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>158.225</b>	<b>16.578</b>	<b>13.317</b>	<b>13.891</b>	<b>-</b>	<b>13.891</b>	<b>16.901</b>	<b>14.367</b>	<b>14.553</b>	<b>14.692</b>	<b>-</b>	<b>262.524</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.578	13.317	13.891	-	13.891	16.901	14.367	14.553
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>16.578</b>	<b>13.317</b>	<b>13.891</b>	<b>-</b>	<b>13.891</b>	<b>16.901</b>	<b>14.367</b>	<b>14.553</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / 158.225	- / 16.578	- / 13.317	- / 13.891	- / -	- / 13.891
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 158.225</b>	<b>- / 16.578</b>	<b>- / 13.317</b>	<b>- / 13.891</b>	<b>- / -</b>	<b>- / 13.891</b>

\*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 2023 Base funding in the amount of \$0.934 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 2023 Base funding in the amount of \$12.957 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 36	<b>P-1 Line Item Number / Title:</b> 0250BK5284 / CI AUTOMATION ARCHITECTURE-INTEL	<b>Item Number / Title [DODIC]:</b> BK5284 / CI AUTOMATION ARCHITECTURE-INTEL

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	158.225	16.578	13.317	13.891	-	13.891
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	158.225	16.578	13.317	13.891	-	13.891
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>158.225</b>	<b>16.578</b>	<b>13.317</b>	<b>13.891</b>	<b>-</b>	<b>13.891</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
CERP Servers	64.090	167	10.703	52.886	149	7.880	23.425	73	1.710	23.425	73	1.710	-	-	-	23.425	73	1.710
CERP Storage	38.589	129	4.978	56.906	32	1.821	111.250	40	4.450	111.250	40	4.450	-	-	-	111.250	40	4.450
CERP Routers	63.327	104	6.586	37.696	23	0.867	31.360	50	1.568	31.360	50	1.568	-	-	-	31.360	50	1.568
CERP Switches	262.174	304	79.701	49.455	44	2.176	32.790	157	5.148	32.790	157	5.148	-	-	-	32.790	157	5.148
Non-MTOE Automation Equipment	18,752.333	3	56.257	1,917.000	2	3.834	441.000	1	0.441	1,015.000	1	1.015	-	-	-	1,015.000	1	1.015
<i>Subtotal: Recurring Cost</i>	-	-	158.225	-	-	16.578	-	-	13.317	-	-	13.891	-	-	-	-	-	13.891
<i>Subtotal: Hardware Cost</i>	-	-	158.225	-	-	16.578	-	-	13.317	-	-	13.891	-	-	-	-	-	13.891
<b>Gross/Weapon System Cost</b>	-	-	158.225	-	-	16.578	-	-	13.317	-	-	13.891	-	-	-	-	-	13.891

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	-	-	-	-	-
<b>Total:</b>	16.578	13.317	13.891	-	13.891
<b>Quantity</b>	-	-	-	-	-
<b>Total Obligation Authority</b>	16.578	13.317	13.891	-	13.891

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	<b>P-1 Line Item Number / Title:</b> 0256K61010 / Defense Military Deception Initiative
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	21.201	5.624	5.207	-	-	-	-	-	-	-	-	32.032
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	21.201	5.624	5.207	-	-	-	-	-	-	-	-	32.032
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>21.201</b>	<b>5.624</b>	<b>5.207</b>	-	-	-	-	-	-	-	-	<b>32.032</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.624	5.207	-	-	-	-	-	-	-
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>5.624</b>	<b>5.207</b>	-	-	-	-	-	-	-

**Justification:**

K61010 has no funding request in FY 2023.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	<b>P-1 Line Item Number / Title:</b> 0287BZ6100 / MULTI-DOMAIN INTELLIGENCE
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	20.095	20.637	-	20.637	30.118	37.726	19.508	19.499	-	147.583
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	20.095	20.637	-	20.637	30.118	37.726	19.508	19.499	-	147.583
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>20.095</b>	<b>20.637</b>	-	<b>20.637</b>	<b>30.118</b>	<b>37.726</b>	<b>19.508</b>	<b>19.499</b>	-	<b>147.583</b>

*(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 hardware deployed by multiple warfighting functions. The Intel Apps program will also support the modernization of Geospatial Intelligence (GEOINT) 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.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	20.095	20.637	-	20.637	30.118	37.726	19.508
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	<b>20.095</b>	<b>20.637</b>	-	<b>20.637</b>	<b>30.118</b>	<b>37.726</b>	<b>19.508</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	- / 20.637	- / -	- / 20.637
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	- / 20.095	- / 20.637	- / -	- / 20.637

\*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 2023 base procurement dollars in the amount of \$20.637 million support the acquisition of 102 Intelligence Application licenses to be integrated 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 GEOINT Geospatial Work Stations (GWS) hardware and software. Funds will also be used for the initial Intel Apps software maintenance.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 36	<b>P-1 Line Item Number / Title:</b> 0287BZ6100 / MULTI-DOMAIN INTELLIGENCE	<b>Item Number / Title [DODIC]:</b> BZ6111 / INTELLIGENCE APPS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	20.095	20.637	-	20.637
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	20.095	20.637	-	20.637
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	-	<b>20.095</b>	<b>20.637</b>	-	<b>20.637</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
GWS Refresh	-	-	-	-	-	-	-	-	4.140	-	-	4.872	-	-	-	-	-	4.872
Plotter refresh	-	-	-	-	-	-	-	-	0.264	-	-	0.269	-	-	-	-	-	0.269
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<b>4.404</b>	-	-	<b>5.141</b>	-	-	-	-	-	<b>5.141</b>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<b>4.404</b>	-	-	<b>5.141</b>	-	-	-	-	-	<b>5.141</b>
<b>Software Cost</b>																		
Recurring Cost																		
Software Maintenance	-	-	-	-	-	-	-	-	2.714	-	-	3.184	-	-	-	-	-	3.184
Software licenses	-	-	-	-	-	-	-	-	4.644	-	-	5.203	-	-	-	-	-	5.203
Software Engineering	-	-	-	-	-	-	-	-	0.800	-	-	0.600	-	-	-	-	-	0.600
Intel Apps Software	-	-	-	-	-	-	-	-	6.783	-	-	5.469	-	-	-	-	-	5.469
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<b>14.941</b>	-	-	<b>14.456</b>	-	-	-	-	-	<b>14.456</b>
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	<b>14.941</b>	-	-	<b>14.456</b>	-	-	-	-	-	<b>14.456</b>
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	-	-	-	-	-	-	0.375	-	-	0.275	-	-	-	-	-	0.275
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	<b>0.375</b>	-	-	<b>0.275</b>	-	-	-	-	-	<b>0.275</b>
<b>Support - Training Cost</b>																		
Equipment	-	-	-	-	-	-	-	-	0.375	-	-	0.765	-	-	-	-	-	0.765
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	<b>0.375</b>	-	-	<b>0.765</b>	-	-	-	-	-	<b>0.765</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 36						<b>P-1 Line Item Number / Title:</b> 0287BZ6100 / MULTI-DOMAIN INTELLIGENCE						<b>Item Number / Title [DODIC]:</b> BZ6111 / INTELLIGENCE APPS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	20.637	-	-	-	-	-	20.637

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	20.095	20.637	-	20.637
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	20.095	20.637	-	20.637



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,555.178	4.596	0.987	1.019	-	1.019	1.015	1.024	1.039	1.049	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,555.178	4.596	0.987	1.019	-	1.019	1.015	1.024	1.039	1.049	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,555.178</b>	<b>4.596</b>	<b>0.987</b>	<b>1.019</b>	<b>-</b>	<b>1.019</b>	<b>1.015</b>	<b>1.024</b>	<b>1.039</b>	<b>1.049</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.596	0.987	1.019	-	1.019	1.015	1.024	1.039
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>4.596</b>	<b>0.987</b>	<b>1.019</b>	<b>-</b>	<b>1.019</b>	<b>1.015</b>	<b>1.024</b>	<b>1.039</b>

**Justification:**

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security		<b>P-1 Line Item Number / Title:</b> 0122TA0600 / Information System Security Program-ISSP
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0303140A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>FY 2023 Base procurement dollars in the amount of \$1.019 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>		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> 0605144A	<b>Other Related Program Elements:</b> 0303140A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	575.089	159.400	126.273	125.692	-	125.692	139.147	150.393	150.835	150.769	-	1,577.598
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	575.089	159.400	126.273	125.692	-	125.692	139.147	150.393	150.835	150.769	-	1,577.598
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>575.089</b>	<b>159.400</b>	<b>126.273</b>	<b>125.692</b>	<b>-</b>	<b>125.692</b>	<b>139.147</b>	<b>150.393</b>	<b>150.835</b>	<b>150.769</b>	<b>-</b>	<b>1,577.598</b>

*(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 Modernization Priorities in support of LOE 1, Unified Network.

The Communication Security (COMSEC) program consists of two sub-programs: COMSEC Cryptographic Systems (CCS), Army Key Management Infrastructure (AKMI).

Project B96002: Since its inception, the COMSEC Cryptographic Systems (CCS) 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 FY23-FY26 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 FY24 - FY26 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); COMSEC Crypto Systems is 271,945 (Encryption Devices).

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0605144A **Other Related Program Elements:** 0303140A

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 246.505	- / 81.156	- / 47.990	- / 50.151	- / -	- / 50.151
P-5	B96004 / KEY MANAGEMENT INFRASTRUCTURE	P-5a, P-21			- / 328.584	- / 78.244	- / 78.283	- / 75.541	- / -	- / 75.541
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 575.089</b>	<b>- / 159.400</b>	<b>- / 126.273</b>	<b>- / 125.692</b>	<b>- / -</b>	<b>- / 125.692</b>

\*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 2023, the Communication Security (COMSEC) funding of \$125.692 million supports the below sub-programs.

COMSEC Cryptographic Systems (CCS): FY 2023 base procurement dollars in the amount of \$50.151 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 2023 base procurement dollars in the amount of \$75.541 million supports the procurement, fielding, depot support 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 2032. 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)	<b>Item Number / Title [DODIC]:</b> B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				246.505	81.156	47.990	50.151	-	50.151
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				246.505	81.156	47.990	50.151	-	50.151
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>246.505</b>	<b>81.156</b>	<b>47.990</b>	<b>50.151</b>	<b>-</b>	<b>50.151</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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) <sup>(†)</sup>	9.249	6,535	60.440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KG-175GM (INE)	13.692	870	11.912	-	-	-	-	-	-	18.950	300	5.685	-	-	-	18.950	300	5.685
KG-175GS (INE) <sup>(†)</sup>	14.929	1,736	25.917	12.950	500	6.475	18.950	300	5.685	-	-	-	-	-	-	-	-	-
KG-175F (INE) <sup>(†)</sup>	13.990	400	5.596	13.989	1,230	17.207	17.950	800	14.360	17.990	400	7.196	-	-	-	17.990	400	7.196
KG-175X (INE) <sup>(†)</sup>	61.145	366	22.379	60.947	342	20.844	66.877	162	10.834	66.875	200	13.375	-	-	-	66.875	200	13.375
KG-250X (INE) <sup>(†)</sup>	8.900	1,079	9.603	8.910	600	5.346	9.900	300	2.970	9.900	400	3.960	-	-	-	9.900	400	3.960
KG-250X FC (INE)	8.669	2,060	17.858	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KG-250XS (INE) <sup>(†)</sup>	7.348	1,745	12.822	6.350	400	2.540	-	-	-	7.950	100	0.795	-	-	-	7.950	100	0.795
KG-255X (INE) <sup>(†)</sup>	13.953	254	3.544	13.951	550	7.673	18.950	140	2.653	18.950	200	3.790	-	-	-	18.950	200	3.790
KG-350 (INE) <sup>(†)</sup>	-	-	-	-	-	-	50.000	15	0.750	50.000	30	1.500	-	-	-	50.000	30	1.500
INE-FUTURE DEVICES <sup>(†)</sup>	4.997	300	1.499	6.741	1,330	8.966	5.491	505	2.773	4.995	730	3.646	-	-	-	4.995	730	3.646
SV-FUTURE DEVICES <sup>(†)</sup>	0.600	1,800	1.080	0.600	1,500	0.900	0.600	1,300	0.780	0.600	1,300	0.780	-	-	-	0.600	1,300	0.780
viPer (SV) <sup>(†)</sup>	2.867	2,221	6.368	2.795	1,000	2.795	2.994	900	2.695	2.995	1,000	2.995	-	-	-	2.995	1,000	2.995
KY-58M (VACM)	7.800	670	5.226	8.778	36	0.316	-	-	-	-	-	-	-	-	-	-	-	-
KY-99M (VACM)	6.838	321	2.195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)	<b>Item Number / Title [DODIC]:</b> B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
KYV-100M (VACM)	7.427	344	2.555	8.806	175	1.541	-	-	-	-	-	-	-	-	-	-	-	-
KYV-5M (VACM)	12.286	56	0.688	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KG142 (INE)	-	-	-	-	-	-	-	-	-	110.300	10	1.103	-	-	-	110.300	10	1.103
<i>Subtotal: Recurring Cost</i>	-	-	189.682	-	-	74.603	-	-	43.500	-	-	44.825	-	-	-	-	-	44.825
<i>Subtotal: Hardware Cost</i>	-	-	189.682	-	-	74.603	-	-	43.500	-	-	44.825	-	-	-	-	-	44.825
<b>Package Fielding Cost</b>																		
<i>Recurring Cost</i>																		
ARMY-WIDE CRYPTO NETWORK STANDARDIZATION	-	-	5.825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRODUCT SUPPORT/FIELDING	-	-	16.556	-	-	1.490	-	-	1.238	-	-	1.339	-	-	-	-	-	1.339
<i>Subtotal: Recurring Cost</i>	-	-	22.381	-	-	1.490	-	-	1.238	-	-	1.339	-	-	-	-	-	1.339
<i>Subtotal: Package Fielding Cost</i>	-	-	22.381	-	-	1.490	-	-	1.238	-	-	1.339	-	-	-	-	-	1.339
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	12.760	-	-	2.830	-	-	1.669	-	-	1.700	-	-	-	-	-	1.700
<i>Subtotal: Support - Program Management Cost</i>	-	-	12.760	-	-	2.830	-	-	1.669	-	-	1.700	-	-	-	-	-	1.700
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	9.798	-	-	1.209	-	-	1.208	-	-	1.355	-	-	-	-	-	1.355
<i>Subtotal: Support - System Engineering Cost</i>	-	-	9.798	-	-	1.209	-	-	1.208	-	-	1.355	-	-	-	-	-	1.355
<b>Support - Training Cost</b>																		
Equipment	-	-	11.882	-	-	1.025	-	-	0.375	-	-	0.932	-	-	-	-	-	0.932
<i>Subtotal: Support - Training Cost</i>	-	-	11.882	-	-	1.025	-	-	0.375	-	-	0.932	-	-	-	-	-	0.932
<b>Gross/Weapon System Cost</b>	-	-	246.505	-	-	81.156	-	-	47.990	-	-	50.151	-	-	-	-	-	50.151

**Remarks:**  
 1. The Unit Cost of INE-Future Devices increased from FY 2022 to FY 2023. FY 2023 funds will be used to procure three emerging INE products. The Unit Cost differs for each product; the quantity splits have been updated to meet program requirements.  
 2. Quantity Totals in FY21 and FY22 are being reported incorrectly. Correct total quantities are as follows: FY21 Qty is 7,663, and FY22 Qty is 4,422

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)	<b>Item Number / Title [DODIC]:</b> B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)
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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
KG-175D (INE)		2020	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2020	Jan 2021	1,000	9.900	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 / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	500	12.950	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	1,230	13.989	N		
KG-175F (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	800	17.950	N		
KG-175F (INE)		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	400	17.990	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	342	60.947	N		
KG-175X (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	162	66.877	N		
KG-175X (INE)		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	200	66.875	N		
KG-250X (INE)		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	600	8.910	N		
KG-250X (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	300	9.900	N		
KG-250X (INE)		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	400	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	6.350	N		
KG-250XS (INE)		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	100	7.950	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	13.951	N		
KG-255X (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	140	18.950	N		
KG-255X (INE)		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	200	18.950	N		
KG-350 (INE)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	15	50.000	N		
KG-350 (INE)		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	30	50.000	N		
INE-FUTURE DEVICES		2021	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2021	Jan 2022	1,330	6.741	N		
INE-FUTURE DEVICES		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	505	5.491	N		
INE-FUTURE DEVICES		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	730	4.995	N		
SV-FUTURE DEVICES		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	1,300	0.600	N		
SV-FUTURE DEVICES		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	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	2.795	N		
viPer (SV)		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2022	Jan 2023	900	2.994	N		
viPer (SV)		2023	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Jan 2023	Jan 2024	1,000	2.995	N		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)	<b>Item Number / Title [DODIC]:</b> B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64		<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)
		<b>Item Number / Title [DODIC]:</b> B96004 / KEY MANAGEMENT INFRASTRUCTURE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )				-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				328.584	78.244	78.283	75.541	-	75.541
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )				328.584	78.244	78.283	75.541	-	75.541
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				<b>328.584</b>	<b>78.244</b>	<b>78.283</b>	<b>75.541</b>	-	<b>75.541</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
MGC Procurement <sup>(†)</sup>	15.786	602	9.503	8.382	262	2.196	10.906	85	0.927	-	-	-	-	-	-	-	-	-
ACES Procurement	2.641	1,348	3.560	-	-	-	-	-	-	3.217	1,348	4.337	-	-	-	3.217	1,348	4.337
SKLs Procurement <sup>(†)</sup>	3.328	42,327	140.854	3.933	13,853	54.482	4.181	13,588	56.806	4.706	11,171	52.574	-	-	-	4.706	11,171	52.574
NGLD S	2.148	6,688	14.364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Recurring	-	-	48.361	-	-	4.370	-	-	4.457	-	-	3.173	-	-	-	-	-	3.173
<i>Subtotal: Recurring Cost</i>	-	-	216.642	-	-	61.048	-	-	62.190	-	-	60.084	-	-	-	-	-	60.084
<i>Subtotal: Hardware Cost</i>	-	-	216.642	-	-	61.048	-	-	62.190	-	-	60.084	-	-	-	-	-	60.084
<b>Software Cost</b>																		
Recurring Cost																		
Post Deployment Software Support/NET	-	-	44.813	-	-	4.213	-	-	4.093	-	-	4.839	-	-	-	-	-	4.839
Post Production Software Support	-	-	-	-	-	0.921	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	44.813	-	-	5.134	-	-	4.093	-	-	4.839	-	-	-	-	-	4.839
<i>Subtotal: Software Cost</i>	-	-	44.813	-	-	5.134	-	-	4.093	-	-	4.839	-	-	-	-	-	4.839
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding	-	-	7.504	-	-	1.340	-	-	1.367	-	-	0.470	-	-	-	-	-	0.470
<i>Subtotal: Recurring Cost</i>	-	-	7.504	-	-	1.340	-	-	1.367	-	-	0.470	-	-	-	-	-	0.470

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)	<b>Item Number / Title [DODIC]:</b> B96004 / KEY MANAGEMENT INFRASTRUCTURE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	7.504	-	-	1.340	-	-	1.367	-	-	0.470	-	-	-	-	-	0.470
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
Depot Support	-	-	7.808	-	-	2.100	-	-	2.205	-	-	0.787	-	-	-	-	-	0.787
<i>Subtotal: Recurring Cost</i>	-	-	7.808	-	-	2.100	-	-	2.205	-	-	0.787	-	-	-	-	-	0.787
<i>Subtotal: Logistics Cost</i>	-	-	7.808	-	-	2.100	-	-	2.205	-	-	0.787	-	-	-	-	-	0.787
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	19.565	-	-	2.202	-	-	2.312	-	-	2.862	-	-	-	-	-	2.862
<i>Subtotal: Support - Program Management Cost</i>	-	-	19.565	-	-	2.202	-	-	2.312	-	-	2.862	-	-	-	-	-	2.862
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	26.897	-	-	5.450	-	-	5.723	-	-	5.995	-	-	-	-	-	5.995
<i>Subtotal: Support - System Engineering Cost</i>	-	-	26.897	-	-	5.450	-	-	5.723	-	-	5.995	-	-	-	-	-	5.995
<b>Support - System Test and Evaluation Cost</b>																		
Test and Evaluation Support	-	-	1.091	-	-	0.490	-	-	0.189	-	-	0.177	-	-	-	-	-	0.177
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	1.091	-	-	0.490	-	-	0.189	-	-	0.177	-	-	-	-	-	0.177
<b>Support - Training Cost</b>																		
Services	-	-	4.252	-	-	0.478	-	-	0.203	-	-	0.326	-	-	-	-	-	0.326
<i>Subtotal: Support - Training Cost</i>	-	-	4.252	-	-	0.478	-	-	0.203	-	-	0.326	-	-	-	-	-	0.326
<b>Gross/Weapon System Cost</b>	-	-	<b>328.584</b>	-	-	<b>78.244</b>	-	-	<b>78.283</b>	-	-	<b>75.541</b>	-	-	-	-	-	<b>75.541</b>

**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. Quantity totals are being reported incorrectly in FY21 and FY22. Correct total quantities are as follows: FY21 Qty is 14,115, and FY22 Qty is 13,673.

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64			<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)				<b>Item Number / Title [DODIC]:</b> 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	262	8.382	N		
MGC Procurement		2022	NSA / FORT MEADE	C / IDIQ	NSA, Fort Meade, MD	Feb 2022	Nov 2022	85	10.906	N		
SKLs Procurement <sup>(†)</sup>		2020	SNC / SPARKS, NV	C / IDIQ	Spark, NV	Feb 2020	Nov 2020	12,663	4.083	Y		
SKLs Procurement <sup>(†)</sup>		2021	SNC / SPARKS, NV	C / IDIQ	Spark, NV	Feb 2021	Nov 2021	13,853	3.933	Y		
SKLs Procurement <sup>(†)</sup>		2022	SNC / SPARKS, NV	C / IDIQ	Spark, NV	Feb 2022	Nov 2022	13,588	4.181	N		
SKLs Procurement		2023	SNC / SPARKS, NV	C / IDIQ	Spark, NV	Feb 2023	Nov 2023	11,171	4.706	N		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army																							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64											<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)											<b>Item Number / Title [DODIC]:</b> 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 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			

SKLs Procurement

Prior Years Deliveries: 29664																																	
1	2020	ARMY	12.663	.000	12.663																2.000	2.000	2.000	2.000	2.000	2.000	.663					.000	
1	2021	ARMY	13.853	.000	13.853																												13.853
1	2022	ARMY	13.588	.000	13.588																												13.588

O C C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	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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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army																<b>Date:</b> April 2022													
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64										<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)										<b>Item Number / Title [DODIC]:</b> B96004 / KEY MANAGEMENT INFRASTRUCTURE									

Cost Elements <i>(Units in Thousands)</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									
SKLs Procurement																																							
Prior Years Deliveries: 29664																																							
1		2020	ARMY	12.663	12.663	.000																																.000	
1		2021	ARMY	13.853	.000	13.853	-	2.000	2.000	2.000	2.000	2.000	2.000	1.853																									.000
1		2022	ARMY	13.588	.000	13.588																																	.000

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64		<b>P-1 Line Item Number / Title:</b> 0125B96000 / Communications Security (COMSEC)
		<b>Item Number / Title [DODIC]:</b> B96004 / KEY MANAGEMENT INFRASTRUCTURE

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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 - SPARKS, NV	2,000	2,000	10,000	0	0	8	8	0	0	8	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0128B63000 / Defensive CYBER Operations
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605041A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	104	41	40	-	-	-	-	-	-	-	-	185
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	183.702	41.153	27.389	-	-	-	-	-	-	-	-	252.244
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	183.702	41.153	27.389	-	-	-	-	-	-	-	-	252.244
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>183.702</b>	<b>41.153</b>	<b>27.389</b>	-	-	-	-	-	-	-	-	<b>252.244</b>

*(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> )	1,766.365	1,003.732	684.725	-	-	-	-	-	-	-	-	1,363.481

**Description:**

FY2023 Base procurement funding was aligned from OPA PE 0128B63000 Defensive Cyber Operations to OPA PE 0157B66350 ARCYBER Defensive Cyber Operations.

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), Information Warfare Operations Center (IWOC), (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 DCO Platform - (PEO EIS) - Base Level
- \* DCO - Deployable Defensive Systems - (PEO EIS) - Tactical/Command Post Level
- \* DCO Development Environment - (PEO EIS) - Armory

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	21	40	-	-	-	-	-	-
	Total Obligation Authority	36.201	27.389	-	-	-	-	-	-
ANG	Quantity	10	-	-	-	-	-	-	-
	Total Obligation Authority	2.476	-	-	-	-	-	-	-
AR	Quantity	10	-	-	-	-	-	-	-
	Total Obligation Authority	2.476	-	-	-	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>41</b>	<b>40</b>	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0128B63000 / Defensive CYBER Operations
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605041A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	41.153	27.389	-	-	-	-	-	-	-

**Justification:**  
 B63000 has no FY 2023 funding request.

FY 2023 Base procurement dollars are realigned from OPA PE 0128B63000 Defensive Cyber Operations to OPA PE 0157B66350 ARCYBER Defensive Cyber 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-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0131B89000 / Insider Threat Program - Unit Activity Monitoring
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.774	1.760	-	1.796	-	1.796	1.647	1.787	1.792	1.792	-	12.348
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1.774	1.760	-	1.796	-	1.796	1.647	1.787	1.792	1.792	-	12.348
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.774</b>	<b>1.760</b>	<b>-</b>	<b>1.796</b>	<b>-</b>	<b>1.796</b>	<b>1.647</b>	<b>1.787</b>	<b>1.792</b>	<b>1.792</b>	<b>-</b>	<b>12.348</b>

*(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:**

All information technology (IT) procurement consists of commercial-off-the-shelf (COTS) solutions. Quantities and units costs vary by system configuration and site.

The Insider Threat Program - User Activity Monitoring (UAM) program 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.760	-	1.796	-	1.796	1.647	1.787	1.792
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>1.760</b>	<b>-</b>	<b>1.796</b>	<b>-</b>	<b>1.796</b>	<b>1.647</b>	<b>1.787</b>	<b>1.792</b>

**Justification:**

FY 2023 Base procurement dollars in the amount of \$1.796 million supports procurement of the next generation of UAM capabilities.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security		<b>P-1 Line Item Number / Title:</b> 0131B89000 / Insider Threat Program - Unit Activity Monitoring
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0150B68000 / SIO CAPABILITY
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	17.303	-	-	-	-	-	-	-	-	17.303
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	17.303	-	-	-	-	-	-	-	-	17.303
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>17.303</b>	-	-	-	-	-	-	-	-	<b>17.303</b>

*(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 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.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	17.303	-	-	-	-	-	-
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	<b>17.303</b>	-	-	-	-	-	-

**Justification:**

B68000 has no funding request in FY 2023.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0152B13000 / BIOMETRIC ENABLING CAPABILITY (BEC)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	0.914	0.816	-	0.816	0.462	0.308	0.330	0.329	-	3.159
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	0.914	0.816	-	0.816	0.462	0.308	0.330	0.329	-	3.159
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	-	<b>0.914</b>	<b>0.816</b>	-	<b>0.816</b>	<b>0.462</b>	<b>0.308</b>	<b>0.330</b>	<b>0.329</b>	-	<b>3.159</b>

*(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 1 (BEC 1), 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.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	0.914	0.816	-	0.816	0.462	0.308	0.330	0.329
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	<b>0.914</b>	<b>0.816</b>	-	<b>0.816</b>	<b>0.462</b>	<b>0.308</b>	<b>0.330</b>	<b>0.329</b>

**Justification:**

FY 2023 base procurement dollars in the amount of \$0.816 million support funding for software license procurements and hardware (HW) requirements. The modernization effort, migration of BEC 0 ABIS 1.3 to BEC 1 ABIS 2.0 cloud environment, moves capability to the Cloud, adds voice-matching capability, improves scalability, flexibility, and cyber defenses.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0157B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	23	-	23	-	-	-	-	-	23
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	18.239	-	18.239	-	-	-	-	-	18.239
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	18.239	-	18.239	-	-	-	-	-	18.239
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	<b>18.239</b>	-	<b>18.239</b>	-	-	-	-	-	<b>18.239</b>

*(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> )	-	-	-	793.000	-	793.000	-	-	-	-	-	793.000

**Description:**

This funding line supports the Army Modernization priorities for Unified Network. Defensive Cyber Operations (DCO) B63000 Base funding line supports the Army Network Modernization Strategy Line of Effort (LOE) for the Unified Network. Both efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

FY2023 OPA PE 0157B66350 Base procurement funding was aligned from OPA PE 0128B63000 Defensive Cyber Operations.

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), Information Warfare Operations Center (IWOC), (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 DCO Platform - (PEO EIS) - Base Level
- \* DCO - Deployable Defensive Systems - (PEO EIS) - Tactical/Command Post Level
- \* DCO Development Environment - (PEO EIS) - Armory

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	23	-	23	-	-	-
	Total Obligation Authority	-	-	18.239	-	18.239	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>23</b>	-	<b>23</b>	-	-	-
	<b>Total Obligation Authority</b>	-	-	<b>18.239</b>	-	<b>18.239</b>	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 0157B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS	P-5a			- / -	- / -	- / -	23 / 18.239	- / -	23 / 18.239
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	- / -	<b>23 / 18.239</b>	- / -	<b>23 / 18.239</b>

\*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:**

FY2023 Base procurement funding was aligned from OPA PE 0128B63000 Defensive Cyber Operations to OPA PE 0157B66350 ARCYBER Defensive Cyber Operations.

FY2023 Base procurement in the amount of \$18.239 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):

\* \$2.701 million procures Garrison DCO Platform (GDP) solutions and integration support for fielded GDP systems, funded in OPA PE 0128B63000 Defensive Cyber Operations, 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.

\* \$7.823 million procures (23) new Tech Evolution Deployable Defensive Systems (DDS) 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.

\* \$4.569 million procures DCO Development Environment (DCODE) Armory support where DCO capabilities are stored, configured, patched, maintained, and upgraded with new technologies and then issued to Cyber Protection Teams (CPTs). DCODE Armories provide centralized management and distribution for DCO platforms, tools, and capabilities located at Fort Belvoir, Fort Gordon, and Tobyhanna Army Depot (DCO General Armory Support).

\* \$3.146 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0157B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS	<b>Item Number / Title [DODIC]:</b> B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	23	-	23
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	18.239	-	18.239
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	18.239	-	18.239
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	-	<b>18.239</b>	-	<b>18.239</b>

*(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>	-	-	-	793.000	-	793.000

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
GARRISON DCO PLATFORM	-	-	-	-	-	-	-	-	-	-	-	2.701	-	-	-	-	-	2.701
DEPLOYABLE DEFENSIVE SYSTEMS <sup>(f)</sup>	-	-	-	-	-	-	-	-	-	340.130	23	7.823	-	-	-	340.130	23	7.823
DCO DEVELOPMENT ENVIRONMENT (ARMORY)	-	-	-	-	-	-	-	-	-	-	-	4.569	-	-	-	-	-	4.569
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>15.093</i>	-	-	-	-	-	<i>15.093</i>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>15.093</i>	-	-	-	-	-	<i>15.093</i>
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	-	-	-	-	-	-	1.586	-	-	-	-	-	1.586
Government Management	-	-	-	-	-	-	-	-	-	-	-	0.528	-	-	-	-	-	0.528
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>2.114</i>	-	-	-	-	-	<i>2.114</i>
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	0.532	-	-	-	-	-	0.532
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.532</i>	-	-	-	-	-	<i>0.532</i>
Support - Training Cost																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0157B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS	<b>Item Number / Title [DODIC]:</b> B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	793.000	23	18.239	-	-	-	793.000	23	18.239

**Remarks:**  
FY2023 Base procurement funding was aligned from OPA PE 0128B63000 Defensive Cyber Operations to OPA PE 0157B66350 ARCYBER Defensive Cyber Operations.

**Deployable Defensive Systems (DDS):**  
FY2023 funds are provided for the procurement of (23) next generation of DDS-M Version 2 (DDS-M v2). DDS-M v2 hardware costs ~\$175K per kit. This does not include costs for professional services, warranty, training, and operating system of kits fielded in prior years and in FY2023.

**Garrison DCO Platform (GDP):**  
GDP Solutions vary based on the size of the Garrison environment, network traffic amounts, and risk level to the base. As a result, hardware support quantities, storage, and data ingest requirements for each Garrison location is different. FY2023 funds support the hardware integration and support for fielded GDP systems funded in OPA PE 0128B63000 Defensive Cyber Operations funding line.

With modernization of the GDP solution to a next generation garrison platform in the future, one system will be capable of reaching multiple locations as opposed to fielding one at every identified location. Each of these locations will still require equipment at the local level, such as network tapping equipment and sensors to feed information. Funding to support this effort is captured and reflected in BA8 Software Pilot PE 0608041A CD1 in FY2023.

**DCO Development Environment (DCODE):**  
FY2023 funds are provided to support where DCO capabilities are stored, configured, patched, maintained, and upgraded with new technologies and then issued to Cyber Protection Teams. DCODE Armories provide centralized management and distribution for DCO platforms, tools, and capabilities located at Fort Belvoir, Fort Gordon, and Tobyhanna Army Depot (DCO General Armory Support).

**DCO Program Management:**  
FY2023 funds are provided for program management support to include matrix and contractor management services for implementation, fielding, system engineering, logistics, training, programmatic, and acquisition supporting DCO capabilities.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	23	-	23
	Total Obligation Authority	-	-	18.239	-	18.239
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>23</b>	-	<b>23</b>
	<b>Total Obligation Authority</b>	-	-	<b>18.239</b>	-	<b>18.239</b>



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> 0157B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS	<b>Item Number / Title [DODIC]:</b> B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64			<b>P-1 Line Item Number / Title:</b> 0157B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS				<b>Item Number / Title [DODIC]:</b> B66350 / ARCYBER DEFENSIVE CYBER OPERATIONS					
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
DEPLOYABLE DEFENSIVE SYSTEMS		2023	TBD / TBD	C / FFP	ACC-Rock Island, IL	Feb 2023	Mar 2023	23	340.130	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 3QTRFY2022.

GDP and DDS RDPs were approved on 27 February 2018 and UAM on 18 March 2019. 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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	<b>P-1 Line Item Number / Title:</b> 9091B85010 / Items Less Than \$5M (Info Security)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.260	-	-	-	-	-	-	-	-	-	0.260
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.260	-	-	-	-	-	-	-	-	-	0.260
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.260</b>	-	-	-	-	-	-	-	-	-	<b>0.260</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.260	-	-	-	-	-	-	-	-
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>0.260</b>	-	-	-	-	-	-	-	-

**Justification:**

B85010 has no funding request in FY 2023.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications	<b>P-1 Line Item Number / Title:</b> 9716BU4160 / Base Support Communications
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	30	-	-	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	894.937	30.761	9.209	10.262	-	10.262	9.391	10.196	10.226	10.222	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	894.937	30.761	9.209	10.262	-	10.262	9.391	10.196	10.226	10.222	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>894.937</b>	<b>30.761</b>	<b>9.209</b>	<b>10.262</b>	<b>-</b>	<b>10.262</b>	<b>9.391</b>	<b>10.196</b>	<b>10.226</b>	<b>10.222</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	29,831.233	-	-	-	-	-	-	-	-	-	Continuing	Continuing

**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, dispatch consoles for dispatchers, subscriber units which include portable (handheld units for each operator), vehicle mounted mobile units and desktop units 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 critical 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.

In keeping with recent Congressional language expressing concern with the delayed pace at which the Army is moving to secure upgraded communications infrastructure, specifically land mobile radios; the Army is pursuing the Base Emergency Communications System (BECS). The BECS program, for which LMR is an essential subsystem, will be the single integrated acquisition program for lifecycle modernization of

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications	<b>P-1 Line Item Number / Title:</b> 9716BU4160 / Base Support Communications
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

emergency management and critical communications capabilities in support of installation public safety organizations, first responders, force protection personnel and other installation management functions. Along with LMR, the five interdependent capabilities that will comprise the BECS system-of-systems approach are Computer Aided Dispatch (CAD), Enterprise Mass Warning and Notification (EMWN), Next Generation 911 (NG 911), and the First Responder Broadband Network - LTE-5G (FRBN). Current and future LMR systems will be interoperable with all other BECS capabilities. As an enduring program, LMR will transition from an interoperable but stand-alone system on a legacy network to a fully integrated capability within the BECS-enabled public safety communication enterprise architecture.

	Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	30.761	9.209	10.262	-	10.262	9.391	10.196	10.226	10.222
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>30.761</b>	<b>9.209</b>	<b>10.262</b>	<b>-</b>	<b>10.262</b>	<b>9.391</b>	<b>10.196</b>	<b>10.226</b>	<b>10.222</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications	<b>P-1 Line Item Number / Title:</b> 9716BU4160 / Base Support Communications
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			30 / 894.937	- / 30.761	- / 9.209	- / 10.262	- / -	- / 10.262
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>30 / 894.937</b>	<b>- / 30.761</b>	<b>- / 9.209</b>	<b>- / 10.262</b>	<b>- / -</b>	<b>- / 10.262</b>

\*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 2023 base funding in the amount of \$10.262 million supports the modernization and upgrade of CONUS based legacy LMR systems to the Army CONUS Enterprise (ACE) LMR. Modernizes Fort Stewart, GA. This modernization will converge legacy stand-alone LMR systems at each location into the ACE LMR network.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 72		<b>P-1 Line Item Number / Title:</b> 9716BU4160 / Base Support Communications
		<b>Item Number / Title [DODIC]:</b> BU4160 / Base Support Communications

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>				
Resource Summary			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)			30	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			894.937	30.761	9.209	10.262	-	10.262
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			894.937	30.761	9.209	10.262	-	10.262
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>894.937</b>	<b>30.761</b>	<b>9.209</b>	<b>10.262</b>	<b>-</b>	<b>10.262</b>
<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)			29,831.233	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	35,348.818	22	777.674	5,167.200	5	25.836	8,302.000	1	8.302	8,960.000	1	8.960	-	-	-	8,960.000	1	8.960
Interim Contractor Support	1,320.111	18	23.762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering and Program Support <sup>(†)</sup>	11,333.143	7	79.332	1,308.333	3	3.925	907.000	1	0.907	1,302.000	1	1.302	-	-	-	1,302.000	1	1.302
SWA LMR Systems Site Surveys	690.000	1	0.690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation Inherent Resolve <sup>(†)</sup>	4,493.000	3	13.479	1,000.000	1	1.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	894.937	-	-	30.761	-	-	9.209	-	-	10.262	-	-	-	-	-	10.262
<i>Subtotal: Hardware Cost</i>	-	-	<b>894.937</b>	-	-	<b>30.761</b>	-	-	<b>9.209</b>	-	-	<b>10.262</b>	-	-	-	-	-	<b>10.262</b>
<b>Gross/Weapon System Cost</b>	<b>29,831.233</b>	<b>30</b>	<b>894.937</b>	-	-	<b>30.761</b>	-	-	<b>9.209</b>	-	-	<b>10.262</b>	-	-	-	-	-	<b>10.262</b>

**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

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 72	<b>P-1 Line Item Number / Title:</b> 9716BU4160 / Base Support Communications	<b>Item Number / Title [DODIC]:</b> BU4160 / Base Support Communications

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

cost drivers for the 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	30.761	9.209	10.262	-	10.262
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	30.761	9.209	10.262	-	10.262

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



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<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Army</b>							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 72			<b>P-1 Line Item Number / Title:</b> 9716BU4160 / Base Support Communications				<b>Item Number / Title [DODIC]:</b> 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		2021	Motorola Solutions / Columbia, MD	C / FFP	ACC, Rock Island, IL	Jan 2021	Jul 2021	1	1,925.000	Y		
Commercial LMR Systems		2021	L3Harris Corp / Melbourne, FL	C / FFP	ACC, Rock Island, IL	Aug 2021	Jan 2022	1	717.000	Y		
Commercial LMR Systems		2021	TBD / TBD	C / FFP	ACC, Rock Island, IL	Dec 2021	Jun 2022	1	1,548.000	Y		
Commercial LMR Systems		2021	aEonian Group LLC / Sterling, VA	C / FFP	ACC, Rock Island, IL	Mar 2021	Sep 2021	2	19,992.000	Y		
Commercial LMR Systems		2022	TBD / TBD	C / FFP	ACC, Rock Island, IL	Mar 2022	Sep 2022	1	8,302.000	Y		
Commercial LMR Systems		2023	TBD / TBD	C / FFP	ACC, Rock Island, IL	Mar 2023	Sep 2023	1	8,960.000	N		
Engineering and Program Support		2021	ISEC / Ft. Detrick, MD	MIPR	PEO EIS Fort Belvoir, Va	Oct 2021	Nov 2021	1	4,211.000	Y		
Engineering and Program Support		2021	Cape Fox / Alexandria, VA	MIPR	ACC Rock Island	Mar 2021	Apr 2021	1	882.000	Y		
Engineering and Program Support		2021	Savantage Financial Services / Rockville, MD	MIPR	ACC Rock Island	May 2021	Jul 2021	1	486.000	Y		
Engineering and Program Support		2022	ISEC / Ft. Detrick, MD	MIPR	PEO EIS Fort Belvoir, VA	Apr 2022	May 2022	1	907.000	Y		
Engineering and Program Support		2023	ISEC / Ft. Detrick, MD	MIPR	PEO EIS Fort Belvoir, VA	Apr 2023	May 2023	1	1,302.000	Y		
Operation Inherent Resolve	✓	2021	TBD / TBD	C / TBD	ACC-RI, Rock Island, IL	Nov 2021	May 2022	1	1,000.000	Y		

**Remarks:**

FY 2022 to FY 2023 Base Support Communications funding increased from \$9.209M to \$10.262M allowing for modernization of 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 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.

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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3,118.383	162.973	214.026	116.522	-	116.522	132.624	95.839	106.364	93.570	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,118.383	162.973	214.026	116.522	-	116.522	132.624	95.839	106.364	93.570	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3,118.383</b>	<b>162.973</b>	<b>214.026</b>	<b>116.522</b>	<b>-</b>	<b>116.522</b>	<b>132.624</b>	<b>95.839</b>	<b>106.364</b>	<b>93.570</b>	<b>Continuing</b>	<b>Continuing</b>

*(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.

**US ARMY PACIFIC COMMAND (USARPAC):** This provides for the mission unique IT requirements within USARPAC Headquarters 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.

**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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<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 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 KOREA COMMAND: This provides for the mission unique IT equipment requirements supporting various Camp Humphreys facilities. This funding will provide specific IT requirements to provides state-of-the-art training and infrastructure, responsive quality of life programs, and fully-capable mobilization and deployment operations for the armed forces.</p> <p>5TH ARMY, USA NORTH: This provides for the mission unique IT equipment requirements supporting various facilities in the U.S. Northern Command in order to detect, deter and defeat threats to the Homeland, conduct support of civil authorities, and security cooperation initiatives to defend the United States and its interests.</p> <p>US ARMY EUROPE-7TH ARMY 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 &amp; 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.</p> <p>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.</p> <p>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.</p> <p>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.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	162.973	214.026	116.522	-	116.522	132.624	95.839	106.364	93.570
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>162.973</b>	<b>214.026</b>	<b>116.522</b>	-	<b>116.522</b>	<b>132.624</b>	<b>95.839</b>	<b>106.364</b>	<b>93.570</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / 435.460	- / 123.604	- / 179.727	- / 85.002	- / -	- / 85.002
P-5	BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)	P-5a			- / 1,640.801	- / 26.127	- / 25.416	- / 17.541	- / -	- / 17.541
P-5	BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)	P-5a			- / 1,042.122	- / 13.242	- / 8.883	- / 13.979	- / -	- / 13.979
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 3,118.383</b>	<b>- / 162.973</b>	<b>- / 214.026</b>	<b>- / 116.522</b>	<b>- / -</b>	<b>- / 116.522</b>

\*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 2023 procurement dollars in the amount of \$85.002 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 2023 Base procurement dollars in the amount of \$2.253 million supports USARPAC MUE such as switches, computers, phones, cabling, cameras, sound and video mixers, display panels, speakers, and other supporting IT equipment.

FY 2023 Base procurement dollars in the amount of \$14.986 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 2023 Base procurement dollars in the amount of \$2.299 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 2023 Base procurement dollars in the amount of \$57.461 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 2023 Base procurement dollars in the amount of \$0.342 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.

FY 2023 Base procurement dollars in the amount of \$2.280 million supports USFK 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 2023 Base procurement dollars in the amount of \$0.572 million supports USANORTH such as routers, switches, servers, computers, data storage, phones, cabling, cameras, sound and video mixers, display panels, speakers, encryption devices, and other IT equipment.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

FY 2023 Base procurement dollars in the amount of \$4.809 million supports USAREUR with MUE for command and control (C2) to support requirements for European Deterrence Initiative (EDI).

Proponent/Mission IT/Physical Relocation FY2022 to FY2023 funding decreases are due to INSCOM, TRADOC, USARPAC, USAREUR, USAFC, AWC, and USAMC completing the IT fit-outs of MCA or SRM facilities in FY2022.

**INFORMATION SYSTEMS (MCA SUPPORT) (BB1400):**

FY 2023 procurement dollars in the amount of \$17.541 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:

FY 2023 Base procurement dollars in the amount of \$10.242 million supports Active Army, Army Reserves and National Guard with common user NIPR, SIPR, other IT services and equipment.

FY2023 Base procurement dollars in the amount of \$7.299 million support USAREUR with common user NIPR, SIPR and other IT services and equipment required for command and control (C2). This requirement supports European Defense Initiative (EDI).

**INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700):**

FY 2023 Base procurement dollars in the amount of \$13.979 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.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73		<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems
		<b>Item Number / Title [DODIC]:</b> B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	435.460	123.604	179.727	85.002	-	85.002
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	435.460	123.604	179.727	85.002	-	85.002
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>435.460</b>	<b>123.604</b>	<b>179.727</b>	<b>85.002</b>	<b>-</b>	<b>85.002</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	93,308.500	2	186.617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GTMO Detention Legal Complex <sup>(†)</sup>	3,000.000	1	3.000	-	-	-	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	12,176.000	2	24.352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USFK BCTC/OPS SCIFs	30,000.000	1	30.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INSCOM Secure Admin/Operations Facility Incr 3 <sup>(†)</sup>	49,257.000	2	98.514	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USARPAC C2 Facility Phase 4 <sup>(†)</sup>	-	-	-	21,333.000	1	21.333	15,538.000	1	15.538	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems	<b>Item Number / Title [DODIC]:</b> B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 CCOE <sup>(†)</sup>	-	-	-	65,930.000	1	65.930	34,249.000	1	34.249	14,986.000	1	14.986	-	-	-	14,986.000	1	14.986
USAREUR EDI <sup>(†)</sup>	-	-	-	4,787.000	1	4.787	10,561.000	1	10.561	4,809.000	1	4.809	-	-	-	4,809.000	1	4.809
Army War College Root Hall <sup>(†)</sup>	8,200.000	1	8.200	6,003.000	1	6.003	14,163.000	1	14.163	2,299.000	1	2.299	-	-	-	2,299.000	1	2.299
ARCYBER FI-MUE <sup>(†)</sup>	18,231.500	2	36.463	25,135.000	1	25.135	35,155.000	1	35.155	57,461.000	1	57.461	-	-	-	57,461.000	1	57.461
USAMC <sup>(†)</sup>	-	-	-	416.000	1	0.416	17,441.000	1	17.441	-	-	-	-	-	-	-	-	-
AFC <sup>(†)</sup>	-	-	-	-	-	-	10,870.000	1	10.870	-	-	-	-	-	-	-	-	-
AMC <sup>(†)</sup>	-	-	-	-	-	-	1,123.000	1	1.123	-	-	-	-	-	-	-	-	-
USMA <sup>(†)</sup>	5,777.000	1	5.777	-	-	-	576.000	1	0.576	342.000	1	0.342	-	-	-	342.000	1	0.342
SOTO CANO Aircraft Hangar <sup>(†)</sup>	-	-	-	-	-	-	61.000	1	0.061	-	-	-	-	-	-	-	-	-
5th Army, USA NORTH <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	572.000	1	0.572	-	-	-	572.000	1	0.572
US KOREA CMD <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	2,280.000	1	2.280	-	-	-	2,280.000	1	2.280
USARPAC <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	2,253.000	1	2.253	-	-	-	2,253.000	1	2.253
<i>Subtotal: Non Recurring Cost</i>	-	-	435.460	-	-	123.604	-	-	179.727	-	-	85.002	-	-	-	-	-	85.002
<i>Subtotal: Hardware Cost</i>	-	-	435.460	-	-	123.604	-	-	179.727	-	-	85.002	-	-	-	-	-	85.002
<b>Gross/Weapon System Cost</b>	-	-	435.460	-	-	123.604	-	-	179.727	-	-	85.002	-	-	-	-	-	85.002

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	123.604	179.727	85.002	-	85.002
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	123.604	179.727	85.002	-	85.002

(†) indicates the presence of a P-5a



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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems	<b>Item Number / Title [DODIC]:</b> B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION
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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
GTMO Detention Legal Complex		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2022	May 2022	1	2,100.000	N		
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		
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		
TRADOC CCOE		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2023	Jul 2023	1	14,986.000	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	10,561.000	N		
USAREUR EDI		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2023	Jul 2023	1	4,809.000	N		
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		
Army War College Root Hall		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2023	Jul 2023	1	2,299.000	N		
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		
ARCYBER FI-MUE		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2023	Jun 2023	1	57,461.000	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		
USMA		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	May 2023	Jul 2023	1	342.000	N		
SOTO CANO Aircraft Hangar		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Jun 2022	Aug 2022	1	61.000	N		
5th Army, USA NORTH		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Jun 2023	Aug 2023	1	572.000	N		
US KOREA CMD		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2023	Jun 2023	1	2,280.000	N		
USARPAC		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2023	Jun 2023	1	2,253.000	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.

FY21 Contracts:  
 ADVANCED IT CONCEPT INC., WINTER SPRINGS, FL / MICC - FORT STEWART, FORT STEWART, GA, \$338

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems	<b>Item Number / Title [DODIC]:</b> B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION

ALLCOM GLOBAL SERVICES, INC., LAKE SAINT LOUIS, MO / DEPARTMENT OF THE AIR FORCE, DIRECTORATE OF CONTRACTING, HILL AFB, UT, \$3  
 ARANEA SOLUTIONS, INC., RESTON, VA / ACC-APG, APG, MD, \$2,734  
 AURORA SYSTEMS CONSULTING, INC., TORRANCE, CA / NAWCAD PROCUREMENT GROUP, PATUXENT RIVER, MD, \$84  
 AV3, INC., MECHANICSVILLE, MD / MICC - FORT EUSTIS, FORT EUSTIS, VA, \$4,668  
 BAE SYSTEMS TECHNOLOGY SOLUTIONS & SERVI, ROCKVILLE, MD / NAWCAD PROCUREMENT GROUP, PATUXENT RIVER, MD, \$1,458  
 BOOZ ALLEN HAMILTON, INC., MCLEAN, VA / NAVAIR Aircraft Division Pax River, PATUXENT RIVER, MD, \$1310  
 CDW GOVERNMENT LLC, VERNON HILLS, IL / NAVAL AIR WARFARE CENTER AD (LKE), JOINT BASE MDL, NJ, \$2,905  
 CDW GOVERNMENT LLC, VERNON HILLS, IL / RCO WIESBADEN, APO, AE, \$343  
 CKA, LLC, STERLING, VA / ARMY CONTRACTING COMMAND - RI, ROCK ISLAND, IL, \$8,356  
 COMPUTER SITES, INC., DENVER, CO / DEPARTMENT OF THE AIR FORCE, DIRECTORATE OF CONTRACTING, HILL AFB, UT, \$3  
 DISTRIBUTED TECHNOLOGY GROUP LLC, SYRACUSE, NY / NAWCAD PROCUREMENT GROUP, PATUXENT RIVER, MD, \$42  
 EATON CORPORATION, RALEIGH, NC / DEPARTMENT OF THE AIR FORCE, DIRECTORATE OF CONTRACTING, HILL AFB, UT, \$3  
 EVERGREEN FIRE ALARMS, LLC, TACOMA, WA / US ARMY ENGINEERING & SUPPORT CENTER, HUNTSVILLE, AL, \$122  
 GENERAL DYNAMICS INFORMATION TECHNOLOGY, INC., WESTWOOD, MA / ACC-RI, ROCK ISLAND, IL, \$21,332  
 GOVSMART, INC., CHARLOTTESVILLE, VA / NAVAL AIR WARFARE CENTER AD, JOINT BASE MDL, NJ, \$1,178  
 GOVSMART, INC., CHARLOTTESVILLE, VA / NAWCAD PROCUREMENT GROUP, PATUXENT RIVER, MD, \$60  
 IAP WORLDWIDE SERVICES, INC., CAPE CANAVERAL, FL / ARMY CONTRACTING COMMAND - RI, ROCK ISLAND, IL, \$44  
 INDUSTRIES FOR THE BLIND AND VISUALLY IM, WEST ALLIS, WI / NAVAL AIR WARFARE CENTER AD, JOINT BASE MDL, NJ, \$79  
 INTELLIGENT DECISIONS, ASHBURN, VA / ACC-APG, TOBYHANNA DIVISION, TOBYHANNA, PA, \$72  
 LINTech-PRAGMATIC JV LLC, RESTON, VA / ACC-APG, TOBY HANNA DIVISION, TOBY HANNA, PA, \$153  
 M. C. DEAN, INC., TYSONS, VA / DEPARTMENT OF THE AIR FORCE, DIRECTORATE OF CONTRACTING, HILL AFB, UT, \$3  
 NETSY NC NETWORK SOLUTIONS, INC., HOUSTON, TX / NAVAL AIR WARFARE CENTER AD, JOINT BASE MDL, NJ, \$239  
 NEW TECH SOLUTIONS, INC., FREMONT, CA / NAWCAD PROCUREMENT GROUP, PATUXENT RIVER, MD, \$166  
 SEISMIUM LLC, TEMPLE HILLS, MD / ACC-APG, TOBYHANNA DIVISION, TOBYHANNA, PA, \$123  
 STERLING COMPUTERS CORPORATION, NORTH SIOUX CITY, SD / NAVAL AIR WARFARE CENTER, LAKEHURST, NJ, \$2,113  
 TEKSYNAP Corp, Reston, VA / ACC-APG, Fort Huachuca, AZ, \$12  
 THE MIL CORPORAATION, BOWIE, MD / NAWCAD PROCUREMENT GROUP, PATUXENT RIVER, MD, \$450  
 THUNDERCAT TECHNOLOGY, LLC, RESTON, VA / NAWCAD PROCUREMENT GROUP, PATUXENT RIVER, MD, \$48  
 WALSH FEDERAL, LLC, CHICAGO, IL / USA ENGINEER DISTRICT, SEATTLE, SEATTLE, WA, \$524  
 ZIVARO INC, DENVER, CO / NAVAL AIR WARFARE CENTER AD, JBMDL, NJ, \$2,163

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems	<b>Item Number / Title [DODIC]:</b> BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		1,640.801	26.127	25.416	17.541	-	17.541
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		1,640.801	26.127	25.416	17.541	-	17.541
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>1,640.801</b>	<b>26.127</b>	<b>25.416</b>	<b>17.541</b>	-	<b>17.541</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	8,204.875	16	131.278	2,645.000	1	2.645	2,095.000	1	2.095	2,047.000	1	2.047	-	-	-	2,047.000	1	2.047
MCA Spt-Switch Upgrades <sup>(†)</sup>	284.651	54	15.371	299.000	1	0.299	338.000	1	0.338	207.000	1	0.207	-	-	-	207.000	1	0.207
MCA Spt-Telephone System <sup>(†)</sup>	165.270	62	10.247	149.000	1	0.149	164.000	1	0.164	156.000	1	0.156	-	-	-	156.000	1	0.156
MCA Spt-LAN Transport System <sup>(†)</sup>	635.550	60	38.133	2,998.000	1	2.998	2,513.000	1	2.513	1,086.000	1	1.086	-	-	-	1,086.000	1	1.086
MCA Spt-Range Connectivity <sup>(†)</sup>	1,465.938	13	19.057	1,998.000	1	1.998	2,308.000	1	2.308	1,691.000	1	1.691	-	-	-	1,691.000	1	1.691
MCA Spt-Secure Data/ Encryption Devices <sup>(†)</sup>	1,012.000	19	19.228	3,998.000	1	3.998	3,542.000	1	3.542	2,371.000	1	2.371	-	-	-	2,371.000	1	2.371
MCA Spt-Engineering Svcs <sup>(†)</sup>	16,515.667	5	82.578	2,865.000	1	2.865	2,350.000	1	2.350	2,165.000	1	2.165	-	-	-	2,165.000	1	2.165
Phys Plant Infrastructure Spt IS Assets <sup>(†)</sup>	1,483.500	4	5.934	685.000	1	0.685	799.000	1	0.799	519.000	1	0.519	-	-	-	519.000	1	0.519
MCA	1,291,710.000	1	1,291.710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USARCENT ARIFJAN MCF Remediation	7,712.000	1	7.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems	<b>Item Number / Title [DODIC]:</b> BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	19,553.000	1	19.553	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAREUR EDI <sup>(t)</sup>	-	-	-	10,490.000	1	10.490	7,283.000	1	7.283	7,299.000	1	7.299	-	-	-	7,299.000	1	7.299
ARSOUTH Guantanamo <sup>(t)</sup>	-	-	-	-	-	-	4,024.000	1	4.024	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	1,640.801	-	-	26.127	-	-	25.416	-	-	17.541	-	-	-	-	-	17.541
<i>Subtotal: Hardware Cost</i>	-	-	1,640.801	-	-	26.127	-	-	25.416	-	-	17.541	-	-	-	-	-	17.541
<b>Gross/Weapon System Cost</b>	-	-	1,640.801	-	-	26.127	-	-	25.416	-	-	17.541	-	-	-	-	-	17.541

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	26.127	25.416	17.541	-	17.541
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	26.127	25.416	17.541	-	17.541

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

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
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
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-Telephone Switch		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	2,047.000	N		
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-Switch Upgrades		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	207.000	N		
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-Telephone System		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	156.000	N		
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-LAN Transport System		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	1,086.000	N		
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-Range Connectivity		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	1,691.000	N		
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-Secure Data/Encryption Devices		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	2,371.000	N		
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		
MCA Spt-Engineering Svcs		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	2,165.000	N		
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		
Phys Plant Infrastructure Spt IS Assets		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	519.000	N		
USAREUR EDI	✓	2021	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jul 2021	1	10,490.000	Y		
USAREUR EDI		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jul 2022	1	7,283.000	N		
USAREUR EDI		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2023	Jul 2023	1	7,299.000	N		
ARSOUTH Guantamo		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Feb 2022	Apr 2022	1	4,024.000	N		

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems	<b>Item Number / Title [DODIC]:</b> BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

**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.

FY21 Contracts:  
 ADVANTOR SY STEMS CORPORATION, Orlando, FL / U. S. ARMY ENGINEER DISTRICT, LOUISVILLE, LOUISVILLE, KY, \$26  
 AV3, INC., MECHANICSVILLE, MD / MICC - FORT EUSTIS, Ft Eustis, VA, \$3,245  
 CACI, INC., CHANTILLY, VA / GSA/FEDSIM Acquisition, Washington, DC, \$673  
 CDW GOVERNMENT LLC, VERNON HILLS, IL / RCO WIESBADEN, WIESBADEN, GE, \$344  
 DYNAMIC SYSTEMS, INC., EL SEGUNDO, CA / USPFO ME PURCHASING & CONTRACTING, AUGUSTA, ME, \$49  
 FIRELAKE CONSTRUCTION, INC., LENEXA, KS / 918TH CONTRACTING BATTALION, FORT CARSON, CO, \$149  
 GOVERNMENT ACQUISITIONS, INC., CINCINNATI, OH / NDARNG JFHQ, BISMARCK, ND, \$238  
 GOVERNMENT ACQUISITIONS, INC., CINCINNATI, OH / USPFO NM PURCHASING & CONTRACTING, SANTA FE, NM, \$96  
 ID TECHNOLOGIES, LLC, ASHBURN, VA / MICC - FORT GORDON, FT GORDON, GA, \$36  
 ID TECHNOLOGIES, LLC, ASHBURN, VA / USPFO AK PURCHASING AND CONTRACTING, FT R ICHARDSON, AK, \$199  
 IRON BOW TECHNOLOGIES, LLC, HERNDON, VA / MICC - FORT GORDON, FT GORDON, GA, \$48  
 JACOBS TECHNOLOGY INC., TAMPA, FL / HQ U SSOCOM-SOF AT&L-KS, TAMPA, FL, \$3,223  
 LOW VOLTAGE WIRING, LTD, COLORADO SPRINGS, CO / US ARMY ENGINEERING & SUPPORT CENTER, HUNTSVILLE, AL, \$257  
 REAL TIME MONITORS, INC., CARSON CITY, NV / MICC - FORT GORDON, FT GORDON, GA, \$64  
 TEKSYNAP Corp, Reston, VA / ACC-APG, Fort Huachuca, AZ, \$220  
 WALSH FEDERAL JV, CHICAGO, IL / USA ENGINEER DISTRICT, SEATTLE, SEATTLE, WA, \$521  
 WARFEATHER, LLC, COWETA, OK / MICC - FORT SILL, FORT SILL, OK, \$134  
 WORLD WIDE TECHNOLOGY, INC., MARYLAND HEIGHTS, MO / RCO WIESBADEN, APO, AE, \$1,363

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems	<b>Item Number / Title [DODIC]:</b> BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,042.122	13.242	8.883	13.979	-	13.979
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,042.122	13.242	8.883	13.979	-	13.979
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,042.122</b>	<b>13.242</b>	<b>8.883</b>	<b>13.979</b>	<b>-</b>	<b>13.979</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	208,424.400	5	1,042.122	13,242.000	1	13.242	8,883.000	1	8.883	13,979.000	1	13.979	-	-	-	13,979.000	1	13.979
<i>Subtotal: Non Recurring Cost</i>	-	-	1,042.122	-	-	13.242	-	-	8.883	-	-	13.979	-	-	-	-	-	13.979
<i>Subtotal: Hardware Cost</i>	-	-	1,042.122	-	-	13.242	-	-	8.883	-	-	13.979	-	-	-	-	-	13.979
<b>Gross/Weapon System Cost</b>	-	-	1,042.122	-	-	13.242	-	-	8.883	-	-	13.979	-	-	-	-	-	13.979

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	13.242	8.883	13.979	-	13.979
<b>Total: Secondary Distribution</b>	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	13.242	8.883	13.979	-	13.979

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73			<b>P-1 Line Item Number / Title:</b> 9200BB8650 / Information Systems				<b>Item Number / Title [DODIC]:</b> 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		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		
Sustain/Restore/Modernize (SRM) HW		2023	TBS / TBS	C / FFP	CHESS, Ft. Belvoir, VA	May 2023	Jun 2023	1	13,979.000	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.

FY21 Contracts:  
 GOVERNMENT ACQUISITIONS, INC., CINCINNATI , OH / ACC-APG, TOBYHANNA DIVISION, TOBYHANNA, PA, \$1,320  
 World Wide Technology, ST. LOUIS, MO / PEO EIS Technology Applications, FORT DETRICK, MD, \$2,954



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9666BU8000 / Emergency Management Modernization Program
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	175.974	-	4.875	5.036	-	5.036	5.060	5.074	5.141	5.190	-	206.350
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	175.974	-	4.875	5.036	-	5.036	5.060	5.074	5.141	5.190	-	206.350
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>175.974</b>	<b>-</b>	<b>4.875</b>	<b>5.036</b>	<b>-</b>	<b>5.036</b>	<b>5.060</b>	<b>5.074</b>	<b>5.141</b>	<b>5.190</b>	<b>-</b>	<b>206.350</b>

*(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 Network & Telephone Alerting System, Enhanced 911 (E911) solutions and Computer Aided Dispatch (CAD) capability (fielding beginning in FY22).

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, and 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		<b>P-1 Line Item Number / Title:</b> 9666BU8000 / Emergency Management Modernization Program
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> 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 Army Regulation (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 Department of Defense (DOD) Information Technology (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.

As the modernized enterprise CAD solution is being designed, procured and deployed, the Army is concurrently pursuing the Base Emergency Communications System (BECS) as a comprehensive system-of-systems for interoperable public safety communications convergence. The BECS program, for which CAD is an essential subsystem, will be the single integrated acquisition program for lifecycle modernization of emergency management and critical communications capabilities in support of installation public safety organizations, first responders, force protection personnel and other installation management functions. Along with CAD, the five interdependent capabilities that will comprise the BECS system-of-systems approach are Land Mobile Radio (LMR), Enterprise Mass Warning and Notification (EMWN), Next Generation 911 (NG 911), and the First Responder Broadband Network - LTE-5G (FRBN). Current and future CAD systems will be interoperable with all other BECS capabilities. As an enduring program, CAD will transition from an interoperable but stand-alone system on a legacy network to a fully integrated capability within the BECS-enabled public safety communication enterprise architecture.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	4.875	5.036	-	5.036	5.060	5.074	5.141	5.190
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>4.875</b>	<b>5.036</b>	-	<b>5.036</b>	<b>5.060</b>	<b>5.074</b>	<b>5.141</b>	<b>5.190</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9666BU8000 / Emergency Management Modernization Program
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	BU8000 / Emergency Management Modernization Program				- / 175.974	- / -	- / 4.875	- / 5.036	- / -	- / 5.036
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 175.974</b>	<b>- / -</b>	<b>- / 4.875</b>	<b>- / 5.036</b>	<b>- / -</b>	<b>- / 5.036</b>

\*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 2023 Base procurement funding in the amount of \$5.036 million supports Computer Aided Dispatch (CAD) capability fielding to Aberdeen Proving Ground (MD), Fort Campbell (KY), Fort Irwin (CA), Fort Knox (KY) and Fort McCoy (WI). 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73		<b>P-1 Line Item Number / Title:</b> 9666BU8000 / Emergency Management Modernization Program
		<b>Item Number / Title [DODIC]:</b> BU8000 / Emergency Management Modernization Program

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				175.974	-	4.875	5.036	-	5.036
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				175.974	-	4.875	5.036	-	5.036
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>175.974</b>	<b>-</b>	<b>4.875</b>	<b>5.036</b>	<b>-</b>	<b>5.036</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	26.608	-	-	-	-	-	0.180	-	-	0.482	-	-	-	-	-	0.482
SETA Contract Support	-	-	48.321	-	-	-	-	-	0.175	-	-	0.297	-	-	-	-	-	0.297
Prime Contract (COTS purchase)	3,665.800	10	36.658	-	-	-	-	-	4.277	-	-	3.998	-	-	-	-	-	3.998
Enterprise Level Hosting	-	-	24.543	-	-	-	-	-	0.243	-	-	0.259	-	-	-	-	-	0.259
Technical Data Integration	-	-	39.844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>175.974</i>	-	-	-	-	-	<i>4.875</i>	-	-	<i>5.036</i>	-	-	-	-	-	<i>5.036</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>175.974</i>	-	-	-	-	-	<i>4.875</i>	-	-	<i>5.036</i>	-	-	-	-	-	<i>5.036</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>175.974</b>	-	-	-	-	-	<b>4.875</b>	-	-	<b>5.036</b>	-	-	-	-	-	<b>5.036</b>

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	4.875	5.036	-	5.036
<b>Total:</b>	Quantity	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9666BU8000 / Emergency Management Modernization Program	<b>Item Number / Title [DODIC]:</b> BU8000 / Emergency Management Modernization Program

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Secondary Distribution	Total Obligation Authority	-	4.875	5.036	-	5.036

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9674B33000 / Home Station Mission Command Centers (HSMCC)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	11	2	-	-	-	-	-	-	-	-	-	13
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	91.676	15.227	-	-	-	-	-	-	-	-	-	106.903
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	91.676	15.227	-	-	-	-	-	-	-	-	-	106.903
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>91.676</b>	<b>15.227</b>	-	-	-	-	-	-	-	-	-	<b>106.903</b>

*(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> )	8,334.182	7,613.500	-	-	-	-	-	-	-	-	-	8,223.308

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
	Quantity	2	-	-	-	-	-	-	-
	Total Obligation Authority	15.227	-	-	-	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9674B33000 / Home Station Mission Command Centers (HSMCC)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	15.227	-	-	-	-	-	-	-	-

**Justification:**  
 B33000 has no FY2023 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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9683B80000 / Joint Information Environment (JIE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	3.177	-	-	-	-	-	-	-	-	-	3.177
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	3.177	-	-	-	-	-	-	-	-	-	3.177
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>3.177</b>	-	-	-	-	-	-	-	-	-	<b>3.177</b>

*(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.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.177	-	-	-	-	-	-	-	-
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>3.177</b>	-	-	-	-	-	-	-	-

**Justification:**

B80000 has no funding request FY 2023.



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,881.165	343.724	218.001	214.806	-	214.806	188.909	133.930	148.323	148.592	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4,881.165	343.724	218.001	214.806	-	214.806	188.909	133.930	148.323	148.592	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4,881.165</b>	<b>343.724</b>	<b>218.001</b>	<b>214.806</b>	<b>-</b>	<b>214.806</b>	<b>188.909</b>	<b>133.930</b>	<b>148.323</b>	<b>148.592</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 a key enabler of the Army Modernization priorities in support of Cross Functional Team (CFT) efforts for Unified Network and Synthetic Training Environment (STE).

This program supports the Army's Network Modernization Strategy by replacing obsolete communications equipment, converging disparate segments of the current enterprise architecture, standardizing existing networks, and increasing interoperability among joint users and coalition partners. This program performs enterprise network lifecycle modernization at Army installations and incorporates emerging capabilities to keep pace with the latest commercial and industry standards. This program provides Mission Command from Afar, which enables a suite of standard command & control communications infrastructure at Army Commands worldwide. The end state is to provide reliable communications transport options for the Army to enable information dominance across Multi-Domain Operations (MDO). This program prepares installations to leverage future advanced modernization capabilities such as the Synthetic Training Environment (STE) and commercial cloud capabilities. This program includes the Terrestrial Transmission program, which provides hardware modernization for the Army's Special Access Program Enterprise Portal. This program includes the World Wide Technical Control Improvement Program which continues to initiate, improve, expand, and automate the Army's Technical Control Facilities.

BU0500 / Installation Information Infrastructure Modernization Program (I3MP):

I3MP lifecycle 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 comprehensive end-to-end voice, video and data integrated enterprise solutions. This program modernizes the Army network by replacing legacy and obsolete technologies, reducing cyber vulnerabilities to ensure the Army can maintain secure communications transport, throughput and bandwidth capacity to satisfy projected Army operational demands. This program integrates and validates available and emerging commercial capabilities to keep pace with latest commercial and industry standards. This program provides Mission Command from Afar, which enables a suite of standard command & control communications infrastructure at Army Commands worldwide.

This program provides the necessary network infrastructure modernization to enable Unified Capabilities (UC), Unified Network Operations (UNO), 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 the following overarching global modernization efforts: Secure Internet Protocol Router (SIPR) Network Modernization, Non-Secure Internet Protocol Router (NIPR) Network Modernization, Voice over Internet Protocol (VoIP) Modernization / Time Division Multiplexer decommissioning, Inside Plant (ISP), Outside Plant (OSP), Installation Campus Area Networks (ICAN), Multiprotocol Labeling Switch (MPLS) upgrades and Technical Control Facility upgrades

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

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 by Geographic Combatant Command (GCC). Modernization efforts may also include critical infrastructure improvements as required such as: 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 performs lifecycle network modernization for the classified and unclassified networks at multiple locations across the European Area Of Responsibility (AOR) and performs specific modernization to support named operations such as the European Deterrence Initiative (EDI).

**BU0520 / I3MP-Pacific:**  
I3MP-Pacific performs lifecycle network modernization for the classified and unclassified networks at multiple locations across Indo-Pacific AOR.

**BU0530 / I3MP-CONUS:**  
I3MP-CONUS performs lifecycle network modernization for the classified and unclassified networks at multiple locations across the Americas AOR. This funding line also supports life cycle network modernization efforts globally.

**B00540 / I3MP-SWA:**  
I3MP-SWA performs lifecycle network modernization for the classified and unclassified networks at multiple locations across Southwest Asia AOR and performs specific modernization to support named operations such as Operation Spartan Shield (OSS).

**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.

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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.

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Army	Quantity	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications					<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	343.724	218.001	214.806	-	214.806	188.909	133.930	148.323	148.592
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>343.724</b>	<b>218.001</b>	<b>214.806</b>	<b>-</b>	<b>214.806</b>	<b>188.909</b>	<b>133.930</b>	<b>148.323</b>	<b>148.592</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	- / 33.780	- / -	- / 33.780
P-5	BU0510 / I3MP - Europe	P-5a			- / 954.003	- / 4.041	- / 34.154	- / 47.926	- / -	- / 47.926
P-5	BU0520 / I3MP - Pacific	P-5a			- / 299.972	- / 4.012	- / 17.879	- / 17.700	- / -	- / 17.700
P-5	BU0530 / I3MP - CONUS	P-5a			- / 2,512.153	- / 285.489	- / 122.013	- / 106.519	- / -	- / 106.519
P-5	BU2000 / TERRESTRIAL TRANSMISSION	P-5a			- / 78.742	- / 1.692	- / 1.706	- / 1.786	- / -	- / 1.786
P-5	BU3610 / WW Tech Con Imp Prog (WWTCIP)	P-5a			- / 978.665	- / 12.122	- / 6.801	- / 7.095	- / -	- / 7.095
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 4,881.165</b>	<b>- / 343.724</b>	<b>- / 218.001</b>	<b>- / 214.806</b>	<b>- / -</b>	<b>- / 214.806</b>

\*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:**  
 B00540 / I3MP-SWA:  
 FY 2023 BASE procurement dollars in the amount of \$8.174 million supports the comprehensive and targeted modernization of Secure Internet Protocol Router (SIPR), Non-Secure Internet Protocol Router (NIPR), Voice over Internet Protocol (VoIP) / Time Division Multiplexer (TDM) decommissioning, Inside Plant (ISP), Outside Plant (OSP), and Installation Campus Area Networks (ICAN) efforts in the Southwest Asia AOR.

FY 2023 Operation Spartan Shield (OSS) base procurement dollars in the amount of \$25.606 million support the comprehensive and targeted modernization of Secure Internet Protocol Router (SIPR), Non-Secure Internet Protocol Router (NIPR), Voice over Internet Protocol (VoIP) / Time Division Multiplexer (TDM) decommissioning, Inside Plant (ISP), Outside Plant (OSP), and Installation Campus Area Networks (ICAN) efforts in the Southwest Asia AOR in support requirements in Jordan and at Camp Buehring.

BU0510 / I3MP-Europe:  
 FY2023 Base procurement dollars in the amount of \$17.700 million support the comprehensive and targeted modernization of Secure Internet Protocol Router (SIPR), Non-Secure Internet Protocol Router (NIPR), Voice over Internet Protocol (VoIP) / Time Division Multiplexer (TDM) decommissioning, Inside Plant (ISP), Outside Plant (OSP), and Installation Campus Area Networks (ICAN) efforts in the U.S. European Command (EUCOM) Area Of Responsibility (AOR) including Italy, Benelux, Grafenwoehr, Ansbach, Kosovo and the Black Sea, Bosnia and Wiesbaden.

FY 2023 European Defense Initiative (EDI) base procurement dollars in the amount of \$30.226 million supports the comprehensive and targeted modernization of Secure Internet Protocol Router (SIPR), Non-Secure Internet Protocol Router (NIPR), Voice over Internet Protocol (VoIP) / Time Division Multiplexer (TDM) decommissioning, Inside Plant (ISP), Outside Plant (OSP), and Installation Campus Area Networks (ICAN) efforts in the U.S. European Command (EUCOM) AOR. Funding also supports, the build-out of multiple sites in Poland to include outside cabling, switches, routers and other hardware for Networks and communications infrastructure for Army Prepositioned Stock (APS) sites, the procurement of Mission Partner Environment (MPE) hardware (i.e. Extension Kits) for persistent infrastructure and Network equipment (switches & routers) in the USAREUR Mission Command Center for Coalition Network Infrastructure to support requirements for EDI.

BU0520 / I3MP-Pacific:  
 FY 2023 Base procurement dollars in the amount of \$17.700 million support the comprehensive and targeted modernization of Secure Internet Protocol Router (SIPR), Non-Secure Internet Protocol Router (NIPR), Voice over Internet Protocol (VoIP) / Time Division Multiplexer (TDM) decommissioning, Inside Plant (ISP), Outside Plant (OSP), and Installation Campus Area Networks (ICAN) efforts in the U.S. Indo-Pacific AOR to include Camp Humphreys and Pacific Enterprise Services-Korea (PES-K).

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>BU0530 / I3MP-CONUS: FY 2023 Base procurement dollars in the amount of \$106.519 million support the comprehensive and targeted modernization of Secure Internet Protocol Router (SIPR), Non-Secure Internet Protocol Router (NIPR), Voice over Internet Protocol (VoIP) / Time Division Multiplexer (TDM) decommissioning, Inside Plant (ISP), Outside Plant (OSP), and Installation Campus Area Networks (ICAN) efforts in the Americas AOR to include Fort Benning, Redstone Arsenal, Fort Irwin, Fort Leavenworth, Fort Huachuca, Fort Meade and locations in the North East Regional Call Center.</p> <p>BU2000 / Terrestrial Transmission (TT): FY 2023 Base procurement dollars in the amount of \$1.786 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): FY 2023 Base procurement dollars in the amount of \$7.095 million support one Technical Control Facility (TCF) located in Wiesbaden. Funding provides alternating current and direct current (AC/DC) power, uninterruptible power supplies (UPS) and backup generators, 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>		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>						<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73			<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program			<b>Item Number / Title [DODIC]:</b> B00540 / I3MP- SWA		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>		
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			57.630	36.368	35.448	33.780	-	33.780
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			57.630	36.368	35.448	33.780	-	33.780
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>57.630</b>	<b>36.368</b>	<b>35.448</b>	<b>33.780</b>	-	<b>33.780</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Non Recurring Cost</b>																		
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 (Taji)	20,800.000	1	20,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADA PAT Site ISP/OSP Remediation <sup>(†)</sup>	-	-	-	5,000.000	1	5,000	-	-	-	-	-	-	-	-	-	-	-	-
Baghdad Diplomatic Support Center TCF Remediation <sup>(†)</sup>	-	-	-	10,200.000	1	10,200	-	-	-	-	-	-	-	-	-	-	-	-
CJOA-A C4I Transport Refresh <sup>(†)</sup>	-	-	-	8,791.000	1	8,791	-	-	-	-	-	-	-	-	-	-	-	-
Tier 1 TCF Data Network Modernization <sup>(†)</sup>	-	-	-	8,300.000	1	8,300	-	-	-	-	-	-	-	-	-	-	-	-
SWA Network Modernization <sup>(†)</sup>	-	-	-	4,077.000	1	4,077	35,448.000	1	35,448	33,780.000	1	33,780	-	-	-	33,780.000	1	33,780

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73						<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program						<b>Item Number / Title [DODIC]:</b> B00540 / I3MP- SWA					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	57.630	-	-	36.368	-	-	35.448	-	-	33.780	-	-	-	-	-	33.780
<i>Subtotal: Hardware Cost</i>	-	-	57.630	-	-	36.368	-	-	35.448	-	-	33.780	-	-	-	-	-	33.780
<b>Gross/Weapon System Cost</b>	-	-	57.630	-	-	36.368	-	-	35.448	-	-	33.780	-	-	-	-	-	33.780

**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 FY23 decrease in funding to the SWA Network Modernization Cost Element is due to installation costs related to the size of installations which are directly tied to the Army's priority.  
  
 Project Manager, Integrated Enterprise Network ( PM, IEN) will be the primary funds manager.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	36.368	35.448	33.780	-	33.780
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	36.368	35.448	33.780	-	33.780

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> 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
ADA PAT Site ISP/OSP Remediation		2021	Tyto Athene, LLC / Herndon, VA	C / FFP	ACC-RI, Rock Island, IL	Jul 2021	Aug 2021	1	5,000.000	Y		
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	Tyto Athene, LLC / Herndon, VA	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	May 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		2023	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2023	Feb 2023	1	33,780.000	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> BU0510 / I3MP - Europe

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				954.003	4.041	34.154	47.926	-	47.926
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				954.003	4.041	34.154	47.926	-	47.926
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>954.003</b>	<b>4.041</b>	<b>34.154</b>	<b>47.926</b>	<b>-</b>	<b>47.926</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(1)</sup>	3,500.000	1	3.500	4,041.000	1	4.041	34,154.000	1	34.154	47,926.000	1	47.926	-	-	-	47,926.000	1	47.926
<i>Subtotal: Non Recurring Cost</i>	-	-	954.003	-	-	4.041	-	-	34.154	-	-	47.926	-	-	-	-	-	47.926
<i>Subtotal: Hardware Cost</i>	-	-	954.003	-	-	4.041	-	-	34.154	-	-	47.926	-	-	-	-	-	47.926
<b>Gross/Weapon System Cost</b>	-	-	954.003	-	-	4.041	-	-	34.154	-	-	47.926	-	-	-	-	-	47.926

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> BU0510 / I3MP - Europe
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**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 FY2023 funding increase in EUCOM Network Upgrades represents an increase in Base European Deterrence Initiative (BEDI).

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.041	34.154	47.926	-	47.926
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>4.041</b>	<b>34.154</b>	<b>47.926</b>	-	<b>47.926</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> 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 Network Upgrades		2021	LGS Innovations, LLC / Herndon, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2022	Feb 2022	1	4,041.000	Y		
EUCOM Network Upgrades		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2022	Feb 2022	1	34,154.000	N		
EUCOM Network Upgrades		2023	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2023	Feb 2023	1	47,926.000	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.

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> BU0520 / I3MP - Pacific
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	299.972	4.012	17.879	17.700	-	17.700
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	299.972	4.012	17.879	17.700	-	17.700
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>299.972</b>	<b>4.012</b>	<b>17.879</b>	<b>17.700</b>	<b>-</b>	<b>17.700</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	-	-	299.972	4,012.000	1	4.012	17,879.000	1	17.879	17,700.000	1	17.700	-	-	-	17,700.000	1	17.700
<i>Subtotal: Non Recurring Cost</i>	-	-	299.972	-	-	4.012	-	-	17.879	-	-	17.700	-	-	-	-	-	17.700
<i>Subtotal: Hardware Cost</i>	-	-	<b>299.972</b>	-	-	<b>4.012</b>	-	-	<b>17.879</b>	-	-	<b>17.700</b>	-	-	-	-	-	<b>17.700</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>299.972</b>	-	-	<b>4.012</b>	-	-	<b>17.879</b>	-	-	<b>17.700</b>	-	-	-	-	-	<b>17.700</b>

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.012	17.879	17.700	-	17.700
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>4.012</b>	<b>17.879</b>	<b>17.700</b>	<b>-</b>	<b>17.700</b>

<sup>(†)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> 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	Dec 2021	Jan 2022	1	17,879.000	N		
Pacific Network Modernization		2023	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2023	Feb 2023	1	17,700.000	N		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>											<b>Date:</b> April 2022								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73						<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program					<b>Item Number / Title [DODIC]:</b> BU0530 / I3MP - CONUS								
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :											<b>MDAP/MAIS Code:</b>								
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total										
Procurement Quantity (Units in Each)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)				2,512.153	285.489	122.013	106.519	-	-	-	-	-	-	-	-	-	-	106.519	
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)				2,512.153	285.489	122.013	106.519	-	-	-	-	-	-	-	-	-	-	106.519	
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>				<b>2,512.153</b>	<b>285.489</b>	<b>122.013</b>	<b>106.519</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>106.519</b>	
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
NETMOD-C Hardware	23,026.500	4	92.106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YRP/LPP <sup>(†)</sup>	13,956.143	7	97.693	9,700.000	1	9.700	5,355.000	1	5.355	-	-	-	-	-	-	-	-	-
IT Modernization Hardware <sup>(†)</sup>	45,212.000	8	361.696	80,259.000	1	80.259	43,970.000	1	43.970	41,266.000	1	41.266	-	-	-	41,266.000	1	41.266
IT Modernization Engineering/ Implementation <sup>(†)</sup>	126,622.692	13	1,646.095	115,094.000	1	115.094	72,688.000	1	72.688	65,253.000	1	65.253	-	-	-	65,253.000	1	65.253
THAAD Infrastructure	9,750.000	2	19.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD-Europe <sup>(†)</sup>	2,997.667	3	8.993	39,188.000	1	39.188	-	-	-	-	-	-	-	-	-	-	-	-
ATM SONET	5,789.200	5	28.946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD-Pacific <sup>(†)</sup>	31,582.000	2	63.164	4,905.000	1	4.905	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>2,318.193</i>	<i>-</i>	<i>-</i>	<i>249.146</i>	<i>-</i>	<i>-</i>	<i>122.013</i>	<i>-</i>	<i>-</i>	<i>106.519</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>106.519</i>
<b>Non Recurring Cost</b>																		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD Buehring	570.000	1	0.570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73		<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
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 <sup>(t)</sup>	-	-	-	36,343.000	1	36.343	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	80.812	-	-	36.343	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Hardware Cost</b>	-	-	<b>2,399.005</b>	-	-	<b>285.489</b>	-	-	<b>122.013</b>	-	-	<b>106.519</b>	-	-	-	-	-	<b>106.519</b>
<b>Support - Program Management Cost</b>																		
Government Management	56,574.000	2	113.148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>113.148</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>2,512.153</b>	-	-	<b>285.489</b>	-	-	<b>122.013</b>	-	-	<b>106.519</b>	-	-	-	-	-	<b>106.519</b>

**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 FY23 decrease in funding to the IT Modernization Hardware Cost Element is due to installation costs related to the size of installations which are directly tied to the Army's priority.

The FY23 decrease in funding to the IT Modernization Engineering/ Implementation Cost Element is due to installation costs related to the size of installations which are directly tied to the Army's priority.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	285.489	122.013	106.519	-	106.519
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>285.489</b>	<b>122.013</b>	<b>106.519</b>	-	<b>106.519</b>

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

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
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				
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
YRP/LPP		2021	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Jun 2021	Jul 2021	1	9,700.000	Y		
YRP/LPP		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	1	5,355.000	Y		
IT Modernization Hardware		2021	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Nov 2021	Dec 2021	0	13,801.000	Y		
IT Modernization Hardware		2021	Wildflower / Sante Fe, NM	C / FFP	ACC-RI, Rock Island, IL	May 2021	Jun 2021	1	42,106.000	Y		
IT Modernization Hardware		2021	General Dynamics / Westwood, MA	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	0	12,199.000	Y		
IT Modernization Hardware		2021	TELOS Corp / Ashburn, VA	C / FFP	ACC-RI, Rock Island, IL	May 2021	Jun 2021	0	9,923.000	Y		
IT Modernization Hardware		2021	Avaya Federal Soutions, Inc / Fairfax, VA	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	0	579.000	Y		
IT Modernization Hardware		2021	American Systems Corporation / Chantilly, VA	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	0	944.000	Y		
IT Modernization Hardware		2021	AVI-SPL LLC / Tampa, FL	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	0	707.000	Y		
IT Modernization Hardware		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	1	43,970.000	N		
IT Modernization Hardware		2023	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Dec 2022	Jan 2023	1	41,266.000	N		
IT Modernization Engineering/ Implementation		2021	VAE Inc / Reston, VA	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	May 2021	0	573.000	Y		
IT Modernization Engineering/ Implementation		2021	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Sep 2021	Oct 2021	1	20,701.000	Y		
IT Modernization Engineering/ Implementation		2021	General Dynamics / Westwood, MA	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	0	18,298.000	Y		
IT Modernization Engineering/ Implementation		2021	TELOS Corp / Ashburn, VA	C / FFP	ACC-RI, Rock Island, IL	May 2021	Jun 2021	0	14,885.000	Y		
IT Modernization Engineering/ Implementation		2021	GSA FEDSIM / Washington, DC	MIPR	GSA, Washington, DC	Jun 2021	Jul 2021	0	60,637.000	Y		
IT Modernization Engineering/ Implementation		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	1	72,688.000	N		
IT Modernization Engineering/ Implementation		2023	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Dec 2022	Jan 2023	1	65,253.000	N		
NETMOD-Europe		2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Jan 2022	1	28,909.000	N		
NETMOD-Europe		2021	Tribalco LLC / Bethesda, MD	C / FFP	ACC-RI, Rock Island, IL	Aug 2021	Sep 2021	0	412.000	Y		
NETMOD-Europe		2021	Amentum Services, Inc / Germantown, MD	C / FFP	ACC-RI, Rock Island, IL	Jul 2021	Aug 2021	0	9,867.000	Y		
NETMOD-Pacific		2021	LGS Innovations / McLeansville, NC	C / FFP	ACC-RI, Rock Island, IL	Nov 2020	Dec 2020	1	4,905.000	Y		
NETMOD Europe OCO	✓	2021	CDW Government LLC / Vernon Hills, IL	C / FFP	RCO Wiesbaden, Wiesbaden, Germany	Jun 2021	Sep 2021	0	15,848.000	Y		
NETMOD Europe OCO	✓	2021	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	9,743.000	Y		
NETMOD Europe OCO	✓	2021	General Dynamics / Falls Church, VA	C / FFP	GSA Regoin 31, Philadelphia, PA	May 2021	Sep 2021	0	9,345.000	Y		



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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> 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 OCO	✓	2021	PM Tactical Network, PdM SATCOM / Aberdeen Proving Ground, MD	MIPR	IT Contracting Division, Scott AFB, IL	Sep 2021	Feb 2022	0	909.000	Y		
NETMOD Europe OCO	✓	2021	US Army DEVCOM Aviation and Missile Center / Redstone Arsenal, AL	MIPR	USA CCDC Aviation & Missile, Eastover, SC	Sep 2021	Oct 2021	0	59.000	Y		
NETMOD Europe OCO	✓	2021	World Wide Techonology, LLC / Saint Louis, MO	C / FFP	RCO Wiesbaden, Wiesbaden, Germany	Sep 2021	Jan 2022	0	439.000	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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> BU2000 / TERRESTRIAL TRANSMISSION

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	78.742	1.692	1.706	1.786	-	1.786
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	78.742	1.692	1.706	1.786	-	1.786
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>78.742</b>	<b>1.692</b>	<b>1.706</b>	<b>1.786</b>	<b>-</b>	<b>1.786</b>

*(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.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Furnish Bill of Material, Install, and Test <sup>(†)</sup>	39,371.000	2	78.742	1,692.000	1	1.692	1,706.000	1	1.706	1,786.000	1	1.786	-	-	-	1,786.000	1	1.786
<i>Subtotal: Recurring Cost</i>	-	-	78.742	-	-	1.692	-	-	1.706	-	-	1.786	-	-	-	-	-	1.786
<i>Subtotal: Hardware Cost</i>	-	-	<b>78.742</b>	-	-	<b>1.692</b>	-	-	<b>1.706</b>	-	-	<b>1.786</b>	-	-	-	-	-	<b>1.786</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>78.742</b>	-	-	<b>1.692</b>	-	-	<b>1.706</b>	-	-	<b>1.786</b>	-	-	-	-	-	<b>1.786</b>

**Remarks:**

FY 2023 Base procurement dollars in the amount of \$1.786 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).

<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Army	-	-	-	-	-
Total Obligation Authority	1.692	1.706	1.786	-	1.786
<b>Total: Secondary Distribution</b>	<b>1.692</b>	<b>1.706</b>	<b>1.786</b>	<b>-</b>	<b>1.786</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73			<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	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		
Furnish Bill of Material, Install, and Test		2023	TBD / TBD	C / BPA	PEO EIS, CHESS, Fort Belvoir, VA	Jan 2023	Feb 2023	1	1,786.000	N		

**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)

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> BU3610 / WW Tech Con Imp Prog (WWTCIP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	978.665	12.122	6.801	7.095	-	7.095
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	978.665	12.122	6.801	7.095	-	7.095
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>978.665</b>	<b>12.122</b>	<b>6.801</b>	<b>7.095</b>	<b>-</b>	<b>7.095</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Program Management Administration	208,282.000	1	208.282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	208.282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Technical Control Facility <sup>(†)</sup>	7,701.667	3	23.105	5,959.000	1	5.959	4,881.000	1	4.881	5,137.000	1	5.137	-	-	-	5,137.000	1	5.137
Engineer, Install & Test <sup>(†)</sup>	247,571.000	3	742.713	793.000	1	0.793	1,920.000	1	1.920	1,958.000	1	1.958	-	-	-	1,958.000	1	1.958
<i>Subtotal: Non Recurring Cost</i>	-	-	765.818	-	-	6.752	-	-	6.801	-	-	7.095	-	-	-	-	-	7.095
<i>Subtotal: Hardware Cost</i>	-	-	<b>974.100</b>	-	-	<b>6.752</b>	-	-	<b>6.801</b>	-	-	<b>7.095</b>	-	-	-	-	-	<b>7.095</b>
<b>Logistics Cost</b>																		
Recurring Cost																		
Mobile Technical Control Facility <sup>(†)</sup>	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>	-	-	<b>4.565</b>	-	-	<b>5.370</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>978.665</b>	-	-	<b>12.122</b>	-	-	<b>6.801</b>	-	-	<b>7.095</b>	-	-	-	-	-	<b>7.095</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> BU3610 / WW Tech Con Imp Prog (WWTCIP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	12.122	6.801	7.095	-	7.095
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	12.122	6.801	7.095	-	7.095

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 73	<b>P-1 Line Item Number / Title:</b> 9700BU0500 / Installation Info Infrastructure Mod Program	<b>Item Number / Title [DODIC]:</b> 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		2021	PM DCATS / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Jan 2021	Feb 2021	1	5,959.000	Y		
Technical Control Facility		2022	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2022	Feb 2022	1	4,881.000	N		
Technical Control Facility		2023	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2023	Feb 2023	1	5,137.000	N		
Engineer, Install & Test		2021	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2020	Nov 2020	1	793.000	Y		
Engineer, Install & Test		2022	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2021	Nov 2021	1	1,920.000	Y		
Engineer, Install & Test		2023	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2022	Nov 2022	1	1,958.000	N		
Mobile Technical Control Facility	✓	2021	ISEC / Fort Huachuca, AZ	C / FFP	ACC-RI, Rock Island, IL	Nov 2021	Dec 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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9398K57300 / TITAN
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0604037A	<b>Other Related Program Elements:</b> 0605148A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	6	10	10	10	-	36
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	84.821	-	84.821	298.935	372.787	409.469	350.556	-	1,516.568
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	84.821	-	84.821	298.935	372.787	409.469	350.556	-	1,516.568
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	<b>84.821</b>	-	<b>84.821</b>	<b>298.935</b>	<b>372.787</b>	<b>409.469</b>	<b>350.556</b>	-	<b>1,516.568</b>

*(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> )	-	-	-	-	-	-	49,822.500	37,278.700	40,946.900	35,055.600	-	42,126.889

**Description:**

This funding line supports the Army Modernization Priority Long Range Precision Fires.

The Tactical Intelligence Targeting Access Node (TITAN) is a scalable and expeditionary intelligence ground station that supports commanders across the entire Multi-Domain Operations (MDO)/Joint All Domain Operations (JADO) battlefield framework with capabilities tailored to echelon. TITAN leverages Space, High Altitude, Aerial and Terrestrial layer sensors to provide targetable data to fires networks as well as multi-discipline intelligence support to targeting and Situation Awareness/Situation Understanding (SA/SU) in support of mission command. TITAN is the future Army Intelligence, Surveillance, and Reconnaissance (ISR) ground station that will consolidate the sensor processing capabilities in the current Distributed Common Ground System-Army (DCGS-A) Operational-Intelligence Ground Station (OGS), Tactical-Intelligence Ground Station (TGS), the Advanced Miniaturized Data Acquisition System Dissemination Vehicle (ADV) and the Remote Ground Terminal (RGT). Additionally, TITAN will have the access and sensor tasking or control capabilities of the future Tactical Space Layer assets, National assets, the Multi-Domain Sensing Systems (MDSS) as well as commercial overhead sensors. Consequently, the TITAN ground station will be able to conduct deep sensing operations with the abilities to Task, Collect, Process, Exploit, and Disseminate (TCPED) information from Space, High Altitude, Aerial, and Terrestrial Layer sensors in support of Long Range Precision Fires (LRPF) operations.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	6	10	10	10
Total Obligation Authority	-	-	84.821	-	84.821	298.935	372.787	409.469	350.556
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	6	10	10	10
Total Obligation Authority	-	-	84.821	-	84.821	298.935	372.787	409.469	350.556

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 02: Communications and Electronics **P-1 Line Item Number / Title:**  
 9398K57300 / TITAN  
 Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0604037A **Other Related Program Elements:** 0605148A

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	K57311 / TITAN GROUND STATION				- / -	- / -	- / -	- / 84.821	- / -	- / 84.821
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	- / -	- / 84.821	- / -	- / 84.821

\*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 2023 Base procurement dollars of \$84.821 million will procure 2 production-representative TITAN systems under Middle Tier Acquisition rapid prototyping guidelines. This rapid prototyping activity will provide operational leave behind capability supporting operational assessments that will inform the TITAN Capability Development Document (CDD) and FY25 Milestone C/Rapid Fielding Decision. Funds will also support engineering, fielding, and software requirements.

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.

K57300 TITAN is a NEW START in FY 2023.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9398K57300 / TITAN	<b>Item Number / Title [DODIC]:</b> K57311 / TITAN GROUND STATION
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	84.821	-	84.821
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	84.821	-	84.821
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	-	<b>84.821</b>	-	<b>84.821</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
TITAN Hardware Production	-	-	-	-	-	-	-	-	-	-	-	45.133	-	-	-	-	-	45.133
System Engineering/ PM	-	-	-	-	-	-	-	-	-	-	-	15.081	-	-	-	-	-	15.081
Fielding	-	-	-	-	-	-	-	-	-	-	-	7.441	-	-	-	-	-	7.441
Software Maintenance	-	-	-	-	-	-	-	-	-	-	-	7.690	-	-	-	-	-	7.690
Software Licensing	-	-	-	-	-	-	-	-	-	-	-	0.429	-	-	-	-	-	0.429
Testing	-	-	-	-	-	-	-	-	-	-	-	3.837	-	-	-	-	-	3.837
Data	-	-	-	-	-	-	-	-	-	-	-	5.210	-	-	-	-	-	5.210
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	84.821	-	-	-	-	-	84.821
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	84.821	-	-	-	-	-	84.821
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	-	-	<b>84.821</b>	-	-	-	-	-	<b>84.821</b>

**Remarks:**  
SSN K57311 / TITAN GROUND STATION is a NEW START in FY 2023.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	84.821	-	84.821

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>				<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9398K57300 / TITAN		<b>Item Number / Title [DODIC]:</b> K57311 / TITAN GROUND STATION		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	84.821	-	84.821

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9522V29600 / JTT/CIBS-M
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	7	-	7	-	-	-	-	-	7
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	350.197	5.304	5.463	2.352	-	2.352	0.509	0.508	0.510	0.509	-	365.352
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	350.197	5.304	5.463	2.352	-	2.352	0.509	0.508	0.510	0.509	-	365.352
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>350.197</b>	<b>5.304</b>	<b>5.463</b>	<b>2.352</b>	<b>-</b>	<b>2.352</b>	<b>0.509</b>	<b>0.508</b>	<b>0.510</b>	<b>0.509</b>	<b>-</b>	<b>365.352</b>

*(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> )	-	-	-	336.000	-	336.000	-	-	-	-	-	52,193.143

**Description:**

The Joint Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports all of the Joint Services and Special Operations Command (SOCOM). 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 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 Joint Tactical Terminal (JTT) is the official IBS system and ensures continued IBS interoperability to a variety of tactical producers and consumers across the Joint Services. JPO IBS Terminals program offices perform 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). The JPO is fielding a Next Generation non-developmental item to replace the existing JTT due to obsolescence and sustainment costs with current JTT configurations.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	7	-	7	-	-	-	-
Total Obligation Authority	5.304	5.463	2.352	-	2.352	0.509	0.508	0.510	0.509
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	7	-	7	-	-	-	-
Total Obligation Authority	5.304	5.463	2.352	-	2.352	0.509	0.508	0.510	0.509

**Justification:**

FY 2023 Base procurement dollars in the amount of \$2.352 million supports transition to organic sustainment, contractor engineering and logistics support, 7 Joint Tactical Terminals (JTTs) and fielding support documentation for all terminals.

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**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)		<b>P-1 Line Item Number / Title:</b> 9522V29600 / JTT/CIBS-M
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	3	6	-	6	25	26	26	26	-	112
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	8.081	39.240	88.915	-	88.915	201.148	236.954	230.108	229.987	-	1,034.433
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	8.081	39.240	88.915	-	88.915	201.148	236.954	230.108	229.987	-	1,034.433
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>8.081</b>	<b>39.240</b>	<b>88.915</b>	-	<b>88.915</b>	<b>201.148</b>	<b>236.954</b>	<b>230.108</b>	<b>229.987</b>	-	<b>1,034.433</b>

*(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> )	-	-	13,080.000	14,819.167	-	14,819.167	8,045.920	9,113.615	8,850.308	8,845.654	-	9,236.009

**Description:**

This program 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 BCT's 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 BCT 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	3	6	-	6	25	26	26	26
Total Obligation Authority	8.081	39.240	88.915	-	88.915	201.148	236.954	230.108	229.987
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	3	6	-	6	25	26	26	26
Total Obligation Authority	8.081	39.240	88.915	-	88.915	201.148	236.954	230.108	229.987

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	B97610 / TERRESTRIAL LAYER SYSTEM BCT	P-5a, P-21			- / -	- / 8.081	3 / 39.240	6 / 88.915	- / -	6 / 88.915
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 8.081	3 / 39.240	6 / 88.915	- / -	6 / 88.915

\*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 2023 base procurement funding in the amount of \$88.915 million supports the procurement, delivery, training and initial sparing of six (6) TLS BCT's to meet the Army's accelerated directive. Additionally, funding supports system engineers to develop acquisition documentation and other activities that will enable the program to progress through Mid-Tier Acquisition activities and will support TLS BCT contract management.

All funding is for the Active component.

Army Acquisition Objective (AAO): TBD

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)	<b>Item Number / Title [DODIC]:</b> B97610 / TERRESTRIAL LAYER SYSTEM BCT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )		-	-	3	6	-	6
Gross/Weapon System Cost ( <i>\$ in Millions</i> )		-	8.081	39.240	88.915	-	88.915
Less PY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )		-	8.081	39.240	88.915	-	88.915
Plus CY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )		-	<b>8.081</b>	<b>39.240</b>	<b>88.915</b>	-	<b>88.915</b>
<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> )		-	-	13,080.000	14,819.167	-	14,819.167

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
Recurring Cost																		
Long Lead Components	-	-	-	-	-	7.553	-	-	8.373	-	-	20.195	-	-	-	-	-	20.195
TLS BCT System Production <sup>(†)</sup>	-	-	-	-	-	-	4,563.667	6	27.382	9,899.000	6	59.394	-	-	-	9,899.000	6	59.394
Initial Spares	-	-	-	-	-	-	-	-	2.543	-	-	7.042	-	-	-	-	-	7.042
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	7.553	-	-	38.298	-	-	86.631	-	-	-	-	-	86.631
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	7.553	-	-	38.298	-	-	86.631	-	-	-	-	-	86.631
<b>Logistics Cost</b>																		
Recurring Cost																		
Fielding/Training/ Depot Support	-	-	-	-	-	-	-	-	0.580	-	-	1.560	-	-	-	-	-	1.560
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.580	-	-	1.560	-	-	-	-	-	1.560
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	0.580	-	-	1.560	-	-	-	-	-	1.560
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	-	-	-	0.528	-	-	0.362	-	-	0.724	-	-	-	-	-	0.724
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	0.528	-	-	0.362	-	-	0.724	-	-	-	-	-	0.724
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	8.081	13,080.000	3	39.240	14,819.167	6	88.915	-	-	-	14,819.167	6	88.915

Remarks:

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)	<b>Item Number / Title [DODIC]:</b> B97610 / TERRESTRIAL LAYER SYSTEM BCT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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1. Total cost for the Long Lead Component ? Increase due to (COVID related) Supply Chain delays that are influencing Supply/Demand curves which are driving costs up compounded by market wide inflation resulting in significantly higher (in some cases 25%) component costs.

2. Unit cost for TLS BCT System - Increase due to significantly higher component costs, several assumptions from the programming phase that did not come to fruition and unanticipated scope changes. The program is actively working to decrease unit costs by reassessing cost driving operational requirements, realigning to lower cost subcomponents and investing in Design for Manufacturing Activities that will reduce production costs.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	3	6	-	6
	Total Obligation Authority	8.081	39.240	88.915	-	88.915
<b>Total:</b>	<b>Quantity</b>	-	3	6	-	6
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>8.081</b>	<b>39.240</b>	<b>88.915</b>	-	<b>88.915</b>

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



**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80			<b>P-1 Line Item Number / Title:</b> 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)				<b>Item Number / Title [DODIC]:</b> B97610 / TERRESTRIAL LAYER SYSTEM BCT					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
TLS BCT System Production <sup>(†)</sup>		2022	Lockheed Martin Corporation / Syracuse, NY	C / FFP	APG, MD	Dec 2021	Jul 2022	6	4,563.667	N		
TLS BCT System Production <sup>(†)</sup>		2023	Lockheed Martin Corporation / Syracuse, NY	C / FFP	APG, MD	Dec 2022	Jul 2023	6	9,899.000	N		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80										<b>P-1 Line Item Number / Title:</b> 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)										<b>Item Number / Title [DODIC]:</b> B97610 / TERRESTRIAL LAYER SYSTEM BCT									

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					
TLS BCT System Production																																			
	1	2022	ARMY	6	0	6			A -	-	-	-	-	-	-	-	-	3	3											0					
	1	2023	ARMY	6	0	6														A -	-	-	-	-	-	-	-	6		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					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9546B97600 / TERRESTRIAL LAYER SYSTEMS (TLS)
		<b>Item Number / Title [DODIC]:</b> B97610 / TERRESTRIAL LAYER SYSTEM BCT

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Lockheed Martin Corporation - Syracuse, NY	3	3	6	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9654BU4050 / DRUG INTERDICTION PROGRAM (DIP) (TIARA)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	615.454	6.596	-	-	-	-	-	-	-	-	-	622.050
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	615.454	6.596	-	-	-	-	-	-	-	-	-	622.050
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>615.454</b>	<b>6.596</b>	-	-	-	-	-	-	-	-	-	<b>622.050</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.596	-	-	-	-	-	-	-	-
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>6.596</b>	-	-	-	-	-	-	-	-

**Justification:**

BU4050 has no funding request in FY 2023.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9690BZ7316 / DCGS-A-INTEL
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0305208A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3,549.104	197.595	92.613	76.771	-	76.771	113.124	116.145	38.078	38.131	-	4,221.561
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,549.104	197.595	92.613	76.771	-	76.771	113.124	116.145	38.078	38.131	-	4,221.561
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3,549.104</b>	<b>197.595</b>	<b>92.613</b>	<b>76.771</b>	<b>-</b>	<b>76.771</b>	<b>113.124</b>	<b>116.145</b>	<b>38.078</b>	<b>38.131</b>	<b>-</b>	<b>4,221.561</b>

*(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:**

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 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)					<b>P-1 Line Item Number / Title:</b> 9690BZ7316 / DCGS-A-INTEL					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0305208A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	146.151	66.084	60.726	-	60.726	113.124	115.764	33.289	33.342
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	51.444	23.457	14.317	-	14.317	-	0.328	4.310	4.310
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.072	1.728	-	1.728	-	0.053	0.479	0.479
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>197.595</b>	<b>92.613</b>	<b>76.771</b>	-	<b>76.771</b>	<b>113.124</b>	<b>116.145</b>	<b>38.078</b>	<b>38.131</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / 3,549.104	- / 197.595	- / 92.613	- / 76.771	- / -	- / 76.771
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 3,549.104</b>	<b>- / 197.595</b>	<b>- / 92.613</b>	<b>- / 76.771</b>	<b>- / -</b>	<b>- / 76.771</b>

\*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 2023 Base procurement dollars of \$66.566 million will focus on procurement and fielding of Capability Drop 2 (CD2) and acquisition of Cross Domain Solution Suites (CDSS). CD2 will replace DCGS-A data management capabilities hosted at Echelons Above Corps, add advanced analytics and Artificial Intelligence/Machine Learning capabilities, consolidate capabilities from the currently fielded IPCv1, and deliver CD2 and Army Intelligence capabilities to multiple Combatant Commands. The CDSS enables exchange of controlled information between multiple networks. Funding also procures new COTS software licenses to enhance performance of fielded systems as well as support integration of Intelligence Community investments. Funding will also support continued alignment with Army COE objectives and Army modernization priorities. Total quantities supported are 129 across Active Army, Army Reserve, and National Guard components.

FY 2023 Base procurement dollars of \$10.205 million will update and procure components for the DCGS-A CD2 IAW the Army's 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**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9690BZ7316 / DCGS-A-INTEL	<b>Item Number / Title [DODIC]:</b> BZ7316 / DCGS-A-INTEL

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,549.104	197.595	92.613	76.771	-	76.771
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,549.104	197.595	92.613	76.771	-	76.771
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>3,549.104</b>	<b>197.595</b>	<b>92.613</b>	<b>76.771</b>	<b>-</b>	<b>76.771</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	-	-	-	-	-	-	500.000	2	1.000	500.000	2	1.000	-	-	-	500.000	2	1.000
TGS MTI Downlink	-	-	-	-	-	-	500.000	2	1.000	-	-	-	-	-	-	-	-	-
ISR Process Ctr - V1 (IPC V1/Enclave) <sup>(†)</sup>	2,452.625	8	19.621	2,000.000	8	16.000	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	7	15.400	2,200.000	2	4.400	2,200.000	1	2.200	-	-	-	-	-	-	-	-	-
Cross Domain Solution Suite (CDSS) <sup>(†)</sup>	108.158	177	19.144	-	-	-	-	-	-	578.000	31	17.918	-	-	-	578.000	31	17.918
GEOINT WS (GWS/DE DTSS-D)	295.961	647	191.487	193.000	34	6.562	-	-	-	-	-	-	-	-	-	-	-	-
Intel Fusion Server (IFS)	1,479.667	415	614.062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Intel Fusion Server (IFS) (TSI Config)	189.132	515	97.403	169.000	47	7.943	-	-	-	-	-	-	-	-	-	-	-	-



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80						<b>P-1 Line Item Number / Title:</b> 9690BZ7316 / DCGS-A-INTEL						<b>Item Number / Title [DODIC]:</b> BZ7316 / DCGS-A-INTEL					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Portable (P)Multi Function WorkSta.	38.572	9,207	355.132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fixed (F)-Multi Function WorkStations	18.000	572	10.296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPE H/W S/W Refresh	-	-	54.616	-	-	3.756	-	-	-	-	-	-	-	-	-	-	-	-
Fixed Site Refresh	-	-	20.532	-	-	8.660	-	-	4.000	-	-	-	-	-	-	-	-	-
Equipment Tech Refresh	-	-	182.138	-	-	38.890	-	-	5.000	-	-	-	-	-	-	-	-	-
Software Licenses for Int. on DCGS HW	-	-	280.340	-	-	30.790	-	-	7.816	-	-	-	-	-	-	-	-	-
Software Integration on to DCGS HW	-	-	56.275	-	-	3.905	-	-	2.000	-	-	3.000	-	-	-	-	-	3.000
Fielding/Training	-	-	265.027	-	-	31.189	-	-	5.000	-	-	7.875	-	-	-	-	-	7.875
Technical Engineering Services	-	-	118.795	-	-	11.550	-	-	2.576	-	-	7.103	-	-	-	-	-	7.103
Program Office Support	-	-	148.392	-	-	8.100	-	-	7.480	-	-	7.600	-	-	-	-	-	7.600
Data	-	-	5.506	-	-	1.750	-	-	0.525	-	-	1.125	-	-	-	-	-	1.125
Capability Drop 2 Hardware	4.436	879	3.899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capability Drop Modifications Software <sup>(t)</sup>	-	-	59.877	-	-	24.100	-	-	11.716	519.160	60	31.150	-	-	-	519.160	60	31.150
Fixed Node Requirements <sup>(t)</sup>	-	-	-	-	-	-	20,150.000	2	40.300	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>3,549.104</i>	-	-	<i>197.595</i>	-	-	<i>92.613</i>	-	-	<i>76.771</i>	-	-	-	-	-	<i>76.771</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>3,549.104</i>	-	-	<i>197.595</i>	-	-	<i>92.613</i>	-	-	<i>76.771</i>	-	-	-	-	-	<i>76.771</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>3,549.104</b>	-	-	<b>197.595</b>	-	-	<b>92.613</b>	-	-	<b>76.771</b>	-	-	-	-	-	<b>76.771</b>

**Remarks:**

Unit Cost increase for Cross Domain Solution Suite (CDSS) in FY2023 due to increased National Security Agency requirements.  
 Increase in Technical Engineering Services related to accelerated modernization requirements for CD2 pivot to the cloud and CDSS fieldings.  
 Increase in Fielding/Training related to CDSS and TGS fieldings.  
 Capability Drop Modification Software requirement is for 60 licenses; contractor is Palantir.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9690BZ7316 / DCGS-A-INTEL	<b>Item Number / Title [DODIC]:</b> BZ7316 / DCGS-A-INTEL
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>						
	Total Obligation Authority	146.151	66.084	60.726	-	60.726
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	51.444	23.457	14.317	-	14.317
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	3.072	1.728	-	1.728
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>197.595</b>	<b>92.613</b>	<b>76.771</b>	-	<b>76.771</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9690BZ7316 / DCGS-A-INTEL	<b>Item Number / Title [DODIC]:</b> 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		
Cross Domain Solution Suite (CDSS)		2023	General Dynamics3 / Taunton, MA - CDS	C / FP	CECOM ACQ CENTER	Apr 2023	Sep 2023	31	578.000	Y		
Capability Drop Modifications Software		2023	TBD / TBD	C / FFP	CECOM ACQ CENTER	Feb 2023	Feb 2024	60	519.160	Y		
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.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9692BZ8401 / JOINT TACTICAL GROUND STATION (JTAGS)-INTEL
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 1208053A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	59.080	-	8.088	0.349	-	0.349	0.591	-	-	-	-	68.108
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	59.080	-	8.088	0.349	-	0.349	0.591	-	-	-	-	68.108
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>59.080</b>	<b>-</b>	<b>8.088</b>	<b>0.349</b>	<b>-</b>	<b>0.349</b>	<b>0.591</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>68.108</b>

*(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 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	8.088	0.349	-	0.349	0.591	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	8.088	0.349	-	0.349	0.591	-	-	-

**Justification:**

FY 2023 Base funding in the amount of \$0.349 million funds the JTAGS Block II system logistics support during fielding.

Funding decrease from FY 2022 to FY 2023 is the result of completion of JTAGS Block 2 Phase 2 Spiral 2 efforts. The system will possess Full Operational Capability in FY 2023.

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-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0303032A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	13	-	-	-	-	-	-	-	-	13
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	611.955	19.359	30.828	20.562	-	20.562	16.296	16.466	16.680	16.840	-	748.986
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	611.955	19.359	30.828	20.562	-	20.562	16.296	16.466	16.680	16.840	-	748.986
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>611.955</b>	<b>19.359</b>	<b>30.828</b>	<b>20.562</b>	<b>-</b>	<b>20.562</b>	<b>16.296</b>	<b>16.466</b>	<b>16.680</b>	<b>16.840</b>	<b>-</b>	<b>748.986</b>

*(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	-	-	-	-	-	-	-	-	57,614.308

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	13	-	-	-	-	-	-	-
Total Obligation Authority	19.359	30.828	20.562	-	20.562	16.296	16.466	16.680	16.840
<b>Total:</b>									
Quantity	-	13	-	-	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0303032A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	19.359	30.828	20.562	-	20.562	16.296	16.466	16.680	16.840

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**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / 328.534	- / 10.670	- / 10.758	- / 14.578	- / -	- / 14.578
P-5	BA0333 / TROJAN SPIRIT - TERMINALS	P-5a			- / 283.421	- / 8.689	13 / 20.070	- / 5.984	- / -	- / 5.984
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 611.955</b>	<b>- / 19.359</b>	<b>13 / 30.828</b>	<b>- / 20.562</b>	<b>- / -</b>	<b>- / 20.562</b>

\*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 2023 Base funding in the amount of \$20.562 million funds the following TROJAN NexGEN and TROJAN SPIRIT requirements:

FY 2023 Base procurement dollars of \$14.578 million will support TROJAN NexGen of which \$4.350 million funds the annual refresh of deployed TROJAN NexGEN systems in support of combat or direct combat support expenses for Operation Inherent Resolve. 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.

FY 2023 Base procurement dollars of \$5.984 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.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN
		<b>Item Number / Title [DODIC]:</b> BA0331 / TROJAN CLASSIC

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	328.534	10.670	10.758	14.578	-	14.578
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	328.534	10.670	10.758	14.578	-	14.578
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>328.534</b>	<b>10.670</b>	<b>10.758</b>	<b>14.578</b>	<b>-</b>	<b>14.578</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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) <sup>(†)</sup>	199.250	8	1.594	-	-	-	203.500	4	0.814	-	-	-	-	-	-	-	-	-
Remote Operations Facility (ROF) <sup>(†)</sup>	241.625	16	3.866	259.167	6	1.555	260.000	2	0.520	260.000	2	0.520	-	-	-	260.000	2	0.520
TSPRING <sup>(†)</sup>	1,930.000	6	11.580	1,930.000	2	3.860	2,004.000	2	4.008	2,165.500	2	4.331	-	-	-	2,165.500	2	4.331
TATTERAN <sup>(†)</sup>	2,230.000	1	2.230	-	-	-	260.000	1	0.260	-	-	-	-	-	-	-	-	-
S280 Shelter	241.667	3	0.725	260.000	1	0.260	-	-	-	-	-	-	-	-	-	-	-	-
Training Suite <sup>(†)</sup>	229.500	2	0.459	-	-	-	400.000	1	0.400	-	-	-	-	-	-	-	-	-
Integration/Fielding (TROJAN) <sup>(†)</sup>	8,783.750	8	70.270	3,229.000	1	3.229	3,479.000	1	3.479	4,100.000	1	4.100	-	-	-	4,100.000	1	4.100
Tactical NexGEN Upgrades (RCF) (1X per year)	-	-	-	-	-	-	1,277.000	1	1.277	1,277.000	1	1.277	-	-	-	1,277.000	1	1.277
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>273.533</b>	<b>-</b>	<b>-</b>	<b>8.904</b>	<b>-</b>	<b>-</b>	<b>10.758</b>	<b>-</b>	<b>-</b>	<b>10.228</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10.228</b>
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 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN	<b>Item Number / Title [DODIC]:</b> BA0331 / TROJAN CLASSIC
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	1,309.269	26	34.041	1,766.000	1	1.766	-	-	-	4,350.000	1	4.350	-	-	-	4,350.000	1	4.350
NexGEN	-	-	2.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	52.741	-	-	1.766	-	-	-	-	-	4.350	-	-	-	-	-	4.350
<i>Subtotal: Flyaway Cost</i>	-	-	326.274	-	-	10.670	-	-	10.758	-	-	14.578	-	-	-	-	-	14.578
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	328.534	-	-	10.670	-	-	10.758	-	-	14.578	-	-	-	-	-	14.578

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	10.670	10.758	14.578	-	14.578
<b>Total:</b>	Quantity	-	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	10.670	10.758	14.578	-	14.578

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

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN	<b>Item Number / Title [DODIC]:</b> 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 is CACI Technologies, Inc. The period of performance is 20AUG18 - 19AUG19 (Base Year) and 20AUG19 -19AUG23 (4 Option Years). The TROJAN Program plans to award new contract NLT end of 3rd QTR during FY23.

All items procured are COTS/GOTS.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN
		<b>Item Number / Title [DODIC]:</b> BA0333 / TROJAN SPIRIT - TERMINALS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	13	-	-	-
Gross/Weapon System Cost (\$ in Millions)				283.421	8.689	20.070	5.984	-	5.984
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				283.421	8.689	20.070	5.984	-	5.984
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>283.421</b>	<b>8.689</b>	<b>20.070</b>	<b>5.984</b>	<b>-</b>	<b>5.984</b>
<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	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(t)</sup>	277.670	1,001	277.948	170.373	51	8.689	41.381	485	20.070	299.200	20	5.984	-	-	-	299.200	20	5.984
AN/TSQ-226B(V)1 Phase 3 Kits Spares (RSC)	153.286	7	1.073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	279.021	-	-	8.689	-	-	20.070	-	-	5.984	-	-	-	-	-	5.984
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>	-	-	283.421	-	-	8.689	-	-	20.070	-	-	5.984	-	-	-	-	-	5.984
<b>Gross/Weapon System Cost</b>	-	-	283.421	-	-	8.689	1,543.846	13	20.070	-	-	5.984	-	-	-	-	-	5.984

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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	277.670	1,001	277.948	170.373	51	8.689	41.381	485	20.070	299.200	20	5.984	-	-	-	299.200	20	5.984

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN	<b>Item Number / Title [DODIC]:</b> BA0333 / TROJAN SPIRIT - TERMINALS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	-	-	-	-	-	-
T-JWICS VTC Suite Upgrades	41.367	169	6.991	-	-	-	50.000	115	5.750	50.000	14	0.700	-	-	-	50.000	14	0.700
T-JWICS VTC Suite Spares (RSC)	45.600	25	1.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
iDirect Modems	22.000	258	5.676	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
iDirect Modems - Spares (RSC)	22.000	14	0.308	-	-	-	15.000	26	0.390	-	-	-	-	-	-	-	-	-
Integration/Fielding	55,252.500	2	110.505	3,864.000	1	3.864	5,549.000	1	5.549	4,284.000	1	4.284	-	-	-	4,284.000	1	4.284
Hardware (Previous Years)	304.061	473	143.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Protected SATCOM Modem	-	-	-	-	-	-	31.000	20	0.620	-	-	-	-	-	-	-	-	-
V2/3 Conversion Kits	-	-	-	-	-	-	500.000	6	3.000	-	-	-	-	-	-	-	-	-
Global SATCOM e9350 Cables	-	-	-	-	-	-	2.400	220	0.528	-	-	-	-	-	-	-	-	-
TNCC	-	-	-	-	-	-	1,353.000	1	1.353	300.000	1	0.300	-	-	-	300.000	1	0.300
AN/TSQ-226B(V)1 Tech Refresh	-	-	-	-	-	-	-	-	-	175.000	4	0.700	-	-	-	175.000	4	0.700

**Remarks:**

In FY2023, the Hardware SPIRIT kit increase is due to an additional technical upgrade which will allow system to be sustained until FY28.

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 Technologies, Inc. The period of performance is 20AUG18 - 19AUG19 (Base Year) and 20AUG19 - 19AUG23 (4 Option Years). The TROJAN Program plans to award new contract NLT end of 3rd QTR during FY23.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	13	-	-	-
	Total Obligation Authority	8.689	20.070	5.984	-	5.984
<b>Total:</b>	<b>Quantity</b>	-	13	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN	<b>Item Number / Title [DODIC]:</b> BA0333 / TROJAN SPIRIT - TERMINALS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Secondary Distribution	Total Obligation Authority	8.689	20.070	5.984	-	5.984

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80			<b>P-1 Line Item Number / Title:</b> 9704BA0326 / TROJAN				<b>Item Number / Title [DODIC]:</b> 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	APG	Sep 2017	Sep 2017	35	164.910	N		
Hardware SPIRIT		2018	CACI / APG	C / CPFF	APG	Sep 2018	Sep 2018	143	30.657	N		
Hardware SPIRIT		2019	CACI / APG	C / CPAF	APG	Sep 2019	Sep 2019	192	63.557	N		
Hardware SPIRIT		2020	CACI / APG	C / CPAF	APG	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 is CACI Technologies, Inc. The period of performance is 20AUG18 - 19AUG19 (Base Year) and 20AUG19 -19AUG23 (4 Option Years). The TROJAN Program plans to award new contract NLT end of 3rd QTR during FY 2023.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	402.490	127.504	51.039	30.424	-	30.424	4.254	6.823	6.844	6.841	-	636.219
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	402.490	127.504	51.039	30.424	-	30.424	4.254	6.823	6.844	6.841	-	636.219
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>402.490</b>	<b>127.504</b>	<b>51.039</b>	<b>30.424</b>	<b>-</b>	<b>30.424</b>	<b>4.254</b>	<b>6.823</b>	<b>6.844</b>	<b>6.841</b>	<b>-</b>	<b>636.219</b>

*(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:**

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 enables integration, interoperability and force modernization with emerging capabilities in support of Multi-Domain Task Forces.

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 design also incorporates the ability for rapid integration of TI to ensure operational relevance and pace the changing threat.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	127.504	51.039	30.424	-	30.424	4.254	6.823	6.844
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>127.504</b>	<b>51.039</b>	<b>30.424</b>	<b>-</b>	<b>30.424</b>	<b>4.254</b>	<b>6.823</b>	<b>6.844</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / 143.778	- / 11.479	- / 3.739	- / 4.224	- / -	- / 4.224
P-5	BZ9753 / PROPHET ENHANCED MODIFICATIONS	P-5a, P-21			23 / 258.712	- / 116.025	- / 47.300	120 / 26.200	- / -	120 / 26.200
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 402.490</b>	<b>- / 127.504</b>	<b>- / 51.039</b>	<b>- / 30.424</b>	<b>- / -</b>	<b>- / 30.424</b>

\*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 2023 BZ9751 Base procurement dollars in the amount of \$4.224 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 2023 BZ9753 Base procurement dollars in the amount of \$26.200 million for combat or direct combat support expenses for Operation Inherent Resolve requirement will fund the procurement/fielding of Enhanced Signal Processing (ESP) kits and Communication kits that will be installed on previously fielded Prophet Enhanced systems in various locations in accordance with G3/5/7 and FORSCOM priorities to provide capabilities against threats designated in the National Defense Strategy. All funding is for the Active component.

Army Acquisition Objective (AAO): 238



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)
		<b>Item Number / Title [DODIC]:</b> BZ9751 / SPECIAL PURPOSE SYSTEMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				143.778	11.479	3.739	4.224	-	4.224
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				143.778	11.479	3.739	4.224	-	4.224
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>143.778</b>	<b>11.479</b>	<b>3.739</b>	<b>4.224</b>	<b>-</b>	<b>4.224</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	4.224	-	-	-	-	-	4.224
Enhancement Components	-	-	-	-	-	7.431	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	143.778	-	-	11.479	-	-	3.739	-	-	4.224	-	-	-	-	-	4.224
<i>Subtotal: Flyaway Cost</i>	-	-	143.778	-	-	11.479	-	-	3.739	-	-	4.224	-	-	-	-	-	4.224
<b>Gross/Weapon System Cost</b>	-	-	143.778	-	-	11.479	-	-	3.739	-	-	4.224	-	-	-	-	-	4.224

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	11.479	3.739	4.224	-	4.224

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army				<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)		<b>Item Number / Title [DODIC]:</b> BZ9751 / SPECIAL PURPOSE SYSTEMS		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	11.479	3.739	4.224	-	4.224

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)
		<b>Item Number / Title [DODIC]:</b> BZ9753 / PROPHET ENHANCED MODIFICATIONS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>				
Resource Summary			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)			23	-	-	120	-	120
Gross/Weapon System Cost (\$ in Millions)			258.712	116.025	47.300	26.200	-	26.200
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			258.712	116.025	47.300	26.200	-	26.200
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>258.712</b>	<b>116.025</b>	<b>47.300</b>	<b>26.200</b>	<b>-</b>	<b>26.200</b>
<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)			11,248.348	-	-	218.333	-	218.333

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	2,512.574	47	118.091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integration	-	-	19.943	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Quality Management	-	-	11.843	-	-	2.662	-	-	0.500	-	-	0.795	-	-	-	-	-	0.795
GFE	-	-	2.791	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Software Engineering	-	-	13.395	-	-	2.633	-	-	-	-	-	-	-	-	-	-	-	-
Project Management Costs	-	-	12.154	-	-	1.839	-	-	4.393	-	-	0.570	-	-	-	-	-	0.570
Training/Fielding/ Depot Support	41,405.000	1	41.405	-	-	14.054	-	-	3.717	-	-	5.024	-	-	-	-	-	5.024
Matrix Support	-	-	3.971	-	-	0.500	-	-	1.732	-	-	-	-	-	-	-	-	-
Manpack	307.595	42	12.919	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Satellite On The Move (SOTM) Antenna	408.333	12	4.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enhanced Signal Processing Kit & Fielding <sup>(†)</sup>	1,100.000	9	9.900	-	-	34.183	1,258.000	14	17.612	-	-	15.981	-	-	-	-	-	15.981
Communications Kit & Fielding	-	-	-	-	-	14.335	-	-	9.890	-	-	3.830	-	-	-	-	-	3.830
Spiral 1 Manpacks	-	-	7.400	-	-	8.323	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80	<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)	<b>Item Number / Title [DODIC]:</b> BZ9753 / PROPHET ENHANCED MODIFICATIONS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
TEWS	-	-	-	-	-	37.496	-	-	9.456	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	258.712	-	-	116.025	-	-	47.300	-	-	26.200	-	-	-	-	-	26.200
<i>Subtotal: Flyaway Cost</i>	-	-	258.712	-	-	116.025	-	-	47.300	-	-	26.200	-	-	-	-	-	26.200
<b>Gross/Weapon System Cost</b>	<b>11,248.348</b>	<b>23</b>	<b>258.712</b>	-	-	<b>116.025</b>	-	-	<b>47.300</b>	<b>218.333</b>	<b>120</b>	<b>26.200</b>	-	-	-	<b>218.333</b>	<b>120</b>	<b>26.200</b>

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	120	-	120
	Total Obligation Authority	116.025	47.300	26.200	-	26.200
<b>Total: Secondary Distribution</b>	Quantity	-	-	120	-	120
	Total Obligation Authority	116.025	47.300	26.200	-	26.200

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80			<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Enhanced Signal Processing Kit & Fielding <sup>(†)</sup>	✓	2022	GD Mission Systems / Scottsdale, AZ	SS / FFP	APG, MD	Nov 2021	Jul 2022	14	1,258.000	N		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80										<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)										<b>Item Number / Title [DODIC]:</b> BZ9753 / PROPHET ENHANCED MODIFICATIONS									

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

Enhanced Signal Processing Kit & Fielding

Prior Years Deliveries: 9

✓	1	2022	ARMY	14	0	14		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
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O C C O	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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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 80		<b>P-1 Line Item Number / Title:</b> 9912BZ9750 / MOD OF IN-SVC EQUIP (INTEL SPT)
		<b>Item Number / Title [DODIC]:</b> BZ9753 / PROPHET ENHANCED MODIFICATIONS

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	GD Mission Systems - Scottsdale, AZ	2	3	4	8	3	9	12	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	<b>P-1 Line Item Number / Title:</b> 9988BK5300 / BIOMETRIC TACTICAL COLLECTION DEVICES
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	9	18	-	18	150	93	94	93	-	457
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	17.390	5.009	11.097	2.269	-	2.269	0.952	0.599	0.636	0.636	-	38.588
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	17.390	5.009	11.097	2.269	-	2.269	0.952	0.599	0.636	0.636	-	38.588
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>17.390</b>	<b>5.009</b>	<b>11.097</b>	<b>2.269</b>	<b>-</b>	<b>2.269</b>	<b>0.952</b>	<b>0.599</b>	<b>0.636</b>	<b>0.636</b>	<b>-</b>	<b>38.588</b>

*(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> )	-	-	1,233.000	126.056	-	126.056	6.347	6.441	6.766	6.839	-	84.438

**Description:**

Next Generation Biometric Collection Capability (NXGBCC) was the planned successor to the Biometric Automated Toolset-Army (BAT-A) Program of Record and the Near Real Time Identity Operations (NRTIO) Quick Reaction Capability. 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 environment. NXGBCC processes Enemy Prisoners of War, Displaced Persons, and Refugees. BAT-A and the NRTIO systems are biometric identity tools that collect, 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 and NRTIO systems consists of obsolete mobile and static devices; however, NRTIO requires more immediate action due to the system being utilized by Soldiers supporting Operation Inherent Resolve. Unlike the BAT-A, the NRTIO system returns biometric match responses to the Soldier in less than 1-minute utilizing unclassified architecture to facilitate the sharing of identity information between US and coalition partners. During NXGBCC development, test issues and COVID-forced schedule delays impacted the development cost of the initial NXGBCC approach to an extent that a new strategy was required. In order to address the near-term hardware obsolescence and sustainability of the current biometric collection devices used by NRTIO and BAT-A and the subsequent impact to on-going missions, the acquisition and fielding of non-developmental collection devices is the most prudent and expedient path forward. This strategy provides additional user feedback from within an operational environment to inform future decisions on Army biometric collection capability. Army biometric collection capability via the technically refreshed NRTIO system will provide the foundation for future technology integration, deliver biometric software for any platform, use Cloud Services, near real-time enterprise data synchronization, and architecture with the latest commercial solution.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	
Army	Quantity	-	9	18	-	18	150	93	94	93
	Total Obligation Authority	5.009	11.097	2.269	-	2.269	0.952	0.599	0.636	0.636
<b>Total:</b> Secondary Distribution	Quantity	-	9	18	-	18	150	93	94	93
	Total Obligation Authority	5.009	11.097	2.269	-	2.269	0.952	0.599	0.636	0.636

**Justification:**



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)		<b>P-1 Line Item Number / Title:</b> 9988BK5300 / BIOMETRIC TACTICAL COLLECTION DEVICES
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
FY 2023 base procurement dollars in the amount of \$1.282 million completes fielding and training of NRTIO mobile and static devices as part of Combat or direct combat support expenses for Operation Inherent Resolve.		
FY 2023 base procurement dollars in the amount of \$0.987 million supports the procurement of 18 NRTIO mobile devices for Joint Multinational Readiness Center in Hohenfels, Germany.		
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-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 8387B05201 / Lightweight Counter Mortar Radar
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604823A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	854.940	5.332	-	-	-	-	-	-	-	-	-	860.272
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	854.940	5.332	-	-	-	-	-	-	-	-	-	860.272
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>854.940</b>	<b>5.332</b>	-	-	-	-	-	-	-	-	-	<b>860.272</b>

*(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 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.332	-	-	-	-	-	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>5.332</b>	-	-	-	-	-	-	-	-

**Justification:**

B05201 has no funding request in FY 2023.

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.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)		<b>P-1 Line Item Number / Title:</b> 8387B05201 / Lightweight Counter Mortar Radar
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604823A
<b>Line Item MDAP/MAIS Code:</b> N/A		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 8488K00002 / EW Planning & Management Tools (EWPMT)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	1	-	-	-	-	-	-	-	-	-	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	27.736	7.849	0.783	-	-	-	9.287	9.387	3.237	3.235	-	61.514
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	27.736	7.849	0.783	-	-	-	9.287	9.387	3.237	3.235	-	61.514
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>27.736</b>	<b>7.849</b>	<b>0.783</b>	-	-	-	<b>9.287</b>	<b>9.387</b>	<b>3.237</b>	<b>3.235</b>	-	<b>61.514</b>

*(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> )	27,736.000	-	-	-	-	-	-	-	-	-	-	61,514.000

**Description:**

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.849	0.783	-	-	-	9.287	9.387	3.237	3.235
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>7.849</b>	<b>0.783</b>	-	-	-	<b>9.287</b>	<b>9.387</b>	<b>3.237</b>	<b>3.235</b>

**Justification:**

K00002 has no funding request in FY 2023.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 8489W60001 / AIR VIGILANCE (AV)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0603766A, 0605766A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	38.771	8.160	13.486	5.688	-	5.688	5.835	9.185	9.211	9.207	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	38.771	8.160	13.486	5.688	-	5.688	5.835	9.185	9.211	9.207	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>38.771</b>	<b>8.160</b>	<b>13.486</b>	<b>5.688</b>	<b>-</b>	<b>5.688</b>	<b>5.835</b>	<b>9.185</b>	<b>9.211</b>	<b>9.207</b>	<b>Continuing</b>	<b>Continuing</b>

*(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.

Air Vigilance (AV) is a software intensive Automated Information System (AIS) program with specialized hardware. The AV systems collect critical intelligence data on emerging threat aerial systems. The collected intelligence data provides early warning of enemy operations in restricted airspace to ensure force protection. An AV system is comprised of a server configured and fielded with a single or multiple sensors. The original AV Basis of Issue Plan (BOIP); per requirements in Capability Drops (CDs) 1, 2, and 3; was based upon the Full Deployment (FD) of 10 servers and 39 sensors in various combinations/ configurations to the Intelligence and Security Command (INSCOM) Military Intelligence Brigades. In December 2021, the Army updated the AV POR BOIP to include the twelve (12) sensors procured to support JUONS 0576, bringing the AV POR sensor total to 51. The AV CD4 requirements were validated in late FY 2021. CD4 continues the AV program by adding enhanced capabilities that will pace the threat.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.160	13.486	5.688	-	5.688	5.835	9.185	9.211
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>8.160</b>	<b>13.486</b>	<b>5.688</b>	<b>-</b>	<b>5.688</b>	<b>5.835</b>	<b>9.185</b>	<b>9.211</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 8489W60001 / AIR VIGILANCE (AV)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0603766A, 0605766A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 38.771	- / 8.160	- / 13.486	- / 5.688	- / -	- / 5.688
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 38.771</b>	<b>- / 8.160</b>	<b>- / 13.486</b>	<b>- / 5.688</b>	<b>- / -</b>	<b>- / 5.688</b>

\*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 2023 Base procurement dollars in the amount of \$5.688 million provide for fielding and New Equipment Training of Capability Drop (CD) 4 and 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. It also provides procurement updated hardware for P31 efforts.

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 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 83	<b>P-1 Line Item Number / Title:</b> 8489W60001 / AIR VIGILANCE (AV)	<b>Item Number / Title [DODIC]:</b> W60001 / AIR VIGILANCE (AV)
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	38.771	8.160	13.486	5.688	-	5.688
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	38.771	8.160	13.486	5.688	-	5.688
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>38.771</b>	<b>8.160</b>	<b>13.486</b>	<b>5.688</b>	<b>-</b>	<b>5.688</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Fielding and New Equipment Training	2,124.500	2	4.249	76.100	10	0.761	1,000.000	1	1.000	1,000.000	1	1.000	-	-	-	1,000.000	1	1.000
Systems Engineering	237.000	5	1.185	7,399.000	1	7.399	2,465.000	1	2.465	1,950.000	1	1.950	-	-	-	1,950.000	1	1.950
<i>Subtotal: Recurring Cost</i>	-	-	5.434	-	-	8.160	-	-	3.465	-	-	2.950	-	-	-	-	-	2.950
<b>Non Recurring Cost</b>																		
Sensor <sup>(†)</sup>	667.152	33	22.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Server <sup>(†)</sup>	228.800	5	1.144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Upgrades per CD enhancements/improvements	925.182	11	10.177	-	-	-	10,021.000	1	10.021	2,738.000	1	2.738	-	-	-	2,738.000	1	2.738
<i>Subtotal: Non Recurring Cost</i>	-	-	33.337	-	-	-	-	-	10.021	-	-	2.738	-	-	-	-	-	2.738
<b>Subtotal: Hardware Cost</b>	-	-	<b>38.771</b>	-	-	<b>8.160</b>	-	-	<b>13.486</b>	-	-	<b>5.688</b>	-	-	-	-	-	<b>5.688</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>38.771</b>	-	-	<b>8.160</b>	-	-	<b>13.486</b>	-	-	<b>5.688</b>	-	-	-	-	-	<b>5.688</b>

**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. In December 2021, the Army updated the AV POR BOIP to include the twelve (12) sensors procured to support JUONS 0576, bringing the AV POR sensor total to 51.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 83	<b>P-1 Line Item Number / Title:</b> 8489W60001 / AIR VIGILANCE (AV)	<b>Item Number / Title [DODIC]:</b> W60001 / AIR VIGILANCE (AV)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Note: The Army validated the Capability Drop (CD) 4 requirement in September 2021. TENCAP anticipates receiving the Milestone Decision Authority's authority to proceed on/about 6 Apr 2022. the Acquisition strategy, contract strategy, total quantities, delivery schedule and fielding plan details will be approved at the Authority to Proceed decision.

		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	8.160	13.486	5.688	-	5.688
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	<b>8.160</b>	<b>13.486</b>	<b>5.688</b>	-	<b>5.688</b>

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



**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 83	<b>P-1 Line Item Number / Title:</b> 8489W60001 / AIR VIGILANCE (AV)	<b>Item Number / Title [DODIC]:</b> 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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 8491B05000 / Multi-Function Electronic Warfare (MFEW) Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	8.669	-	3.060	-	3.060	-	-	-	-	-	11.729
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	8.669	-	3.060	-	3.060	-	-	-	-	-	11.729
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>8.669</b>	-	<b>3.060</b>	-	<b>3.060</b>	-	-	-	-	-	<b>11.729</b>

*(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:**

MFEW-AL is the Army's only program providing tactical Commanders with deep look, organic, airborne, offensive electronic warfare (EW), empowering Commanders to shape the Electromagnetic Spectrum (EMS) to their advantage. The MFEW Air Large system 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	8.669	-	3.060	-	3.060	-	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>8.669</b>	-	<b>3.060</b>	-	<b>3.060</b>	-	-	-	-

**Justification:**

FY 2023 base procurement dollars in the amount of \$3.060 million support the procurement of engineering and logistics services for quantity 2 MFEW AL fielded systems.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	241.444	42.043	14.414	-	-	-	-	-	-	-	-	297.901
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	241.444	42.043	14.414	-	-	-	-	-	-	-	-	297.901
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>241.444</b>	<b>42.043</b>	<b>14.414</b>	-	-	-	-	-	-	-	-	<b>297.901</b>

*(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 INtelligence (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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 9926BL5287 / FAMILY OF PERSISTENT SURVEILLANCE CAP.
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	42.043	14.414	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>42.043</b>	<b>14.414</b>	-	-	-	-	-	-	-

**Justification:**

BL5287 has no funding in FY 2023.

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-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 9996BL5283 / COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,917.777	40.913	19.111	19.519	-	19.519	18.613	19.574	15.843	15.996	-	2,067.346
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,917.777	40.913	19.111	19.519	-	19.519	18.613	19.574	15.843	15.996	-	2,067.346
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,917.777</b>	<b>40.913</b>	<b>19.111</b>	<b>19.519</b>	<b>-</b>	<b>19.519</b>	<b>18.613</b>	<b>19.574</b>	<b>15.843</b>	<b>15.996</b>	<b>-</b>	<b>2,067.346</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	40.913	19.111	19.519	-	19.519	18.613	19.574	15.843	15.996
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>40.913</b>	<b>19.111</b>	<b>19.519</b>	<b>-</b>	<b>19.519</b>	<b>18.613</b>	<b>19.574</b>	<b>15.843</b>	<b>15.996</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 9996BL5283 / COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / 1,917.777	- / 40.913	- / 19.111	- / 19.519	- / -	- / 19.519
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 1,917.777</b>	<b>- / 40.913</b>	<b>- / 19.111</b>	<b>- / 19.519</b>	<b>- / -</b>	<b>- / 19.519</b>

\*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 2023 Base procurement dollars of \$13.056 million will address European Command (EUCOM) collection gaps in support of European Deterrence Initiative (EDI).  
  
 FY 2023 Base procurement dollars of \$6.463 million will address requirements for Pursuit and Exploitation of SIGINT and CI HIMINT Communication Enablers; of which \$3.366 million will support requirements for Operation Enduring Sentinel (OES) and \$3.097 million for other BASE requirements.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 83	<b>P-1 Line Item Number / Title:</b> 9996BL5283 / COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	<b>Item Number / Title [DODIC]:</b> BL5283 / COUNTERINTELLIGENCE/ SECURITY COUNTERMEASURES

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,917.777	40.913	19.111	19.519	-	19.519
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,917.777	40.913	19.111	19.519	-	19.519
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>1,917.777</b>	<b>40.913</b>	<b>19.111</b>	<b>19.519</b>	<b>-</b>	<b>19.519</b>

*(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.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
Counterintelligence/ Security Countermeasures	-	-	1,917.777	-	-	40.913	-	-	19.111	-	-	19.519	-	-	-	-	-	19.519
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,917.777</i>	-	-	<i>40.913</i>	-	-	<i>19.111</i>	-	-	<i>19.519</i>	-	-	-	-	-	<i>19.519</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,917.777</i>	-	-	<i>40.913</i>	-	-	<i>19.111</i>	-	-	<i>19.519</i>	-	-	-	-	-	<i>19.519</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>1,917.777</b>	-	-	<b>40.913</b>	-	-	<b>19.111</b>	-	-	<b>19.519</b>	-	-	-	-	-	<b>19.519</b>

<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	40.913	19.111	19.519	-	19.519
<b>Total:</b>					
<b>Secondary Distribution</b>	<b>40.913</b>	<b>19.111</b>	<b>19.519</b>	<b>-</b>	<b>19.519</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	<b>P-1 Line Item Number / Title:</b> 9997BL5285 / CI MODERNIZATION
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	10.103	0.300	0.421	0.437	-	0.437	0.436	0.438	0.441	0.446	-	13.022
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	10.103	0.300	0.421	0.437	-	0.437	0.436	0.438	0.441	0.446	-	13.022
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>10.103</b>	<b>0.300</b>	<b>0.421</b>	<b>0.437</b>	<b>-</b>	<b>0.437</b>	<b>0.436</b>	<b>0.438</b>	<b>0.441</b>	<b>0.446</b>	<b>-</b>	<b>13.022</b>

*(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.

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.300	0.421	0.437	-	0.437	0.436	0.438	0.441	0.446
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>0.300</b>	<b>0.421</b>	<b>0.437</b>	<b>-</b>	<b>0.437</b>	<b>0.436</b>	<b>0.438</b>	<b>0.441</b>	<b>0.446</b>

**Justification:**

FY 2023 Base Funding is in the amount of \$0.437 million provides for Counterintelligence (CI) Modernization efforts.



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0214400A, 0604820A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	774.488	92.380	47.642	166.736	-	166.736	165.199	234.255	234.248	235.052	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	774.488	92.380	47.642	166.736	-	166.736	165.199	234.255	234.248	235.052	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>774.488</b>	<b>92.380</b>	<b>47.642</b>	<b>166.736</b>	<b>-</b>	<b>166.736</b>	<b>165.199</b>	<b>234.255</b>	<b>234.248</b>	<b>235.052</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 Air and Missile Defense (AMD) Army Modernization Priority 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 Sentinel A3 is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar (C-RAM) missions. The Sentinel A3 is an advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. Sentinel A3 is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. Sentinel A3 provides 360-degree azimuth coverage for acquisition tracking. Sentinel A3 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 A3 acquires targets sufficiently forward of the battle area allowing weapons reaction time and allowing engagement at optimum ranges. Sentinel A3'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 replacing the current phase and frequency scanned array used by Sentinel A3 today. Sentinel A4 hardware and software upgrades extend the range for ground-based surveillance and situational awareness; provides faster and more accurate Non-Cooperative Target Recognition (NCTR) for clearing fires and preventing fratricide; improves track accuracy, and management of larger track loads; and improves operation in severe/urban clutter. Sentinel A4 provides simultaneous multi-mission capability and hemispherical surveillance to detect and track small targets, such as Unmanned Aircraft Systems (UAS) and Cruise Missiles, in clutter as well as detect and track slow targets, such as UAS and Rotary Wing aircraft, at low altitudes in clutter. Sentinel A4 detects, tracks, and classifies Rocket, Artillery, and Mortar (RAM) threats and supports M-SHORAD, AIAMD, IFPC and Combat Commands operational needs with Fire Control quality tracks. Sentinel A4 incorporates the upgraded AN//TPX-61 IFF with M-Code capability by replacing the GB-Gram card with M-Code GB-Gram cards.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	66.939	47.642	166.736	-	166.736	165.199	93.702	46.850	47.010
ANG									
Quantity	-	-	-	-	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0214400A, 0604820A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	25.441	-	-	-	-	-	140.553	187.398	188.042
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>92.380</b>	<b>47.642</b>	<b>166.736</b>	<b>-</b>	<b>166.736</b>	<b>165.199</b>	<b>234.255</b>	<b>234.248</b>	<b>235.052</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0214400A, 0604820A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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)				- / 774.488	- / 92.380	- / 47.642	- / 166.736	- / -	- / 166.736
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 774.488</b>	<b>- / 92.380</b>	<b>- / 47.642</b>	<b>- / 166.736</b>	<b>- / -</b>	<b>- / 166.736</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)				- / 165.199	- / 234.255	- / 234.248	- / 235.052	Continuing	Continuing
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 165.199</b>	<b>- / 234.255</b>	<b>- / 234.248</b>	<b>- / 235.052</b>	<b>Continuing</b>	<b>Continuing</b>

\*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 2023 procurement dollars of \$166.736 million procures ten (10) Sentinel A4 Low Rate Initial Production (LRIP) radars. FY 2023 procurement dollars also support Sentinel A3 fielding and training efforts for the Signal Data Processor (SDP) kit, Analog to Digital Converters (ADC), and adjunct sensors.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods	<b>Modification Number / Title:</b> WK5057 / Sentinel Mods

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	774.488	92.380	47.642	166.736	-	166.736	165.199	234.255	234.248	235.052	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	774.488	92.380	47.642	166.736	-	166.736	165.199	234.255	234.248	235.052	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>774.488</b>	<b>92.380</b>	<b>47.642</b>	<b>166.736</b>	-	<b>166.736</b>	<b>165.199</b>	<b>234.255</b>	<b>234.248</b>	<b>235.052</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

FY 2023 funds address the following:

Production capability is proven by Sentinel A4 Low Rate Initial Production (LRIP) Assets. The Active Electronically Scanned Array (AESA) Sentinel A4 is the next generation of radar technology replacing the current phase and frequency scanned array used by Sentinel A3 today. The AESA Antenna provides 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 Antenna provides improved operation in severe/urban clutter. Sentinel A4 provides simultaneous multi-mission capability and hemispherical surveillance to detect and track small targets, such as Unmanned Aircraft Systems (UAS) and Cruise Missiles, in clutter as well as detect and track slow targets, such as UAS and Rotary Wing aircraft, at low altitudes in clutter. Sentinel A4 detects, tracks, and classifies RAM threats and will support Integrated Air and Missile Defense Battle Command System (IBCS) requirements and contributes sensor support for mitigating current and future Indirect Fire Protection Capability Increment 2 mission requirements, Mobile Short Range Air Defense (M-SHORAD) battalions, and Combat Commands operational needs. The Mode S capability will be integrated as a part of the Sentinel A4 modification.

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 modified the Sentinel prime mover High Mobility Multipurpose Wheeled Vehicle (HMMWV) to a common Army platform Family of Medium Tactical Vehicles (FMTV) to meet Brigade Combat Team (BCT) force protection, as well as met 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 HMMWV Sentinel platform does not meet force protection requirements defined by the BCT maneuver mission and IBSC operational requirements.

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 redesigns the SDP backplane providing higher data throughput to remove current limitations and an upgraded set of SDP cards removing obsolescence issues. The SDP upgrade integrates a new digital receiver/exciter into each radar. Additionally, the new SDP kit allows for continued Electronic Protect capability advancements.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods	<b>Modification Number / Title:</b> WK5057 / Sentinel Mods

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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The Adjunct Sensor effort upgrades existing Sentinel capabilities by providing 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 provides additional capability to the Sentinel A3 for discrimination of stressing targets in challenging environments. The Adjunct Sensor transitions to the Sentinel A4 contractor via government furnished equipment.

The North Finding Module (NFM) Upgrade enhances 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 obsolete enhanced Radar Control Terminal (eRCT) and routers. The hardware transitions as Government Furnished Equipment to the Sentinel A4 contractor.

Production for the 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 Sentinel A3 is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar (C-RAM) missions. The Sentinel A3 is an advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. Sentinel A3 is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. Sentinel A3 provides 360-degree azimuth coverage for acquisition tracking. Sentinel A3 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 A3 acquires targets sufficiently forward of the battle area allowing weapons reaction time and allowing engagement at optimum ranges. Sentinel A3'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 Maneuver Short Range Air Defense (M-SHORAD) battalions.

Ongoing Modifications include:

The Active Electronically Scanned Array (AESA) Sentinel A4 is the next generation of radar technology replacing the current phase and frequency scanned array used by Sentinel A3 today. The AESA Antenna provides 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 Antenna provides improved operation in severe/urban clutter. Sentinel A4 provides simultaneous multi-mission capability and hemispherical surveillance to detect and track small targets, such as Unmanned Aircraft Systems (UAS) and Cruise Missiles, in clutter as well as detect and track slow targets, such as UAS and Rotary Wing aircraft, at low altitudes in clutter. Sentinel A4 detects, tracks, and classifies RAM threats and will support Integrated Air and Missile Defense Battle Command System (IBCS) requirements and contributes sensor support for mitigating current and future Indirect Fire Protection Capability Increment 2 mission requirements as well as Mobile Short Range Air Defense (M-SHORAD) battalions. The Mode S capability will be integrated as a part of the Sentinel A4 modification.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	66.939	47.642	166.736	-	166.736	165.199	93.702	46.850	47.010
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	25.441	-	-	-	-	-	140.553	187.398	188.042
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>92.380</b>	<b>47.642</b>	<b>166.736</b>	-	<b>166.736</b>	<b>165.199</b>	<b>234.255</b>	<b>234.248</b>	<b>235.052</b>

**Development Status/Major Development Milestones**

Date	Title	Description
Apr 2023	Sentinel A4 Low Rate Initial Production Option	Priced contract options for exercise of LRIP.

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<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>										<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86					<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods					<b>Modification Number / Title:</b> WK5057 / Sentinel Mods			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Sentinel [AN/MPQ-64]				<b>Modification Type:</b> Operational				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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)	
<b>Procurement</b>													
<b>Modification Item 1 of 7: Prior Modifications</b>													
A Kits													
Recurring													
Equipment	632 / 400.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	632 / 400.367	
Engineering Services	- / 6.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.014	
Govt Program Management/Admin Support	- / 11.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.918	
Other Flyaway Support	- / 30.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 30.529	
Initial Spares	- / 10.979	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.979	
<b>Subtotal: Recurring</b>	<b>632 / 459.807</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>632 / 459.807</b>	
<b>Subtotal: Prior Modifications</b>	<b>632 / 459.807</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>632 / 459.807</b>	
<b>Modification Item 2 of 7: Electronic Attack/Electronic Protect (ADC)</b>													
A Kits													
Recurring													
Equipment	112 / 2.859	69 / 1.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	181 / 4.435	
Engineering Services	- / 0.877	- / 0.459	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.336	
Govt Program Management	- / 0.308	- / 0.156	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.464	
Other Flyaway Costs	- / 2.653	- / 0.852	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.505	
Initial Spares	- / 0.138	- / 0.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.211	
<b>Subtotal: Recurring</b>	<b>112 / 6.835</b>	<b>69 / 3.116</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>181 / 9.951</b>	
<b>Subtotal: Electronic Attack/Electronic Protect (ADC)</b>	<b>112 / 6.835</b>	<b>69 / 3.116</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>181 / 9.951</b>	
<b>Modification Item 3 of 7: Signal Data Processor</b>													
A Kits													
Recurring													
Equipment	112 / 74.439	69 / 36.628	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	181 / 111.067	
Engineering Services	- / 0.809	- / 0.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.238	
Govt Program Management	- / 3.997	- / 1.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.168	
Other Flyaway Support	- / 6.463	- / 1.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.981	
Initial Spares	- / 3.462	- / 1.851	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.313	
<b>Subtotal: Recurring</b>	<b>112 / 89.170</b>	<b>69 / 41.597</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>181 / 130.767</b>	
<b>Subtotal: Signal Data Processor</b>	<b>112 / 89.170</b>	<b>69 / 41.597</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>181 / 130.767</b>	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>											<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86				<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods					<b>Modification Number / Title:</b> WK5057 / Sentinel Mods				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Sentinel [AN/MPQ-64]				<b>Modification Type:</b> Operational				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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)	
<b>Modification Item 4 of 7: Enhanced Sentinel AN/MPQ-64A3 Production</b>													
A Kits													
Recurring													
Equipment	32 / 159.991	6 / 32.459	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 192.450	
Engineering Services	- / 1.477	- / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.524	
Govt Program Management	- / 9.741	- / 0.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.058	
Initial Spares	- / 10.443	- / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.643	
Other Flyaway Support	- / 126.376	- / 5.065	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 31.441	
<b>Subtotal: Recurring</b>	<b>32 / 208.028</b>	<b>6 / 40.088</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>38 / 248.116</b>	
<b>Subtotal: Enhanced Sentinel AN/MPQ-64A3 Production</b>	<b>32 / 208.028</b>	<b>6 / 40.088</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>38 / 248.116</b>	
<b>Modification Item 5 of 7: Hardware Obsolescence</b>													
A Kits													
Recurring													
Equipment	- / -	198 / 4.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	198 / 4.333	
Engineering Services	- / -	- / 0.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.055	
Govt Program Management/Admin Support	- / -	- / 0.176	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.176	
Other Flyaway Support	- / -	- / 0.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.211	
Initial Spares	- / -	- / 0.372	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.372	
<b>Subtotal: Recurring</b>	<b>- / -</b>	<b>198 / 5.147</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>198 / 5.147</b>	
<b>Subtotal: Hardware Obsolescence</b>	<b>- / -</b>	<b>198 / 5.147</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>198 / 5.147</b>	
<b>Modification Item 6 of 7: Adjunct Sensor</b>													
A Kits													
Recurring													
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	
<b>Subtotal: Recurring</b>	<b>- / -</b>	<b>- / -</b>	<b>49 / 42.516</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>49 / 42.516</b>	
<b>Subtotal: Adjunct Sensor</b>	<b>- / -</b>	<b>- / -</b>	<b>49 / 42.516</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>49 / 42.516</b>	
<b>Modification Item 7 of 7: Active Electronically Scanned Array (AES) Sentinel A4</b>													

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>										<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86				<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods						<b>Modification Number / Title:</b> WK5057 / Sentinel Mods			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> Sentinel [AN/MPQ-64]				<b>Modification Type:</b> Operational				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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	- / -	- / -	- / -	10 / 138.176	- / -	10 / 138.176	12 / 139.852	20 / 197.795	20 / 197.789	20 / 198.468	Continuing	Continuing	
Engineering Services	- / -	- / -	- / -	- 12.377	- / -	- 12.377	- 12.390	- 13.437	- 13.436	- 13.448	Continuing	Continuing	
Government Program Management	- / -	- / -	- / -	- 17.607	- / -	- 17.607	- 17.566	- 110.885	- 110.885	- 110.922	Continuing	Continuing	
Other Flyaway Support	- / -	- / -	- / -	- 19.516	- / -	- 19.516	- 19.486	- 113.645	- 113.645	- 113.692	Continuing	Continuing	
Initial Spares	- / -	- / -	- / -	- 15.872	- / -	- 15.872	- 15.905	- 18.493	- 18.493	- 18.522	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	10 / 163.548	- / -	10 / 163.548	12 / 165.199	20 / 234.255	20 / 234.248	20 / 235.052	Continuing	Continuing	
<i>Subtotal: Active Electronically Scanned Array (AESAs) Sentinel A4</i>	- / -	- / -	- / -	10 / 163.548	- / -	10 / 163.548	12 / 165.199	20 / 234.255	20 / 234.248	20 / 235.052	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	888 / 763.840	342 / 89.948	49 / 42.516	10 / 163.548	- / -	10 / 163.548	12 / 165.199	20 / 234.255	20 / 234.248	20 / 235.052	Continuing	Continuing	
<b>Installation</b>													
<i>Modification Item 1 of 7: Prior Modifications</i>	632 / 8.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	632 / 8.023	
<i>Modification Item 2 of 7: Electronic Attack/Electronic Protect (ADC)</i>	20 / 0.233	31 / 0.233	61 / 0.459	69 / 0.286	- / -	69 / 0.286	- / -	- / -	- / -	- / -	- / -	181 / 1.211	
<i>Modification Item 3 of 7: Signal Data Processor</i>	20 / 2.392	31 / 2.199	61 / 4.287	69 / 2.802	- / -	69 / 2.802	- / -	- / -	- / -	- / -	- / -	181 / 11.680	
<i>Modification Item 5 of 7: Hardware Obsolescence</i>	- / -	- / -	148 / 0.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 0.380	
<i>Modification Item 6 of 7: Adjunct Sensor</i>	- / -	- / -	- / -	49 / 0.100	- / -	49 / 0.100	- / -	- / -	- / -	- / -	- / -	49 / 0.100	
<i>Subtotal: Installation</i>	672 / 10.648	62 / 2.432	270 / 5.126	187 / 3.188	- / -	187 / 3.188	- / -	- / -	- / -	- / -	- / -	1,191 / 21.394	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>774.488</b>	<b>92.380</b>	<b>47.642</b>	<b>166.736</b>	<b>-</b>	<b>166.736</b>	<b>165.199</b>	<b>234.255</b>	<b>234.248</b>	<b>235.052</b>	<b>Continuing</b>	<b>Continuing</b>	



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<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods	<b>Modification Number / Title:</b> WK5057 / Sentinel Mods

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** Various QTY implemented at Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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	632 / 8.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	632 / 8.023
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	632 / 8.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	632 / 8.023

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	632
Out	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	632

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**Exhibit P-3a, Individual Modification: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods	<b>Modification Number / Title:</b> WK5057 / Sentinel Mods
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

**Modification Item 2 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): 21

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Dec 2020						
Delivery Dates	Oct 2022						

**Installation Information**

**Method of Implementation:** Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 0.549
FY 2021	- / -	- / -	50 / 0.376	69 / 0.286	- / -	69 / 0.286	- / -	- / -	- / -	- / -	- / -	119 / 0.662
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	20 / 0.233	31 / 0.233	61 / 0.459	69 / 0.286	- / -	69 / 0.286	- / -	- / -	- / -	- / -	- / -	181 / 1.211

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	112	17	17	17	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	20	8	8	8	7	15	15	15	16	17	17	17	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods	<b>Modification Number / Title:</b> WK5057 / Sentinel Mods

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 3 of 7:** Signal Data Processor

**Manufacturer Information**

Manufacturer Name: Raytheon	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 21

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Dec 2020						
Delivery Dates	Oct 2022						

**Installation Information**

**Method of Implementation:** Contractor Facility

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 5.439
FY 2021	- / -	- / -	50 / 3.439	69 / 2.802	- / -	69 / 2.802	- / -	- / -	- / -	- / -	- / -	119 / 6.241
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 2.392	31 / 2.199	61 / 4.287	69 / 2.802	- / -	69 / 2.802	- / -	- / -	- / -	- / -	- / -	181 / 11.680

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	112	17	17	17	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	20	8	8	8	7	15	15	15	16	17	17	17	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Army						<b>Date:</b> April 2022	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods			<b>Modification Number / Title:</b> WK5057 / Sentinel Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 4 of 7:</b> Enhanced Sentinel AN/MPQ-64A3 Production							
<b>Manufacturer Information</b>							
Manufacturer Name: Raytheon				Manufacturer Location: Fullerton, CA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates	Dec 2020						
Delivery Dates	Jun 2022						
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Contractor Facility					<b>Installation Quantity:</b> 0		

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods	<b>Modification Number / Title:</b> WK5057 / Sentinel Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 5 of 7:** Hardware Obsolescence

**Manufacturer Information**

Manufacturer Name: Raytheon	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 3

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Feb 2022					
Delivery Dates		May 2022					

**Installation Information**

**Method of Implementation:** Field Install

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	148 / 0.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 0.380
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	- / -	- / -	148 / 0.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 0.380

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	99	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	99	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods	<b>Modification Number / Title:</b> WK5057 / Sentinel Mods

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Modification Item 6 of 7:** Adjunct Sensor

**Manufacturer Information**

Manufacturer Name: Copious Imaging, Inc	Manufacturer Location: Lexington, Ma
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Mar 2022					
Delivery Dates		Oct 2022					

**Installation Information**

**Method of Implementation:** Field Install

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	49 / 0.100	- / -	49 / 0.100	- / -	- / -	- / -	- / -	- / -	49 / 0.100
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	49 / 0.100	- / -	49 / 0.100	- / -	- / -	- / -	- / -	- / -	49 / 0.100

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-3a, Individual Modification:</b> PB 2023 Army						<b>Date:</b> April 2022	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0125WK5057 / Sentinel Mods			<b>Modification Number / Title:</b> WK5057 / Sentinel Mods	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 7 of 7:</b> Active Electronically Scanned Array (AESA) Sentinel A4							
<b>Manufacturer Information</b>							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Syracuse, NY			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
<b>Dates</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Contract Dates			Apr 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027
Delivery Dates			Oct 2024	Jun 2025	Jun 2026	Jun 2027	Jun 2028
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Contractor Facility					<b>Installation Quantity:</b> 0		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604710A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,757.416	867.823	667.377	424.253	-	424.253	113.277	22.409	22.307	22.326	-	6,897.188
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4,757.416	867.823	667.377	424.253	-	424.253	113.277	22.409	22.307	22.326	-	6,897.188
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>4,757.416</b>	<b>867.823</b>	<b>667.377</b>	<b>424.253</b>	<b>-</b>	<b>424.253</b>	<b>113.277</b>	<b>22.409</b>	<b>22.307</b>	<b>22.326</b>	<b>-</b>	<b>6,897.188</b>

*(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:**

A portion of this funding line is directly aligned to the Army Soldier Lethality, Modernization Priority 1.

Night Vision Devices (KA3500) is a summary budget line including the following programs:

(1) K36400 - This funding line is directly aligned to the Army Soldier Lethality Modernization Priority in support of situational awareness for the Close Combat Soldier. 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 funding line provides support to the Close Combat Soldier in the area of situational awareness. 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 (LTLS)).

(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.



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604710A
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**Line Item MDAP/MAIS Code:** N/A

(4) K36402 - This funding line is directly aligned to the Army Soldier Lethality Modernization Priority in support of situational awareness for the Close Combat Soldier. 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, 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 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, shared information for mounted soldiers, "See Thru" armor, 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.

(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	854.941	573.051	409.196	-	409.196	102.476	11.868	8.711	8.735
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.882	79.838	15.057	-	15.057	10.801	10.541	13.596	13.591
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	14.488	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>867.823</b>	<b>667.377</b>	<b>424.253</b>	-	<b>424.253</b>	<b>113.277</b>	<b>22.409</b>	<b>22.307</b>	<b>22.326</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 1,006.596	- / 14.347	- / 27.331	- / 24.229	- / -	- / 24.229
P-5	K36400 / Helmet Mounted Enhanced Vision Devices	P-5a			- / 3,750.820	- / 183.000	- / 234.906	- / -	- / -	- / -
P-5	K36402 / IVAS/Heads Up Display	P-5a, P-21			- / -	- / 670.476	- / 405.140	- / 400.024	- / -	- / 400.024
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 4,757.416</b>	<b>- / 867.823</b>	<b>- / 667.377</b>	<b>- / 424.253</b>	<b>- / -</b>	<b>- / 424.253</b>

\*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 2023 Base procurement dollars in the amount of \$24.229 million supports the procurement of 583 Laser Target Locator systems, of which \$2.838 million is for European Deterrence Initiative (EDI) and \$9.298 million is for Pacific Deterrence Initiative (PDI).

FY 2023 Base procurement dollars in the amount of \$400.024 million supports the procurement of 7,272 Head Up Display systems.

Enhanced Night Vision Goggle - Binocular (ENVG-B), SSN K36400, has no funding request in the FY2023 submission.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>													<b>Date:</b> April 2022								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86						<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices						<b>Item Number / Title [DODIC]:</b> B53800 / Laser Target Locator Systems									
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>												
<b>Resource Summary</b>				<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
Procurement Quantity ( <i>Units in Each</i> )				-			-			-			-			-			-		
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				1,006.596			14.347			27.331			24.229			-			24.229		
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Net Procurement (P-1) ( <i>\$ in Millions</i> )				1,006.596			14.347			27.331			24.229			-			24.229		
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				<b>1,006.596</b>			<b>14.347</b>			<b>27.331</b>			<b>24.229</b>			<b>-</b>			<b>24.229</b>		
<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.																					
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>					
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)			
Flyaway Cost																					
Recurring Cost																					
Systems Engineering / Program Management (Government) (PMA)	-	-	45.289	-	-	0.912	-	-	1.765	-	-	1.434	-	-	-	-	-	1.434			
Systems Engineering / Program Management (Government) (Matrix)	-	-	9.667	-	-	1.309	-	-	1.408	-	-	1.437	-	-	-	-	-	1.437			
New Equipment Training	-	-	9.378	-	-	0.789	-	-	1.365	-	-	1.487	-	-	-	-	-	1.487			
<i>Subtotal: Recurring Cost</i>	-	-	<b>64.334</b>	-	-	<b>3.010</b>	-	-	<b>4.538</b>	-	-	<b>4.358</b>	-	-	-	-	-	<b>4.358</b>			
<i>Subtotal: Flyaway Cost</i>	-	-	<b>64.334</b>	-	-	<b>3.010</b>	-	-	<b>4.538</b>	-	-	<b>4.358</b>	-	-	-	-	-	<b>4.358</b>			
Hardware Cost																					
Recurring Cost																					
Manufacturing (Laser Target Locator Module System) <sup>(†)</sup>	73.675	12,667	933.236	32.299	351	11.337	27.110	831	22.528	34.084	583	19.871	-	-	-	34.084	583	19.871			
Initial Spares (Tripods)	-	-	7.549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Initial Spares (Reparables)	0.320	4,600	1.470	-	-	-	-	-	0.265	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Recurring Cost</i>	-	-	<b>942.255</b>	-	-	<b>11.337</b>	-	-	<b>22.793</b>	-	-	<b>19.871</b>	-	-	-	-	-	<b>19.871</b>			
<i>Subtotal: Hardware Cost</i>	-	-	<b>942.255</b>	-	-	<b>11.337</b>	-	-	<b>22.793</b>	-	-	<b>19.871</b>	-	-	-	-	-	<b>19.871</b>			
<b>Gross/Weapon System Cost</b>	-	-	<b>1,006.596</b>	-	-	<b>14.347</b>	-	-	<b>27.331</b>	-	-	<b>24.229</b>	-	-	-	-	-	<b>24.229</b>			

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> B53800 / Laser Target Locator Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

**Remarks:**  
1) Starting in FY23 LTLM II systems will have the Military-Code (M-code) GPS and unit costs are expected to increase by approximately \$3K per system. Integrating the M-code GPS into the LTLM II will make the system compliant with the Congressional mandate.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.465	0.329	9.172	-	9.172
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	12.882	27.002	15.057	-	15.057
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>14.347</b>	<b>27.331</b>	<b>24.229</b>	-	<b>24.229</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> 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) <sup>(†)</sup>		2021	Optics 1, Inc / Bedford, NH	C / FFP	ACC APG	Mar 2021	Nov 2021	351	32.299	Y		
Manufacturing (Laser Target Locator Module System) <sup>(†)</sup>		2022	Optics 1, Inc / Bedford, NH	C / FFP	ACC APG	Mar 2022	Sep 2022	831	27.110	Y		
Manufacturing (Laser Target Locator Module System) <sup>(†)</sup>		2023	Optics 1, Inc / Bedford, NH	C / FFP	ACC APG	Mar 2023	Sep 2023	583	34.084	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

- 1) LTLM II contract is an Indefinite Delivery / Indefinite Quantity Firm-Fixed Price contract with range pricing.
- 2) Starting in FY23 LTLM II systems will have the Military-Code (M-code) GPS and unit costs are expected to increase by approximately \$3K per system. Integrating the M-code GPS into the LTLM II will make the system compliant with the Congressional mandate.

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> B53800 / Laser Target Locator Systems
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													BALANCE		
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 	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			
Manufacturing (Laser Target Locator Module System)																																	
Prior Years Deliveries: 12667																																	
1	2021	ARMY		351	0	351																								0			
1	2022	ARMY		831	0	831																								786			
1	2023	ARMY		583	0	583																								583			
							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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> B53800 / Laser Target Locator Systems
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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		S E P						
Manufacturing (Laser Target Locator Module System)																																					
Prior Years Deliveries: 12667																																					
	1	2021	ARMY	351	351	0																									0						
	1	2022	ARMY	831	45	786	45	60	60	75	75	75	75	75	80	80	86													0							
	1	2023	ARMY	583	0	583													A	-	-	-	-	-	45	45	45	45	45	50	50	50	50	50	54	54	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							

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices
		<b>Item Number / Title [DODIC]:</b> B53800 / Laser Target Locator Systems

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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).



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> K36400 / Helmet Mounted Enhanced Vision Devices

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,750.820	183.000	234.906	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,750.820	183.000	234.906	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>3,750.820</b>	<b>183.000</b>	<b>234.906</b>	-	-	-

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)	-	-	226.238	-	-	8.932	-	-	8.140	-	-	-	-	-	-	-	-	-
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX SUPPORT)	-	-	30.099	-	-	2.717	-	-	2.683	-	-	-	-	-	-	-	-	-
FIELDING	-	-	2,559.827	-	-	5.152	-	-	3.763	-	-	-	-	-	-	-	-	-
CONTRACTOR LOGISTICS SUPPORT	-	-	-	-	-	0.552	-	-	5.043	-	-	-	-	-	-	-	-	-
SUPPORT EQUIPMENT COMMON (TEST MEASUREMENT DIAGNOSTIC EQUIPMENT)	-	-	9.634	-	-	3.762	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> K36400 / Helmet Mounted Enhanced Vision Devices

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
---------------------------------------------------------	------------------------

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)	-	-	38.464	-	-	14.127	-	-	27.228	-	-	-	-	-	-	-	-	-
RECURRING ENGINEERING (ENGINEERING CHANGE PROPOSALS)	-	-	3.500	-	-	-	-	-	5.446	-	-	-	-	-	-	-	-	-
SUPPORT EQUIPMENT COMMON (TEST SETS)	-	-	5.500	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-
ENVG-III QUAL/RETROFITS	-	-	6.334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INITIAL SPARES (REPARABLES) (HEADED MOUNTED ASSEMBLY)	-	-	35.989	-	-	8.907	-	-	0.076	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<b>2,915.585</b>	-	-	<b>46.149</b>	-	-	<b>52.379</b>	-	-	-	-	-	-	-	-	-
<b>Non Recurring Cost</b>																		
NON-RECURRING PRODUCTION (ENGINEERING SERVICES)	-	-	40.989	-	-	2.735	-	-	-	-	-	-	-	-	-	-	-	-
OTHER NON-RECURRING PRODUCTION (ORGANIC LIGHT-EMITTING DIODE)	-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<b>45.989</b>	-	-	<b>2.735</b>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<b>2,961.574</b>	-	-	<b>48.884</b>	-	-	<b>52.379</b>	-	-	-	-	-	-	-	-	-
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
MANUFACTURING <sup>(†)</sup>	14.096	55,992	789.258	21.493	6,240	134.117	21.660	8,427	182.527	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<b>789.258</b>	-	-	<b>134.117</b>	-	-	<b>182.527</b>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	<b>789.258</b>	-	-	<b>134.117</b>	-	-	<b>182.527</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>3,750.820</b>	-	-	<b>183.000</b>	-	-	<b>234.906</b>	-	-	-	-	-	-	-	-	-

**Remarks:**

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> K36400 / Helmet Mounted Enhanced Vision Devices

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	183.000	167.582	-	-	-
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	52.836	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	14.488	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>183.000</b>	<b>234.906</b>	-	-	-

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices				<b>Item Number / Title [DODIC]:</b> 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		2021	TBD / ACC-APG	C / FFP	TBD	Jul 2021	Apr 2022	6,240	21.493	Y		
MANUFACTURING		2022	TBD / ACC-APG	C / FFP	TBD	Sep 2022	Mar 2023	8,427	21.660	Y		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>						<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices			<b>Item Number / Title [DODIC]:</b> K36402 / IVAS/Heads Up Display		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>		
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			-	670.476	405.140	400.024	-	400.024
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			-	670.476	405.140	400.024	-	400.024
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			-	<b>670.476</b>	<b>405.140</b>	<b>400.024</b>	-	<b>400.024</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	-	-	-	36.887	8,980	331.247	35.283	9,124	321.923	28.963	7,272	210.617	-	-	-	28.963	7,272	210.617
Conformal Wearable Battery	-	-	-	-	-	37.500	-	-	38.101	-	-	30.368	-	-	-	-	-	30.368
Advanced Battery Charger	-	-	-	-	-	2.286	-	-	1.310	-	-	0.833	-	-	-	-	-	0.833
Tactical Cloud Package	-	-	-	-	-	4.757	-	-	0.501	-	-	0.125	-	-	-	-	-	0.125
Radios	-	-	-	-	-	15.891	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	-	-	-	7.522	-	-	5.291	-	-	38.450	-	-	-	-	-	38.450
Program Management Support	-	-	-	-	-	95.899	-	-	7.047	-	-	58.590	-	-	-	-	-	58.590
Tactical Software	-	-	-	-	-	6.239	-	-	12.967	-	-	19.795	-	-	-	-	-	19.795
OTA Program Management	-	-	-	-	-	50.000	-	-	10.135	-	-	24.324	-	-	-	-	-	24.324
Recurring Engineering	-	-	-	-	-	17.586	-	-	6.275	-	-	16.015	-	-	-	-	-	16.015
Support Equipment	-	-	-	-	-	1.077	-	-	1.590	-	-	0.907	-	-	-	-	-	0.907
Systems Test and Evaluation	-	-	-	-	-	50.472	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	620.476	-	-	405.140	-	-	400.024	-	-	-	-	-	400.024
Non Recurring Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	-	-	50.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	50.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	<b>670.476</b>	-	-	<b>405.140</b>	-	-	<b>400.024</b>	-	-	-	-	-	<b>400.024</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>670.476</b>	-	-	<b>405.140</b>	-	-	<b>400.024</b>	-	-	-	-	-	<b>400.024</b>

**Remarks:**

FY2021 quantities updated to 8,980 to account for Congressional fenced procurement funds.  
 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).

-FY23 quantity is supposed to be 7,272 with a gross/weapon system cost of \$55.009.  
 -FY23 Fielding cost increase to \$38.450 million from \$5.291 million in FY22 due to first full year of IVAS rapid fielding. increase in Contractor Logistic Support (CLS) and spare parts required to support IVAS systems.  
 -FY23 Program Management Support cost increase to \$58.590 million from \$7.047 million in FY22 due to new SETA contract that is awarded in FY22.  
 -FY23 Tactical Software cost increase to \$19.795 million from \$12.967 million in FY22 due to increase in cybersecurity.  
 -FY23 Gross Heads-Up Display unit cost increase to \$55.009 from \$44.404 in FY2022 due to the award of the Production Other Transaction Agreement (OTA) in March 2021 and a reduced quantity buy in FY 2023.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	670.476	405.140	400.024	-	400.024
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	<b>670.476</b>	<b>405.140</b>	<b>400.024</b>	-	<b>400.024</b>

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

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2021	Microsoft Intial Award / Redmond, WA	C / FFP	Redmond, WA	Mar 2021	Jun 2022	5,000	38.695	Y	Sep 2021	Oct 2020
Heads-Up Display/Puck <sup>(†)</sup>		2021	Microsoft Post STP4 Award / Redmond, WA	C / FFP	Redmond, WA	Aug 2022	Jun 2023	3,980	35.283	Y		
Heads-Up Display/Puck <sup>(†)</sup>		2022	Microsoft Post STP4 Award / Redmond, WA	C / FFP	Redmond, WA	Aug 2022	Oct 2023	4,124	35.283	Y		
Heads-Up Display/Puck <sup>(†)</sup>		2022	Microsoft Post OT Award / Redmond, WA	C / FFP	Redmond, WA	Jul 2022	May 2023	5,000	35.283	Y		
Heads-Up Display/Puck <sup>(†)</sup>		2023	Microsoft PY3/FY23 Award / Redmond, WA	C / FFP	Redmond, WA	Mar 2023	Jul 2024	7,272	28.963	Y		

<sup>(†)</sup> 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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> K36402 / IVAS/Heads Up Display
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Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022												BALANCE						
O C C O	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	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S							
C	T	V	C	A	B	R	P	R	A	Y	N	L	G	E	P	T	V	C	N	B	R	P	A	Y	N	L	G	E	P								
Heads-Up Display/Puck																																					
1		2021	ARMY	5,000	0	5,000								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,050	1,750	1,200			0			
2		2021	ARMY	3,980	0	3,980																										A	-	-	3,980		
2		2022	ARMY	4,124	0	4,124																										A	-	-	4,124		
3		2022	ARMY	5,000	0	5,000																												A	-	-	5,000
4		2023	ARMY	7,272	0	7,272																														7,272	



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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> K36402 / IVAS/Heads Up Display
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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			
Heads-Up Display/Puck																																	
	1	2021	ARMY	5,000	5,000	0																									0		
	2	2021	ARMY	3,980	0	3,980	-	-	-	-	-	-	-	-	792	797	797	797	797												0		
	2	2022	ARMY	4,124	0	4,124	-	-	-	-	-	-	-	-	-	-	-	-	20	1,600	1,600	904									0		
	3	2022	ARMY	5,000	0	5,000	-	-	-	-	-	-	-	1,400	608	703	703	803	783												0		
	4	2023	ARMY	7,272	0	7,272								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	386	1,600	1,600	3,686
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	A	M	J	J	A	S		
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	G	E	
							T	V	C	N	B	R	P	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 2023 Army **Date:** April 2022

**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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
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 4	BAL D U E A S O F 1 O C T	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
Heads-Up Display/Puck																															
	1	2021	ARMY	5,000	5,000	0																							0		
	2	2021	ARMY	3,980	3,980	0																							0		
	2	2022	ARMY	4,124	4,124	0																							0		
	3	2022	ARMY	5,000	5,000	0																							0		
	4	2023	ARMY	7,272	3,586	3,686	1,600	1,600	486																				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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0140KA3500 / Night Vision Devices	<b>Item Number / Title [DODIC]:</b> K36402 / IVAS/Heads Up Display
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	5,000	5,000	60,000	3	12	10	22	3	2	6	8
2	Microsoft Post STP4 Award - Redmond, WA	14,500	14,500	60,000	3	12	10	22	3	2	6	8
3	Microsoft Post OT Award - Redmond, WA	14,500	14,500	60,000	3	12	10	22	3	2	6	8
4	Microsoft PY3/FY23 Award - Redmond, WA	12,500	14,701	60,000	3	12	10	22	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	1,926	449	1,950	750	-	750	2,320	725	719	701	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	183.017	7.715	21.103	11.357	-	11.357	26.057	11.332	11.528	11.523	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	183.017	7.715	21.103	11.357	-	11.357	26.057	11.332	11.528	11.523	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>183.017</b>	<b>7.715</b>	<b>21.103</b>	<b>11.357</b>	<b>-</b>	<b>11.357</b>	<b>26.057</b>	<b>11.332</b>	<b>11.528</b>	<b>11.523</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	95.024	17.183	10.822	15.143	-	15.143	11.231	15.630	16.033	16.438	Continuing	Continuing

**Description:**

This funding line provides support to the Close Combat Soldier in the area of situational awareness. 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 15,570.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	
Army	Quantity	449	1,170	405	-	405	1,546	725	719	701
	Total Obligation Authority	7.715	12.662	6.133	-	6.133	17.359	11.332	11.528	11.523
ANG	Quantity	-	780	300	-	300	774	-	-	-
	Total Obligation Authority	-	8.441	4.543	-	4.543	8.698	-	-	-
AR	Quantity	-	-	45	-	45	-	-	-	-
	Total Obligation Authority	-	-	0.681	-	0.681	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>449</b>	<b>1,950</b>	<b>750</b>	<b>-</b>	<b>750</b>	<b>2,320</b>	<b>725</b>	<b>719</b>	<b>701</b>
	<b>Total Obligation Authority</b>	<b>7.715</b>	<b>21.103</b>	<b>11.357</b>	<b>-</b>	<b>11.357</b>	<b>26.057</b>	<b>11.332</b>	<b>11.528</b>	<b>11.523</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		1,926 / 183.017	449 / 7.715	1,950 / 21.103	750 / 11.357	- / -	750 / 11.357
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>1,926 / 183.017</b>	<b>449 / 7.715</b>	<b>1,950 / 21.103</b>	<b>750 / 11.357</b>	<b>- / -</b>	<b>750 / 11.357</b>

\*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 2023 Base procurement dollars in the amount of \$11.357 million supports the procurement of 750 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0155K35110 / Small Tactical Optical Rifle Mounted MLRF
		<b>Item Number / Title [DODIC]:</b> K35110 / Small Tactical Optical Rifle Mounted MLRF

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	1,926	449	1,950	750	-	750
Gross/Weapon System Cost (\$ in Millions)	183.017	7.715	21.103	11.357	-	11.357
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	183.017	7.715	21.103	11.357	-	11.357
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>183.017</b>	<b>7.715</b>	<b>21.103</b>	<b>11.357</b>	<b>-</b>	<b>11.357</b>

*(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)	95.024	17.183	10.822	15.143	-	15.143

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)	-	-	25.243	-	-	1.545	-	-	1.187	-	-	1.211	-	-	-	-	-	1.211
Systems Engineering / Program Management (Matrix) (PMA)	-	-	11.417	-	-	1.400	-	-	1.573	-	-	1.604	-	-	-	-	-	1.604
New Equipment Training	-	-	6.684	-	-	0.710	-	-	1.366	-	-	1.692	-	-	-	-	-	1.692
Initial Spares (Reparables)	-	-	0.117	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Recurring Cost</i>	-	-	<b>43.461</b>	-	-	<b>3.655</b>	-	-	<b>4.126</b>	-	-	<b>4.607</b>	-	-	-	-	-	<b>4.607</b>
<i>Subtotal: Flyaway Cost</i>	-	-	<b>43.461</b>	-	-	<b>3.655</b>	-	-	<b>4.126</b>	-	-	<b>4.607</b>	-	-	-	-	-	<b>4.607</b>
Hardware Cost																		
Recurring Cost																		
Manufacturing (STORM Systems - Prior Contracts (L3))	12.499	10,180	127.239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing (STORM II Systems (L3)) <sup>(†)</sup>	8.517	1,446	12.315	9.042	449	4.060	8.706	1,950	16.977	9.000	750	6.750	-	-	-	9.000	750	6.750
<i>Subtotal: Recurring Cost</i>	-	-	<b>139.554</b>	-	-	<b>4.060</b>	-	-	<b>16.977</b>	-	-	<b>6.750</b>	-	-	-	-	-	<b>6.750</b>
<i>Subtotal: Hardware Cost</i>	-	-	<b>139.554</b>	-	-	<b>4.060</b>	-	-	<b>16.977</b>	-	-	<b>6.750</b>	-	-	-	-	-	<b>6.750</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0155K35110 / Small Tactical Optical Rifle Mounted MLRF	<b>Item Number / Title [DODIC]:</b> K35110 / Small Tactical Optical Rifle Mounted MLRF
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	95.024	1,926	183.017	17.183	449	7.715	10.822	1,950	21.103	15.143	750	11.357	-	-	-	15.143	750	11.357

**Remarks:**

STORM II unit costs are based on contractual range pricing. Unit costs are lower with higher quantity procurements.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	449	1,170	405	-	405
	Total Obligation Authority	7.715	12.662	6.133	-	6.133
ANG	Quantity	-	780	300	-	300
	Total Obligation Authority	-	8.441	4.543	-	4.543
AR	Quantity	-	-	45	-	45
	Total Obligation Authority	-	-	0.681	-	0.681
<b>Total:</b>	<b>Quantity</b>	<b>449</b>	<b>1,950</b>	<b>750</b>	<b>-</b>	<b>750</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>7.715</b>	<b>21.103</b>	<b>11.357</b>	<b>-</b>	<b>11.357</b>

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0155K35110 / Small Tactical Optical Rifle Mounted MLRF				<b>Item Number / Title [DODIC]:</b> 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)) <sup>(†)</sup>		2021	L3Harris / Londonderry, NH	C / FFP	ACC-APG	May 2021	Mar 2022	449	9.042	Y		
Manufacturing (STORM II Systems (L3)) <sup>(†)</sup>		2022	L3Harris / Londonderry, NH	C / FFP	ACC-APG	Apr 2022	Feb 2023	1,950	8.706	Y		
Manufacturing (STORM II Systems (L3)) <sup>(†)</sup>		2023	L3Harris / Londonderry, NH	C / FFP	ACC-APG	Apr 2023	Feb 2024	750	9.000	Y		

<sup>(†)</sup> 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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86										<b>P-1 Line Item Number / Title:</b> 0155K35110 / Small Tactical Optical Rifle Mounted MLRF										<b>Item Number / Title [DODIC]:</b> K35110 / Small Tactical Optical Rifle Mounted MLRF									

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								
Manufacturing (STORM II Systems (L3))																																						
Prior Years Deliveries: 1446																																						
	2	2021	ARMY	449	250	199	40	40	40	40	39																									0		
	1	2022	ARMY	1,950	0	1,950	-	-	-	-	100	150	150	150	165	165	165	180	180	180	180	185																0
	1	2023	ARMY	750	0	750						A	-	-	-	-	-	-	-	-	-	-	120	120	70	70	70	50	50	40				160				
							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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86										<b>P-1 Line Item Number / Title:</b> 0155K35110 / Small Tactical Optical Rifle Mounted MLRF										<b>Item Number / Title [DODIC]:</b> K35110 / Small Tactical Optical Rifle Mounted MLRF									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C C #	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			
Manufacturing (STORM II Systems (L3))																																	
Prior Years Deliveries: 1446																																	
	2	2021	ARMY	449	449	0																								0			
	1	2022	ARMY	1,950	1,950	0																								0			
	1	2023	ARMY	750	590	160	40	40	40	40																				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			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0155K35110 / Small Tactical Optical Rifle Mounted MLRF
		<b>Item Number / Title [DODIC]:</b> K35110 / Small Tactical Optical Rifle Mounted MLRF

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	10	16
2	L3Harris - Londonderry, NH	40	150	300	2	7	10	17	2	6	10	16

**Remarks:**  
 Manufacturer Reference (MFR) #1, L3Harris, is intended for the prior STORM PI and STORM SLX contract. This line will be removed when the system is unlocked. The last Delivery Order (DO) associated with this contract was in FY2020.  
 Manufacturer Reference (MFR) #2, L3Harris, is aligned with the current STORM II production contract. The FY2023 DO is a tied to the production parameters tied to MFR #2.

"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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0173BZ0501 / Indirect Fire Protection Family Of Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604741A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	25	-	-	-	-	-	-	-	-	-	-	25
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,159.288	61.069	6.153	-	-	-	-	-	-	-	-	1,226.510
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,159.288	61.069	6.153	-	-	-	-	-	-	-	-	1,226.510
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,159.288</b>	<b>61.069</b>	<b>6.153</b>	-	-	-	-	-	-	-	-	<b>1,226.510</b>

*(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> )	46,371.520	-	-	-	-	-	-	-	-	-	-	49,060.400

**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. 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, 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.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0173BZ0501 / Indirect Fire Protection Family Of Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604741A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	61.069	6.153	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>61.069</b>	<b>6.153</b>	-	-	-	-	-	-	-

**Justification:**

BZ0501 has no funding request in FY 2023.

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-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0603774A, 0604710A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	336.396	86.389	184.145	202.258	-	202.258	189.434	216.340	157.406	157.332	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	336.396	86.389	184.145	202.258	-	202.258	189.434	216.340	157.406	157.332	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>336.396</b>	<b>86.389</b>	<b>184.145</b>	<b>202.258</b>	<b>-</b>	<b>202.258</b>	<b>189.434</b>	<b>216.340</b>	<b>157.406</b>	<b>157.332</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 provides support to the Soldier Lethality Army Modernization priority.

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 obscuration, 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-Binocular (ENVG-B) or Integrated Visual Augmentation System (IVAS). This funding line is a key enabler of the Army Modernization Priorities in support of day/night situational awareness for the Close Combat Soldier.

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. This funding line provides support to the Close Combat Soldier in the area of situational awareness.

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. This funding line provides support to the Close Combat Soldier in the area of situational awareness.

FWS-I funding supports the Army's Soldier Lethality Cross Functional Teams (SL CFT) initiatives.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0603774A, 0604710A
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**Line Item MDAP/MAIS Code:** N/A

FWS-I Army Acquisition Objective (AAO) is 36,443. NOTE: The Council of Colonels approved a new BOIP for FWS-I of 111,642 at the 16 Nov 2021 Organizational Requirements Document Approval Briefing. This BOIP aligns with Next Generation Squad Weapon and IVAS. Official AAO update is pending.  
 FWS-CS AAO is 25,622  
 FWS-S AAO is 2,963

	<b>Secondary Distribution</b>	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	78.003	130.946	161.855	-	161.855	156.034	186.767	133.892	133.824
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.386	44.654	39.174	-	39.174	32.255	29.573	23.514	23.508
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	8.545	1.229	-	1.229	1.145	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>86.389</b>	<b>184.145</b>	<b>202.258</b>	-	<b>202.258</b>	<b>189.434</b>	<b>216.340</b>	<b>157.406</b>	<b>157.332</b>



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		17,340 / 314.223	7,951 / 83.820	14,433 / 147.271	13,682 / 150.273	- / -	13,682 / 150.273
P-5	K22003 / FWS-CREW SERVED	P-5a, P-21	B		110 / 22.173	0 / -	491 / 25.673	917 / 40.985	- / -	917 / 40.985
P-5	K22004 / FWS-SNIPER	P-5a, P-21	B		- / -	94 / 2.569	168 / 11.201	147 / 11.000	- / -	147 / 11.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 336.396</b>	<b>- / 86.389</b>	<b>- / 184.145</b>	<b>- / 202.258</b>	<b>- / -</b>	<b>- / 202.258</b>

\*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 2023 Base procurement dollars in the amount of \$150.273 million supports the procurement of 13,682 FWS-I production systems.

FY 2023 Base procurement dollars in the amount of \$40.985 million supports the procurement of 917 FWS-CS production systems.

FY 2023 Base procurement dollars in the amount of \$11.000 million supports the procurement of 147 FWS-S production 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>					<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)				<b>Item Number / Title [DODIC]:</b> K22002 / FWS-INDIVIDUAL		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B					<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	
Procurement Quantity (Units in Each)			17,340	7,951	14,433	13,682	-	13,682	
Gross/Weapon System Cost (\$ in Millions)			314.223	83.820	147.271	150.273	-	150.273	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			314.223	83.820	147.271	150.273	-	150.273	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>			<b>314.223</b>	<b>83.820</b>	<b>147.271</b>	<b>150.273</b>	<b>-</b>	<b>150.273</b>	
<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)			18.121	10.542	10.204	10.983	-	10.983	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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) <sup>(†)</sup>	8.586	18,593	159.639	-	-	-	98.769	104	10.272	-	-	-	-	-	-	-	-	-
MANUFACTURING (FRP) <sup>(†)</sup>	8.071	8,681	70.066	8.285	8,249	68.345	7.669	14,329	109.889	9.170	13,682	125.465	-	-	-	9.170	13,682	125.465
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PMA)	-	-	21.350	-	-	4.449	-	-	5.471	-	-	5.559	-	-	-	-	-	5.559
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX Spt)	-	-	13.178	-	-	3.539	-	-	3.460	-	-	3.530	-	-	-	-	-	3.530
DATA	-	-	-	-	-	-	-	-	3.690	-	-	1.963	-	-	-	-	-	1.963
FIELDING	-	-	18.640	-	-	2.781	-	-	4.465	-	-	4.554	-	-	-	-	-	4.554
FIELDING (APMS SMART)	-	-	-	-	-	-	-	-	-	-	-	0.325	-	-	-	-	-	0.325
RECURRING ENGINEERING (ECPs)	-	-	11.611	-	-	1.134	-	-	3.004	-	-	1.568	-	-	-	-	-	1.568
SYSTEMS TEST AND EVALUATION	-	-	1.071	-	-	-	-	-	1.170	-	-	1.218	-	-	-	-	-	1.218

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86						<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)						<b>Item Number / Title [DODIC]:</b> K22002 / FWS-INDIVIDUAL					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)	-	-	18.658	-	-	3.572	-	-	5.849	-	-	6.092	-	-	-	-	-	6.092
<i>Subtotal: Recurring Cost</i>	-	-	314.213	-	-	83.820	-	-	147.270	-	-	150.274	-	-	-	-	-	150.274
<i>Subtotal: Flyaway Cost</i>	-	-	314.213	-	-	83.820	-	-	147.270	-	-	150.274	-	-	-	-	-	150.274
<b>Gross/Weapon System Cost</b>	<b>18.121</b>	<b>17,340</b>	<b>314.223</b>	<b>10.542</b>	<b>7,951</b>	<b>83.820</b>	<b>10.204</b>	<b>14,433</b>	<b>147.271</b>	<b>10.983</b>	<b>13,682</b>	<b>150.273</b>	-	-	-	<b>10.983</b>	<b>13,682</b>	<b>150.273</b>

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	5,248	10,611	11,728	-	11,728
	Total Obligation Authority	75.434	108.276	129.525	-	129.525
ANG	Quantity	2,703	2,984	1,839	-	1,839
	Total Obligation Authority	8.386	30.450	19.519	-	19.519
AR	Quantity	-	838	115	-	115
	Total Obligation Authority	-	8.545	1.229	-	1.229
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>7,951</b>	<b>14,433</b>	<b>13,682</b>	-	<b>13,682</b>
	<b>Total Obligation Authority</b>	<b>83.820</b>	<b>147.271</b>	<b>150.273</b>	-	<b>150.273</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> 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	Apr 2022	Mar 2023	104	98.769	Y		
MANUFACTURING (FRP) <sup>(†)</sup>		2021	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	Oct 2020	Sep 2021	8,249	8.285	Y		
MANUFACTURING (FRP) <sup>(†)</sup>		2022	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	May 2022	Mar 2023	14,329	7.669	Y		
MANUFACTURING (FRP) <sup>(†)</sup>		2023	TBD / TBD	C / IDIQ	ACC-APG	Jan 2023	Jul 2023	13,682	9.170	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The delivery schedule for the FY2021 order is extended to August 2023. The program is not at risk for break in production at this time.

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22002 / FWS-INDIVIDUAL
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Cost Elements <i>(Units in Thousands)</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																										
MANUFACTURING (FRP)																																																									
Prior Years Deliveries: 8681																																																									
	1	2021	ARMY	8.249	.000	8.249	A	-	-	-	-	-	-	-	-	-	-	.550	-	-	-	.919	1.200	1.200	1.200	1.200	1.200	.780		.000																											
	1	2022	ARMY	14.329	.000	14.329																									A	-	-	-	-						14.329																
	2	2023	ARMY	13.682	.000	13.682																																																			13.682
							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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22002 / FWS-INDIVIDUAL
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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		S E P
MANUFACTURING (FRP)																															
Prior Years Deliveries: 8681																															
	1	2021	ARMY	8.249	8.249	.000																							.000		
	1	2022	ARMY	14.329	.000	14.329	-	-	-	-	-	1.107	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202					.000		
	2	2023	ARMY	13.682	.000	13.682				A	-	-	-	-	-	1.141	1.141	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140			.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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22002 / FWS-INDIVIDUAL
----------------------------------------------------------------------------------	------------------------------------------------------------------------------------	----------------------------------------------------------------

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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,RSTA, Inc. - Melbourne, FL	10	750	1,500	2	1	11	12	2	6	9	15
2	TBD - TBD	10	750	1,500	2	3	6	9	2	3	6	9

**Remarks:**  
The delivery schedule for the FY2021 order is extended to August 2023. The program is not at risk for break in production at this time.

"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**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22003 / FWS-CREW SERVED

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity ( <i>Units in Each</i> )	110	0	491	917	-	917
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	22.173	-	25.673	40.985	-	40.985
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	22.173	-	25.673	40.985	-	40.985
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>22.173</b>	<b>-</b>	<b>25.673</b>	<b>40.985</b>	<b>-</b>	<b>40.985</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	71.145	55	3.913	-	-	-	33.902	491	16.646	30.408	917	27.884	-	-	-	30.408	917	27.884
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PMA)	-	-	1.056	-	-	-	-	-	2.165	-	-	2.089	-	-	-	-	-	2.089
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX Spt)	-	-	0.256	-	-	-	-	-	2.711	-	-	2.766	-	-	-	-	-	2.766
FIELDING	-	-	0.009	-	-	-	-	-	1.468	-	-	1.497	-	-	-	-	-	1.497
RECURRING ENGINEERING (ECPs)	-	-	5.000	-	-	-	-	-	0.102	-	-	0.835	-	-	-	-	-	0.835
SYSTEMS TEST AND EVALUATION	-	-	0.196	-	-	-	-	-	0.034	-	-	2.097	-	-	-	-	-	2.097
DATA	-	-	11.613	-	-	-	-	-	1.118	-	-	1.260	-	-	-	-	-	1.260
INITIAL SPARES (REPARABLES)	-	-	0.130	-	-	-	-	-	1.429	-	-	2.557	-	-	-	-	-	2.557
<i>Subtotal: Recurring Cost</i>	-	-	22.173	-	-	-	-	-	25.673	-	-	40.985	-	-	-	-	-	40.985
<i>Subtotal: Flyaway Cost</i>	-	-	22.173	-	-	-	-	-	25.673	-	-	40.985	-	-	-	-	-	40.985



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86						<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)						<b>Item Number / Title [DODIC]:</b> K22003 / FWS-CREW SERVED					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B									<b>MDAP/MAIS Code:</b>								

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	110	22.173	-	0	-	-	491	25.673	-	917	40.985	-	-	-	-	917	40.985

**Remarks:**

In May 2021, the Exhibit P-5 FY2022 unit cost assumed a dual-vendor environment. An equivalent FY2022 unit cost, based on sole source environment (proposal received January 2022), would be 31.626K.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	295	550	-	550
	Total Obligation Authority	-	15.413	25.098	-	25.098
ANG	Quantity	-	196	367	-	367
	Total Obligation Authority	-	10.260	15.887	-	15.887
<b>Total:</b>	<b>Quantity</b>	<b>0</b>	<b>491</b>	<b>917</b>	<b>-</b>	<b>917</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>-</b>	<b>25.673</b>	<b>40.985</b>	<b>-</b>	<b>40.985</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2022	Leonardo DRS / Melbourne, Florida	C / IDIQ	ACC APG	Jun 2022	Feb 2023	491	33.902	Y		
MANUFACTURING <sup>(†)</sup>		2023	Leonardo DRS / Melbourne, Florida	C / IDIQ	ACC APG	Jun 2023	Feb 2024	917	30.408	Y		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22003 / FWS-CREW SERVED
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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 #	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								
<b>MANUFACTURING</b>																																							
Prior Years Deliveries: 55																																							
	1	2022	ARMY	491	0	491											A	-	-	-	-	-	-	-	-	-	41	41	41	41	41	41	41	40	164				
	1	2023	ARMY	917	0	917																												A	-	-	-	-	917
							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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22003 / FWS-CREW SERVED
----------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-----------------------------------------------------------------

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		
MANUFACTURING																																	
Prior Years Deliveries: 55																																	
	1	2022	ARMY	491	327	164	40	40	40	44																			0				
	1	2023	ARMY	917	0	917	-	-	-	-	96	96	96	96	96	96	96	96	96	96	53								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			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22003 / FWS-CREW SERVED
----------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-----------------------------------------------------------------

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	96	96	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).

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22004 / FWS-SNIPER
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	94	168	147	-	147
Gross/Weapon System Cost (\$ in Millions)	-	2.569	11.201	11.000	-	11.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	2.569	11.201	11.000	-	11.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>2.569</b>	<b>11.201</b>	<b>11.000</b>	-	<b>11.000</b>

*(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)	-	27.330	66.673	74.830	-	74.830

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	-	-	-	47.574	54	2.569	43.399	168	7.291	48.585	147	7.142	-	-	-	48.585	147	7.142
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (PMA)	-	-	-	-	-	-	-	-	1.288	-	-	1.272	-	-	-	-	-	1.272
SYSTEMS ENGINEERING/ PROGRAM MANAGEMENT (GOVERNMENT) (MATRIX Spt)	-	-	-	-	-	-	-	-	0.068	-	-	0.260	-	-	-	-	-	0.260
FIELDING	-	-	-	-	-	-	-	-	0.934	-	-	1.042	-	-	-	-	-	1.042
RECURRING ENGINEERING (ECPs)	-	-	-	-	-	-	-	-	0.296	-	-	0.214	-	-	-	-	-	0.214
SYSTEMS TEST AND EVALUATION	-	-	-	-	-	-	-	-	0.296	-	-	0.214	-	-	-	-	-	0.214
INITIAL SPARES (REPARABLES)	-	-	-	-	-	-	-	-	1.028	-	-	0.745	-	-	-	-	-	0.745
CLS	-	-	-	-	-	-	-	-	-	-	-	0.111	-	-	-	-	-	0.111
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.569	-	-	11.201	-	-	11.000	-	-	-	-	-	11.000
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	2.569	-	-	11.201	-	-	11.000	-	-	-	-	-	11.000

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86						<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)						<b>Item Number / Title [DODIC]:</b> K22004 / FWS-SNIPER					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	27.330	94	2.569	66.673	168	11.201	74.830	147	11.000	-	-	-	74.830	147	11.000

**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.

In FY 2021, the Resource Summary of 0 Procurement Quantity is actually a quantity of 54.

In May 2021, the Exhibit P-5 FY2022 unit cost was based on a prior SOCOM buy. An equivalent FY2022 unit cost, based on a vendor response to Request for Information (received August 2021) would be \$47.630K.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	94	109	95	-	95
	Total Obligation Authority	2.569	7.257	7.232	-	7.232
ANG	Quantity	-	59	52	-	52
	Total Obligation Authority	-	3.944	3.768	-	3.768
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>94</b>	<b>168</b>	<b>147</b>	<b>-</b>	<b>147</b>
	<b>Total Obligation Authority</b>	<b>2.569</b>	<b>11.201</b>	<b>11.000</b>	<b>-</b>	<b>11.000</b>

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

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**Exhibit P-5a, Procurement History and Planning:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22004 / FWS-SNIPER
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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 <sup>(†)</sup>		2021	TBD / TBD	C / IDIQ	ACC APG	Nov 2021	Sep 2022	54	47.574	Y		
MANUFACTURING <sup>(†)</sup>		2022	TBD / TBD	C / IDIQ	ACC APG	Jun 2022	Nov 2022	168	43.399	Y		
MANUFACTURING <sup>(†)</sup>		2023	TBD / TBD	C / IDIQ	ACC APG	Jan 2023	Oct 2023	147	48.585	Y		

<sup>(†)</sup> indicates the presence of a P-21



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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22004 / FWS-SNIPER
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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																																
1		2021	ARMY	54	0	54		A	-	-	-	-	-	-	-	-	-	-	15	15	15	9								0		
1		2022	ARMY	168	0	168																								0		
1		2023	ARMY	147	0	147																							147			
								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	A	S	
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	U	G	P

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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22004 / FWS-SNIPER
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												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 3	BAL D U E A S O F 1 O C T	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																															
	1	2021	ARMY	54	54	0																							0		
	1	2022	ARMY	168	168	0																							0		
	1	2023	ARMY	147	0	147	13	13	13	12	12	12	12	12	12	12	12												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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	<b>Item Number / Title [DODIC]:</b> K22004 / FWS-SNIPER
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	1	10	11	2	8	5	13

**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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0187AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	60	851	-	851	618	-	-	-	-	1,529
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	33.807	-	2.371	5.116	-	5.116	3.727	-	-	-	-	45.021
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	33.807	-	2.371	5.116	-	5.116	3.727	-	-	-	-	45.021
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>33.807</b>	<b>-</b>	<b>2.371</b>	<b>5.116</b>	<b>-</b>	<b>5.116</b>	<b>3.727</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>45.021</b>

*(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> )	-	-	39.517	6.012	-	6.012	6.031	-	-	-	-	29.445

**Description:**

This Program will procure the Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS) system to enable setting current and future Precision Guided Munitions (PGMs) and Fuzes. Future PGMs and Fuzes will incorporate guidance technologies that will require more data for initialization, in less time to support higher rates of fire. These EPIAFS systems provides direct set capability to integrate with modernized ammunition, and software that provides initialization data sets, to include target seeking, M-Code and other Assured Positioning, Navigation, and Timing (APNT) data.

PGM and Fuze Setters will be produced and delivered to legacy 39cal weapon systems as well as 58cal Extended Range Cannon Artillery (ERCA) weapon systems. This effort supports the Army's Long Range Precision Fires Cross Functional Team (LRPF CFT) priorities.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	60	851	-	851	618	-	-
	Total Obligation Authority	-	2.371	5.116	-	5.116	3.727	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>60</b>	<b>851</b>	<b>-</b>	<b>851</b>	<b>618</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>-</b>	<b>2.371</b>	<b>5.116</b>	<b>-</b>	<b>5.116</b>	<b>3.727</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER				- / 33.807	- / -	60 / 2.371	851 / 5.116	- / -	851 / 5.116
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 33.807</b>	<b>- / -</b>	<b>60 / 2.371</b>	<b>851 / 5.116</b>	<b>- / -</b>	<b>851 / 5.116</b>

\*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 2023 Base procurement dollars in the amount of \$5.116 million supports the procurement of 851 PGM and Fuze Setters.

This funding will procure full systems as well as components such as the Platform Integration Kit (PIK), processors and cables to support legacy 39cal weapons systems and the 58cal Extended Range Cannon Artillery (ERCA) weapon system. Funding will also support nonrecurring engineering efforts to mitigate obsolescence, upgrade software and improve platform integration components. These improvements will reduce hardware obsolescence and system failures as well as enable flexibility and long term viability in support of the Army's modernization priorities.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0187AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER	<b>Item Number / Title [DODIC]:</b> AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	60	851	-	851
Gross/Weapon System Cost (\$ in Millions)				33.807	-	2.371	5.116	-	5.116
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				33.807	-	2.371	5.116	-	5.116
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>33.807</b>	<b>-</b>	<b>2.371</b>	<b>5.116</b>	<b>-</b>	<b>5.116</b>
<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)				-	-	39.517	6.012	-	6.012

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
Precision Guided Munition (PGM) Setter	-	-	28.123	-	-	-	27.083	60	1.625	3.830	851	3.259	-	-	-	3.830	851	3.259
<i>Subtotal: Recurring Cost</i>	-	-	<b>28.123</b>	-	-	-	-	-	<b>1.625</b>	-	-	<b>3.259</b>	-	-	-	-	-	<b>3.259</b>
<i>Subtotal: Hardware Cost</i>	-	-	<b>28.123</b>	-	-	-	-	-	<b>1.625</b>	-	-	<b>3.259</b>	-	-	-	-	-	<b>3.259</b>
Software Cost																		
Recurring Cost																		
Software	-	-	-	-	-	-	-	-	0.400	-	-	0.440	-	-	-	-	-	0.440
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<b>0.400</b>	-	-	<b>0.440</b>	-	-	-	-	-	<b>0.440</b>
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	<b>0.400</b>	-	-	<b>0.440</b>	-	-	-	-	-	<b>0.440</b>
Support - Non-Recurring Support Cost																		
Value Engineering	-	-	2.000	-	-	-	-	-	-	-	-	0.840	-	-	-	-	-	0.840
<i>Subtotal: Support - Non-Recurring Support Cost</i>	-	-	<b>2.000</b>	-	-	-	-	-	-	-	-	<b>0.840</b>	-	-	-	-	-	<b>0.840</b>
Support - Production Engineering Cost																		
Production Engineering	-	-	3.684	-	-	-	-	-	0.346	-	-	0.577	-	-	-	-	-	0.577
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<b>3.684</b>	-	-	-	-	-	<b>0.346</b>	-	-	<b>0.577</b>	-	-	-	-	-	<b>0.577</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>33.807</b>	-	-	-	<b>39.517</b>	<b>60</b>	<b>2.371</b>	<b>6.012</b>	<b>851</b>	<b>5.116</b>	-	-	-	<b>6.012</b>	<b>851</b>	<b>5.116</b>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0187AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER	<b>Item Number / Title [DODIC]:</b> AD3260 / ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	60	851	-	851
	Total Obligation Authority	-	2.371	5.116	-	5.116
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>60</b>	<b>851</b>	-	<b>851</b>
	<b>Total Obligation Authority</b>	-	<b>2.371</b>	<b>5.116</b>	-	<b>5.116</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0214KA4510 / Forward Looking Infrared (IFLIR)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	44	-	44	9	111	111	233	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	11.929	37.914	-	37.914	20.856	71.461	69.801	127.372	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	11.929	37.914	-	37.914	20.856	71.461	69.801	127.372	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>11.929</b>	<b>37.914</b>	-	<b>37.914</b>	<b>20.856</b>	<b>71.461</b>	<b>69.801</b>	<b>127.372</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	-	-	-	861.682	-	861.682	2,317.333	643.793	628.838	546.661	Continuing	Continuing

**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, the 3GEN FLIR B-Kit program's procurement efforts are focused on the Abrams M1A2 SEPv4 Modernization (Lethality ECP) upgrade effort.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	44	-	44	9	111	111	233
Total Obligation Authority	-	11.929	37.914	-	37.914	20.856	71.461	69.801	127.372
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	<b>44</b>	-	<b>44</b>	<b>9</b>	<b>111</b>	<b>111</b>	<b>233</b>
Total Obligation Authority	-	<b>11.929</b>	<b>37.914</b>	-	<b>37.914</b>	<b>20.856</b>	<b>71.461</b>	<b>69.801</b>	<b>127.372</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0214KA4510 / Forward Looking Infrared (IFLIR)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	44 / 37.914	- / -	44 / 37.914
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	- / 11.929	44 / 37.914	- / -	44 / 37.914

\*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 2023 Base funding in the amount of \$37.914 million supports production of 44 systems and CLS and program management support.  
 All funding is for the Active component.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0214KA4510 / Forward Looking Infrared (IFLIR)
		<b>Item Number / Title [DODIC]:</b> KA4511 / Improved Forward Looking Infrared (IFLIR) B-Kit

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	44	-	44
Gross/Weapon System Cost (\$ in Millions)	-	-	11.929	37.914	-	37.914
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	11.929	37.914	-	37.914
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>11.929</b>	<b>37.914</b>	-	<b>37.914</b>

*(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)	-	-	-	861.682	-	861.682

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	-	-	-	-	-	-
Recurring Production	-	-	-	-	-	-	-	-	-	630.409	44	27.738	-	-	-	630.409	44	27.738
<b>Subtotal: Recurring Cost</b>	-	-	-	-	-	-	-	-	8.050	-	-	27.738	-	-	-	-	-	27.738
Non Recurring Cost																		
Contractor Facilitization and Tooling	-	-	-	-	-	-	-	-	1.783	-	-	0.774	-	-	-	-	-	0.774
Engineering Changes	-	-	-	-	-	-	-	-	-	-	-	1.342	-	-	-	-	-	1.342
System Test & Evaluation	-	-	-	-	-	-	-	-	-	-	-	1.126	-	-	-	-	-	1.126
Data	-	-	-	-	-	-	-	-	-	-	-	1.129	-	-	-	-	-	1.129
<b>Subtotal: Non Recurring Cost</b>	-	-	-	-	-	-	-	-	1.783	-	-	4.371	-	-	-	-	-	4.371
<b>Subtotal: Flyaway Cost</b>	-	-	-	-	-	-	-	-	<b>9.833</b>	-	-	<b>32.109</b>	-	-	-	-	-	<b>32.109</b>
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	2.096	-	-	5.805	-	-	-	-	-	5.805
<b>Subtotal: Support - Program Management Cost</b>	-	-	-	-	-	-	-	-	<b>2.096</b>	-	-	<b>5.805</b>	-	-	-	-	-	<b>5.805</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	<b>11.929</b>	<b>861.682</b>	<b>44</b>	<b>37.914</b>	-	-	-	<b>861.682</b>	<b>44</b>	<b>37.914</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0214KA4510 / Forward Looking Infrared (IFLIR)	<b>Item Number / Title [DODIC]:</b> KA4511 / Improved Forward Looking Infrared (IFLIR) B-Kit

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Remarks:**  
The increase in government management total costs from FY 2022 to FY 2023 is due to the program entering it's first full year of procurement phase.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	44	-	44
	Total Obligation Authority	-	11.929	37.914	-	37.914
<b>Total:</b> Secondary Distribution	Quantity	-	-	44	-	44
	Total Obligation Authority	-	11.929	37.914	-	37.914

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	196	295	-	295	22	1	1	1	-	516
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	434.058	326.364	-	326.364	58.866	27.705	42.345	32.936	-	922.274
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	434.058	326.364	-	326.364	58.866	27.705	42.345	32.936	-	922.274
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	-	<b>434.058</b>	<b>326.364</b>	-	<b>326.364</b>	<b>58.866</b>	<b>27.705</b>	<b>42.345</b>	<b>32.936</b>	-	<b>922.274</b>

*(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> )	-	-	2,214.582	1,106.319	-	1,106.319	2,675.727	27,705.000	42,345.000	32,936.000	-	1,787.353

**Description:**

This funding line provides support to the Air and Missile Defense Army Modernization Priority.

Advances in unmanned aircraft systems (UAS) technology and ease of accessibility increase the potential use of UAS as weapons and intelligence-gathering mechanisms against U.S. forces and Department of Defense (DoD) facilities. Funds support the procurement, training, and equipping of fixed, semi-fixed, mounted, dismounted, and handheld counter-UAS capabilities for U.S. forces and strategically-important DoD facilities worldwide. Planned counter-UAS capability procurements provide a layered defense construct against UAS threats and include a mix of electronic warfare capabilities, command and control, and kinetic and non-kinetic effectors.

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 that will be procured under this budget line; however, current funding procures down-selected systems that are already being procured/fielded under existing Joint Urgent Operational Need (JUON)/Joint Emergent Operational Need (JEON). This is not a new start effort.

Prior C-UAS procurement funding resides in line item 0173BZ0501 Indirect Fire Protection Family of Systems.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	196	295	-	295	22	1	1	1
Total Obligation Authority	-	434.058	326.364	-	326.364	58.866	27.705	42.345	32.936
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	196	295	-	295	22	1	1	1
Total Obligation Authority	-	434.058	326.364	-	326.364	58.866	27.705	42.345	32.936

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / -	- / -	196 / 434.058	295 / 326.364	- / -	295 / 326.364
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	<b>196 / 434.058</b>	<b>295 / 326.364</b>	- / -	<b>295 / 326.364</b>

\*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 2023 Base procurement dollars in the amount of \$33.655 million fund the procurement, equipping, and training required to provide 17 Secretary of Defense-approved covered facilities and assets with the full suite of fixed, semi-fixed, mounted, dismounted, handheld, and kinetic effector self-protection capabilities against small UAS threats. This effort complies with 10 United States Code, Section 130i (Protection of Certain Facilities and Assets from Unmanned Aircraft) and executes the equipping direction provided in the Army Directed Requirement approved by the Vice Chief of Staff of the Army (VCSA) in September 2020.

FY 2023 Base procurement dollars in the amount of \$246.134 million fund the procurements, equipping, and training required to provide one operational division-sized organization with semi-fixed, mounted, dismounted, and handheld C-UAS capabilities, including Coyote interceptors for kinetic defeat, to enable self-protection for critical defended assets, facilities, and infrastructure. FY2023 procurements also inform future Army C-UAS doctrine, organization, training, material, leadership and education, personnel, facilities, and policy enablers.

FY 2023 Base procurement dollars in the amount of \$24.247 million fund the procurement of twelve (12) Family of Counter-Unmanned Aircraft Systems (FoCUS) platforms. The FoCUS procurement mitigates a critical force protection capability gap in countering UAS threats to personnel, facilities, and infrastructure in CONUS and OCONUS. The FoCUS capability provides passive detection capabilities that preserve friendly locations, by incorporating artificial intelligence and machine learning to facilitate positive identification and near real-time decision-making for engagement of UAS threats.

FY 2023 Base procurement dollars in the amount of \$22.328 million continue field support and procure Coyote interceptor rounds for Mobile-Low, slow, small UAS Integrated Defeat System (M-LIDS) kinetic defeat and Fixed Site-Low, slow, small UAS Integrated Defeat System (FS-LIDS) in support of Joint Urgent Operational Need (JUON) CC-0558.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)	<b>Item Number / Title [DODIC]:</b> AD0511 / C-SUAS FIXED

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	196	295	-	295
Gross/Weapon System Cost (\$ in Millions)				-	-	434.058	326.364	-	326.364
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	-	434.058	326.364	-	326.364
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	-	<b>434.058</b>	<b>326.364</b>	-	<b>326.364</b>
<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)				-	-	2,214.582	1,106.319	-	1,106.319

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	119.362	265	31.631	-	-	-	119.362	265	31.631
Army Fixed Sites	-	-	-	-	-	-	1,320.276	29	38.288	1,851.059	17	31.468	-	-	-	1,851.059	17	31.468
Army Operational Division Equipment	-	-	-	-	-	-	176,715.000	2	353.430	220,554.000	1	220.554	-	-	-	220,554.000	1	220.554
Family of Counter UAS Systems (FoCUS)	-	-	-	-	-	-	-	-	-	1,889.250	12	22.671	-	-	-	1,889.250	12	22.671
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	407.584	-	-	306.324	-	-	-	-	-	306.324
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	407.584	-	-	306.324	-	-	-	-	-	306.324
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	21.988	-	-	16.318	-	-	-	-	-	16.318
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	21.988	-	-	16.318	-	-	-	-	-	16.318
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	4.486	-	-	3.722	-	-	-	-	-	3.722
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	4.486	-	-	3.722	-	-	-	-	-	3.722
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	<b>2,214.582</b>	<b>196</b>	<b>434.058</b>	<b>1,106.319</b>	<b>295</b>	<b>326.364</b>	-	-	-	<b>1,106.319</b>	<b>295</b>	<b>326.364</b>

LI 0219AD0500 - COUNTER SMALL UNMANNED AERIAL SYSTEM (C-... Army

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0219AD0500 / COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS)	<b>Item Number / Title [DODIC]:</b> AD0511 / C-SUAS FIXED

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Remarks:**  
Kinetic Defeat Production & Integration unit cost increase from FY 2022 to FY 2023 is based on the current planned procurement mix of the two Coyote interceptor variants: Coyote Block 2+ and Mordecai. The quantity increase is due to the addition of 100 Coyote interceptors as a part of the Operational Division equipment set.

Fielding cost increase from FY 2022 to FY 2023 is based on the significant increase in effort associated with fielding the first Operational Division, which is comprised of multiple end items from differing manufacturers, and initial year of FoCUS fieldings.

Government Management cost increase from FY 2022 to FY 2023 is due to anticipated growth in staffing (SETA and civilian matrix) required to perform the production engineering, integrated logistics support, and acquisition management efforts associated with C-SUAS procurements and fieldings for high-priority fixed sites, operational division sets, and FoCUS.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	196	295	-	295
	Total Obligation Authority	-	434.058	326.364	-	326.364
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>196</b>	<b>295</b>	-	<b>295</b>
	<b>Total Obligation Authority</b>	-	<b>434.058</b>	<b>326.364</b>	-	<b>326.364</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	32,685	10,432	7,733	3,299	-	3,299	3,640	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,812.219	243.850	253.661	186.515	-	186.515	213.794	240.614	244.014	223.542	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,812.219	243.850	253.661	186.515	-	186.515	213.794	240.614	244.014	223.542	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,812.219</b>	<b>243.850</b>	<b>253.661</b>	<b>186.515</b>	<b>-</b>	<b>186.515</b>	<b>213.794</b>	<b>240.614</b>	<b>244.014</b>	<b>223.542</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	55.445	23.375	32.802	56.537	-	56.537	58.735	-	-	-	Continuing	Continuing

**Description:**

This funding line is directly aligned to the Army Network Modernization Priority and Army Network Modernization Strategy Line of Effort (LOE) 2, Common Operating Environment (COE). Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy through a variety of cross-cutting capabilities (CCC).

Joint Battle Command-Platform (JBC-P) supports 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.

In FY 2023, the Army will continue to procure and field JBC-P hardware and software to address a significant cyber vulnerability, leverage improved capabilities and get the Army on a common baseline. JBC-P will procure its last HW system in FY 2024 to complete its Army Acquisition Objective (AAO)/Basis of Issue (BOI) lifecycle. JBC-P will achieve Full Operational Capability (FOC), and JBC-P's follow-on programs encompassed in the Mounted Mission Command Family of Systems (FoS) will begin procurement of BFT-3 HW in FY 2025.



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604805A

**Line Item MDAP/MAIS Code:** N/A

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.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	5,003	3,249	2,643	-	2,643	154	-	-	-
	Total Obligation Authority	95.863	106.564	149.427	-	149.427	9.045	240.614	244.014	223.542
ANG	Quantity	3,998	3,403	504	-	504	2,366	-	-	-
	Total Obligation Authority	104.069	111.614	28.495	-	28.495	138.966	-	-	-
AR	Quantity	1,431	1,081	152	-	152	1,120	-	-	-
	Total Obligation Authority	43.918	35.483	8.593	-	8.593	65.783	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>10,432</b>	<b>7,733</b>	<b>3,299</b>	<b>-</b>	<b>3,299</b>	<b>3,640</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>243.850</b>	<b>253.661</b>	<b>186.515</b>	<b>-</b>	<b>186.515</b>	<b>213.794</b>	<b>240.614</b>	<b>244.014</b>	<b>223.542</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		32,685 / 1,812.219	10,432 / 243.850	7,733 / 253.661	3,299 / 186.515	- / -	3,299 / 186.515
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>32,685 / 1,812.219</b>	<b>10,432 / 243.850</b>	<b>7,733 / 253.661</b>	<b>3,299 / 186.515</b>	<b>- / -</b>	<b>3,299 / 186.515</b>

\*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 2023 Base Procurement dollars in the amount of \$186.515 million supports the procurement of 3,044 vehicle platform computer systems (vehicle computer and log vehicle computer), 255 Command Post systems, satellite transceivers, encryption devices, ancillary equipment, program management support, training, fielding, publications, support equipment, and Post Deployment Software 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 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
		<b>Item Number / Title [DODIC]:</b> W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
Resource Summary			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)			32,685	10,432	7,733	3,299	-	3,299
Gross/Weapon System Cost (\$ in Millions)			1,812.219	243.850	253.661	186.515	-	186.515
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			1,812.219	243.850	253.661	186.515	-	186.515
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>1,812.219</b>	<b>243.850</b>	<b>253.661</b>	<b>186.515</b>	<b>-</b>	<b>186.515</b>
<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)			55.445	23.375	32.802	56.537	-	56.537

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	14.987	52,557	787.672	16.983	6,325	107.417	20.518	5,527	113.403	28.585	2,357	67.375	-	-	-	28.585	2,357	67.375
JBC-P Cmd Post <sup>(†)</sup>	13.575	3,546	48.137	15.212	556	8.458	21.249	350	7.437	29.393	149	4.380	-	-	-	29.393	149	4.380
JBC-P Log Mobile <sup>(†)</sup>	13.196	16,402	216.441	14.687	2,562	37.628	19.899	1,610	32.037	27.738	687	19.056	-	-	-	27.738	687	19.056
JBC-P Log Cmd Post <sup>(†)</sup>	13.204	2,505	33.076	14.687	392	5.757	19.899	246	4.895	27.738	106	2.940	-	-	-	27.738	106	2.940
Ancillary HW	-	-	146.075	-	-	4.447	-	-	5.434	-	-	5.202	-	-	-	-	-	5.202
System Engineering (Services for JBC-P's Hardware)	-	-	61.894	-	-	2.706	-	-	2.133	-	-	2.673	-	-	-	-	-	2.673
Engineering Changes	-	-	3.812	-	-	0.988	-	-	0.750	-	-	1.782	-	-	-	-	-	1.782
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>1,297.107</b>	<b>-</b>	<b>-</b>	<b>167.401</b>	<b>-</b>	<b>-</b>	<b>166.089</b>	<b>-</b>	<b>-</b>	<b>103.408</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>103.408</b>
Non Recurring Cost																		
ABCT	-	-	12.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platform Integration	-	-	51.583	-	-	0.736	-	-	2.633	-	-	2.303	-	-	-	-	-	2.303
Satellite Ground Stations (SGS) Tech Refresh	-	-	4.744	-	-	8.970	-	-	10.115	-	-	10.216	-	-	-	-	-	10.216
Other Procurement (NOC Tech Refresh)	-	-	1.738	-	-	8.700	-	-	6.992	-	-	7.977	-	-	-	-	-	7.977

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86						<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)						<b>Item Number / Title [DODIC]:</b> W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)					

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>							
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	70.242	-	-	18.406	-	-	19.740	-	-	20.496	-	-	-	-	-	20.496
<i>Subtotal: Flyaway Cost</i>	-	-	<b>1,367.349</b>	-	-	<b>185.807</b>	-	-	<b>185.829</b>	-	-	<b>123.904</b>	-	-	-	-	-	<b>123.904</b>
<b>Software Cost</b>																		
<b>Recurring Cost</b>																		
Post Deployment Software Support (PDSS)	-	-	49.979	-	-	8.644	-	-	8.141	-	-	7.977	-	-	-	-	-	7.977
<i>Subtotal: Recurring Cost</i>	-	-	49.979	-	-	8.644	-	-	8.141	-	-	7.977	-	-	-	-	-	7.977
<i>Subtotal: Software Cost</i>	-	-	<b>49.979</b>	-	-	<b>8.644</b>	-	-	<b>8.141</b>	-	-	<b>7.977</b>	-	-	-	-	-	<b>7.977</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	151.223	-	-	27.567	-	-	28.927	-	-	26.935	-	-	-	-	-	26.935
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>151.223</b>	-	-	<b>27.567</b>	-	-	<b>28.927</b>	-	-	<b>26.935</b>	-	-	-	-	-	<b>26.935</b>
<b>Support - Initial Spares and Repair Parts Cost</b>																		
Initial Spares and Repair Parts	-	-	0.520	-	-	-	-	-	3.712	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<b>0.520</b>	-	-	-	-	-	<b>3.712</b>	-	-	-	-	-	-	-	-	-
<b>Support - Peculiar Support Equipment Cost</b>																		
Support and Handling Equipment	-	-	15.739	-	-	2.065	-	-	1.409	-	-	2.811	-	-	-	-	-	2.811
<i>Subtotal: Support - Peculiar Support Equipment Cost</i>	-	-	<b>15.739</b>	-	-	<b>2.065</b>	-	-	<b>1.409</b>	-	-	<b>2.811</b>	-	-	-	-	-	<b>2.811</b>
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	51.544	-	-	6.445	-	-	6.509	-	-	5.935	-	-	-	-	-	5.935
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>51.544</b>	-	-	<b>6.445</b>	-	-	<b>6.509</b>	-	-	<b>5.935</b>	-	-	-	-	-	<b>5.935</b>
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	114.691	-	-	11.572	-	-	16.394	-	-	14.979	-	-	-	-	-	14.979
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<b>114.691</b>	-	-	<b>11.572</b>	-	-	<b>16.394</b>	-	-	<b>14.979</b>	-	-	-	-	-	<b>14.979</b>
<b>Support - System Test and Evaluation Cost</b>																		
Test and Evaluation Support	-	-	41.033	-	-	0.319	-	-	0.072	-	-	1.280	-	-	-	-	-	1.280
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	<b>41.033</b>	-	-	<b>0.319</b>	-	-	<b>0.072</b>	-	-	<b>1.280</b>	-	-	-	-	-	<b>1.280</b>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	<b>Item Number / Title [DODIC]:</b> W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	20.139	-	-	1.431	-	-	2.668	-	-	2.694	-	-	-	-	-	2.694
<i>Subtotal: Support - Training Cost</i>	-	-	<b>20.139</b>	-	-	<b>1.431</b>	-	-	<b>2.668</b>	-	-	<b>2.694</b>	-	-	-	-	-	<b>2.694</b>
<b>Gross/Weapon System Cost</b>	<b>55.445</b>	<b>32,685</b>	<b>1,812.219</b>	<b>23.375</b>	<b>10,432</b>	<b>243.850</b>	<b>32.802</b>	<b>7,733</b>	<b>253.661</b>	<b>56.537</b>	<b>3,299</b>	<b>186.515</b>	-	-	-	<b>56.537</b>	<b>3,299</b>	<b>186.515</b>

**Remarks:**

Comments in order as they appear in P-5:

1) Flyaway; Recurring Cost; JBC-P will be procuring 4,980 fewer systems in FY23 than it did in FY22. This reduction in quantities negates the ability to take advantage of quantity discounts, which is increasing overall unit and procurement costs. Additionally, more installation kits are required to complement the total system quantities (which are based on the MFOCS computer) to satisfy Full Operational Capability requirements.

2) Flyaway; Non-Recurring Cost; Other Procurement: Increase in FY 2023 to complete the procurement required for the Network Operations Center (NOC) tech refresh. The portion will also fund the Tactical Cross Domain Solution (TACDS). TACDS to transition from PEO Soldier to PEO C3T 1 October 2022. TACDS is a Cross Domain Solution that transfers data one way across different security domains for CS21 Integrated Tactical Network (ITN) and Security Force Assistance Brigade (SFAB) units and is also accredited for two way data transfer.

The FY21-FY23 Other Procurement amounts also include funding for Mission Specific Enterprise Cross Domain Service Provider (MS-ECDSP) efforts.

3) Support; Recurring Cost; Test and Evaluation Support: Increase in FY 2023 due to the addition of the Mission Command Test Lab (MCTL) to support JBC-P interoperability.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	5,003	3,249	2,643	-	2,643
	Total Obligation Authority	95.863	106.564	149.427	-	149.427
ANG	Quantity	3,998	3,403	504	-	504
	Total Obligation Authority	104.069	111.614	28.495	-	28.495
AR	Quantity	1,431	1,081	152	-	152
	Total Obligation Authority	43.918	35.483	8.593	-	8.593
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>10,432</b>	<b>7,733</b>	<b>3,299</b>	-	<b>3,299</b>
	<b>Total Obligation Authority</b>	<b>243.850</b>	<b>253.661</b>	<b>186.515</b>	-	<b>186.515</b>

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

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<b>Exhibit P-5a, Procurement History and Planning: PB 2023 Army</b>								<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)					<b>Item Number / Title [DODIC]:</b> 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 <sup>(†)</sup>		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2020	May 2021	6,325	16.983	Y		
JBC-P Veh Computer <sup>(†)</sup>		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2021	May 2022	5,527	20.518	Y		
JBC-P Veh Computer <sup>(†)</sup>		2023	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2022	May 2023	2,357	28.585	Y		
JBC-P Cmd Post		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2020	May 2021	556	15.212	Y		
JBC-P Cmd Post		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2021	May 2022	350	21.249	Y		
JBC-P Cmd Post		2023	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2022	May 2023	149	29.396	Y		
JBC-P Log Mobile <sup>(†)</sup>		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2020	May 2021	2,562	14.687	Y		
JBC-P Log Mobile <sup>(†)</sup>		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2021	May 2022	1,610	19.899	Y		
JBC-P Log Mobile <sup>(†)</sup>		2023	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2022	May 2023	687	27.738	Y		
JBC-P Log Cmd Post		2021	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	DRS Tactical - Melbourne, FL - Melbourne, FL*	Nov 2020	May 2021	392	14.687	Y		
JBC-P Log Cmd Post		2022	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	DRS Tactical - Melbourne, FL - Melbourne, FL*	Nov 2021	May 2022	246	19.899	Y		
JBC-P Log Cmd Post		2023	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	DRS Tactical - Melbourne, FL - Melbourne, FL*	Nov 2022	May 2023	106	27.736	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86										<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										<b>Item Number / Title [DODIC]:</b> W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)									

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	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										
JBC-P Veh Computer																																								
Prior Years Deliveries: 52557																																								
	2	2021	ARMY	6,325	0	6,325		A	-	-	-	-	-	-	-	-	527	527	527	527	527	527	527	527	527	527	527	527	527	527	527	528		0						
	2	2022	ARMY	5,527	0	5,527																										461	461	461	461	461	3,222			
	1	2023	ARMY	2,357	0	2,357																													2,357					
JBC-P Log Mobile																																								
Prior Years Deliveries: 16402																																								
	3	2021	ARMY	2,562	0	2,562		A	-	-	-	-	-	-	-	-	213	213	213	213	213	213	213	213	214	214	214	214	214	214	214				0					
	3	2022	ARMY	1,610	0	1,610																													134	134	134	134	134	940
	3	2023	ARMY	687	0	687																														687				
								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	E	A	E	A	P	A	U	U	A	S									
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	U	S									

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86										<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										<b>Item Number / Title [DODIC]:</b> W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)									

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
JBC-P Veh Computer																															
Prior Years Deliveries: 52557																															
	2	2021	ARMY	6,325	6,325	0																							0		
	2	2022	ARMY	5,527	2,305	3,222	461	461	460	460	460	460	460																0		
	1	2023	ARMY	2,357	0	2,357		A -	-	-	-	-	-	196	196	196	196	196	196	196	197	197	197	197	197				0		
JBC-P Log Mobile																															
Prior Years Deliveries: 16402																															
	3	2021	ARMY	2,562	2,562	0																							0		
	3	2022	ARMY	1,610	670	940	134	134	134	134	134	135	135																0		
	3	2023	ARMY	687	0	687		A -	-	-	-	-	-	57	57	57	57	57	57	57	57	57	58	58	58				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	



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
		<b>Item Number / Title [DODIC]:</b> W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604710A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	100	285	-	-	-	-	152	247	246	248	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	165.997	54.206	62.082	10.304	-	10.304	49.938	70.355	70.269	70.891	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	165.997	54.206	62.082	10.304	-	10.304	49.938	70.355	70.269	70.891	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>165.997</b>	<b>54.206</b>	<b>62.082</b>	<b>10.304</b>	<b>-</b>	<b>10.304</b>	<b>49.938</b>	<b>70.355</b>	<b>70.269</b>	<b>70.891</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	1,659.970	190.196	-	-	-	-	328.539	284.838	285.646	285.851	Continuing	Continuing

**Description:**

The Joint Effects Targeting System (JETS) Target Locator/Designator System (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 system 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 Army Acquisition Objective (AAO) for this program is 3,355.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	171	-	-	-	91	147	146	148
	Total Obligation Authority	32.524	62.082	6.264	-	6.264	29.938	42.003	41.954
ANG	Quantity	114	-	-	-	61	100	100	100
	Total Obligation Authority	21.682	-	4.040	-	4.040	20.000	28.352	28.315
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>285</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>152</b>	<b>247</b>	<b>246</b>	<b>248</b>
	<b>Total Obligation Authority</b>	<b>54.206</b>	<b>62.082</b>	<b>10.304</b>	<b>-</b>	<b>10.304</b>	<b>49.938</b>	<b>70.355</b>	<b>70.269</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	A		100 / 165.997	285 / 54.206	- / 62.082	- / 10.304	- / -	- / 10.304
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>100 / 165.997</b>	<b>285 / 54.206</b>	<b>- / 62.082</b>	<b>- / 10.304</b>	<b>- / -</b>	<b>- / 10.304</b>

\*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 2023 Base procurement dollars in the amount of \$10.304 million supports the procurement of Joint Effects Targeting System (JETS) spares and new equipment training and fielding.

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**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	<b>Item Number / Title [DODIC]:</b> K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	100	285	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	165.997	54.206	62.082	10.304	-	10.304
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	165.997	54.206	62.082	10.304	-	10.304
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>165.997</b>	<b>54.206</b>	<b>62.082</b>	<b>10.304</b>	<b>-</b>	<b>10.304</b>

*(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)	1,659.970	190.196	-	-	-	-

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway Cost</b>																		
Recurring Cost																		
Systems Engineering / Program Management (Government) (PMA)	-	-	10.465	-	-	1.628	-	-	2.109	-	-	1.966	-	-	-	-	-	1.966
Systems Engineering / Program Management (Government) (Matrix)	-	-	8.813	-	-	1.642	-	-	2.433	-	-	2.398	-	-	-	-	-	2.398
New Equipment Training & Fielding	-	-	4.152	-	-	1.981	-	-	2.894	-	-	2.981	-	-	-	-	-	2.981
Fielding	-	-	0.406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding (APMS SMART)	-	-	-	-	-	-	-	-	-	-	-	0.279	-	-	-	-	-	0.279
<i>Subtotal: Recurring Cost</i>	-	-	23.836	-	-	5.251	-	-	7.436	-	-	7.624	-	-	-	-	-	7.624
<i>Subtotal: Flyaway Cost</i>	-	-	23.836	-	-	5.251	-	-	7.436	-	-	7.624	-	-	-	-	-	7.624
<b>Hardware Cost</b>																		
Recurring Cost																		
Manufacturing (Joint Effects Targeting System) <sup>(†)</sup>	246.557	553	136.346	215.661	227	48.955	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares (Reparables)	-	-	2.845	-	-	-	-	-	2.750	-	-	2.680	-	-	-	-	-	2.680
<i>Subtotal: Recurring Cost</i>	-	-	139.191	-	-	48.955	-	-	2.750	-	-	2.680	-	-	-	-	-	2.680
Non Recurring Cost																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Nonrecurring Production	-	-	2.970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Funds pending reprogramming	-	-	-	-	-	-	-	-	51.896	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	2.970	-	-	-	-	-	51.896	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	142.161	-	-	48.955	-	-	54.646	-	-	2.680	-	-	-	-	-	2.680
<b>Gross/Weapon System Cost</b>	1,659.970	100	165.997	190.196	285	54.206	-	-	62.082	-	-	10.304	-	-	-	-	-	10.304

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	171	-	-	-	-
	Total Obligation Authority	32.524	62.082	6.264	-	6.264
ANG	Quantity	114	-	-	-	-
	Total Obligation Authority	21.682	-	4.040	-	4.040
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>285</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>54.206</b>	<b>62.082</b>	<b>10.304</b>	<b>-</b>	<b>10.304</b>

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)				<b>Item Number / Title [DODIC]:</b> K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Manufacturing (Joint Effects Targeting System)		2021	DRS / Melbourne, FL	C / FFP	ACC-APG	Jun 2021	Apr 2022	227	215.661	Y		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 5726K99200 / Computer Ballistics: LHMBC XM32
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	289	198	70	69	-	69	66	63	153	153	-	1,061
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	155.262	7.789	2.811	3.038	-	3.038	3.026	3.094	6.760	6.757	-	188.537
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	155.262	7.789	2.811	3.038	-	3.038	3.026	3.094	6.760	6.757	-	188.537
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>155.262</b>	<b>7.789</b>	<b>2.811</b>	<b>3.038</b>	<b>-</b>	<b>3.038</b>	<b>3.026</b>	<b>3.094</b>	<b>6.760</b>	<b>6.757</b>	<b>-</b>	<b>188.537</b>

*(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> )	537.239	39.338	40.157	44.029	-	44.029	45.848	49.111	44.183	44.163	-	177.697

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	156	70	69	-	69	66	63	153	153
	Total Obligation Authority	6.390	2.811	3.038	-	3.038	3.026	3.094	6.760	6.757
ANG	Quantity	38	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.266	-	-	-	-	-	-	-	-
AR	Quantity	4	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.133	-	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>198</b>	<b>70</b>	<b>69</b>	<b>-</b>	<b>69</b>	<b>66</b>	<b>63</b>	<b>153</b>	<b>153</b>
	<b>Total Obligation Authority</b>	<b>7.789</b>	<b>2.811</b>	<b>3.038</b>	<b>-</b>	<b>3.038</b>	<b>3.026</b>	<b>3.094</b>	<b>6.760</b>	<b>6.757</b>

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		<b>P-1 Line Item Number / Title:</b> 5726K99200 / Computer Ballistics: LHMBC XM32
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

**Justification:**  
FY 2023 Base procurement dollars in the amount of \$3.038 million supports the procurement of 69 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 be used in conjunction with common software (SW), which will reduce hardware and operating system reliance.



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**Exhibit P-40, Budget Line Item Justification: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 7500K99300 / Mortar Fire Control System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	515	12	78	8	-	8	8	8	7	7	-	643
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	537.728	17.472	17.236	4.879	-	4.879	4.936	4.874	3.886	3.904	-	594.915
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	537.728	17.472	17.236	4.879	-	4.879	4.936	4.874	3.886	3.904	-	594.915
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>537.728</b>	<b>17.472</b>	<b>17.236</b>	<b>4.879</b>	<b>-</b>	<b>4.879</b>	<b>4.936</b>	<b>4.874</b>	<b>3.886</b>	<b>3.904</b>	<b>-</b>	<b>594.915</b>

*(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> )	1,044.132	1,456.000	220.974	609.875	-	609.875	617.000	609.250	555.143	557.714	-	925.218

**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 Armored 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	12	78	8	-	8	8	8	7	7
Total Obligation Authority	17.472	17.236	4.879	-	4.879	4.936	4.874	3.886	3.904
<b>Total:</b>									
<b>Secondary Distribution</b>	<b>Quantity</b>	<b>12</b>	<b>78</b>	<b>8</b>	<b>-</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>7</b>
	<b>Total Obligation Authority</b>	<b>17.472</b>	<b>17.236</b>	<b>4.879</b>	<b>-</b>	<b>4.879</b>	<b>4.936</b>	<b>4.874</b>	<b>3.886</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		<b>P-1 Line Item Number / Title:</b> 7500K99300 / Mortar Fire Control System
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

**Justification:**  
FY 2023 Base procurement dollars in the amount of \$2.996 million support the procurement of three (3) each M95 and two (2) each M96 for the Armored 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 2023 Base procurement dollars in the amount of \$1.883 million support the procurement of two (2) each M95 and one (1) each M96 for the Armored Multipurpose Vehicles (AMPV) in support of European Deterrence Initiative (EDI). These items are all critical items in support of deployed units' ongoing military operations.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 7563AD9300 / Mortar Fire Control Systems Modifications
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	9.664	7.292	2.830	4.370	-	4.370	3.243	3.335	4.614	4.613	-	39.961
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	9.664	7.292	2.830	4.370	-	4.370	3.243	3.335	4.614	4.613	-	39.961
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>9.664</b>	<b>7.292</b>	<b>2.830</b>	<b>4.370</b>	<b>-</b>	<b>4.370</b>	<b>3.243</b>	<b>3.335</b>	<b>4.614</b>	<b>4.613</b>	<b>-</b>	<b>39.961</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.292	2.830	4.370	-	4.370	3.243	3.335	4.614	4.613
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	7.292	2.830	4.370	-	4.370	3.243	3.335	4.614	4.613

**Justification:**

FY 2023 Base procurement dollars in the amount of \$4.370 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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604823A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	5	-	-	3	-	3	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3,143.068	71.404	26.694	162.208	-	162.208	101.825	119.283	120.089	120.035	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,143.068	71.404	26.694	162.208	-	162.208	101.825	119.283	120.089	120.035	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3,143.068</b>	<b>71.404</b>	<b>26.694</b>	<b>162.208</b>	<b>-</b>	<b>162.208</b>	<b>101.825</b>	<b>119.283</b>	<b>120.089</b>	<b>120.035</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	628,613.600	-	-	54,069.333	-	54,069.333	-	-	-	-	Continuing	Continuing

**Description:**

This funding line is in support of the Army Long Range Precision Fires (LRPF) Modernization Priority.

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).

Distributed Digital Receiver/Exciter (DDREX) is a Class 1 engineering change proposal (ECP) to the AN/TPQ-53 that provides improved electronic protection capabilities for electronic warfare overmatch and provides an improved extended range capability in support of U.S. Army's #1 priority, Long Range Precision Fires.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	71.404	26.694	73.848	-	73.848	101.825	119.283	120.089	120.035
ANG	Quantity	-	-	3	-	3	-	-	-	-
	Total Obligation Authority	-	-	88.360	-	88.360	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>71.404</b>	<b>26.694</b>	<b>162.208</b>	<b>-</b>	<b>162.208</b>	<b>101.825</b>	<b>119.283</b>	<b>120.089</b>	<b>120.035</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	P-5a, P-21			5 / 3,143.068	- / 71.404	- / -	3 / 91.233	- / -	3 / 91.233
P-3a	BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE (Modification)			602	- / -	- / -	- / 26.694	- / 70.975	- / -	- / 70.975
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>5 / 3,143.068</b>	<b>- / 71.404</b>	<b>- / 26.694</b>	<b>3 / 162.208</b>	<b>- / -</b>	<b>3 / 162.208</b>

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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	P-5a, P-21			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE (Modification)			602	- / 101.825	- / 119.283	- / 120.089	- / 120.035	Continuing	Continuing
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 101.825</b>	<b>- / 119.283</b>	<b>- / 120.089</b>	<b>- / 120.035</b>	<b>Continuing</b>	<b>Continuing</b>

\*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 2023 dollars in the amount of \$162.208 million includes support for AN/TPQ-53 Modification-In-Service procurement and AN/TPQ-53 Counterfire Target Acquisition Radar Base procurement.

FY 2023 AN/TPQ-53 Modification-In-Service procurement dollars in the amount of \$70.975 million support facilitization of Distributed Digital Receiver/Exciter (DDREX) hardware at Original Equipment Manufacturer (OEM) and Tobyhanna Army Depot (TYAD), classified software integration, system reliability, cybersecurity and interoperability. Funding also supports fielding, institutional training device updates, training activities, Information Assurance Compliance modkits, Generator / Environmental Control Unit (GEN/ECU) modkits, Remote Control Display Units (RCDU) refresh, Inertial Navigation Unit (INU) modkits, and program management support.

FY 2023 AN/TPQ-53 Counterfire Target Acquisition Radar Base procurement dollars in the amount of \$91.233 million funds the procurement of three systems that includes the cost of government furnished equipment (GFE), live fire acceptance testing, and new equipment training/fielding to two Army units.

The Army intends to buy to budget with any funds saved through economies of scale achieved with foreign military sales partner requirements.

The Army Acquisition Objective (AAO) is 189.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars	<b>Item Number / Title [DODIC]:</b> B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)		5	-	-	3	-	3
Gross/Weapon System Cost (\$ in Millions)		3,143.068	71.404	-	91.233	-	91.233
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		3,143.068	71.404	-	91.233	-	91.233
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>3,143.068</b>	<b>71.404</b>	<b>-</b>	<b>91.233</b>	<b>-</b>	<b>91.233</b>
<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)		628,613.600	-	-	30,411.000	-	30,411.000

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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) <sup>(†)</sup>	10,328.037	189	1,951.999	-	-	-	-	-	-	27,880.667	3	83.642	-	-	-	27,880.667	3	83.642
Ancillary Equipment	-	-	247.559	-	-	-	-	-	-	-	-	5.119	-	-	-	-	-	5.119
Gallium Arsenide (GaAs) to Gallium Nitride (GaN) Retrofit	-	-	-	4,678.154	13	60.816	-	-	-	-	-	-	-	-	-	-	-	-
Signal Data Processor (SDP) Retrofit	385.431	109	42.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2,241.570	-	-	60.816	-	-	-	-	-	88.761	-	-	-	-	-	88.761
Non Recurring Cost																		
Non-Recurring Engineering	-	-	172.721	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Recurring Production	-	-	145.243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	4.326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Deployment Software Support	-	-	24.758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	347.048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	2,588.618	-	-	60.816	-	-	-	-	-	88.761	-	-	-	-	-	88.761
Support - Acceptance Testing Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars	<b>Item Number / Title [DODIC]:</b> B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	-	-	-	-	-	0.413	-	-	-	-	-	0.413
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	<b>38.381</b>	-	-	-	-	-	-	-	-	<b>0.413</b>	-	-	-	-	-	<b>0.413</b>
Support - Fielding Cost																		
Fielding	-	-	57.665	-	-	10.588	-	-	-	-	-	0.468	-	-	-	-	-	0.468
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>57.665</b>	-	-	<b>10.588</b>	-	-	-	-	-	<b>0.468</b>	-	-	-	-	-	<b>0.468</b>
Support - Operational/Site Activation Cost																		
Sustainment/Interim Contractor Support	-	-	225.196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	<b>225.196</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	188.618	-	-	-	-	-	-	-	-	1.591	-	-	-	-	-	1.591
Contractor Management	-	-	27.412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>216.030</b>	-	-	-	-	-	-	-	-	<b>1.591</b>	-	-	-	-	-	<b>1.591</b>
Support - Training Cost																		
Equipment	-	-	17.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	<b>17.178</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	<b>628,613.600</b>	<b>5</b>	<b>3,143.068</b>	-	-	<b>71.404</b>	-	-	-	<b>30,411.000</b>	<b>3</b>	<b>91.233</b>	-	-	-	<b>30,411.000</b>	<b>3</b>	<b>91.233</b>

**Remarks:**  
Explanation of procurement unit cost in FY 2023: Prior years hardware unit cost reflects greater quantity price breaks during previous production periods (average full rate production buy was 28 systems). This is a very low quantity buy, below minimum sustaining rate (MSR), with start up costs due to a break in production and supply chain challenges.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	71.404	-	2.873	-	2.873
ANG	Quantity	-	-	3	-	3
	Total Obligation Authority	-	-	88.360	-	88.360
<b>Total:</b>	<b>Quantity</b>	-	-	<b>3</b>	-	<b>3</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars	<b>Item Number / Title [DODIC]:</b> B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Secondary Distribution	Total Obligation Authority	71.404	-	91.233	-	91.233

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



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars				<b>Item Number / Title [DODIC]:</b> B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Hardware (AN/TPQ-53) <sup>(†)</sup>		2023	Lockheed Martin / Syracuse, NY.	SS / FFP	CECOM	Dec 2022	Oct 2024	3	27,880.667	Y		Jun 2022

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
Delivery schedule shown is based on the schedule specified in the Full Rate Production contract.

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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86										<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars										<b>Item Number / Title [DODIC]:</b> B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar									

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			

Hardware (AN/TPQ-53)

Prior Years Deliveries: 189

1	2023	ARMY		3	0	3		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
							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**

<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army															<b>Date:</b> April 2022														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86										<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars										<b>Item Number / Title [DODIC]:</b> B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar									

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
Hardware (AN/TPQ-53)																															
Prior Years Deliveries: 189																															
1	2023	ARMY		3	0	3	1	1	1																				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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars
<b>Item Number / Title [DODIC]:</b> B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Lockheed Martin - Syracuse, NY.	12	24	48	0	3	22	25	0	3	22	25

"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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<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars	<b>Modification Number / Title:</b> BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 602

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	26.694	70.975	-	70.975	101.825	119.283	120.089	120.035	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	26.694	70.975	-	70.975	101.825	119.283	120.089	120.035	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>26.694</b>	<b>70.975</b>	-	<b>70.975</b>	<b>101.825</b>	<b>119.283</b>	<b>120.089</b>	<b>120.035</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

FY 2023 Modification-In-Service Procurement dollars in the amount of \$70.975 million support modifications to AN/TPQ-53 fielded systems. The Army has requirements to address capability gaps and to conduct Multi-Domain operations that require retrofit hardware and software installation. Modifications are implemented through retrofit engineering change proposals (ECPs) by the OEM and through organic support at Tobyhanna Army Depot.

Funding also supports the following: 1) 40 Generator / Environmental Control Unit (ECU) modkits and installation for the fabrication and procurement of mounting kits and integration of military standard 10kW generator and ECU to satisfy a condition of the system's materiel release; 2) 3 Inertial Navigation Unit (INU) Upgrades for the integration, procurement, and fielding of a replacement INU including spares with embedded M-Code compliant GPS which maintains system reliability and supportability; 3) The procurement and replacement of 147 Remote Control Display Units (RCDU) which are reliable, supportable, and ruggedized laptops that meet system environmental requirements to interface with and control the radar; and 4) Information Assurance Compliance to reduce cybersecurity vulnerabilities and ensure TEMPEST countermeasure compliance, and government approved engineering change proposals to mitigate hardware obsolescence.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	26.694	70.975	-	70.975	101.825	119.283	120.089	120.035
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>26.694</b>	<b>70.975</b>	-	<b>70.975</b>	<b>101.825</b>	<b>119.283</b>	<b>120.089</b>	<b>120.035</b>

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>										<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86					<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars					<b>Modification Number / Title:</b> BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b> 602						
<b>Models of Systems Affected:</b> AN/TPQ-53				<b>Modification Type:</b> Modification				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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)	
<b>Procurement</b>													
<b>Modification Item 1 of 3:</b> Generator/ECU Modkits, RCDU Refresh, DDREX Kits													
A Kits													
Recurring													
Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.354	- / 6.705	- / 6.922	- / 6.922	Continuing	Continuing	
Interim Contrator Support	- / -	- / -	- / 6.200	- / 9.033	- / -	- / 9.033	- / 7.889	- / 8.187	- / 6.055	- / -	- / -	- / 37.364	
Contractor Services	- / -	- / -	- / -	- / 15.840	- / -	- / 15.840	- / 16.085	- / 14.596	- / 13.614	- / 17.227	Continuing	Continuing	
Modkit Procurement	- / -	- / -	- / -	- / -	- / -	- / -	9 / 17.810	18 / 26.272	20 / 27.671	20 / 27.671	Continuing	Continuing	
Modkit Initial Spares	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.780	- / 3.632	- / 3.710	- / 3.710	Continuing	Continuing	
Fielding	- / -	- / -	- / -	- / 11.250	- / -	- / 11.250	- / 3.349	- / 4.709	- / 5.956	- / 5.956	Continuing	Continuing	
Generator/Environmental Control Unit	- / -	- / -	- / -	40 / 2.403	- / -	40 / 2.403	40 / 2.434	40 / 2.322	40 / 2.352	27 / 2.352	Continuing	Continuing	
Remote Control Display Unit Refersh	- / -	- / -	- / -	147 / 3.329	- / -	147 / 3.329	147 / 3.692	10 / 1.409	60 / 0.664	60 / 0.664	Continuing	Continuing	
<b>Subtotal: Recurring</b>	- / -	- / -	- / 6.200	187 / 31.855	- / -	187 / 31.855	196 / 54.393	68 / 67.832	120 / 66.944	107 / 64.502	Continuing	Continuing	
Non-Recurring													
Production/Fielding Support	- / -	- / -	- / 2.400	- / 2.781	- / -	- / 2.781	- / -	- / -	- / -	- / -	Continuing	Continuing	
Facilitization	- / -	- / -	- / 15.994	- / 4.089	- / -	- / 4.089	- / 9.801	- / 2.040	- / -	- / -	Continuing	Continuing	
Technical Manuals Training	- / -	- / -	- / 2.100	- / 6.840	- / -	- / 6.840	- / 4.289	- / 6.167	- / 5.374	- / 5.374	Continuing	Continuing	
Software Integration to Baseline	- / -	- / -	- / -	- / 17.199	- / -	- / 17.199	- / 5.684	- / 4.660	- / -	- / -	Continuing	Continuing	
Security Facilitization	- / -	- / -	- / -	- / 4.788	- / -	- / 4.788	- / -	- / -	- / -	- / -	Continuing	Continuing	
PDSS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.904	- / 5.904	Continuing	Continuing	
<b>Subtotal: Non-Recurring</b>	- / -	- / -	- / 20.494	- / 25.697	- / -	- / 25.697	- / 19.774	- / 12.867	- / 11.278	- / 11.278	Continuing	Continuing	
<b>Subtotal: Generator/ECU Modkits, RCDU Refresh, DDREX Kits</b>	- / -	- / -	- / 26.694	187 / 57.552	- / -	187 / 57.552	196 / 74.167	68 / 80.699	120 / 78.222	107 / 75.780	Continuing	Continuing	
<b>Modification Item 2 of 3:</b> Inertial Navigation Unit (INU) Upgrade													
A Kits													
Recurring													
Inertial Navigation Unit (INU)	- / -	- / -	- / -	3 / 4.545	- / -	3 / 4.545	22 / 13.186	51 / 19.669	51 / 19.944	51 / 19.944	Continuing	Continuing	
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	3 / 4.545	- / -	3 / 4.545	22 / 13.186	51 / 19.669	51 / 19.944	51 / 19.944	Continuing	Continuing	
<b>Subtotal: Inertial Navigation Unit (INU) Upgrade</b>	- / -	- / -	- / -	3 / 4.545	- / -	3 / 4.545	22 / 13.186	51 / 19.669	51 / 19.944	51 / 19.944	Continuing	Continuing	

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<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>										<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86				<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars						<b>Modification Number / Title:</b> BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b> 602						
<b>Models of Systems Affected:</b> AN/TPQ-53				<b>Modification Type:</b> Modification				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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)	
<b>Modification Item 3 of 3:</b> Information Assurance Compliance													
A Kits													
Non-Recurring													
Information Assurance Compliance	- / -	- / -	- / -	29 / 8.878	- / -	29 / 8.878	40 / 7.098	40 / 7.391	40 / 7.390	40 / 7.390	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / -	29 / 8.878	- / -	29 / 8.878	40 / 7.098	40 / 7.391	40 / 7.390	40 / 7.390	Continuing	Continuing	
<i>Subtotal: Information Assurance Compliance</i>	- / -	- / -	- / -	29 / 8.878	- / -	29 / 8.878	40 / 7.098	40 / 7.391	40 / 7.390	40 / 7.390	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 26.694	219 / 70.975	- / -	219 / 70.975	258 / 94.451	159 / 107.759	211 / 105.556	198 / 103.114	Continuing	Continuing	
<b>Installation</b>													
<b>Modification Item 1 of 3:</b> Generator/ECU Modkits, RCDU Refresh, DDREX Kits	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.495	18 / 5.869	20 / 5.763	20 / 5.763	Continuing	Continuing	
<b>Modification Item 2 of 3:</b> Inertial Navigation Unit (INU) Upgrade	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	22 / 0.224	51 / 2.378	51 / 4.882	Continuing	Continuing	
<b>Modification Item 3 of 3:</b> Information Assurance Compliance	- / -	- / -	- / -	- / -	- / -	- / -	29 / 4.879	40 / 5.431	40 / 6.392	40 / 6.276	Continuing	Continuing	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	41 / 7.374	80 / 11.524	111 / 14.533	111 / 16.921	Continuing	Continuing	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	26.694	70.975	-	70.975	101.825	119.283	120.089	120.035	Continuing	Continuing	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars	<b>Modification Number / Title:</b> BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b> 602
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**Modification Item 1 of 3:** Generator/ECU Modkits, RCDU Refresh, DDREX Kits

**Manufacturer Information**

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, New York
Administrative Leadtime (in Months): 21	Production Leadtime (in Months): 18

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates				Jun 2024	Mar 2025	Dec 2026	Dec 2027
Delivery Dates				Dec 2025	Sep 2026	Jun 2028	Jun 2029

**Installation Information**

**Method of Implementation:** Lockheed Martin Depot

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.495	- / -	- / -	- / -	Continuing	Continuing
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 5.869	- / -	- / -	Continuing	Continuing
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 5.763	- / -	Continuing	Continuing
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 5.763	Continuing	Continuing
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.495	18 / 5.869	20 / 5.763	20 / 5.763	Continuing	Continuing

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	4	6	6	6	6	6	6	22	69
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	4	6	6	6	6	34	69



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars	<b>Modification Number / Title:</b> BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b> 602
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**Modification Item 2 of 3:** Inertial Navigation Unit (INU) Upgrade

**Manufacturer Information**

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime (in Months):	Production Leadtime (in Months): 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027

**Installation Information**

**Method of Implementation:** Tobyhanna Army Depot

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.000	- / -	- / -	- / -	- / -	3 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.224	- / -	- / -	Continuing	Continuing
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 2.378	- / -	Continuing	Continuing
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 4.882	Continuing	Continuing
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.000	22 / 0.224	51 / 2.378	51 / 4.882	Continuing	Continuing

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	2	4	6	6	9	11	11	12	17	11	11	12	95	210
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	2	4	6	6	9	11	11	12	17	11	11	12	95	210

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> 8386BA5500 / Counterfire Radars	<b>Modification Number / Title:</b> BA5315 / AN/TPQ-53 MOD-IN-SERVICE LINE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b> 602
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**Modification Item 3 of 3:** Information Assurance Compliance

**Manufacturer Information**

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, New York
Administrative Leadtime (in Months):	Production Leadtime (in Months): 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Dec 2022	Dec 2023	Dec 2024	Dec 2025	
Delivery Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	

**Installation Information**

**Method of Implementation:** Lockheed Martin Field Service Representative at Unit Location

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	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)	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 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	29 / 4.879	- / -	- / -	- / -	Continuing	Continuing
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 5.431	- / -	- / -	Continuing	Continuing
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 6.392	- / -	Continuing	Continuing
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 6.276	Continuing	Continuing
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	29 / 4.879	40 / 5.431	40 / 6.392	40 / 6.276	Continuing	Continuing

**Installation Schedule**

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	8	10	10	10	10	10	10	10	10	10	10	10	10	40	189
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	4	12	12	10	4	12	12	12	4	12	12	12	12	38	189

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604818A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	23.000	49.410	60.455	-	60.455	77.042	92.383	92.581	92.540	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	23.000	49.410	60.455	-	60.455	77.042	92.383	92.581	92.540	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>23.000</b>	<b>49.410</b>	<b>60.455</b>	-	<b>60.455</b>	<b>77.042</b>	<b>92.383</b>	<b>92.581</b>	<b>92.540</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 Priority 1, Strategy Line of Effort (LOE) #4 Command Post.

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 too large and take too long to setup and teardown making them vulnerable to near peer detection and targeting technologies. By hosting mission command warfighting functions on a vehicle platform, a battle staff can disperse its command posts and blend in with the overall maneuver formation, while giving commanders the ability to synchronize the close fight on the move from Mission Command Platforms (MCPs) and Command Post Support Vehicles (CSPVs). 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 being executed in two Increments. Increment 0 delivers the scope of the Command Post Directed Requirement (CP DR), signed 14 Dec 2017, by providing integrated MCPs and CPSVs to 5 Brigade Combat Teams (BCTs). Increment 1 will execute requirements of the approved CPI2 Capability Development Document (CDD) to be fielded to 86 units of varying capability and size, plus 1 Training set.

Increment 0, upon approval of a Milestone C; will produce an initial set of 5 BCT's using the FMTV platform as the basis of the MCP/CPSV capability. MCP and CPSV installation will be conducted via a follow on production effort from 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 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).

Increment 1 will execute MCP/CPSV production decision via a Milestone C to field CPI2 MCP/CPSV/MCG to 86 Army units (and 1 Training set) over the life of the program in alignment with CDD Basis of Issue (BOI). Increment 1 will field to selected units at Corps, Division, 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. Increment 1 Milestone C will authorize award of an industry competed contract for installation of the platform based MCP and CPSV. The PoR for FMTV, Stryker, AMPV and JLTV will deliver their platforms via their existing contracts to CPI2. CPI2 will be responsible for installation on to the platforms to facilitate an integrated MCP/ CPSV or MCG for each 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					<b>P-1 Line Item Number / Title:</b> 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0604818A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	23.000	49.410	60.455	-	60.455	77.042	92.383	92.581	92.540
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>23.000</b>	<b>49.410</b>	<b>60.455</b>	-	<b>60.455</b>	<b>77.042</b>	<b>92.383</b>	<b>92.581</b>	<b>92.540</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / -	- / 23.000	- / 49.410	- / 60.455	- / -	- / 60.455
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 23.000</b>	<b>- / 49.410</b>	<b>- / 60.455</b>	<b>- / -</b>	<b>- / 60.455</b>

\*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 2023 Base Procurement dollars in the amount of \$60.455 million provide for CPI2 hardware procurement, installation and production of CPI2 Mission Command Platform (MCP) and Command Post Support Vehicles (CPSV), fielding to Brigade Combat Teams and training. The MCP and CPSV provide increased mobility and survivability of today's command post. FY23 funding provides the installation and procurement of equipment for communications, concealment, power, secure wireless solutions, training, and program management.

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**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	<b>Item Number / Title [DODIC]:</b> B29801 / CPI2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	23.000	49.410	60.455	-	60.455
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		-	23.000	49.410	60.455	-	60.455
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		-	<b>23.000</b>	<b>49.410</b>	<b>60.455</b>	-	<b>60.455</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	36.849	-	-	-	-	-	36.849
Engineering Change Orders	-	-	-	-	-	-	-	-	2.972	-	-	3.131	-	-	-	-	-	3.131
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	16.347	-	-	39.980	-	-	-	-	-	39.980
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	16.347	-	-	39.980	-	-	-	-	-	39.980
Hardware Cost																		
Recurring Cost																		
Unified Voice Management System (UVMS) <sup>(†)</sup>	-	-	-	46.552	29	1.350	47.500	26	1.235	50.676	37	1.875	-	-	-	50.676	37	1.875
Towable Expeditionary Shelter System (TESS) <sup>(†)</sup>	-	-	-	248.000	20	4.960	275.667	18	4.962	277.500	10	2.775	-	-	-	277.500	10	2.775
Rigid Wall Shelter <sup>(†)</sup>	-	-	-	34.000	6	0.204	35.000	2	0.070	-	-	-	-	-	-	-	-	-
Command Post Display System (CPDS) <sup>(†)</sup>	-	-	-	5.400	20	0.108	5.500	18	0.099	-	-	-	-	-	-	-	-	-
Secure Wireless Solution <sup>(†)</sup>	-	-	-	31.205	88	2.746	33.154	39	1.293	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	<b>Item Number / Title [DODIC]:</b> B29801 / CPI2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	-	-	-	9.368	-	-	7.659	-	-	4.650	-	-	-	-	-	4.650
<b>Non Recurring Cost</b>																		
FMTV Platform <sup>(†)</sup>	-	-	-	585.471	17	9.953	599.167	18	10.785	-	-	-	-	-	-	-	-	-
M1152 Platform <sup>(†)</sup>	-	-	-	142.250	12	1.707	145.125	8	1.161	-	-	-	-	-	-	-	-	-
Bootwalls <sup>(†)</sup>	-	-	-	5.917	36	0.213	6.026	38	0.229	-	-	-	-	-	-	-	-	-
Camouflage <sup>(†)</sup>	-	-	-	10.985	130	1.428	11.203	123	1.378	-	-	-	-	-	-	-	-	-
IECU/Power Generators <sup>(†)</sup>	-	-	-	10.529	17	0.179	10.722	18	0.193	-	-	-	-	-	-	-	-	-
Division COIC <sup>(†)</sup>	-	-	-	-	-	-	776.000	1	0.776	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	13.480	-	-	14.522	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	22.848	-	-	22.181	-	-	4.650	-	-	-	-	-	4.650
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
New Equipment Training/New Equipment Fielding	-	-	-	-	-	-	-	-	3.948	-	-	4.843	-	-	-	-	-	4.843
Post Deployment Software Sustainment (PDSS)	-	-	-	-	-	-	-	-	0.354	-	-	1.515	-	-	-	-	-	1.515
Data	-	-	-	-	-	-	-	-	0.553	-	-	0.682	-	-	-	-	-	0.682
Initial Sparing	-	-	-	-	-	-	-	-	1.106	-	-	3.665	-	-	-	-	-	3.665
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	5.961	-	-	10.705	-	-	-	-	-	10.705
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	5.961	-	-	10.705	-	-	-	-	-	10.705
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	-	-	-	0.152	-	-	2.939	-	-	2.998	-	-	-	-	-	2.998
Government Management	-	-	-	-	-	-	-	-	1.982	-	-	2.122	-	-	-	-	-	2.122
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	0.152	-	-	4.921	-	-	5.120	-	-	-	-	-	5.120
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	23.000	-	-	49.410	-	-	60.455	-	-	-	-	-	60.455

**Remarks:**  
 1) Contractor Installation cost reflects the increased production of MCPs and CPSVs in FY23 to meet scheduled fielding's in FY23-24.  
 2) The quantity of hardware that CPI2 buys annually is driven by the quantity of units and unit types CPI2 is planning to field to.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	<b>Item Number / Title [DODIC]:</b> B29801 / CPI2

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

- 3) New Equipment Training (NET)/New Equipment Fielding (NEF) reflects need for training and fielding to support fielding for 2 Brigade Combat Teams in FY23.
- 4) Post Deployment Software Sustainment (PDSS) is inclusive of PDSS and software maintenance support leading up to fielding.
- 5) Initial sparing increase is driven by fielding requirements in alignment with CPI2 fielding schedule.
- 6) Government Management includes costs for program travel, Overhead and Matrix Personnel.
- 7) Core civilians are not paid for in this appropriation; core civilians are paid with OMA.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	23.000	49.410	60.455	-	60.455
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>23.000</b>	<b>49.410</b>	<b>60.455</b>	-	<b>60.455</b>

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



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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	<b>Item Number / Title [DODIC]:</b> 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
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		
Unified Voice Management System (UVMS)		2023	CHS / Taunton, MA	MIPR	Aberdeen Proving Ground, MD	Dec 2022	May 2023	37	50.676	Y		
Towable Expeditionary Shelter System (TESS)		2021	PdM FSS / Natick, MA	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		
Towable Expeditionary Shelter System (TESS)		2023	PdM FSS / Natick, MA	Allot	Natick, MA	Dec 2022	Apr 2023	10	277.500	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		
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		
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		
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		
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	PdM FSS / Natick, MA	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	PM E2S2 / Ft.Belvoir, VA	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		

**Remarks:**  
1) CPI2 is an integration program that leverages hardware buys from existing PoR contracts.

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)	<b>Item Number / Title [DODIC]:</b> B29801 / CPI2

2) In Increment 0 - CPI2 procures FMTV platforms from the Product Manager (PdM) Multi-Mission Protected Vehicles (MPVS) managed OSHKOSH contract. The unit cost is an average of multiple FMTV platform vehicle types that CPI2 needs to meet the needs for unit fielding's in FY23-24.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0203726A, 0203728A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	773	-	-	-	-	-	-	-	-	-	-	773
Gross/Weapon System Cost <i>(\$ in Millions)</i>	549.546	9.390	9.853	9.676	-	9.676	9.026	3.246	3.256	3.254	-	597.247
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	549.546	9.390	9.853	9.676	-	9.676	9.026	3.246	3.256	3.254	-	597.247
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>549.546</b>	<b>9.390</b>	<b>9.853</b>	<b>9.676</b>	<b>-</b>	<b>9.676</b>	<b>9.026</b>	<b>3.246</b>	<b>3.256</b>	<b>3.254</b>	<b>-</b>	<b>597.247</b>

*(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>	710.926	-	-	-	-	-	-	-	-	-	-	772.635

**Description:**

This program element captures the funding for Fire Support Command and Control (FSC2) programs (Advanced Field Artillery Tactical Data System (AFATDS)) and Precision Fires-Dismounted/Mounted (PF-D/M)), and their support to the Long Range Precision Fires (LRPF) and Network Cross Functional Teams (CFT). LRPF is the #1 priority and the network is the #4 priority in the Army Modernization Strategy, Efforts support the Common Operating Environment and align to the Network CFT's capability set approach.

FSC2 systems automate the planning and execution of fire support operations so 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.

AFATDS supports LRPF munitions, Extended Range Canon Artillery (ERCA), Extended Range Guided Multiple Launch Rocket System (ER-GMLRS), Precision Strike Missile System (PRSM), Joint Targeting support to multi-domain operations, and emerging sensor to shooter initiatives. To support these initiatives, AFATDS will serve as the key sensor to shooter link for the Army and Marine Corps, providing fully automated support for planning, coordinating, controlling and executing fires and effects. AFATDS began supporting Long Range Hypersonic Weapons in FY20.

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 and 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). 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.

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. Precision Fires Dismounted (PF-D), is a software application that operates on the Nett Warrior End User Device (EUD). It provides the dismounted Forward Observer (FO) and (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

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0203726A, 0203728A
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**Line Item MDAP/MAIS Code:** N/A

replaces the Lightweight Forward Entry Device's (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 Computing Systems (MFOCS) computer.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.390	9.853	9.676	-	9.676	9.026	3.246	3.256	3.254
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>9.390</b>	<b>9.853</b>	<b>9.676</b>	<b>-</b>	<b>9.676</b>	<b>9.026</b>	<b>3.246</b>	<b>3.256</b>	<b>3.254</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	B28620 / MOD OF IN-SVC EQUIP, AFATDS	P-5a			362 / 216.547	- / 5.494	- / 7.205	- / 7.536	- / -	- / 7.536
P-5	BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)	P-5a			411 / 332.999	- / 3.896	- / 2.648	- / 2.140	- / -	- / 2.140
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>773 / 549.546</b>	<b>- / 9.390</b>	<b>- / 9.853</b>	<b>- / 9.676</b>	<b>- / -</b>	<b>- / 9.676</b>

\*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 2023 Base procurement dollars in the amount of \$9.676 million supports the following efforts:

FY 2023 Base procurement dollars (B28620) in the amount of \$7.536 million funds support, fielding/training, ASCA, ancillary hardware to support ARSTRUC/BOI changes/increases, software version 6.8 Operational Testing and Contractor/Matrix Program Management Office (PMO) support.

FY 2023 Base procurement dollars (BZ9851) in the amount of \$2.140 million will procure PF-D ancillary equipment/hardware (consisting of modems, cables and hubs), PF-D fielding/training, Post Deployment Software Support (PDSS), and Contractor/Matrix PMO support.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89		<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family
		<b>Item Number / Title [DODIC]:</b> B28620 / MOD OF IN-SVC EQUIP, AFATDS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	362	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	216.547	5.494	7.205	7.536	-	7.536
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	216.547	5.494	7.205	7.536	-	7.536
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>216.547</b>	<b>5.494</b>	<b>7.205</b>	<b>7.536</b>	<b>-</b>	<b>7.536</b>

*(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)	598.196	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	-	-	-	-	-	-	22.064	140	3.089	-	-	-	-	-	-	-	-	-
Hardware - EMT <sup>(†)</sup>	-	-	-	-	-	-	4.286	21	0.090	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	3.179	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89		<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	1.294	-	-	0.403	-	-	2.097	-	-	-	-	-	2.097
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	<b>0.745</b>	-	-	<b>1.294</b>	-	-	<b>0.403</b>	-	-	<b>2.097</b>	-	-	-	-	-	<b>2.097</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	11.638	-	-	0.919	-	-	1.257	-	-	1.841	-	-	-	-	-	1.841
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>11.638</b>	-	-	<b>0.919</b>	-	-	<b>1.257</b>	-	-	<b>1.841</b>	-	-	-	-	-	<b>1.841</b>
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	9.169	-	-	1.486	-	-	1.311	-	-	1.746	-	-	-	-	-	1.746
Government Management	-	-	1.149	-	-	0.761	-	-	0.613	-	-	0.877	-	-	-	-	-	0.877
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>10.318</b>	-	-	<b>2.247</b>	-	-	<b>1.924</b>	-	-	<b>2.623</b>	-	-	-	-	-	<b>2.623</b>
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	12.324	-	-	0.582	-	-	0.442	-	-	0.425	-	-	-	-	-	0.425
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<b>12.324</b>	-	-	<b>0.582</b>	-	-	<b>0.442</b>	-	-	<b>0.425</b>	-	-	-	-	-	<b>0.425</b>
<b>Support - System Test and Evaluation Cost</b>																		
Operational Test and Evaluation	-	-	0.169	-	-	0.269	-	-	-	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	<b>0.169</b>	-	-	<b>0.269</b>	-	-	-	-	-	<b>0.300</b>	-	-	-	-	-	<b>0.300</b>
<b>Support - Training Cost</b>																		
Services	-	-	12.796	-	-	0.183	-	-	-	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Support - Training Cost</i>	-	-	<b>12.796</b>	-	-	<b>0.183</b>	-	-	-	-	-	<b>0.250</b>	-	-	-	-	-	<b>0.250</b>
<b>Gross/Weapon System Cost</b>	<b>598.196</b>	<b>362</b>	<b>216.547</b>	-	-	<b>5.494</b>	-	-	<b>7.205</b>	-	-	<b>7.536</b>	-	-	-	-	-	<b>7.536</b>

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	5.494	7.205	7.536	-	7.536
<b>Total:</b>	Quantity	-	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	<b>5.494</b>	<b>7.205</b>	<b>7.536</b>	-	<b>7.536</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family	<b>Item Number / Title [DODIC]:</b> B28620 / MOD OF IN-SVC EQUIP, AFATDS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>
<sup>(†)</sup> indicates the presence of a P-5a		



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89			<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
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:**  
As a software only program there are no hardware quantities for AFATDS 7. Ancillary hardware is procured and fielded to fulfill ARSTRUC directed changes/additions. These costs are captured in the Common Support Equipment category.

FY 2023 Operational Test & Evaluation cost is in support of software version 6.8.1.3.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89		<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family
		<b>Item Number / Title [DODIC]:</b> BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)		411	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		332.999	3.896	2.648	2.140	-	2.140
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		332.999	3.896	2.648	2.140	-	2.140
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>332.999</b>	<b>3.896</b>	<b>2.648</b>	<b>2.140</b>	<b>-</b>	<b>2.140</b>
<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)		810.217	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	42.037	895	37.623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	37.623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<b>37.623</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
LFED	-	-	-	-	-	-	15.059	17	0.256	-	-	-	-	-	-	-	-	-
PFED (PF-D)	-	-	-	-	-	-	6.040	25	0.151	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.407	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<b>0.407</b>	-	-	-	-	-	-	-	-	-
Software Cost																		
Recurring Cost																		
PDSS	-	-	0.345	-	-	0.444	-	-	0.850	-	-	0.631	-	-	-	-	-	0.631
<i>Subtotal: Recurring Cost</i>	-	-	0.345	-	-	0.444	-	-	0.850	-	-	0.631	-	-	-	-	-	0.631
<i>Subtotal: Software Cost</i>	-	-	<b>0.345</b>	-	-	<b>0.444</b>	-	-	<b>0.850</b>	-	-	<b>0.631</b>	-	-	-	-	-	<b>0.631</b>
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	9.923	-	-	0.924	-	-	0.429	-	-	0.364	-	-	-	-	-	0.364
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	<b>9.923</b>	-	-	<b>0.924</b>	-	-	<b>0.429</b>	-	-	<b>0.364</b>	-	-	-	-	-	<b>0.364</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family	<b>Item Number / Title [DODIC]:</b> BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Support - Fielding Cost</b>																		
Fielding	-	-	46.480	-	-	0.164	-	-	0.492	-	-	0.686	-	-	-	-	-	0.686
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>46.480</b>	-	-	<b>0.164</b>	-	-	<b>0.492</b>	-	-	<b>0.686</b>	-	-	-	-	-	<b>0.686</b>
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	53.953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<b>53.953</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Program Management Cost</b>																		
Contractor Management	-	-	35.216	-	-	1.705	-	-	0.237	-	-	0.142	-	-	-	-	-	0.142
Government Management	-	-	1.048	-	-	0.450	-	-	0.233	-	-	0.142	-	-	-	-	-	0.142
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>36.264</b>	-	-	<b>2.155</b>	-	-	<b>0.470</b>	-	-	<b>0.284</b>	-	-	-	-	-	<b>0.284</b>
<b>Support - System Engineering Cost</b>																		
System Engineering	-	-	33.631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<b>33.631</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - System Test and Evaluation Cost</b>																		
Operational Test and Evaluation	-	-	31.205	-	-	0.209	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	<b>31.205</b>	-	-	<b>0.209</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Training Cost</b>																		
Services	-	-	83.575	-	-	-	-	-	-	-	-	0.175	-	-	-	-	-	0.175
<i>Subtotal: Support - Training Cost</i>	-	-	<b>83.575</b>	-	-	-	-	-	-	-	-	<b>0.175</b>	-	-	-	-	-	<b>0.175</b>
<b>Gross/Weapon System Cost</b>	<b>810.217</b>	<b>411</b>	<b>332.999</b>	-	-	<b>3.896</b>	-	-	<b>2.648</b>	-	-	<b>2.140</b>	-	-	-	-	-	<b>2.140</b>

**Remarks:**  
Common Support hardware procured in FY23 is ancillary equipment in support of PF-D fielding and is Commercial Off The Shelf (COTS) procurement.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.896	2.648	2.140	-	2.140

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family	<b>Item Number / Title [DODIC]:</b> BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	3.896	2.648	2.140	-	2.140

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89			<b>P-1 Line Item Number / Title:</b> 9060B28501 / Fire Support C2 Family				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	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. Common Support hardware procured in FY23 is ancillary equipment in support of PF-D fielding and is Commercial Off The Shelf (COTS) procurement.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9266AD5070 / AIR & MSL Defense Planning & Control Sys
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604741A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,045.394	62.517	67.193	72.619	-	72.619	-	-	-	-	-	1,247.723
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,045.394	62.517	67.193	72.619	-	72.619	-	-	-	-	-	1,247.723
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,045.394</b>	<b>62.517</b>	<b>67.193</b>	<b>72.619</b>	<b>-</b>	<b>72.619</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,247.723</b>

*(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 Air and Missile Defense, Army Modernization Priorities.

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. As part of the capability and technology reuse, AMDWS external interfaces are being leveraged by Integrated Battle Command System (IBCS) to avoid redevelopment of existing capabilities. AMDWS and FAAD C2 are core components of the Air and Missile Defense 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	33.300	19.808	41.140	-	41.140	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.217	47.385	31.479	-	31.479	-	-	-
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>62.517</b>	<b>67.193</b>	<b>72.619</b>	<b>-</b>	<b>72.619</b>	<b>-</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9266AD5070 / AIR & MSL Defense Planning & Control Sys
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604741A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / 1,045.394	- / 62.517	- / 67.193	- / 72.619	- / -	- / 72.619
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 1,045.394</b>	<b>- / 62.517</b>	<b>- / 67.193</b>	<b>- / 72.619</b>	<b>- / -</b>	<b>- / 72.619</b>

\*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 2023 Base procurement dollars in the amount of \$64.307 million procures three (3) ADAM Cells for the Active Component, fourteen (14) Sensor Command and Control (C2) Nodes, and two (2) Battery Command Posts (BCP) for the Army National Guard, for a total of 19 shelters. In addition, FY 2023 Base procurement dollars procure 46 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]).

FY 2023 Base procurement dollars in the amount of \$8.312 million support Requirement for European Deterrence Initiative (EDI) support tech refresh of 10th AAMDC (2 each AMDPCS A and 1 each AMDPCS B).

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.

Note: The Prior Year, FY 2022, and FY 2023 quantities are incorrect and could not be updated for this submission due to system limitations. The correct quantities are as follows:  
 Prior Year - 367  
 FY 2022 - 18  
 FY 2023 - 19  
 The FY 2023 Secondary Distribution quantity of 5 for Army Active is incorrect. The correct quantity for FY 2023 Army Active is 3.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89		<b>P-1 Line Item Number / Title:</b> 9266AD5070 / AIR & MSL Defense Planning & Control Sys
		<b>Item Number / Title [DODIC]:</b> AD5070 / AIR & MSL Defense Planning & Control Sys

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,045.394	62.517	67.193	72.619	-	72.619
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,045.394	62.517	67.193	72.619	-	72.619
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,045.394</b>	<b>62.517</b>	<b>67.193</b>	<b>72.619</b>	<b>-</b>	<b>72.619</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	1,977.943	367	725.905	1,989.273	22	43.764	2,622.722	18	47.209	2,612.368	19	49.635	-	-	-	2,612.368	19	49.635
Passive Identification Friend or Foe (PIFF) Hardware <sup>(†)</sup>	-	-	-	-	-	-	156.000	29	4.524	150.800	46	6.937	-	-	-	150.800	46	6.937
<i>Subtotal: Recurring Cost</i>	-	-	725.905	-	-	43.764	-	-	51.733	-	-	56.572	-	-	-	-	-	56.572
<i>Subtotal: Flyaway Cost</i>	-	-	<b>725.905</b>	-	-	<b>43.764</b>	-	-	<b>51.733</b>	-	-	<b>56.572</b>	-	-	-	-	-	<b>56.572</b>
Software Cost																		
Recurring Cost																		
5. Software Modifications	-	-	42.643	-	-	3.483	-	-	3.553	-	-	3.545	-	-	-	-	-	3.545
<i>Subtotal: Recurring Cost</i>	-	-	42.643	-	-	3.483	-	-	3.553	-	-	3.545	-	-	-	-	-	3.545
<i>Subtotal: Software Cost</i>	-	-	<b>42.643</b>	-	-	<b>3.483</b>	-	-	<b>3.553</b>	-	-	<b>3.545</b>	-	-	-	-	-	<b>3.545</b>
Support - Fielding Cost																		
Fielding	-	-	110.742	-	-	6.806	-	-	4.994	-	-	5.272	-	-	-	-	-	5.272
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>110.742</b>	-	-	<b>6.806</b>	-	-	<b>4.994</b>	-	-	<b>5.272</b>	-	-	-	-	-	<b>5.272</b>
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	109.476	-	-	5.937	-	-	4.273	-	-	4.511	-	-	-	-	-	4.511



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9266AD5070 / AIR & MSL Defense Planning & Control Sys	<b>Item Number / Title [DODIC]:</b> AD5070 / AIR & MSL Defense Planning & Control Sys

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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>	-	-	109.476	-	-	5.937	-	-	4.273	-	-	4.511	-	-	-	-	-	4.511
Support - Program Management Cost																		
Government Management	-	-	56.628	-	-	2.527	-	-	2.640	-	-	2.719	-	-	-	-	-	2.719
<i>Subtotal: Support - Program Management Cost</i>	-	-	56.628	-	-	2.527	-	-	2.640	-	-	2.719	-	-	-	-	-	2.719
<b>Gross/Weapon System Cost</b>	-	-	1,045.394	-	-	62.517	-	-	67.193	-	-	72.619	-	-	-	-	-	72.619

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	33.300	19.808	41.140	-	41.140
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	29.217	47.385	31.479	-	31.479
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>62.517</b>	<b>67.193</b>	<b>72.619</b>	-	<b>72.619</b>

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89			<b>P-1 Line Item Number / Title:</b> 9266AD5070 / AIR & MSL Defense Planning & Control Sys				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
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	2,622.722	N		
1. System Integration/Hardware		2023	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Feb 2023	Jul 2023	19	2,612.368	N		
Passive Identification Friend or Foe (PIFF) Hardware		2022	Telephonics / Farmingdale, NY	SS / FFP	Huntsville, AL	Apr 2022	Nov 2022	29	156.000	N		
Passive Identification Friend or Foe (PIFF) Hardware		2023	Telephonics / Farmingdale, NY	SS / FFP	Huntsville, AL	Apr 2023	Nov 2023	46	150.800	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0603327A, 0605457A
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**Line Item MDAP/MAIS Code:** 205

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	6	13	16	32	-	32	48	65	63	55	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	50.546	198.587	296.872	438.967	-	438.967	412.920	457.335	458.445	457.608	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	50.546	198.587	296.872	438.967	-	438.967	412.920	457.335	458.445	457.608	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>50.546</b>	<b>198.587</b>	<b>296.872</b>	<b>438.967</b>	<b>-</b>	<b>438.967</b>	<b>412.920</b>	<b>457.335</b>	<b>458.445</b>	<b>457.608</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 U.S. Army Air and Missile Defense (AMD) Modernization Priority.

The AIAMD program is a direct response to the U.S. Army 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).

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	13	16	32	-	32	40	53	53	30
Total Obligation Authority	198.587	296.872	438.967	-	438.967	349.258	401.546	423.303	289.110

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0603327A, 0605457A			
<b>Line Item MDAP/MAIS Code:</b> 205									

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
ANG	Quantity	-	-	-	-	-	8	12	10	23
	Total Obligation Authority	-	-	-	-	-	63.662	55.789	35.142	160.858
AR	Quantity	-	-	-	-	-	-	-	-	2
	Total Obligation Authority	-	-	-	-	-	-	-	-	7.640
<b>Total:</b>	<b>Quantity</b>	<b>13</b>	<b>16</b>	<b>32</b>	<b>-</b>	<b>32</b>	<b>48</b>	<b>65</b>	<b>63</b>	<b>55</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>198.587</b>	<b>296.872</b>	<b>438.967</b>	<b>-</b>	<b>438.967</b>	<b>412.920</b>	<b>457.335</b>	<b>458.445</b>	<b>457.608</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0603327A, 0605457A
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**Line Item MDAP/MAIS Code:** 205

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			6 / 50.546	13 / 198.587	16 / 296.872	32 / 438.967	- / -	32 / 438.967
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>6 / 50.546</b>	<b>13 / 198.587</b>	<b>16 / 296.872</b>	<b>32 / 438.967</b>	<b>- / -</b>	<b>32 / 438.967</b>

\*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 2023 Base procurement dollars in the amount of \$438.967 million will procure hardware to convert two PATRIOT Battalions, one ADA Brigade, and one AAMDC to IBCS enabled units, for a total of twenty-two Engagement Operation Centers (EOCs) and fifty-two Integrated Fire Control Network Relays (IFCNs). Each unit requires procurement of Plug and Fight kits, Government Furnished Equipment, such as radios and Global Positioning System equipment, and initial spares. FY 2023 procurement also supports the addition of eight EOC Trainers, six IFCN Relay Trainers and two Sustainment Readiness Float EOCs to enhance the training base and fleet readiness.

"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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>											<b>Date:</b> April 2022						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89						<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System					<b>Item Number / Title [DODIC]:</b> BZ5075 / IAMD Battle Command System						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>											
Resource Summary				Prior Years		FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Procurement Quantity (Units in Each)				6		13		16		32		-		32			
Gross/Weapon System Cost (\$ in Millions)				50.546		198.587		296.872		438.967		-		438.967			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				50.546		198.587		296.872		438.967		-		438.967			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
<b>Total Obligation Authority (\$ in Millions)</b>				<b>50.546</b>		<b>198.587</b>		<b>296.872</b>		<b>438.967</b>		-		<b>438.967</b>			
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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) <sup>(†)</sup>	1,030.500	6	6.183	5,579.923	13	72.539	5,481.750	16	87.708	3,400.844	32	108.827	-	-	-	3,400.844	32	108.827
Integrated Fire Control Network Relays (CFE)	360.000	12	4.320	1,466.292	24	35.191	1,621.333	27	43.776	992.000	58	57.536	-	-	-	992.000	58	57.536
Plug and Fight Items	-	-	10.359	-	-	14.023	-	-	16.803	-	-	27.238	-	-	-	-	-	27.238
Government Furnished Equipment	-	-	3.826	-	-	25.714	-	-	31.846	-	-	82.683	-	-	-	-	-	82.683
Prime Movers	-	-	-	-	-	475.384	-	73	34.703	471.264	121	57.023	-	-	-	471.264	121	57.023
Government Program Management	-	-	1.855	-	-	7.558	-	-	8.841	-	-	9.735	-	-	-	-	-	9.735
Software and Systems Engineering	-	-	1.243	-	-	35.198	-	-	58.755	-	-	67.342	-	-	-	-	-	67.342
<b>Subtotal: Recurring Cost</b>	-	-	<b>27.786</b>	-	-	<b>190.223</b>	-	-	<b>282.432</b>	-	-	<b>410.384</b>	-	-	-	-	-	<b>410.384</b>
Non Recurring Cost																		
Long Lead Materials	-	-	12.920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Production Facilities	-	-	8.258	-	-	1.220	-	-	1.368	-	-	2.504	-	-	-	-	-	2.504
<b>Subtotal: Non Recurring Cost</b>	-	-	<b>21.178</b>	-	-	<b>1.220</b>	-	-	<b>1.368</b>	-	-	<b>2.504</b>	-	-	-	-	-	<b>2.504</b>
<b>Subtotal: Flyaway Cost</b>	-	-	<b>48.964</b>	-	-	<b>191.443</b>	-	-	<b>283.800</b>	-	-	<b>412.888</b>	-	-	-	-	-	<b>412.888</b>
Logistics Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89						<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System						<b>Item Number / Title [DODIC]:</b> BZ5075 / IAMD Battle Command System					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
Initial Spares	-	-	1.582	-	-	3.192	-	-	3.420	-	-	10.056	-	-	-	-	-	10.056
Interim Contractor Support	-	-	-	-	-	3.952	-	-	6.646	-	-	9.890	-	-	-	-	-	9.890
Logistics Support	-	-	-	-	-	-	-	-	3.006	-	-	6.133	-	-	-	-	-	6.133
<i>Subtotal: Non Recurring Cost</i>	-	-	1.582	-	-	7.144	-	-	13.072	-	-	26.079	-	-	-	-	-	26.079
<i>Subtotal: Logistics Cost</i>	-	-	1.582	-	-	7.144	-	-	13.072	-	-	26.079	-	-	-	-	-	26.079
<b>Gross/Weapon System Cost</b>	-	6	50.546	-	13	198.587	-	16	296.872	-	32	438.967	-	-	-	-	32	438.967

**Remarks:**

In FY 2023 total costs include procuring Major End Items (MEIs), the associated Prime Movers, 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. Logistics Cost increase maintains and expands the Interim Contractor Support (ICS) as well as the training for new equipment fielding teams and FSRs, depot level and field level repairable and consumable supply chain, technical manuals, and maintenance publications.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	13	16	32	-	32
	Total Obligation Authority	198.587	296.872	438.967	-	438.967
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>13</b>	<b>16</b>	<b>32</b>	<b>-</b>	<b>32</b>
	<b>Total Obligation Authority</b>	<b>198.587</b>	<b>296.872</b>	<b>438.967</b>	<b>-</b>	<b>438.967</b>

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System	<b>Item Number / Title [DODIC]:</b> 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) <sup>(†)</sup>		2021	Northrop Grumman Systems Corporation / Huntsville, Alabama	C / IDIQ	ACC-R	Dec 2021	Dec 2022	13	5,579.923	Y	Mar 2020	Nov 2020
Engagement Operation Centers (CFE) <sup>(†)</sup>		2022	Northrop Grumman Systems Corporation / Huntsville, Alabama	C / IDIQ	ACC-R	Jun 2022	Jun 2023	16	5,481.750	Y		
Engagement Operation Centers (CFE) <sup>(†)</sup>		2023	Northrop Grumman Systems Corporation / Huntsville, Alabama	C / IDIQ	ACC-R	Aug 2023	Aug 2024	32	3,400.844	Y		

<sup>(†)</sup> indicates the presence of a P-21



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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System	<b>Item Number / Title [DODIC]:</b> BZ5075 / IAMD Battle Command System
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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	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)																																			
Prior Years Deliveries: 6																																			
	1	2021	ARMY	13	0	13			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13					0	
	1	2022	ARMY	16	0	16																												12	
	1	2023	ARMY	32	0	32																												32	

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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

**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												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 3	BAL D U E A S O F 1 O C T	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)																															
Prior Years Deliveries: 6																															
1	2021	ARMY		13	13	0																							0		
1	2022	ARMY		16	4	12	1	1	1	1	1	1	1	1	2	2													0		
1	2023	ARMY		32	0	32	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	6		
							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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89		<b>P-1 Line Item Number / Title:</b> 9280BZ5075 / IAMD Battle Command System
		<b>Item Number / Title [DODIC]:</b> BZ5075 / IAMD Battle Command System

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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 Systems Corporation - Huntsville, Alabama	12	24	48	12	14	12	26	12	11	12	23

"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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9442BD3955 / Life Cycle Software Support (LCSS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	118.999	2.495	5.182	4.586	-	4.586	4.366	5.500	5.875	5.932	-	152.935
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	118.999	2.495	5.182	4.586	-	4.586	4.366	5.500	5.875	5.932	-	152.935
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>118.999</b>	<b>2.495</b>	<b>5.182</b>	<b>4.586</b>	<b>-</b>	<b>4.586</b>	<b>4.366</b>	<b>5.500</b>	<b>5.875</b>	<b>5.932</b>	<b>-</b>	<b>152.935</b>

*(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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.495	5.182	4.586	-	4.586	4.366	5.500	5.875	5.932
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>2.495</b>	<b>5.182</b>	<b>4.586</b>	<b>-</b>	<b>4.586</b>	<b>4.366</b>	<b>5.500</b>	<b>5.875</b>	<b>5.932</b>

**Justification:**

FY 2023 procurement in the amount of \$4.586 million supports maintaining software capabilities in labs such as:

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems		<b>P-1 Line Item Number / Title:</b> 9442BD3955 / Life Cycle Software Support (LCSS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>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.</p> <p>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.</p> <p>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&amp;S requires a dedicated environment to maintain two (2) ATOs (NSA and Grey Rock) 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, nor will cyber hardening of the systems meet NSA mandates.</p> <p>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).</p> <p>5. Intelligence Support Division Lab (APG &amp; 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.</p>		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9705BA9301 / Network Management Initialization and Services
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	373.503	18.651	31.349	37.199	-	37.199	17.179	17.224	17.276	17.268	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	373.503	18.651	31.349	37.199	-	37.199	17.179	17.224	17.276	17.268	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>373.503</b>	<b>18.651</b>	<b>31.349</b>	<b>37.199</b>	<b>-</b>	<b>37.199</b>	<b>17.179</b>	<b>17.224</b>	<b>17.276</b>	<b>17.268</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 provides support to the Network Army Modernization priority.

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 and Joint Interoperability/Coalition Accessible (LOE 3). Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the Army's Network Modernization strategy and initiatives.

The JNMS project provides 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 is directly aligned to the Army Network Modernization Strategy LOE 1, Unified Network. Efforts are aligned to support the Network - Cross Functional Team (N-CFT) capability set approach to achieve the Army's Network Modernization strategy and initiatives.

The NMS project provides systems engineering, integration, and hardware to meet Network Management and Network Planning requirements. All current NMS efforts provide a software based, integrated Network Operations (NetOps) capability being developed as rapid prototypes under the Unified Network Operations (UNO) Middle Tier Acquisition (MTA) Rapid Prototype (RP) authority, granted by the Army Acquisition Executive (AAE) Acquisition Decision Memorandum (ADM) (dated 14 May 2019). NMS also provides the Army's development operations (DEVOPS) approach to UNO, by 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. NMS funds the execution phase of the DEVOPS approach with the fielding of Ruggedized Applications Platform - Tactical Radios (RAP-TR) solution to the Lower Tactical Internet (LTI), which includes the UNO Radio Planner (Atom) software and RAP-TR hardware. NMS provides the acquisition strategy to transition to a Program of Record (PoR) to extend deployment of UNO's capabilities.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9705BA9301 / Network Management Initialization and Services
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Data Products, Project BA9315:  
 This funding line is a key enabler of the Army Modernization Priorities in support of 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), Net 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	18.651	31.033	37.199	-	37.199	17.179	17.224	17.276	17.268
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.216	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.100	-	-	-	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>18.651</b>	<b>31.349</b>	<b>37.199</b>	<b>-</b>	<b>37.199</b>	<b>17.179</b>	<b>17.224</b>	<b>17.276</b>	<b>17.268</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9705BA9301 / Network Management Initialization and Services
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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	- / 1.967	- / -	- / 1.967
P-5	BA9312 / NETWORK MANAGEMENT SYSTEM				- / 62.264	- / 5.230	- / 21.625	- / 25.324	- / -	- / 25.324
P-5	BA9315 / DATA PRODUCTS				- / 311.239	- / 9.517	- / 8.794	- / 9.908	- / -	- / 9.908
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 373.503</b>	<b>- / 18.651</b>	<b>- / 31.349</b>	<b>- / 37.199</b>	<b>- / -</b>	<b>- / 37.199</b>

\*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 2023 Base dollars in the amount of \$1.967 million funds Field Support Engineering (FSE) personnel training and logistics to support Soldiers' ability to plan, configure, monitor, manage, and sustain the radio network. JNMS will utilize Network Management Reference Implementation Laboratory (NM RIL) for help desk support, software updates, engineering change management, and software integration onto the deployed hardware platform.

Network Management Systems (NMS), Project BA9312:  
 FY 2023 Base dollars of \$25.324 million supports systems engineering, integration and fielding of Ruggedized Applications Platform - Tactical Radios (RAP-TR) solution to the Lower Tactical Internet (LTI) for initial Network Operations (NetOps). Funding continues to support fielding of software based, integrated NetOps capabilities developed under the Unified Network Operations (UNO) Middle Tier Acquisition (MTA) Rapid Prototype (RP) authority, granted by the Army Acquisition Executive's (AAE) Acquisition Decision Memorandum (ADM) (dated 14 May 2019). Funding also continues to support 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.

Data Products, Project BA9315:  
 FY 2023 Base dollars in the amount of \$9.908 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. Additionally, Data Products support the Army's growth and modernization by providing products that enable C2 objectives in support of Project Convergence, Joint Warfighter Assessment, and new unit standups (MDTF, SFAB, ESB-E, etc). The dollars also fund continual modernization of Automated Initialization Manager (AIM) and Initialization Tool Suite (ITS) to integrate new or emerging requirements and capabilities, update training, and provide technical support of the entire Data Product portfolio. 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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9705BA9301 / Network Management Initialization and Services	<b>Item Number / Title [DODIC]:</b> B99318 / Joint Network Management System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	3.904	0.930	1.967	-	1.967
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	3.904	0.930	1.967	-	1.967
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>3.904</b>	<b>0.930</b>	<b>1.967</b>	-	<b>1.967</b>

*(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.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Support - Training Cost																		
Services	-	-	-	-	-	3.904	-	-	0.930	-	-	1.967	-	-	-	-	-	1.967
<b>Subtotal: Support - Training Cost</b>	-	-	-	-	-	<b>3.904</b>	-	-	<b>0.930</b>	-	-	<b>1.967</b>	-	-	-	-	-	<b>1.967</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>3.904</b>	-	-	<b>0.930</b>	-	-	<b>1.967</b>	-	-	-	-	-	<b>1.967</b>

**Remarks:**

Field Support Engineering (FSE) personnel provide training and logistics support for soldiers' ability to plan, configure, monitor, manage, and sustain the JENM radio network. Network Management Reference Implementation Laboratory (NM RIL) provides help desk support, software and integration updates, engineering change management, and software integration onto the deployed hardware platform.

<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	3.904	0.930	1.967	-	1.967
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	3.904	0.930	1.967	-	1.967

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9705BA9301 / Network Management Initialization and Services	<b>Item Number / Title [DODIC]:</b> BA9312 / NETWORK MANAGEMENT SYSTEM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	62.264	5.230	21.625	25.324	-	25.324
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	62.264	5.230	21.625	25.324	-	25.324
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>62.264</b>	<b>5.230</b>	<b>21.625</b>	<b>25.324</b>	<b>-</b>	<b>25.324</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	28.678	-	-	0.415	-	-	2.204	-	-	2.353	-	-	-	-	-	2.353
Systems Engineering	-	-	26.074	-	-	3.628	-	-	6.046	-	-	6.460	-	-	-	-	-	6.460
Integration & Testing	-	-	4.230	-	-	1.187	-	-	1.151	-	-	0.761	-	-	-	-	-	0.761
<i>Subtotal: Recurring Cost</i>	-	-	<b>58.982</b>	-	-	<b>5.230</b>	-	-	<b>9.401</b>	-	-	<b>9.574</b>	-	-	-	-	-	<b>9.574</b>
<i>Subtotal: Flyaway Cost</i>	-	-	<b>58.982</b>	-	-	<b>5.230</b>	-	-	<b>9.401</b>	-	-	<b>9.574</b>	-	-	-	-	-	<b>9.574</b>

Hardware Cost																		
Recurring Cost																		
Ruggedized Application Platform ? Tactical Radios (RAP-TR) Laptop	5.343	324	1.731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	5.113	539	2.756	-	-	-	5.113	539	2.756
Ruggedized Application Platform ? Tactical Radios (RAP-TR) Tablet Cases	0.300	283	0.085	-	-	-	0.247	546	0.135	0.356	539	0.192	-	-	-	0.356	539	0.192

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9705BA9301 / Network Management Initialization and Services	<b>Item Number / Title [DODIC]:</b> BA9312 / NETWORK MANAGEMENT SYSTEM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	0.115	-	-	-	-	-	0.115
<i>Subtotal: Recurring Cost</i>	-	-	3.282	-	-	-	-	-	2.971	-	-	3.063	-	-	-	-	-	3.063
<i>Subtotal: Hardware Cost</i>	-	-	3.282	-	-	-	-	-	2.971	-	-	3.063	-	-	-	-	-	3.063
Software Cost																		
Recurring Cost																		
Licensing	-	-	-	-	-	-	-	-	5.722	-	-	2.768	-	-	-	-	-	2.768
PDSS	-	-	-	-	-	-	-	-	1.091	-	-	5.682	-	-	-	-	-	5.682
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	6.813	-	-	8.450	-	-	-	-	-	8.450
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	6.813	-	-	8.450	-	-	-	-	-	8.450
Logistics Cost																		
Recurring Cost																		
Log/Training	-	-	-	-	-	-	-	-	2.440	-	-	4.237	-	-	-	-	-	4.237
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.440	-	-	4.237	-	-	-	-	-	4.237
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	2.440	-	-	4.237	-	-	-	-	-	4.237
<b>Gross/Weapon System Cost</b>	-	-	62.264	-	-	5.230	-	-	21.625	-	-	25.324	-	-	-	-	-	25.324

**Remarks:**  
 FY 2023 costs increased largely driven by increased Post Deployment Software Support (PDSS) for systems fielded in FY22 and FY23, to include additional software capabilities planned to be incorporated within the RAP-TR software baseline in FY23. PDSS support costs increased from \$1.091M to \$5.682M in FY23. Additionally, costs increased for Log/Training driven by increased fielding targets beginning in FY23. Log/Training costs increased from \$2.440M to \$4.237M in FY23.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	5.230	21.309	25.324	-	25.324
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.216	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.100	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	5.230	21.625	25.324	-	25.324

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9705BA9301 / Network Management Initialization and Services	<b>Item Number / Title [DODIC]:</b> BA9315 / DATA PRODUCTS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	311.239	9.517	8.794	9.908	-	9.908
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	311.239	9.517	8.794	9.908	-	9.908
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>311.239</b>	<b>9.517</b>	<b>8.794</b>	<b>9.908</b>	<b>-</b>	<b>9.908</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	210.989	-	-	8.058	-	-	7.446	-	-	8.389	-	-	-	-	-	8.389
Test	-	-	14.647	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMO	-	-	58.735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	24.838	-	-	0.777	-	-	0.718	-	-	0.809	-	-	-	-	-	0.809
<i>Subtotal: Recurring Cost</i>	-	-	<i>309.209</i>	-	-	<i>8.835</i>	-	-	<i>8.164</i>	-	-	<i>9.198</i>	-	-	-	-	-	<i>9.198</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>309.209</i>	-	-	<i>8.835</i>	-	-	<i>8.164</i>	-	-	<i>9.198</i>	-	-	-	-	-	<i>9.198</i>
Support - System Engineering Cost																		
System Engineering	-	-	2.030	-	-	0.682	-	-	0.630	-	-	0.710	-	-	-	-	-	0.710
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>2.030</i>	-	-	<i>0.682</i>	-	-	<i>0.630</i>	-	-	<i>0.710</i>	-	-	-	-	-	<i>0.710</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>311.239</b>	-	-	<b>9.517</b>	-	-	<b>8.794</b>	-	-	<b>9.908</b>	-	-	-	-	-	<b>9.908</b>

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	9.517	8.794	9.908	-	9.908
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	<b>9.517</b>	<b>8.794</b>	<b>9.908</b>	<b>-</b>	<b>9.908</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9875W30001 / Global Combat Support System-Army (GCSS-A)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	70.677	2.792	11.271	4.102	-	4.102	-	-	-	-	-	88.842
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	70.677	2.792	11.271	4.102	-	4.102	-	-	-	-	-	88.842
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>70.677</b>	<b>2.792</b>	<b>11.271</b>	<b>4.102</b>	<b>-</b>	<b>4.102</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>88.842</b>

*(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 to 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 and logistics, 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 near-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 complete deployment, training, and fielding for three of the five Enterprise Aviation Release 2 Capability Drops in FY 2023. Capability Drop 2.3 (Technical Supply Integration and Aircraft Historical Records) will begin fielding to all Army Aviation units across all three COMPOS Q3 FY 2022 and will continue through September 2023. This fielding effort will require boots on the ground training for 395 units affected by this capability enhancement in 170 locations worldwide. Release 2 Capability Drop 2.4 (Aircraft Historical Records - As-Maintained Equipment) will be released Q4 FY 2022 and will replace a legacy interface to allow "As-Maintained Equipment" Aircraft Historical Records data to flow from the Aircraft Notebook to GCSS-Army. While no formal fielding is required for CD 2.4, this effort will be included in the training portion of CD 2.5. Release 2 Capability Drop 2.5 (Directed Maintenance Actions, Modification Work Orders, and remaining Aircraft Historical Records) will initiate fielding efforts Q4 FY 2022 and will continue through September 2023. Similar to Capability Drop 2.3, this effort will require boots on the ground training for 395 units affected by this capability enhancement in 170 locations worldwide.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.792	11.271	4.102	-	4.102	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9875W30001 / Global Combat Support System-Army (GCSS-A)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	2.792	11.271	4.102	-	4.102	-	-	-	-

**Justification:**  
FY 2023 Base Procurement dollars in the amount of \$4.102 million will support GCSS-ARMY INC 2 and will be used for deployment/fielding of Release 2, Wave 1 Enterprise Aviation (EAVN).

Wave 1 Enterprise Aviation will complete deployment, training, and fielding for three of the five Enterprise Aviation Release 2 Capability Drops across all three COMPOS during FY 2023. Capability Drop 2.3 (Technical Supply Integration and Aircraft Historical Records) will begin fielding to all Army Aviation units Q3 FY 2022 and continue through September 2023. This fielding effort will require boots on the ground training for 395 units affected by this capability enhancement at 170 locations worldwide. Release 2 Capability Drop 2.4 (Aircraft Historical Records - As-Maintained Equipment) will be released Q4 FY 2022 and will replace a legacy interface to allow "As-Maintained Equipment" Aircraft Historical Records data to flow from the Aircraft Notebook to GCSS-Army. While no formal fielding is required for CD 2.4, this effort will be included in the training portion of CD 2.5. Release 2 Capability Drop 2.5 (Directed Maintenance Actions, Modification Work Orders, and remaining Aircraft Historical Records) will initiate fielding efforts Q4 FY 2022 and continue through September 2023. Similar to Capability Drop 2.3, this effort will require boots on the ground training for 395 units affected by this capability enhancement at 170 locations worldwide. FY 2023 OPA funds will be used to staff the training and fielding teams and cover the deployment/travel costs for fielding of these capabilities 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 simultaneously rather than multiple visits for each enhancement).

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 FY2023 funding request.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605018A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	72.696	9.071	16.077	6.926	-	6.926	7.022	9.146	5.648	5.646	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	72.696	9.071	16.077	6.926	-	6.926	7.022	9.146	5.648	5.646	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>72.696</b>	<b>9.071</b>	<b>16.077</b>	<b>6.926</b>	<b>-</b>	<b>6.926</b>	<b>7.022</b>	<b>9.146</b>	<b>5.648</b>	<b>5.646</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 September 2022. 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 in 2QFY27. 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 delivering 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	9.071	16.077	6.926	-	6.926	7.022	9.146	5.648	5.646

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					<b>P-1 Line Item Number / Title:</b> 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0605018A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	9.071	16.077	6.926	-	6.926	7.022	9.146	5.648	5.646

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**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / 72.696	- / 9.071	- / 16.077	- / 6.926	- / -	- / 6.926
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 72.696</b>	<b>- / 9.071</b>	<b>- / 16.077</b>	<b>- / 6.926</b>	<b>- / -</b>	<b>- / 6.926</b>

\*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 2023 Base procurement dollars in the amount of \$6.926 million supports continued Release 3 system implementation, training, instruction, and deployment of the Integrated Personnel and Pay System-Army Increment II (IPPS-A Inc II) for all Army components (Army, National Guard, Reserves - 48,700 total Human Resource transactional users).

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	<b>Item Number / Title [DODIC]:</b> B66706 / IPPS-A INC 2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				72.696	9.071	16.077	6.926	-	6.926
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				72.696	9.071	16.077	6.926	-	6.926
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>72.696</b>	<b>9.071</b>	<b>16.077</b>	<b>6.926</b>	<b>-</b>	<b>6.926</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<b>12.933</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Non Recurring Cost																		
System Infrastructure Hardware	4,037.000	1	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	<b>4.037</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package Fielding Cost																		
Recurring Cost																		
New Equipment Training <sup>(†)</sup>	11,145.200	5	55.726	9,071.000	1	9.071	16,077.000	1	16.077	6,926.000	1	6.926	-	-	-	6,926.000	1	6.926
<i>Subtotal: Recurring Cost</i>	-	-	55.726	-	-	9.071	-	-	16.077	-	-	6.926	-	-	-	-	-	6.926
<i>Subtotal: Package Fielding Cost</i>	-	-	<b>55.726</b>	-	-	<b>9.071</b>	-	-	<b>16.077</b>	-	-	<b>6.926</b>	-	-	-	-	-	<b>6.926</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>72.696</b>	-	-	<b>9.071</b>	-	-	<b>16.077</b>	-	-	<b>6.926</b>	-	-	-	-	-	<b>6.926</b>

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89	<b>P-1 Line Item Number / Title:</b> 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	<b>Item Number / Title [DODIC]:</b> B66706 / IPPS-A INC 2

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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**Remarks:**  
The decrease in Fiscal Year 2023 (FY23) B66706000 (Other Procurement, Army) funding is due to completion of R3 pre-deployment training in FY22.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	9.071	16.077	6.926	-	6.926
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>9.071</b>	<b>16.077</b>	<b>6.926</b>	-	<b>6.926</b>

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 89			<b>P-1 Line Item Number / Title:</b> 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)				<b>Item Number / Title [DODIC]:</b> B66706 / IPPS-A INC 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
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		
New Equipment Training		2023	VAR / VAR	Option / CPFF	ACC-NJ	Nov 2022	Dec 2022	1	6,926.000	Y		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9966BZ9966 / Reconnaissance and Surveying Instrument Set
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	148	103	-	-	-	-	-	-	-	-	-	251
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	146.882	12.117	-	-	-	-	-	-	-	-	-	158.999
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	146.882	12.117	-	-	-	-	-	-	-	-	-	158.999
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>146.882</b>	<b>12.117</b>	-	-	-	-	-	-	-	-	-	<b>158.999</b>

*(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> )	992.446	117.641	-	-	-	-	-	-	-	-	-	633.462

**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 (CJMTK) 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					<b>P-1 Line Item Number / Title:</b> 9966BZ9966 / Reconnaissance and Surveying Instrument Set					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	18	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.327	-	-	-	-	-	-	-	-
ANG	Quantity	40	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.195	-	-	-	-	-	-	-	-
AR	Quantity	45	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.595	-	-	-	-	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>103</b>	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>12.117</b>	-	-	-	-	-	-	-	-

**Justification:**

BZ9966 has no funding request in FY 2023.

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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9971B99901 / MOD of In-Svc Equipment (ENFIRE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	647	0	130	69	-	69	70	70	70	70	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	20.364	14.004	14.560	4.076	-	4.076	5.099	5.103	5.117	5.115	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	20.364	14.004	14.560	4.076	-	4.076	5.099	5.103	5.117	5.115	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>20.364</b>	<b>14.004</b>	<b>14.560</b>	<b>4.076</b>	<b>-</b>	<b>4.076</b>	<b>5.099</b>	<b>5.103</b>	<b>5.117</b>	<b>5.115</b>	<b>Continuing</b>	<b>Continuing</b>

*(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> )	31.474	-	112.000	59.072	-	59.072	72.843	72.900	73.100	73.071	Continuing	Continuing

**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. ENFIRE Army Acquisition Objective (AAO) = 2883

**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. GPS-S AAO: 773

**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. AISI AAO: 430

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	<b>P-1 Line Item Number / Title:</b> 9971B99901 / MOD of In-Svc Equipment (ENFIRE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Note: ENFIRE, GPS-S and AISI Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

	<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Army	Quantity	-	130	69	-	69	70	70	70	70
	Total Obligation Authority	14.004	14.560	4.076	-	4.076	5.099	5.103	5.117	5.115
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>130</b>	<b>69</b>	<b>-</b>	<b>69</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>
	<b>Total Obligation Authority</b>	<b>14.004</b>	<b>14.560</b>	<b>4.076</b>	<b>-</b>	<b>4.076</b>	<b>5.099</b>	<b>5.103</b>	<b>5.117</b>	<b>5.115</b>

**Justification:**  
 FY 2023 Base procurement dollars in the amount of \$4.076 million will support tech refresh of up to 69 ENFIRE systems.

Note: 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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	378.249	19.262	12.333	8.033	-	8.033	12.221	15.458	15.674	15.823	-	477.053
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	378.249	19.262	12.333	8.033	-	8.033	12.221	15.458	15.674	15.823	-	477.053
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>378.249</b>	<b>19.262</b>	<b>12.333</b>	<b>8.033</b>	-	<b>8.033</b>	<b>12.221</b>	<b>15.458</b>	<b>15.674</b>	<b>15.823</b>	-	<b>477.053</b>

*(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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 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).

	<b>Secondary Distribution</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.262	12.333	8.033	-	8.033	12.221	15.458	15.674	15.823
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>19.262</b>	<b>12.333</b>	<b>8.033</b>	-	<b>8.033</b>	<b>12.221</b>	<b>15.458</b>	<b>15.674</b>	<b>15.823</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / 76.643	- / 4.640	- / 4.586	- / 3.701	- / -	- / 3.701
P-5	BE4172 / OTHER TRAINING MODERNIZATION	P-5a			- / 78.042	- / 4.688	- / -	- / -	- / -	- / -
P-5	BE4173 / Distributed Learning System (DLS)	P-5a			- / 223.564	- / 9.934	- / 7.747	- / 4.332	- / -	- / 4.332
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 378.249</b>	<b>- / 19.262</b>	<b>- / 12.333</b>	<b>- / 8.033</b>	<b>- / -</b>	<b>- / 8.033</b>

\*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 2023 (BE4171) Base procurement dollars in the amount of \$3.701 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 FY2023 funding request.

FY2023 (BE4173) Base procurement dollars in the amount of \$4.332 million funds the ISEC Engineering Support, the DLS Enterprise Technology Refreshment (Tech Refresh) program in support of all increments (187 Digital Training Facilities (DTF), 94 Mobile Digital Training Facility (MDTF), Enterprise Management Center (EMC), Army Learning Management System (ALMS), and 20 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.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization
		<b>Item Number / Title [DODIC]:</b> BE4171 / DISTRIBUTIVE TRAINING TECHNOLOGY

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	76.643	4.640	4.586	3.701	-	3.701
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	76.643	4.640	4.586	3.701	-	3.701
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>76.643</b>	<b>4.640</b>	<b>4.586</b>	<b>3.701</b>	<b>-</b>	<b>3.701</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	76,643.000	1	76.643	4,640.000	1	4.640	4,586.000	1	4.586	3,701.000	1	3.701	-	-	-	3,701.000	1	3.701
<i>Subtotal: Recurring Cost</i>	-	-	76.643	-	-	4.640	-	-	4.586	-	-	3.701	-	-	-	-	-	3.701
<i>Subtotal: Flyaway Cost</i>	-	-	76.643	-	-	4.640	-	-	4.586	-	-	3.701	-	-	-	-	-	3.701
<b>Gross/Weapon System Cost</b>	-	-	<b>76.643</b>	-	-	<b>4.640</b>	-	-	<b>4.586</b>	-	-	<b>3.701</b>	-	-	-	-	-	<b>3.701</b>

**Remarks:**

Funding decreased from FY 2022 to FY 2023 due to adjustment in priorities for technical refresh of the Army National Guard/Reserve sites.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	4.640	4.586	3.701	-	3.701
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	4.640	4.586	3.701	-	3.701

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization
		<b>Item Number / Title [DODIC]:</b> BE4172 / OTHER TRAINING MODERNIZATION

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	78.042	4.688	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	78.042	4.688	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>78.042</b>	<b>4.688</b>	-	-	-	-

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	34,509.000	2	69.018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAICoE MI Systems IMT <sup>(†)</sup>	4,382.000	1	4.382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAICoE MI Systems Training <sup>(†)</sup>	4,642.000	1	4.642	-	-	4.688	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	78.042	-	-	4.688	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	78.042	-	-	4.688	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>78.042</b>	-	-	<b>4.688</b>	-	-	-	-	-	-	-	-	-	-	-	-

**Remarks:**  
BE4172 has no FY2022 funding request.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.688	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization	<b>Item Number / Title [DODIC]:</b> BE4172 / OTHER TRAINING MODERNIZATION

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	4.688	-	-	-	-

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92			<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization				<b>Item Number / Title [DODIC]:</b> 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		

**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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization	<b>Item Number / Title [DODIC]:</b> BE4173 / Distributed Learning System (DLS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				223.564	9.934	7.747	4.332	-	4.332
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				223.564	9.934	7.747	4.332	-	4.332
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>223.564</b>	<b>9.934</b>	<b>7.747</b>	<b>4.332</b>	<b>-</b>	<b>4.332</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	13,108.200	5	65.541	848.000	1	0.848	850.000	1	0.850	805.000	1	0.805	-	-	-	805.000	1	0.805
Army Learning Management System <sup>(†)</sup>	9,201.000	5	46.005	1,738.000	1	1.738	1,269.000	1	1.269	1,036.000	1	1.036	-	-	-	1,036.000	1	1.036
Enterprise Technology Refreshment <sup>(†)</sup>	22,403.600	5	112.018	7,348.000	1	7.348	3,128.000	1	3.128	2,491.000	1	2.491	-	-	-	2,491.000	1	2.491
<i>Subtotal: Recurring Cost</i>	-	-	223.564	-	-	9.934	-	-	5.247	-	-	4.332	-	-	-	-	-	4.332
Non Recurring Cost																		
C-UAS Training Facility add	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	223.564	-	-	9.934	-	-	7.747	-	-	4.332	-	-	-	-	-	4.332
<b>Gross/Weapon System Cost</b>	-	-	223.564	-	-	9.934	-	-	7.747	-	-	4.332	-	-	-	-	-	4.332

**Remarks:**

This funding line received a Congressional add in FY 2022 of \$2.5M for C-UAS Training Facility. Funding will be obligated/executed by TRADOC.



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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3001BE4169 / Army Training Modernization	<b>Item Number / Title [DODIC]:</b> BE4173 / Distributed Learning System (DLS)

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	9.934	7.747	4.332	-	4.332
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	9.934	7.747	4.332	-	4.332

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

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
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		
System Fielding & Implementation		2023	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft. Detrick, MD	Oct 2022	Nov 2022	1	805.000	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		
Army Learning Management System		2023	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft. Eustis, VA	Jun 2023	Jul 2023	1	1,036.000	N		
Enterprise Technology Refreshment		2018	CDW Government LLC / Vernon Hills, IL	C / FFP	MICC, Ft Eustis, VA	May 2018	May 2018	1	1,151.000	Y		
Enterprise Technology Refreshment		2019	Integration Technologies / Falls Church, VA	C / FFP	MICC, Ft Eustis, VA	May 2019	May 2019	1	3,068.000	Y		
Enterprise Technology Refreshment		2020	Integration Technologies / Falls Church, VA	C / FFP	MICC, Ft Eustis, VA	Apr 2020	Apr 2020	1	1,342.000	Y		
Enterprise Technology Refreshment		2021	To Be Determined / TBD	C / FFP	MICC, Ft. Eustis, VA	Apr 2021	Apr 2021	1	7,348.000	N		
Enterprise Technology Refreshment		2022	To Be Determined / TBD	C / FFP	MICC, Ft. Eustis, VA	Jan 2022	Feb 2022	1	3,128.000	N		
Enterprise Technology Refreshment		2023	Various Vendors ** / Various Locations	C / FFP	MICC, Ft. Eustis, VA	Jan 2023	Feb 2023	1	2,491.000	N		

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605013A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3,745.156	140.971	130.924	96.554	-	96.554	117.917	114.217	119.567	99.674	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,745.156	140.971	130.924	96.554	-	96.554	117.917	114.217	119.567	99.674	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3,745.156</b>	<b>140.971</b>	<b>130.924</b>	<b>96.554</b>	<b>-</b>	<b>96.554</b>	<b>117.917</b>	<b>114.217</b>	<b>119.567</b>	<b>99.674</b>	<b>Continuing</b>	<b>Continuing</b>

*(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:**

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, USMIRS, 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 308 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, 9.1 million personnel files are supported by iPERMS and the number of supported records and associated documents historically grows 2-4% annually. The system also supports other activities such as the Department of Veteran Affairs, Department of Labor, and Federal, State, and local Law Enforcement agencies. iPERMS is an enduring application that currently interfaces directly with IPPS-A, and is not scheduled to be subsumed. This program is linked to RDTE Program Element 0605013A, Information Technology Development, Project Number FM7, Project Title Human Resources Information Technology.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605013A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<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 SOUTHCOM 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>FORSCOM National Training Center (NTC): The NTC Operations Group Network equipment replacement in order for the notional Division to effectively mission command the rotational units. The 52ID Network Equipment supports the SIPR mission command for all systems and simulation feeds. The systems connect via 52ID Army Battle Command Systems (ABCS), Command Post of the Future (CPOF), Combat Training Center - Instrumentation System (CTC-IS), and feeds the Closed Circuit Television (CCTV) as well as connections to remote sites to support CTC missions. This system is responsible for maintaining high level control of the rotational Brigade Combat Team (BCT) allowing the BCT to conduct decisive action, follow spectrum maneuver, and multi-domain operations. This network is built to evolve our force, and our operations focusing on three core tenets, calibrated force posture, multi-domain formations, and convergence. An updated mission command network fully achieves the three tenets just identified. Without this fully developed and modernized system, deployable forces will not be able to synchronize its capabilities and joint force development will be at an extreme risk.</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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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605013A
<b>Line Item MDAP/MAIS Code:</b> 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><b>BATTLE LAB COLLABORATIVE SIMULATION ENVIRONMENT (BLCSE):</b> 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><b>ARMY TRAINING INFORMATION ARCHITECTURE (ATIA):</b> 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><b>ACADEMIC NETWORK TECHNOLOGY REFRESHMENT (ANTR):</b> 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 ANTR 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 for technology refreshment to ensure the continued functionality of the enterprise architecture, and that all hardware and software installed on the network are properly updated, accredited and life cycled. This will be accomplished through the replacement of end-of-life network distribution layer, edge devices, and load balancers with new equipment to continue providing better learning opportunities to the total force to access immersive training events delivered via the web and mobile applications as well as language training detachments.</p> <p><b>U.S. ARMY CYBER CENTER OF EXCELLENCE VIRTUAL TRAINING NETWORK (CVTN)</b> (formerly U.S. ARMY CYBER CENTER OF EXCELLENCE VIRTUAL TRAINING AREA NETWORK (CVTAN)): The CVTN 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 CVTN 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 CVTN was developed entirely by uniformed personnel using open-source as well as commercial tools and 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 CVTN 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. This environment also has an external capabilities established as a component of new facilities which established a NIPR/SIPR and JWICS VDI capability eventually this capability will be exported from this system into a new enterprise capability.</p> <p><b>U.S. AFRICA COMMAND (AFRICOM) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE):</b> The AFRICOM ADPE systems 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><b>U.S. SOUTHERN COMMAND (SOUTHCOM) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE):</b> 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 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> <p><b>U.S. EUROPEAN COMMAND (EUCOM) JOINT OPERATIONS CENTER (JOC):</b> 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>		

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605013A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<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.</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. This program has no requirements in FY2023.</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. This program has no requirements in FY2023.</p> <p>U.S. ARMY EUROPE (USAREUR) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) OCO EDI: 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 FY2023.</p> <p>PERSONNEL AUTOMATION SYSTEMS (BE4164):</p> <p>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), and the Defense Casualty Information Processing System (DCIPS). The PES-A supports the readiness and well-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</p>		

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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605013A

**Line Item MDAP/MAIS Code:** N/A

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.

TRANSITION ASSISTANCE PROGRAM XXI (TAP XXI): The 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 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 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.

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.

PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175):  
 US MILITARY ACADEMY (USMA) INFORMATION TECHNOLOGY (IT): The USMA is an accredited institution of higher learning graduating and commissioning approximately 1,000 officers 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 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 accomplish its mission to educate, train, and inspire cadets to be commissioned leaders of character, USMA integrates IT in all facilities to include cadet barracks, administrative buildings, academic buildings, athletic venues, and in the training areas and camps. . The USMA IT is essential to every aspect of education, training, and cadet life. IT also enables Command and Control (C2) in coordination with the US Army Garrison, West Point. The USMA IT supports the Army's People Strategy and Talent Management in acquiring, developing, employing, and retaining both cadets and the staff and faculty.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	140.971	130.924	96.554	-	96.554	117.917	114.217	119.567	99.674
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>140.971</b>	<b>130.924</b>	<b>96.554</b>	-	<b>96.554</b>	<b>117.917</b>	<b>114.217</b>	<b>119.567</b>	<b>99.674</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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		- / 107.399	- / 5.505	- / 1.792	- / 2.675	- / -	- / 2.675
P-5	BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS	P-5a			- / 1,033.592	- / 27.251	- / 26.969	- / 20.464	- / -	- / 20.464
P-5	BE4162 / MACOM AUTOMATION SYSTEMS	P-5a			- / 1,645.422	- / 63.648	- / 49.794	- / 46.433	- / -	- / 46.433
P-5	BE4164 / PERSONNEL AUTOMATION SYSTEMS	P-5a			- / 935.559	- / 41.030	- / 43.229	- / 23.015	- / -	- / 23.015
P-5	BE4175 / Personnel Automation Systems - West Point	P-5a			- / 23.184	- / 3.537	- / 9.140	- / 3.967	- / -	- / 3.967
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 3,745.156</b>	<b>- / 140.971</b>	<b>- / 130.924</b>	<b>- / 96.554</b>	<b>- / -</b>	<b>- / 96.554</b>

\*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):**  
 FY2023 Base procurement dollars in the amount of \$2.675 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. iPERMS funding increase is based on life cycle requirement for iPERMS and iPERMS-S (SIPR COOP) hardware/software replacement should funding for cloud migration shift to later fiscal years.

**HQ MANAGEMENT INFORMATION SYSTEMS (BE4161):**  
 FY2023 Base procurement dollars in the amount of \$1.273 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. For USACRC Data Center: servers, systems components, and related peripherals.  
 FY2023 Base procurement dollars in the amount of \$7.988 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. Europe Command and the Raven Rock Mountain Complex (Site R).  
 FY2023 Base procurement dollars in the amount of \$9.402 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.  
 USKF FY2022 to FY2023 funding decreased is due to the initial fielding of IT equipment and infrastructure of CENTRIX-K operations at the new command center on Camp Humphreys in FY2022.  
 FY2023 Base procurement dollars in the amount of \$1.801 million supports ARSOUTH HQ with lifecycle replacement of the communication and automation systems within the Command Post with a Commercial Off The Shelf (COTS) solution. ARSOUTH must be prepared to replace the existing systems with a COTS solution prior to the current program going end of support (EoS). This solution provides the command with an interoperable, and scalable integrated Command, Control, Communications, and Computers (C4) capability that provides the ability to rapidly activate with a common package that allows the Warfighter to sustain operations and command and control deployed forces for days or weeks. This is in support of the Requirement for Operation Guantanamo Bay (GTMO).

**MACOM AUTOMATION SYSTEMS (BE4162):**  
 FY2023 Base procurement dollars in the amount of \$3.633 million support ACI to procure hardware and software for one (1) Army Enterprise Data Centers (AEDC) located at Schofield Barracks (Pacific). ACI FY2022 to FY2023 funding decrease is due to anticipated assignment of a PEO program manager to execute future funding initiatives.



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605013A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>FY2023 Base procurement dollars in the amount of \$6.841 million support BLCSE with critical infrastructure hardware required to support lab-based risk reduction for Project Convergence and other Army Experimentation events, which includes servers, switches, and routers. It also provides for 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 replicate future technologies and network configurations.</p> <p>FY2023 Base procurement dollars in the amount of \$0.857 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>FY2023 Base procurement dollars in the amount of \$1.257 million support ANTR with network equipment including servers, routers, switches, wireless access points, firewalls, Storage Area Network (SAN), and fiber optic cable.</p> <p>FY2023 Base procurement dollars in the amount of \$9.976 million support CVTN with network equipment including servers, routers, switches, wireless access points, firewalls, and fiber optic cable. CVTN FY2022 to FY2023 funding increase is due to an increase of equipment that is past end of life and requires modernization. These systems/and access to the systems have to be modernized to enable the Cyber's new training modality.</p> <p>FY2023 Base procurement dollars in the amount of \$4.818 million support AFRICOM ADPE with servers, storage, appliances, unified communications systems, video processing systems, and associated network interfaces.</p> <p>FY2023 Base procurement dollars in the amount of \$7.898 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. SOUTHCOM FY2022 to FY2023 funding increase supports bringing the 2nd Uninterrupted Power Supply (UPS) grid system in the USSOUTHCOM Installation Processing Node (IPN) up to full mission capable status. Currently, only grid B UPS in the USSOUTHCOM IPN is fully mission capable. A/B (dual) UPS grid system is a requisite for full Command, Control, and Communications redundancy. USSOUTHCOM's IPN supports Command and Control missions of subordinate units while supporting communications with higher commands.</p> <p>FY2023 Base procurement dollars in the amount of \$5.033 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>FY2023 Base procurement dollars of \$6.120 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 requirements for European Deterrence Initiative (EDI).</p> <p><b>PERSONNEL AUTOMATION SYSTEMS (BE4164):</b>  FY2023 Base procurement dollars in the amount of \$17.161 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 and cloud migration. PES-A FY2022 to FY2023 funding decrease is justified by the completion of the cloud modernization hardware and software procurement in FY2022. HRC datacenter  FY2023 requirements support sustainment-level procurement for cloud modernization/migration efforts and legacy systems until subsumed by IPPS-A or AIE.  FY2023 Base procurement dollars in the amount of \$5.191 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. USMIRS FY2022 to FY2023 funding decrease is due to the estimated costs for sub-systems using a five-year lifecycle for each component. The FY22 requirement is based on cost estimates for replacement of file/print servers and network switches at all USMEPCOM locations. The FY2023 requirement is based on estimate costs for the lifecycle replacement of Wireless Intrusion Detection System and Network Load Balancer hardware. As all like sub-system components are replaced simultaneously, yearly costs vary depending on the sub-systems being replaced.  FY2023 Base procurement dollars in the amount of \$0.663 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, improve system response times, and cArmy cloud modernization.</p> <p><b>PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175):</b>  FY2023 Base procurement dollars in the amount of \$3.967 million support USMA IT academic audio/visual equipment and computing capabilities for academic facilities and computer lab infrastructure (including digital signage, the classroom scheduling platform and collaborative classroom integration). Funding supports modernization of the Academy Management System Enterprise Resource Planning (ERP);</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605013A
<b>Line Item MDAP/MAIS Code:</b> N/A		
Distributed Antenna System (DAS); incorporation of 5G cellular/data; multi-functional device and copier lifecycle; and network/systems modernization for hardware/software within the West Point Research and Education Network (WREN).		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>													<b>Date:</b> April 2022								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92					<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip							<b>Item Number / Title [DODIC]:</b> BD3956 / OPTICAL DIGITAL EQUIP									
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A							<b>MDAP/MAIS Code:</b>														
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>			
Procurement Quantity (Units in Each)				-		-			-			-			-			-			
Gross/Weapon System Cost (\$ in Millions)				107.399		5.505			1.792			2.675			-			2.675			
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-			-			
Net Procurement (P-1) (\$ in Millions)				107.399		5.505			1.792			2.675			-			2.675			
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-			-			
<b>Total Obligation Authority (\$ in Millions)</b>				<b>107.399</b>		<b>5.505</b>			<b>1.792</b>			<b>2.675</b>			<b>-</b>			<b>2.675</b>			
<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.																					
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>					
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>			
Hardware Cost																					
Recurring Cost																					
(ARIMS) Hardware	3,071.800	5	15.359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
(iPERMS) Hardware <sup>(†)</sup>	1,162.000	1	1.162	5,505.000	1	5.505	1,443.000	1	1.443	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Recurring Cost</i>	-	-	16.521	-	-	5.505	-	-	1.443	-	-	-	-	-	-	-	-	-			
Non Recurring Cost																					
(iPERMS) Hardware <sup>(†)</sup>	22,540.500	4	90.162	-	-	-	-	-	-	2,675.000	1	2.675	-	-	-	2,675.000	1	2.675			
<i>Subtotal: Non Recurring Cost</i>	-	-	90.162	-	-	-	-	-	-	-	-	2.675	-	-	-	-	-	2.675			
<i>Subtotal: Hardware Cost</i>	-	-	106.683	-	-	5.505	-	-	1.443	-	-	2.675	-	-	-	-	-	2.675			
Software Cost																					
Non Recurring Cost																					
(iPERMS) Software <sup>(†)</sup>	716.000	1	0.716	-	-	-	349.000	1	0.349	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Non Recurring Cost</i>	-	-	0.716	-	-	-	-	-	0.349	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Software Cost</i>	-	-	0.716	-	-	-	-	-	0.349	-	-	-	-	-	-	-	-	-			
<b>Gross/Weapon System Cost</b>	-	-	107.399	-	-	5.505	-	-	1.792	-	-	2.675	-	-	-	-	-	2.675			
<b>Secondary Distribution</b>				<b>FY 2021</b>					<b>FY 2022</b>					<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>	
Army	Quantity			-					-					-			-			-	

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> BD3956 / OPTICAL DIGITAL EQUIP
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Secondary Distribution</b>						
	Total Obligation Authority	5.505	1.792	2.675	-	2.675
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	5.505	1.792	2.675	-	2.675

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> 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
(iPERMS) Hardware		2021	Iron Bow Technologies, LLC / Herndon, VA	C / FFP	ACC-RI, Rock Island, IL	Aug 2021	Aug 2021	1	5,505.000	Y		
(iPERMS) Hardware		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2022	Jul 2022	1	1,443.000	N		
(iPERMS) Hardware		2023	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2023	Jun 2023	1	2,675.000	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
		<b>Item Number / Title [DODIC]:</b> BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				1,033.592	27.251	26.969	20.464	-	20.464
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				1,033.592	27.251	26.969	20.464	-	20.464
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>1,033.592</b>	<b>27.251</b>	<b>26.969</b>	<b>20.464</b>	<b>-</b>	<b>20.464</b>
<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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
USFK Hardware <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	5,077.000	1	5,077	-	-	-	5,077.000	1	5,077
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5,077	-	-	-	-	-	5,077
Non Recurring Cost																		
(HQDA ADPE) Hardware	18,568.000	2	37.136	1,549.000	1	1.549	-	-	-	-	-	-	-	-	-	-	-	-
(PITI) Hardware	739,549.000	1	739.549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(DCIN/PCIS) Hardware	10,102.000	1	10.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCC Hardware <sup>(†)</sup>	8,898.000	5	44.490	8,192.000	1	8.192	8,002.000	1	8.002	7,988.000	1	7.988	-	-	-	7,988.000	1	7.988
-Army Operations Center (AOC) (Pentagon)	2,053.000	1	2.053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-Joint Special Operations Center (JSOC)	843.000	1	0.843	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USFK Hardware <sup>(†)</sup>	10,377.000	3	31.131	6,845.000	1	6.845	12,811.000	1	12.811	4,325.000	1	4.325	-	-	-	4,325.000	1	4.325
Domain and VTC Bridge	500.000	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORSCOM Hardware <sup>(†)</sup>	2,082.000	1	2.082	900.000	1	0.900	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
(HQDA ADPE) USACRC Hardware <sup>(t)</sup>	1,380.667	3	4.142	1,549.000	1	1.549	1,393.000	1	1.393	1,273.000	1	1.273	-	-	-	1,273.000	1	1.273
(HQDA ADPE) G3 Hardware	729.000	1	0.729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRADOC CCOE Cyber Initiatives OCO	5,140.000	1	5.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 <sup>(t)</sup>	-	-	-	2,216.000	1	2.216	-	-	-	-	-	-	-	-	-	-	-	-
ARSOUTH HQ LCR <sup>(t)</sup>	1,270.000	1	1.270	-	-	-	4,763.000	1	4.763	1,801.000	1	1.801	-	-	-	1,801.000	1	1.801
ARSOUTH JTF-MIGOPS GTMO LCR OCO <sup>(t)</sup>	-	-	-	484.000	1	0.484	-	-	-	-	-	-	-	-	-	-	-	-
Korea DODIN-A	6,330.000	1	6.330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USARPAC Multi Control Unit	1,224.500	2	2.449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARCYBER JMS/GEF Integration	3,872.000	1	3.872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARCENT VDI Refresh	3,389.000	1	3.389	5,516.000	1	5.516	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	948.120	-	-	27.251	-	-	26.969	-	-	15.387	-	-	-	-	-	15.387
<i>Subtotal: Hardware Cost</i>	-	-	948.120	-	-	27.251	-	-	26.969	-	-	20.464	-	-	-	-	-	20.464
<b>Software Cost</b>																		
<b>Non Recurring Cost</b>																		
(HQDA ADPE) Software	2,256.500	2	4.513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
(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																		
Contractor Management	1,706.333	3	5.119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	5.119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	1,033.592	-	-	27.251	-	-	26.969	-	-	20.464	-	-	-	-	-	20.464

**Remarks:**

Quantities reflected on P-5 refer to total system cost by Cost Element rather than individual system components.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	27.251	26.969	20.464	-	20.464
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>27.251</b>	<b>26.969</b>	<b>20.464</b>	-	<b>20.464</b>

(†) indicates the presence of a P-5a



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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> BE4161 / HQ MANAGEMENT INFORMATION 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
USFK Hardware		2023	TBS / TBS	C / FFP	TBS	Aug 2023	Oct 2023	1	5,077.000	N		
SCC Hardware		2021	GOVCONNECTION / Rockville, MD	C / FFP	ACC-APG, Aberdeen Proving Ground, MD	Sep 2021	Oct 2021	0	3,809.000	Y		
SCC Hardware		2021	Various / Various	C / FP	TBS	Feb 2021	Apr 2021	1	3,492.000	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	Apr 2022	Apr 2022	1	8,002.000	N		
SCC Hardware		2023	TBS / TBS	C / FP	TBS	Mar 2023	Jun 2023	1	7,988.000	N		
USFK Hardware		2021	Various / Various	C / FFP	411th CSB, Korea	Apr 2021	Jun 2021	1	1,208.000	Y		
USFK Hardware		2021	World Wide Technology, Inc / Maryland Heights, MO	C / FFP	411th CSB, Korea	Sep 2021	Dec 2021	0	582.000	Y		
USFK Hardware		2021	Science Applications International Corp / Reston, VA	C / FFP	411th CSB, Korea	Sep 2021	Dec 2021	0	271.000	Y		
USFK Hardware		2021	Pacific Star Communications, Inc / Portland, OR	C / FFP	411th CSB, Korea	Sep 2021	Dec 2021	0	1,838.000	Y		
USFK Hardware		2021	International Business Machines Corp / Bethesda, MD	C / FFP	411th CSB, Korea	Sep 2021	Nov 2021	0	1,284.000	Y		
USFK Hardware		2021	DISA / Ft. Meade, MD	MIPR	DISA, Ft. Meade, MD	Sep 2021	Dec 2021	0	1,662.000	Y		
USFK Hardware		2022	TBS / TBS	C / FFP	TBS	Apr 2022	Jul 2022	1	12,811.000	N		
USFK Hardware		2023	TBS / TBS	C / FFP	TBS	Aug 2023	Oct 2023	1	4,325.000	N		
FORSCOM Hardware		2021	Various / Various	C / FFP	Various	Sep 2021	Sep 2021	1	900.000	Y		
(HQDA ADPE) USACRC Hardware		2021	Various / Various	C / FFP	Various	Mar 2021	Jun 2021	1	1,172.000	Y		
(HQDA ADPE) USACRC Hardware		2021	DOBBS Defense Solutions LLC / Bowie, MD	C / FFP	ACC-APG, Aberdeen Proving Ground, MD	Jun 2021	Jun 2021	0	377.000	Y		
(HQDA ADPE) USACRC Hardware		2022	Various / Various	C / FFP	Various	Feb 2022	Mar 2022	1	1,393.000	N		
(HQDA ADPE) USACRC Hardware		2023	TBS / TBS	C / FFP	TBS	Jul 2023	Aug 2023	1	1,273.000	N		
ARSOUTH GTMO ELC Expansion OCO	✓	2021	Various / Various	C / FFP	Various	Mar 2021	May 2021	1	2,216.000	Y		
ARSOUTH HQ LCR		2022	Various / Various	C / FFP	Various	Jan 2022	Aug 2022	1	4,763.000	N		
ARSOUTH HQ LCR		2023	TBS / TBS	C / FFP	TBS	Jul 2023	Aug 2023	1	1,801.000	N		
ARSOUTH JTF-MIGOPS GTMO LCR OCO	✓	2021	Various / Various	C / FFP	Various	Mar 2021	May 2021	1	484.000	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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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> BE4162 / MACOM AUTOMATION SYSTEMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,645.422	63.648	49.794	46.433	-	46.433
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,645.422	63.648	49.794	46.433	-	46.433
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,645.422</b>	<b>63.648</b>	<b>49.794</b>	<b>46.433</b>	<b>-</b>	<b>46.433</b>

*(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.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
(ATIA) Hardware <sup>(†)</sup>	993.200	5	4.966	1,179.000	1	1.179	765.000	1	0.765	857.000	1	0.857	-	-	-	857.000	1	0.857
(ANV) Hardware <sup>(†)</sup>	1,837.000	4	7.348	1,205.000	1	1.205	1,213.000	1	1.213	1,257.000	1	1.257	-	-	-	1,257.000	1	1.257
(AOS) Hardware	1,688.000	1	1.688	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ATIS) Hardware	1,663.000	1	1.663	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AFRICOM HQ ADPE) Hardware <sup>(†)</sup>	-	-	-	4,173.000	1	4.173	-	-	-	4,818.000	1	4.818	-	-	-	4,818.000	1	4.818
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>15.665</b>	<b>-</b>	<b>-</b>	<b>6.557</b>	<b>-</b>	<b>-</b>	<b>1.978</b>	<b>-</b>	<b>-</b>	<b>6.932</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6.932</b>
<b>Non Recurring Cost</b>																		
(ACI) Army-wide Hardware <sup>(†)</sup>	79,378.200	5	396.891	12,731.000	1	12.731	10,915.000	1	10.915	3,633.000	1	3.633	-	-	-	3,633.000	1	3.633
(BLCSE) Hardware <sup>(†)</sup>	4,828.800	5	24.144	5,805.000	1	5.805	6,015.000	1	6.015	6,841.000	1	6.841	-	-	-	6,841.000	1	6.841
(TIABCSTB) Hardware	1,570.667	3	4.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(SPS) Hardware	3,101.000	1	3.101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ALTESS) Hardware	15,334.333	3	46.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AcqBiz) Hardware	4,825.000	1	4.825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AFRICOM HQ ADPE) Hardware <sup>(†)</sup>	3,256.000	5	16.280	393.000	1	0.393	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	25,962.333	3	77.887	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(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 <sup>(†)</sup>	6,455.333	3	19.366	6,329.000	1	6.329	6,316.000	1	6.316	6,080.000	1	6.080	-	-	-	6,080.000	1	6.080
PTE CYBER RANGE Hardware	2,069.000	3	6.207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CVTAN (former PTE Cyber Range) <sup>(††)</sup>	-	-	-	-	-	-	1,081.000	1	1.081	9,976.000	1	9.976	-	-	-	9,976.000	1	9.976
USARPAC Hardware	2,974.000	2	5.948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDW Conmy Hall Hardware	5,854.000	1	5.854	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EUCOM ADPE Hardware <sup>(†)</sup>	12,785.333	3	38.356	12,726.000	1	12.726	4,876.000	1	4.876	5,033.000	1	5.033	-	-	-	5,033.000	1	5.033
EUCOM Base EDI <sup>(††)</sup>	-	-	-	-	-	-	11,412.000	1	11.412	6,120.000	1	6.120	-	-	-	6,120.000	1	6.120
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 Hardware <sup>(†)</sup>	-	-	-	5,255.000	1	5.255	-	-	-	-	-	-	-	-	-	-	-	-
USAREUR EDI Hardware <sup>(††)</sup>	-	-	-	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>												<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92						<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip						<b>Item Number / Title [DODIC]:</b> BE4162 / MACOM AUTOMATION SYSTEMS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	-	-	-	-	-	-	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>	-	-	843.554	-	-	56.591	-	-	46.798	-	-	37.683	-	-	-	-	-	37.683
<i>Subtotal: Hardware Cost</i>	-	-	859.219	-	-	63.148	-	-	48.776	-	-	44.615	-	-	-	-	-	44.615
<b>Software Cost</b>																		
<b>Recurring Cost</b>																		
(ACI) R Army-wide Software	721,724.000	1	721.724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ATIS) Software	1,205.000	1	1.205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHCOM Software <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1,818.000	1	1.818	-	-	-	1,818.000	1	1.818
<i>Subtotal: Recurring Cost</i>	-	-	722.929	-	-	-	-	-	-	-	-	1.818	-	-	-	-	-	1.818
<b>Non Recurring Cost</b>																		
(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	17,234.000	1	17.234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
		<b>Item Number / Title [DODIC]:</b> BE4162 / MACOM AUTOMATION SYSTEMS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(t)</sup>	-	-	-	500.000	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	62.573	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Software Cost</b>	-	-	<b>785.502</b>	-	-	<b>0.500</b>	-	-	-	-	-	<b>1.818</b>	-	-	-	-	-	<b>1.818</b>
Support - Program Management Cost																		
Contractor Management	701.000	1	0.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>0.701</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Services <sup>(t)</sup>	-	-	-	-	-	-	1,018.000	1	1.018	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	<b>1.018</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>1,645.422</b>	-	-	<b>63.648</b>	-	-	<b>49.794</b>	-	-	<b>46.433</b>	-	-	-	-	-	<b>46.433</b>

**Remarks:**

Quantities reflected on P-5 refer to total system cost by Cost Element rather than individual system components.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	63.648	49.794	46.433	-	46.433
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	<b>63.648</b>	<b>49.794</b>	<b>46.433</b>	-	<b>46.433</b>

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
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		2021	Various / Various	C / FP	Various	Apr 2021	Jul 2021	1	751.000	Y		
(ATIA) Hardware		2021	World Wide Technology / St. Louis, MO	C / FFP	MICC-Ft. Eustis, Newport News, VA	Mar 2021	Apr 2021	0	428.000	Y		
(ATIA) Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	Jul 2022	1	765.000	N		
(ATIA) Hardware		2023	TBS / TBS	C / FP	TBS	Apr 2023	May 2023	1	857.000	N		
(ANV) Hardware		2021	Various / Various	C / FP	Various	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		
(ANV) Hardware		2023	TBS / TBS	C / FP	TBS	Apr 2023	May 2023	1	1,257.000	N		
(AFRICOM HQ ADPE) Hardware		2021	Various / Various	MIPR	NIWC-A, North Charleston, SC	Aug 2021	Nov 2021	1	4,173.000	Y		
(AFRICOM HQ ADPE) Hardware		2023	TBS / TBS	C / FFP	TBS	Jul 2023	Sep 2023	1	4,818.000	N		
(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	Various / Various	C / FP	Various	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		
(ACI) Army-wide Hardware		2023	TBS / TBS	C / FP	TBS	May 2023	May 2023	1	3,633.000	N		
(BLCSE) Hardware		2021	Affigent, LLC / Herndon, VA	C / FFP	MICC, Ft Gordon, GA	Jul 2021	Sep 2021	0	328.000	Y		
(BLCSE) Hardware		2021	CDW-Government / Vernon Hills, IL	C / FFP	MICC, Ft Benning, GA	Sep 2021	Dec 2021	0	1,589.000	Y		
(BLCSE) Hardware		2021	Dell Federal Systems LP / Rock Round, TX	C / FFP	MICC, Ft Gordon, GA	May 2021	Jun 2021	0	101.000	Y		
(BLCSE) Hardware		2021	General Dynamics Mission Sys / Taunton, MA	C / FFP	LMP ACC, APG, MD	Dec 2020	Apr 2021	0	742.000	Y		
(BLCSE) Hardware		2021	HPI Federal LLC / Washington, DC	C / FFP	MICC, Ft Leavenworth. KS	Aug 2021	Dec 2021	0	135.000	Y		
(BLCSE) Hardware		2021	Iron Bow Technologies / Chantilly, VA	C / FFP	Ft. Leavenworth, KS	Aug 2021	Sep 2021	0	44.000	Y		
(BLCSE) Hardware		2021	Microtechnologies LLC / Vienna, VA	C / FFP	ACC, Ft. Huachuca, AZ	Apr 2021	May 2021	0	82.000	Y		
(BLCSE) Hardware		2021	Various / Various	MIPR	MICC, Ft. Bliss, TX	Aug 2021	Aug 2021	1	1,621.000	Y		
(BLCSE) Hardware		2021	Wildflower International, LTD / Santa Fe, NM	C / FFP	MICC, Ft Leonard Wood, MO	Sep 2021	Oct 2021	0	137.000	Y		
(BLCSE) Hardware		2021	Sterling Computers Corp / North Sioux City, SD	C / FFP	MICC, Ft Gordon, GA	May 2021	Jun 2021	0	168.000	Y		
(BLCSE) Hardware		2021	Zivaro Inc. / Denver, CO	C / FFP	ACC, Ft. Huachuca, AZ	May 2021	Jun 2021	0	35.000	Y		
(BLCSE) Hardware		2021	Government Acquisitions Inc. / Cincinnati, OH	C / FFP	MICC, Ft. Gordon, GA	Apr 2021	Jun 2021	0	13.000	Y		
(BLCSE) Hardware		2021	Dynamic Systems Inc. / El Segundo, CA	C / FFP	MICC, Ft Leonard Wood, MO	Sep 2021	Oct 2021	0	30.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
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		2021	WISECOM Technologies Inc. / Lanham, MD	C / FFP	MICC, Ft. Gordon, GA	May 2021	Aug 2021	0	533.000	Y		
(BLCSE) Hardware		2021	AUTOMATIONDIRECT.COM, Inc. / Cumming, GA	C / FFP	MICC, Ft. Leavenworth, KS	Sep 2021	Dec 2021	0	18.000	Y		
(BLCSE) Hardware		2021	NCS Technologies, Inc. / Gainesville, VA	C / FFP	MICC, Ft. Leavenworth, KS	Aug 2021	Dec 2021	0	8.000	Y		
(BLCSE) Hardware		2021	GOVAGE, Inc. / Hazelwood, MO	C / FFP	MICC, Ft. Benning, GA	Sep 2021	Oct 2021	0	193.000	Y		
(BLCSE) Hardware		2021	Whitaker Brothers Business Machines / Rockville, MD	C / FFP	MICC, Ft. Drum, NY	Sep 2021	Oct 2021	0	28.000	Y		
(BLCSE) Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	Jul 2022	1	6,015.000	N		
(BLCSE) Hardware		2023	TBS / TBS	C / FP	TBS	Apr 2023	Apr 2023	1	6,841.000	N		
(AFRICOM HQ ADPE) Hardware		2021	Futron Inc. / Woodbridge, VA	MIPR	GSA FAS AAS, Philadelphia, PA	Aug 2021	Nov 2021	1	393.000	Y		
(AFRICOM HQ ADPE) Hardware		2022	Various / Various	C / FFP	Various	Dec 2021	Mar 2022	1	4,604.000	N		
SOUTHCOM Hardware		2021	GSA FAS/AAS FEDSIM / Washington, DC	C / FP	GSA FAS AAS, Philadelphia, PAs	Feb 2021	Feb 2021	1	6,329.000	Y		
SOUTHCOM Hardware		2022	TBS / TBS	C / FP	TBS	Apr 2022	Jun 2022	1	6,316.000	N		
SOUTHCOM Hardware		2023	TBS / TBS	C / FP	TBS	May 2023	May 2023	1	6,080.000	N		
CVTAN (former PTE Cyber Range)		2022	TBS / TBS	C / FP	TBS	Mar 2022	Jun 2022	1	1,081.000	N		
CVTAN (former PTE Cyber Range)		2023	TBS / TBS	C / FP	TBS	May 2023	Jun 2023	1	9,976.000	N		
EUCOM ADPE Hardware		2021	Various / Various	C / FFP	Various	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 ADPE Hardware		2023	TBS / TBS	C / FFP	TBS	May 2023	Jun 2023	1	5,033.000	N		
EUCOM Base EDI		2022	TBS / TBS	C / FFP	TBS	Apr 2022	Jul 2022	1	11,412.000	N		
EUCOM Base EDI		2023	TBS / TBS	C / FFP	TBS	Mar 2023	Mar 2023	1	6,120.000	N		
USAREUR Hardware		2021	TBS / TBS	C / FFP	TBS	Jun 2022	Jul 2022	1	5,255.000	N		
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	Various / Various	C / FFP	Various	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		
SOUTHCOM Software		2023	TBS / TBS	C / FP	TBS	May 2023	May 2023	1	1,818.000	N		
USAREUR EDI Software	✓	2021	Various / Various	C / FFP	Various	Jan 2021	Mar 2021	1	500.000	Y		
Services		2022	TBS / TBS	C / FFP	TBS	Jul 2022	Sep 2022	1	1,018.000	N		
<b>Remarks:</b>												



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> BE4162 / MACOM AUTOMATION SYSTEMS

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; NIWC-A - Naval Information Warfare Center - Atlantic; NSMA - Naval Systems Management Activity; RCO GTMO - Regional Contracting Office, Guantanamo Bay.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
		<b>Item Number / Title [DODIC]:</b> BE4164 / PERSONNEL AUTOMATION SYSTEMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	935.559	41.030	43.229	23.015	-	23.015
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	935.559	41.030	43.229	23.015	-	23.015
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>935.559</b>	<b>41.030</b>	<b>43.229</b>	<b>23.015</b>	<b>-</b>	<b>23.015</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
(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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	91.120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Non Recurring Cost</b>																		
(AA-IAA) Hardware Non-Recurring	5,754.000	1	5.754	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(PES-A) Hardware Non-Recurring <sup>(t)</sup>	250,616.333	3	751.849	24,681.000	1	24.681	27,130.000	1	27.130	13,728.000	1	13.728	-	-	-	13,728.000	1	13.728
(MIRS) Hardware Non-Recurring <sup>(t)</sup>	12,612.600	5	63.063	11,992.000	1	11.992	8,512.000	1	8.512	5,191.000	1	5.191	-	-	-	5,191.000	1	5.191
(ACCHR) Hardware Non-Recurring	9,098.000	1	9.098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HQDA ADPE <sup>(t)</sup>	-	-	-	3,000.000	1	3.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	829.764	-	-	39.673	-	-	35.642	-	-	18.919	-	-	-	-	-	18.919
<i>Subtotal: Hardware Cost</i>	-	-	<b>920.884</b>	-	-	<b>39.673</b>	-	-	<b>35.642</b>	-	-	<b>18.919</b>	-	-	-	-	-	<b>18.919</b>
<b>Software Cost</b>																		
<b>Recurring Cost</b>																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(t)</sup>	7,373.000	1	7.373	714.000	1	0.714	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	7.373	-	-	0.714	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
(ACCHR) Software	2,441.000	1	2.441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(Keystone) Software Non-Recurring	900.000	1	0.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(PES-A) Software <sup>(t)</sup>	3,337.000	1	3.337	-	-	-	6,951.000	1	6.951	3,433.000	1	3.433	-	-	-	3,433.000	1	3.433
SFL-TAP Software Non-Recurring <sup>(t)</sup>	624.000	1	0.624	643.000	1	0.643	636.000	1	0.636	663.000	1	0.663	-	-	-	663.000	1	0.663
<i>Subtotal: Non Recurring Cost</i>	-	-	7.302	-	-	0.643	-	-	7.587	-	-	4.096	-	-	-	-	-	4.096
<i>Subtotal: Software Cost</i>	-	-	14.675	-	-	1.357	-	-	7.587	-	-	4.096	-	-	-	-	-	4.096
<b>Gross/Weapon System Cost</b>	-	-	935.559	-	-	41.030	-	-	43.229	-	-	23.015	-	-	-	-	-	23.015

**Remarks:**  
Quantities reflected on P-5 refer to total system cost by Cost Element rather than individual system components.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	41.030	43.229	23.015	-	23.015
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	41.030	43.229	23.015	-	23.015

<sup>(t)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip	<b>Item Number / Title [DODIC]:</b> BE4164 / PERSONNEL AUTOMATION 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 (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(PES-A) Hardware Non-Recurring		2021	CDW Government, LLC / Vernon Hills, IL	C / FFP	MICC, Ft. Knox, KY	Sep 2021	Oct 2021	0	1,968.000	Y		
(PES-A) Hardware Non-Recurring		2021	Integration Technologies Group / Falls Church, VA	C / FFP	MICC, Ft. Knox, KY	Sep 2021	Sep 2021	0	4,567.000	Y		
(PES-A) Hardware Non-Recurring		2021	Various / Various	C / FFP	MICC, Ft. Knox, KY	May 2021	Jul 2021	1	10,738.000	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	4,827.000	Y		
(PES-A) Hardware Non-Recurring		2021	Iron Bow Technologies / Herndon, VA	C / FFP	MICC, Ft. Knox, KY	Sep 2021	Sep 2021	0	2,581.000	Y		
(PES-A) Hardware Non-Recurring		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2022	Jul 2022	1	27,130.000	N		
(PES-A) Hardware Non-Recurring		2023	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2023	Jun 2023	1	13,728.000	N		
(MIRS) Hardware Non-Recurring		2021	LEIDOS, Inc. / Reston, VA	C / IDIQ	DHA-Contracting Office, Rosslyn, VA	Jun 2021	Jun 2021	1	8,861.000	Y		
(MIRS) Hardware Non-Recurring		2021	Itility / Reston, VA	C / FP	GSA/FAS/AAS/FEDSIM, Washington, DC	Dec 2021	Feb 2022	0	3,102.000	Y		
(MIRS) Hardware Non-Recurring		2021	Cherokee Nation Operational Solutions / Arlington, VA	C / IDIQ	DHA-Contracting Office, Rosslyn, VA	Nov 2021	Jun 2022	0	29.000	Y		
(MIRS) Hardware Non-Recurring		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Mar 2022	May 2022	1	8,512.000	N		
(MIRS) Hardware Non-Recurring		2023	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Feb 2023	May 2023	1	5,191.000	N		
HQDA ADPE		2021	Various / Various	C / FFP	Various	Dec 2021	Jan 2022	1	3,000.000	Y		
AIE Software & Training Recurring		2021	Various / Various	C / FFP	Various	Apr 2021	Jul 2021	1	714.000	N		
(PES-A) Software		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Sep 2022	Mar 2023	1	6,951.000	N		
(PES-A) Software		2023	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2023	Jun 2023	1	3,433.000	N		
SFL-TAP Software Non-Recurring		2021	Various / Various	C / FFP	MICC, Ft. Knox, KY	Jul 2022	Aug 2022	1	643.000	Y		
SFL-TAP Software Non-Recurring		2022	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2022	Jul 2022	1	636.000	N		
SFL-TAP Software Non-Recurring		2023	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2023	Jul 2023	1	663.000	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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip
		<b>Item Number / Title [DODIC]:</b> BE4175 / Personnel Automation Systems - West Point

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	23.184	3.537	9.140	3.967	-	3.967
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	23.184	3.537	9.140	3.967	-	3.967
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>23.184</b>	<b>3.537</b>	<b>9.140</b>	<b>3.967</b>	<b>-</b>	<b>3.967</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(t)</sup>	23,184.000	1	23.184	3,537.000	1	3.537	9,140.000	1	9.140	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	23.184	-	-	3.537	-	-	9.140	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
U. S. Military Academy (USMA) Hardware	-	-	-	-	-	-	-	-	-	-	-	3.967	-	-	-	-	-	3.967
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.967	-	-	-	-	-	3.967
<i>Subtotal: Hardware Cost</i>	-	-	23.184	-	-	3.537	-	-	9.140	-	-	3.967	-	-	-	-	-	3.967
<b>Gross/Weapon System Cost</b>	-	-	23.184	-	-	3.537	-	-	9.140	-	-	3.967	-	-	-	-	-	3.967

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	3.537	9.140	3.967	-	3.967
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	3.537	9.140	3.967	-	3.967

<sup>(t)</sup> indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92			<b>P-1 Line Item Number / Title:</b> 3002BD3000 / Automated Data Processing Equip				<b>Item Number / Title [DODIC]:</b> 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
U. S. Military Academy (USMA) Hardware		2021	Iron Bow Technologies / Chantilly, VA	C / FFP	ACC-RI, Rock Island, IL	May 2021	Jun 2021	0	500.000	Y		
U. S. Military Academy (USMA) Hardware		2021	Native American Industrial Solutions / Pawleys Island, SC	SS / FFP	ACC-RI, Rock Island, IL	May 2021	May 2021	0	45.000	Y		
U. S. Military Academy (USMA) Hardware		2021	Tri-Force Consulting Services / Lansdale, PA	SS / FFP	ACC-RI, Rock Island, IL	Jul 2021	Aug 2021	0	526.000	Y		
U. S. Military Academy (USMA) Hardware		2021	Various / Various	C / FFP	ACC-RI, Rock Island, IL	Apr 2021	Jul 2021	0	246.000	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		2021	MediaNow, Inc. / Netcong, NJ	C / FFP	ACC-RI, Rock Island, IL	Jul 2021	Jul 2021	0	272.000	Y		
U. S. Military Academy (USMA) Hardware		2021	American Systems Corporation / Chantilly, VA	C / FFP	ACC-RI, Rock Island, IL	Jul 2021	Jul 2021	0	184.000	Y		
U. S. Military Academy (USMA) Hardware		2021	Audio Visual Innovations, Inc / Tampa, FL	C / FFP	ACC-RI, Rock Island, IL	Dec 2021	Dec 2021	0	732.000	Y		
U. S. Military Academy (USMA) Hardware		2022	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605233A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	39.635	43.767	-	43.767	-	-	-	-	-	83.402
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	39.635	43.767	-	43.767	-	-	-	-	-	83.402
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>39.635</b>	<b>43.767</b>	-	<b>43.767</b>	-	-	-	-	-	<b>83.402</b>

*(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:**

AIE supports the Army recruiter's mission to find, manage, and enlist recruits. AIE aligns authorities, responsibilities, and resources for total Army accessions. It provides customer relationship management, data analytics, mapping, visualization, mobility, and electronic signature as well as cloud infrastructure to implement a 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.

The Army is deploying AIE operationally in four iterative waves across four years. Full operational capability across the enterprise will be completed in FY26. A high level deployment plan is shown below:

- FY23 - 12107 users - US Army Recruiting Command (USAREC), Army National Guard (ARNG), and Center for Initial Military Training (CIMT) users
- FY24 - 8072 users - USAREC, ARNG, and CIMT users
- FY25 - 1318 users - USAREC Army Medical Department (AMEDD), Special Operations Recruiting Battalion (SORB), and Chaplain (CHAP) users
- FY26 - 3513 users - US Army Cadet Command (USACC) users

The program is linked to RDTE Program Element 0605013A, Project Number FL9, Project Title: Army Accessioning IT Development in FY20 and FY21. The program is also linked to RDTE Program Element 0655233A, Project Number CP8, Project Title: Accessions Information Environment beginning in FY22. This program was realigned to Standard Study Number B45000, Accessions Information Environment (AIE), for more efficient and effective program management. AIE's OPA APE prior to FY22 was BE4164000.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	39.635	43.767	-	43.767	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605233A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	-	39.635	43.767	-	43.767	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605233A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / -	- / -	- / 39.635	- / 43.767	- / -	- / 43.767
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / -	- / 39.635	- / 43.767	- / -	- / 43.767

\*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:**

FY23 base procurement dollars in the amount of \$43.767 million provides AIE end-users (US Army Recruiting Command, Army National Guard, and Center for Initial Military Training) with commercial-off-the-shelf (COTS) software licenses critical to the AIE system. Procurement dollars also support training/travel associated with deployment of the AIE system and ongoing analysis of potential alternatives to support solution requirements.

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.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)	<b>Item Number / Title [DODIC]:</b> B45015 / ACCESSIONS INFORMATION ENVIRONMENT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	39.635	43.767	-	43.767
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	39.635	43.767	-	43.767
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>39.635</b>	<b>43.767</b>	-	<b>43.767</b>

*(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.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2021</b>			<b>FY 2022</b>			<b>FY 2023 Base</b>			<b>FY 2023 OCO</b>			<b>FY 2023 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Software Cost</b>																		
<b>Recurring Cost</b>																		
Software Licenses - End User <sup>(†)</sup>	-	-	-	-	-	-	29,611.000	1	29.611	31,977.000	1	31.977	-	-	-	31,977.000	1	31.977
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	29.611	-	-	31.977	-	-	-	-	-	31.977
<b>Subtotal: Software Cost</b>	-	-	-	-	-	-	-	-	<b>29.611</b>	-	-	<b>31.977</b>	-	-	-	-	-	<b>31.977</b>
<b>Support - Training Cost</b>																		
Services <sup>(†)</sup>	-	-	-	-	-	-	10,024.000	1	10.024	11,790.000	1	11.790	-	-	-	11,790.000	1	11.790
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	10.024	-	-	11.790	-	-	-	-	-	11.790
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	<b>39.635</b>	-	-	<b>43.767</b>	-	-	-	-	-	<b>43.767</b>

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	39.635	43.767	-	43.767
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>39.635</b>	<b>43.767</b>	-	<b>43.767</b>

<sup>(†)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92			<b>P-1 Line Item Number / Title:</b> 3003B45000 / ACCESSIONS INFORMATION ENVIRONMENT (AIE)				<b>Item Number / Title [DODIC]:</b> 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	29,611.000	Y		
Software Licenses - End User		2023	TBS / TBS	C / FFP	TBD	May 2023	May 2023	1	31,977.000	N		
Services		2022	Booz Allen Hamilton / Herndon, VA	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	May 2022	May 2022	1	10,024.000	Y		
Services		2023	TBS / TBS	C / FFP	TBD	May 2023	May 2023	1	11,790.000	N		

**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

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3004B55500 / General Fund Enterprise Business Systems Fam
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	274.646	4.448	1.452	0.097	-	0.097	0.119	0.143	0.166	0.166	-	281.237
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	274.646	4.448	1.452	0.097	-	0.097	0.119	0.143	0.166	0.166	-	281.237
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>274.646</b>	<b>4.448</b>	<b>1.452</b>	<b>0.097</b>	<b>-</b>	<b>0.097</b>	<b>0.119</b>	<b>0.143</b>	<b>0.166</b>	<b>0.166</b>	<b>-</b>	<b>281.237</b>

*(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 Improvement Act. 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, 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 a fully functional GFEBS application operated on a secure network (SIPR), leveraging off of the sustained system design with additional security features 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 fully 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. In FY 2021, GFEBS-SA capability support (sustainment) transitioned to Army Shared Services Center (ASSC).

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	4.448	1.452	0.097	-	0.097	0.119	0.143	0.166	0.166
<b>Total:</b>									
Quantity	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3004B55500 / General Fund Enterprise Business Systems Fam
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	4.448	1.452	0.097	-	0.097	0.119	0.143	0.166	0.166

**Justification:**  
 FY 2023 BASE procurement funds in the amount of \$0.097 million support new software licenses and maintenance tools 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.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	8	8	4	4	-	4	4	4	4	4	-	40
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	454.171	88.405	69.943	73.655	-	73.655	75.670	75.701	75.923	75.890	-	989.358
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	454.171	88.405	69.943	73.655	-	73.655	75.670	75.701	75.923	75.890	-	989.358
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>454.171</b>	<b>88.405</b>	<b>69.943</b>	<b>73.655</b>	<b>-</b>	<b>73.655</b>	<b>75.670</b>	<b>75.701</b>	<b>75.923</b>	<b>75.890</b>	<b>-</b>	<b>989.358</b>

*(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> )	56,771.375	11,050.625	17,485.750	18,413.750	-	18,413.750	18,917.500	18,925.250	18,980.750	18,972.500	-	24,733.950

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	8	4	4	-	4	4	4	4
	Total Obligation Authority	88.405	69.943	73.655	-	73.655	75.670	75.701	75.923
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>-</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
	<b>Total Obligation Authority</b>	<b>88.405</b>	<b>69.943</b>	<b>73.655</b>	<b>-</b>	<b>73.655</b>	<b>75.670</b>	<b>75.701</b>	<b>75.923</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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 / 454.171	8 / 88.405	4 / 69.943	4 / 73.655	- / -	4 / 73.655
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>8 / 454.171</b>	<b>8 / 88.405</b>	<b>4 / 69.943</b>	<b>4 / 73.655</b>	<b>- / -</b>	<b>4 / 73.655</b>

\*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 2023 Base procurement dollars in the amount of \$73.655 million supports the following efforts:  
 FY 2023 Base procurement dollars in the amount of \$69.655 million supports up to two (2) HPC systems at two (2) DoD Supercomputing Resource Center (DRSC) locations.  
 FY 2023 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
		<b>Item Number / Title [DODIC]:</b> B66501 / High Perf Computing Mod Pgm (HPCMP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	8	8	4	4	-	4
Gross/Weapon System Cost (\$ in Millions)	454.171	88.405	69.943	73.655	-	73.655
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	454.171	88.405	69.943	73.655	-	73.655
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>454.171</b>	<b>88.405</b>	<b>69.943</b>	<b>73.655</b>	<b>-</b>	<b>73.655</b>

*(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)	56,771.375	11,050.625	17,485.750	18,413.750	-	18,413.750

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 <sup>(†)</sup>	1,798.933	15	26.984	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 <sup>(†)</sup>	30,513.357	14	427.187	42,202.500	2	84.405	32,971.500	2	65.943	34,827.500	2	69.655	-	-	-	34,827.500	2	69.655
<i>Subtotal: Non Recurring Cost</i>	-	-	454.171	-	-	88.405	-	-	69.943	-	-	73.655	-	-	-	-	-	73.655
<i>Subtotal: Hardware Cost</i>	-	-	454.171	-	-	88.405	-	-	69.943	-	-	73.655	-	-	-	-	-	73.655
<b>Gross/Weapon System Cost</b>	<b>56,771.375</b>	<b>8</b>	<b>454.171</b>	<b>11,050.625</b>	<b>8</b>	<b>88.405</b>	<b>17,485.750</b>	<b>4</b>	<b>69.943</b>	<b>18,413.750</b>	<b>4</b>	<b>73.655</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18,413.750</b>	<b>4</b>	<b>73.655</b>

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity 8	Quantity 4	Quantity 4	-	Quantity 4
	Total Obligation Authority 88.405	Total Obligation Authority 69.943	Total Obligation Authority 73.655	-	Total Obligation Authority 73.655
<b>Total:</b>	<b>Quantity 8</b>	<b>Quantity 4</b>	<b>Quantity 4</b>	<b>-</b>	<b>Quantity 4</b>



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3005B66501 / High Perf Computing Mod Pgm (HPCMP)	<b>Item Number / Title [DODIC]:</b> B66501 / High Perf Computing Mod Pgm (HPCMP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Secondary Distribution	Total Obligation Authority	88.405	69.943	73.655	-	73.655

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

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2023 Army** **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3005B66501 / High Perf Computing Mod Pgm (HPCMP)	<b>Item Number / Title [DODIC]:</b> B66501 / High Perf Computing Mod Pgm (HPCMP)
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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
Dedicated HPC Project Investments		2020	TBD / TBD	C / FFP	Navy-NRL, Monterey, CA	May 2020	Dec 2021	1	2,000.000	Y		Feb 2020
Dedicated HPC Project Investments		2020	IBM / Bethesda, MD	C / FFP	Army-CISD	May 2020	Nov 2020	1	1,988.000	Y		Nov 2019
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
Dedicated HPC Project Investments		2023	TBD / TBD	TBD	TBD	Sep 2023	May 2024	2	2,000.000	N		Jan 2023
Defense Supercomputing Resource Centers		2020	Liquid, Inc. / Broomfield, CO	C / BOA	Army ERDC DSRC, Vicksburg, MS	Aug 2020	Feb 2021	1	16,480.000	Y		Apr 2020
Defense Supercomputing Resource Centers		2020	Liquid, Inc. -1 / Broomfield, CO	C / BOA	Army ARL DSRC, Aberdeen, MD	Jul 2020	Feb 2021	1	25,480.000	Y		Apr 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
Defense Supercomputing Resource Centers		2023	TBD / TBD	TBD	TBD	Apr 2023	Jul 2023	2	34,827.500	N		Oct 2022

**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).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3009B66001 / Contract Writing System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605047A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4.763	2.459	14.957	17.701	-	17.701	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4.763	2.459	14.957	17.701	-	17.701	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4.763</b>	<b>2.459</b>	<b>14.957</b>	<b>17.701</b>	<b>-</b>	<b>17.701</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Continuing</b>	<b>Continuing</b>

*(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 noncombat 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.

Initial Operating Capability (IOC) was planned for January 2022. However, following the testing results in December of 2021, the Army changed strategy to focus on alternative solutions. The new approach will leverage existing contract writing solutions from other services and technologies. The Army will pivot to an iterative design, development, testing and cyber security strategy for an integrated system that will support functionality required to begin decommissioning of SPS and PADDs, on-boarding Joint Base and National Guard Bureau users, and integrating existing business intelligence capabilities.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.459	14.957	17.701	-	17.701	-	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.459	14.957	17.701	-	17.701	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3009B66001 / Contract Writing System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605047A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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				- / 4.763	- / 2.459	- / 14.957	- / 17.701	- / -	- / 17.701
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 4.763</b>	<b>- / 2.459</b>	<b>- / 14.957</b>	<b>- / 17.701</b>	<b>- / -</b>	<b>- / 17.701</b>

\*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 2023 Base procurement dollars in the amount of \$17.701 million will support the release of a minimum viable product and includes end user licenses, deployment, training, and fielding.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3009B66001 / Contract Writing System
		<b>Item Number / Title [DODIC]:</b> B66002 / Army Contract Writing System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4.763	2.459	14.957	17.701	-	17.701
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4.763	2.459	14.957	17.701	-	17.701
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>4.763</b>	<b>2.459</b>	<b>14.957</b>	<b>17.701</b>	<b>-</b>	<b>17.701</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	4,462.500	1	4.463	893.000	1	0.893	12,759.000	1	12.759	13,626.000	1	13.626	-	-	-	13,626.000	1	13.626
Software License	300.000	1	0.300	1,566.000	1	1.566	1.313	1,000	1.313	0.815	5,000	4.075	-	-	-	0.815	5,000	4.075
ACWS Partner Costs (LMP)	-	-	-	-	-	-	885.000	1	0.885	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	4.763	-	-	2.459	-	-	14.957	-	-	17.701	-	-	-	-	-	17.701
<i>Subtotal: Software Cost</i>	-	-	4.763	-	-	2.459	-	-	14.957	-	-	17.701	-	-	-	-	-	17.701
<b>Gross/Weapon System Cost</b>	-	-	<b>4.763</b>	-	-	<b>2.459</b>	-	-	<b>14.957</b>	-	-	<b>17.701</b>	-	-	-	-	-	<b>17.701</b>

**Remarks:**

ACWS began deployment activities in FY 2022 and continue ramp up into FY 2023. In FY 2023, ACWS will be focused on deployment activities associated with IOC. 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).

Previous year unit costs reflect budgeted funds for licenses. Funding increases in FY 2023 reflect additional license procurement and training materials to complete deployment to all SPS users.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.459	14.957	17.701	-	17.701
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>			<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3009B66001 / Contract Writing System		<b>Item Number / Title [DODIC]:</b> B66002 / Army Contract Writing System		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	2.459	14.957	17.701	-	17.701

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	410.749	51.129	73.110	88.141	-	88.141	114.624	114.571	114.905	114.854	-	1,082.083
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	410.749	51.129	73.110	88.141	-	88.141	114.624	114.571	114.905	114.854	-	1,082.083
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>410.749</b>	<b>51.129</b>	<b>73.110</b>	<b>88.141</b>	-	<b>88.141</b>	<b>114.624</b>	<b>114.571</b>	<b>114.905</b>	<b>114.854</b>	-	<b>1,082.083</b>

*(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 Modernization Priority for Network and efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy. The Combat Service Support (CSS) Communications funding line also supports the Army's strategy for Logistics Transport Convergence.

The CSS Communications funding line supports the Army's Sustainment Transport System (STS). Formerly the Sustainment Tactical Network (STN), the name was changed to better reflect the hardware procured. STS is a full spectrum logistics communication requirement and an integrated component of the Unified Network (UN) providing unclassified communications to US Army sustainment units in their support to the warfighter. STS provides network connectivity for logistics, financial management, personnel and health service support information to be exchanged on the battlefield across multiple echelons. The modernized STS system replaces legacy equipment that began fielding in 2004 and is reaching end of life in 2035 due to technical obsolescence and cyber vulnerabilities. The legacy CSS Very Small Aperture Terminal (VSAT) and CSS Automated Information System Interface (CAISI) programs have an AAO of 32,795 end items fielded (3,620 VSAT terminals and 29,175 CAISI systems) supporting Army logistics operations. This equipment cannot be technically or economically sustained past their 2035 end of life.

In accordance with STS Annex III to Bridge to Future Networks (BFN) Capability Production Document (CPD) each STS system is comprised of a VSAT to enable Beyond Line-of-Sight (BLOS) communication and enterprise access, Line-of-Sight Radios and transmission equipment to extend network access to the forward edge of battle, Wireless Fidelity Access Points to provide dispersed sustainment elements a dedicated connection to the network, a cyber-resiliency baseband kit, and laptop. Operational needs require a smaller, lighter system that is able to transition between frequency allocation bands and also provide Logisticians with high-speed distributed access to the DODIN to ensure continuous, integrated, and synchronized support across the enterprise while minimizing network and data vulnerabilities.

The CSS Communications funding line modernizes VSAT terminals, Line-of-Sight (LOS) radios, and Wireless Points of Access, leveraging COTS solutions to provide the DoD Information Network-Army (DODIN-A) access to wireless and wired network access point services. The proposed AAO for modernized systems is 26,398 end items fielded: 2,490 STS VSAT Systems, 18,928 Wireless Points of Access Systems, and 4,980 LOS Systems. Modernization efforts will ensure continued support of Sustainment Information Systems (SIS) communications globally, at home station (Garrison), and into the tactical, operational and strategic battle space. This will enable Combat Service Support soldiers to utilize required sustainment, administrative, and logistics Enterprise Resource Planning (ERP) software systems, including but not limited to Global Combat Support System-Army (GCSS-A) and Integrated Personnel and Pay System-Army (IPPS-A) which require on-demand global connectivity. These SIS and ERP applications 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 systems. Additionally, these modernization efforts support the Army's strategy for Logistics Transport Convergence. The STS provides critical connectivity on the battlefield where the Integrated Tactical Network (ITN) and other communication systems do not extend to dispersed and forward deployed sustainment units.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2023 Army							<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation					<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A										

<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	51.129	73.110	88.141	-	88.141	114.624	114.571	114.905	114.854
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>51.129</b>	<b>73.110</b>	<b>88.141</b>	-	<b>88.141</b>	<b>114.624</b>	<b>114.571</b>	<b>114.905</b>	<b>114.854</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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, P-21			- / 410.749	- / 51.129	- / 73.110	- / 88.141	- / -	- / 88.141
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 410.749</b>	<b>- / 51.129</b>	<b>- / 73.110</b>	<b>- / 88.141</b>	<b>- / -</b>	<b>- / 88.141</b>

\*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:**  
 FY23 Base procurement dollars in the amount of \$88.141 million procure 91 STS Very Small Aperture Terminal (VSAT) Systems, 280 Wireless Points of Access Systems, 182 Line of Sight (LOS) Systems, Initial Spares, and associated support equipment, software maintenance, data, fielding, program management, system engineering, and system test and evaluation support. A Satellite Communications as a Managed Service (SaaS) pilot is also planned for FY23 to explore how a global, end-to-end network with tailorable features such as a COTS user terminal, commercial bandwidth and gateways, transport from gateways to Tactical Network, and FSR support, meets the Army's needs.  
  
 FY23 signifies the beginning of the STS modernization program that will leverage DoDI 5000.85, Major Capability Acquisition, dated 6 August 2020.

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>						<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92				<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications			<b>Item Number / Title [DODIC]:</b> BD3513 / CSS SATCOM		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Procurement Quantity ( <i>Units in Each</i> )				-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				410.749	51.129	73.110	88.141	-	88.141
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )				410.749	51.129	73.110	88.141	-	88.141
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				<b>410.749</b>	<b>51.129</b>	<b>73.110</b>	<b>88.141</b>	-	<b>88.141</b>
<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> )				-	-	-	180.247	-	180.247

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
Local Transport - CAISI Modernization	90.722	36	3.266	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Combat Service Support Automated Information Systems (CAISI)	-	-	193.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Very Small Aperture Terminal (VSAT)	-	-	193.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VSAT Modernization <sup>(†)</sup>	251.385	52	13.072	222.409	154	34.251	227.780	40	9.111	-	-	-	-	-	-	-	-	-
Cyber Resiliency	-	-	-	32.792	149	4.886	29.800	40	1.192	-	-	-	-	-	-	-	-	-
STS VSAT Systems (CPD) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	417.560	91	37.998	-	-	-	417.560	91	37.998
Wireless Points of Access Systems (CPD) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	43.221	280	12.102	-	-	-	43.221	280	12.102
Line of Sight (LOS) Systems (CPD) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	46.236	182	8.415	-	-	-	46.236	182	8.415
SATCOM as a Managed Service (SaaMS)	-	-	-	-	-	-	-	-	6.000	-	-	2.111	-	-	-	-	-	2.111
<i>Subtotal: Recurring Cost</i>	-	-	402.387	-	-	39.137	-	-	16.303	-	-	60.626	-	-	-	-	-	60.626
Non Recurring Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications	<b>Item Number / Title [DODIC]:</b> BD3513 / CSS SATCOM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Very Small Aperture Terminal (VSAT) - USINDOPACOM Retrofit	-	-	-	-	-	-	84.553	322	27.226	-	-	-	-	-	-	-	-	-
Very Small Aperture Terminal (VSAT) - ONS Spares	-	-	1.410	-	-	-	-	-	4.758	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	-	-	-	-	-	-	-	-	-	1.245	-	-	-	-	-	1.245
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	2.500
Hardware Engineering Change Orders (ECOs)1278	-	-	-	-	-	-	-	-	1.278	-	-	-	-	-	-	-	-	-
Extended Warranty - Inflatable SATCOM Antenna (ISA)	-	-	-	-	-	-	-	-	2.620	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	1.410	-	-	-	-	-	35.882	-	-	3.745	-	-	-	-	-	3.745
<b>Subtotal: Hardware Cost</b>	-	-	<b>403.797</b>	-	-	<b>39.137</b>	-	-	<b>52.185</b>	-	-	<b>64.371</b>	-	-	-	-	-	<b>64.371</b>
<b>Software Cost</b>																		
<b>Recurring Cost</b>																		
Software Maintenance	-	-	-	-	-	-	-	-	-	-	-	3.225	-	-	-	-	-	3.225
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.225	-	-	-	-	-	3.225
<b>Subtotal: Software Cost</b>	-	-	-	-	-	-	-	-	-	-	-	<b>3.225</b>	-	-	-	-	-	<b>3.225</b>
<b>Support - Data Cost</b>																		
Support Data Data	-	-	-	-	-	-	-	-	1.221	-	-	3.893	-	-	-	-	-	3.893
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	<b>1.221</b>	-	-	<b>3.893</b>	-	-	-	-	-	<b>3.893</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	2.506	-	-	5.521	-	-	7.928	-	-	3.182	-	-	-	-	-	3.182
<i>Subtotal: Support - Fielding Cost</i>	-	-	<b>2.506</b>	-	-	<b>5.521</b>	-	-	<b>7.928</b>	-	-	<b>3.182</b>	-	-	-	-	-	<b>3.182</b>
<b>Support - Hardware Analysis Cost</b>																		
Hardware Analysis	-	-	-	-	-	0.033	-	-	3.033	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Hardware Analysis Cost</i>	-	-	-	-	-	<b>0.033</b>	-	-	<b>3.033</b>	-	-	-	-	-	-	-	-	-
<b>Support - Program Management Cost</b>																		
Government Management	-	-	1.020	-	-	1.997	-	-	4.513	-	-	4.750	-	-	-	-	-	4.750

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications	<b>Item Number / Title [DODIC]:</b> BD3513 / CSS SATCOM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 - Program Management Cost</i>	-	-	1.020	-	-	1.997	-	-	4.513	-	-	4.750	-	-	-	-	-	4.750
Support - System Engineering Cost																		
System Engineering	-	-	3.426	-	-	4.441	-	-	4.230	-	-	3.664	-	-	-	-	-	3.664
<i>Subtotal: Support - System Engineering Cost</i>	-	-	3.426	-	-	4.441	-	-	4.230	-	-	3.664	-	-	-	-	-	3.664
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	-	-	-	5.056	-	-	-	-	-	5.056
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.056	-	-	-	-	-	5.056
<b>Gross/Weapon System Cost</b>	-	-	410.749	-	-	51.129	-	-	73.110	180.247	-	88.141	-	-	-	180.247	-	88.141

**Remarks:**

- 1) STS Very Small Aperture Terminal (VSAT) Systems, Wireless Points of Access Systems, and Line of Sight (LOS) Systems represent a new start modernization effort beginning in FY23. The CPD includes cyber hardening and survivability improvements, transport interoperability capabilities, and enhanced reliability. This is reflected in the cost of the three analogous systems procured in FY23: 91 STS VSAT Systems each containing a cyber-resiliency baseband kit and laptop to enable Beyond Line-of-Sight (BLOS) communication and enterprise access; 280 Wireless Points of Access Systems to provide dispersed sustainment elements a dedicated connection to the network; and 182 LOS Systems and transmission equipment to extend network access to the forward edge of battle.
- 2) The 91 STS VSAT Systems, 280 Wireless Points of Access Systems, and 182 LOS Systems require the procurement of Support Equipment, Initial Spares, Software Maintenance, and System Test and Evaluation in FY 2023 for the first time.
- 3) A SATCOM as a Managed Service (SaaS) pilot effort will also be initiated in FY23 for a select number of users and use cases. The pilot will explore how a global, end-to-end network with tailorable features such as a COTS user terminal, commercial bandwidth and gateways, transport from gateways to the Tactical Network, FSR support, etc. can meet the Army's needs. SaaS is one of the six pilot programs investigating the use of consumption-based solutions to address software-intensive warfighting capability per FY21 NDAA Sec. 834.
- 4) Support Data increases in FY 2023 due to the procurement of technical manuals and other associated logistics documentation for 91 STS VSAT Systems, 280 Wireless Points of Access Systems, and 182 LOS Systems.
- 5) Program Management includes increased government matrix support, travel, etc. in FY 2023 due to additional engineering, logistics, acquisition, and administrative support personnel required for ramp up of the STS modernization effort, to include the production of acquisition documentation for STS VSAT Systems, Wireless Points of Access Systems, and LOS Systems.
- 6) The System Test and Evaluation Support effort in FY23 includes system-related production test activities that are identifiable with the evaluation of the system, as well as the procurement of hardware to obtain and/or validate data to achieve the Full Rate Production decision.
- 7) Government Core support is OMA funded.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	51.129	73.110	88.141	-	88.141
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>				<b>Date:</b> April 2022		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92		<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications		<b>Item Number / Title [DODIC]:</b> BD3513 / CSS SATCOM		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	51.129	73.110	88.141	-	88.141

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

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications	<b>Item Number / Title [DODIC]:</b> 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
VSAT Modernization		2021	Countertrade Products, Inc. / Arvada, CO	C / FFP	TBD	Jun 2021	Dec 2021	154	222.409	Y		
VSAT Modernization		2022	TBD - VSAT Modernization / TBD	C / FFP	TBD	Jan 2022	Jun 2022	40	227.780	Y		
STS VSAT Systems (CPD) <sup>(†)</sup>		2023	TBD - STS VSAT System / TBD	C / FFP	TBD	Mar 2023	Nov 2023	91	417.560	N		
Wireless Points of Access Systems (CPD) <sup>(†)</sup>		2023	TBD - Wireless Point of Access System / TBD	C / FFP	TBD	Mar 2023	Nov 2023	280	43.221	N		
Line of Sight (LOS) Systems (CPD) <sup>(†)</sup>		2023	TBD - Line of Sight (LOS) System / TBD	C / FFP	TBD	Mar 2023	Nov 2023	182	46.236	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

FY 2023 procurement aligns to STS Annex III to Bridge to Future Networks (BFN) Capability Production Document (CPD), pending AROC validation. The CPD includes cyber hardening and survivability improvements, transport interoperability capabilities, and enhanced reliability above those for the ONS equipment procured in FY21 and FY22. This is reflected in the cost of the three analogous systems procured in FY23: 91 STS Very Small Aperture Terminal (VSAT) Systems each containing a cyber-resiliency baseband kit and laptop to enable Beyond Line-of-Sight (BLOS) communication and enterprise access; 280 Wireless Points of Access Systems to provide dispersed sustainment elements a dedicated connection to the network; and 182 Line-of-Sight (LOS) Systems comprised of radios and transmission equipment to extend network access to the forward edge of battle. FY23 vendors will be identified in the year of execution.

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**Exhibit P-21, Production Schedule:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications	<b>Item Number / Title [DODIC]:</b> BD3513 / CSS SATCOM
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Cost Elements <i>(Units in Each)</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	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
STS VSAT Systems (CPD)																															
	1	2023	ARMY	91	0	91																								91	
Wireless Points of Access Systems (CPD)																															
	2	2023	ARMY	280	0	280																								280	
Line of Sight (LOS) Systems (CPD)																															
	3	2023	ARMY	182	0	182																								182	
							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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications	<b>Item Number / Title [DODIC]:</b> BD3513 / CSS SATCOM
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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	S E P					
STS VSAT Systems (CPD)																																			
1	2023	ARMY		91	0	91						A	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	11	0				
Wireless Points of Access Systems (CPD)																																			
2	2023	ARMY		280	0	280						A	-	-	-	-	-	-	-	-	-	25	25	25	25	25	25	25	25	25	30	0			
Line of Sight (LOS) Systems (CPD)																																			
3	2023	ARMY		182	0	182						A	-	-	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	22	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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<b>Exhibit P-21, Production Schedule:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 92	<b>P-1 Line Item Number / Title:</b> 3051BD3501 / CSS Communications	<b>Item Number / Title [DODIC]:</b> BD3513 / CSS SATCOM
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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 - STS VSAT System - TBD	1	25	30	0	0	0	0	0	0	0	0	0
2	TBD - Wireless Point of Access System - TBD	20	80	100	0	0	0	0	0	0	0	0	0
3	TBD - Line of Sight (LOS) System - TBD	5	50	75	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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 9956BE4167 / Reserve Component Automation Sys (RCAS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,981.534	14.848	12.905	-	-	-	-	-	-	-	-	2,009.287
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,981.534	14.848	12.905	-	-	-	-	-	-	-	-	2,009.287
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1,981.534</b>	<b>14.848</b>	<b>12.905</b>	-	-	-	-	-	-	-	-	<b>2,009.287</b>

*(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.

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.

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.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.848	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.681	-	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	<b>P-1 Line Item Number / Title:</b> 9956BE4167 / Reserve Component Automation Sys (RCAS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.224	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>14.848</b>	<b>12.905</b>	-	-	-	-	-	-	-

**Justification:**  
BE4167 has no funding request in FY 2023.

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	<b>P-1 Line Item Number / Title:</b> 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	77.067	4.995	-	-	-	-	-	-	-	-	-	82.062
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	77.067	4.995	-	-	-	-	-	-	-	-	-	82.062
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>77.067</b>	<b>4.995</b>	-	-	-	-	-	-	-	-	-	<b>82.062</b>

*(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> )	1,792.256	166.500	-	-	-	-	-	-	-	-	-	1,124.137

**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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.781	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.677	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.537	-	-	-	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	<b>P-1 Line Item Number / Title:</b> 9998BL5300 / Items Less Than \$5M (Surveying Equipment)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	4.995	-	-	-	-	-	-	-	-

**Justification:**  
 BL5300 has no funding request in FY 2023.

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 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	<b>P-1 Line Item Number / Title:</b> 2723B88801 / BCT Emerging Technologies
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	204.547	8.491	13.835	12.853	-	12.853	-	-	-	-	-	239.726
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	204.547	8.491	13.835	12.853	-	12.853	-	-	-	-	-	239.726
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>204.547</b>	<b>8.491</b>	<b>13.835</b>	<b>12.853</b>	-	<b>12.853</b>	-	-	-	-	-	<b>239.726</b>

*(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 in support of the National Defense Strategy.

Funding supports uniquely configured communications equipment for additional Directed Energy (DE) system prototyping efforts. DE system communications equipment includes AN/VRC-114 vehicle radios, AN/UYK-128B V3 digital computer set, AN/PSN-13A GPS receivers, AN/VSQ-2D radio units, and KGV-72 encryption devices and will be acquired from Collins Aerospace. 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; procurement of transportation equipment, material handling equipment, and transportation and material handing support for the Long Range Hypersonic Weapon System.

The Directed Energy Communication Equipment is for unique radio equipment for the prototype configuration and will be used for operational use and spares.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.491	13.835	12.853	-	12.853	-	-	-
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>8.491</b>	<b>13.835</b>	<b>12.853</b>	-	<b>12.853</b>	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2023 Army **Date:** April 2022

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	<b>P-1 Line Item Number / Title:</b> 2723B88801 / BCT Emerging Technologies
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 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			- / 204.547	- / 8.491	- / 13.835	- / 12.853	- / -	- / 12.853
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 204.547</b>	<b>- / 8.491</b>	<b>- / 13.835</b>	<b>- / 12.853</b>	<b>- / -</b>	<b>- / 12.853</b>

\*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 2023 Base procurement dollars in the amount of \$12.853 million supports the Army Rapid Capabilities and Critical Technologies Office (RCCTO) expedited fielding of critical combat materiel capabilities to meet urgent needs and enable Army modernization and the National Defense Strategy. Funding supports procurement of unique communications equipment (i.e. radios) for Directed Energy efforts.

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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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 98	<b>P-1 Line Item Number / Title:</b> 2723B88801 / BCT Emerging Technologies	<b>Item Number / Title [DODIC]:</b> B88801 / BCT Emerging Technologies

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	204.547	8.491	13.835	12.853	-	12.853
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	204.547	8.491	13.835	12.853	-	12.853
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>204.547</b>	<b>8.491</b>	<b>13.835</b>	<b>12.853</b>	<b>-</b>	<b>12.853</b>

*(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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
EWTV	1,500.000	3	4.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VROD/VMAX	387.310	29	11.232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Hypersonic Glide Body (CHGB) COTS, GOTS and (NDI)	8,765.000	1	8.765	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Long Range Hypersonic Weapon Integration COTS, GOTS and (NDI)	2,848.000	1	2.848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All Up Round and Canister (AUR+C) COTS, GOTS and (NDI)	4,984.000	1	4.984	-	-	-	1,700.000	1	1.700	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	32.329	-	-	-	-	-	1.700	-	-	-	-	-	-	-	-	-
<b>Non Recurring Cost</b>																		
CA-CEMA ONS	-	-	150.960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Demonstrated Emerging Technology <sup>(f)</sup>	2,716.000	1	2.716	2,830.330	3	8.491	2,733.750	4	10.935	2,570.600	5	12.853	-	-	-	2,570.600	5	12.853
<i>Subtotal: Non Recurring Cost</i>	-	-	153.676	-	-	8.491	-	-	10.935	-	-	12.853	-	-	-	-	-	12.853
<i>Subtotal: Hardware Cost</i>	-	-	<b>186.005</b>	-	-	<b>8.491</b>	-	-	<b>12.635</b>	-	-	<b>12.853</b>	-	-	-	-	-	<b>12.853</b>
<b>Package Fielding Cost</b>																		



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<b>Exhibit P-5, Cost Analysis: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 98		<b>P-1 Line Item Number / Title:</b> 2723B88801 / BCT Emerging Technologies
		<b>Item Number / Title [DODIC]:</b> B88801 / BCT Emerging Technologies

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
<b>Recurring Cost</b>																		
EWTV Fielding	283.000	1	0.283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VROD/VMAX Fielding	2,035.000	1	2.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EWPMT Thick Client Fielding	1,445.000	1	1.445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3.763	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Non Recurring Cost</b>																		
EWTV Services	3,907.000	1	3.907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VROD/VMAX Services	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Fielding Cost</b>																		
Fielding	7,437.000	1	7.437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	7.437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	204.547	-	-	8.491	-	-	13.835	-	-	12.853	-	-	-	-	-	12.853

**Remarks:**  
 All Up Round and Canister (AUR+C) COTS, GOTS and (NDI) is related to materiel handling equipment.  
 Demonstrated Emerging Technology is for unique communications equipment.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	8.491	13.835	12.853	-	12.853
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis:</b> PB 2023 Army			<b>Date:</b> April 2022			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 98		<b>P-1 Line Item Number / Title:</b> 2723B88801 / BCT Emerging Technologies		<b>Item Number / Title [DODIC]:</b> B88801 / BCT Emerging Technologies		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	8.491	13.835	12.853	-	12.853

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2023 Army							<b>Date:</b> April 2022					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 98			<b>P-1 Line Item Number / Title:</b> 2723B88801 / BCT Emerging Technologies				<b>Item Number / Title [DODIC]:</b> B88801 / BCT Emerging Technologies					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Demonstrated Emerging Technology		2023	Various / TBD	MIPR	Various	Apr 2023	Jul 2023	5	2,570.600	N		

**Remarks:**  
These hardware products will be acquired through existing Army contracts.