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**Department of Defense
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



Army

Justification Book of

Other Procurement, Army

Communications and Electronics Equipment, Budget Activity 2

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The following Justification Books were prepared at a cost of \$1,209,553: 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 6, and Budget Activity 7.

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FAMILY OF WEAPON SIGHTS (FWS)	K22001	81	02	86.....	401
Family Of Persistent Surveillance Capabilities	BL5287	74	02	83.....	345
Family of Med Comm for Combat Casualty Care	MA8000	45	02	32.....	185
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Information Systems	BB8650	54	02	73.....	230
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Integrated Personnel and Pay System-Army (IPPS-A)	B66701	98	02	89.....	512
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JCSE Equipment (USREDCOM)	BB5777	22	02	12.....	42
JOINT BATTLE COMMAND - PLATFORM (JBC-P)	W61990	85	02	86.....	418
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Mod Of In-Svc Equip (LLDR)	KA3100	87	02	86.....	435
Mod Of In-Svc Equip (TAC SAT)	BB8417	29	02	18.....	96
Mod of In-Svc Equip (INTEL SPT) (MIP)	BZ9750	65	02	80.....	291
Mortar Fire Control System	K99300	89	02	86.....	449
NAVSTAR Global Positioning System (SPACE)	K47800	26	02	18.....	77
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Prophet Ground	BZ7326	60	02	80.....	263
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TACTICAL DIGITAL MEDIA	B68501	107	02	95.....	589
TRACTOR DESK	BC3000	37	02	32.....	155
TROJAN (MIP)	BA0326	64	02	80.....	284
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 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

13 Jan 2016

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Communications and Electronics Equipment											
Comm - Joint Communications											
19	Win-T - Ground Forces Tactical Network	A	1188	664,087		695,116			695,116		U
20	Signal Modernization Program	A		27,757		49,898			49,898		U
21	Joint Incident Site Communications Capability	A		7,915		4,062			4,062		U
22	JCSE Equipment (USREDCOM)			3,540		5,008			5,008		U
Comm - Satellite Communications											
23	Defense Enterprise Wideband Satcom Systems			121,085		172,306			172,306		U
24	Transportable Tactical Command Communications	A		10,847		44,998		5,724	50,722		U
25	SHF Term			6,494		7,629			7,629		U
26	Navstar Global Positioning System (SPACE)	B		1,635		14,027			14,027		U
27	Smart-T (SPACE)			11,454		13,453			13,453		U
28	Global Brdcst Svc - GBS			15,899		6,265			6,265		U
29	Mod of In-Svc Equip (TAC SAT)			2,849		1,042			1,042		U
30	Enroute Mission Command (EMC)	A		100,000		7,116			7,116		U
Comm - C3 System											
31	Army Global Cmd & Control Sys (AGCCS)	A				10,137			10,137		U
Comm - Combat Communications											
32	Joint Tactical Radio System	A		40,711		54,640			54,640		U

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Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Communications and Electronics Equipment									
Comm - Joint Communications									
19	Win-T - Ground Forces Tactical Network	A		427,598		9,572		437,170	U
20	Signal Modernization Program	A		58,250				58,250	U
21	Joint Incident Site Communications Capability	A		5,749				5,749	U
22	JCSE Equipment (USREDCOM)			5,068				5,068	U
Comm - Satellite Communications									
23	Defense Enterprise Wideband Satcom Systems			143,805				143,805	U
24	Transportable Tactical Command Communications	A		36,580				36,580	U
25	SHF Term			1,985		24,000		25,985	U
26	Navstar Global Positioning System (SPACE)	B							U
27	Smart-T (SPACE)			9,165				9,165	U
28	Global Brdcst Svc - GBS								U
29	Mod of In-Svc Equip (TAC SAT)								U
30	Enroute Mission Command (EMC)	A							U
Comm - C3 System									
31	Army Global Cmd & Control Sys (AGCCS)	A		2,530				2,530	U
Comm - Combat Communications									
32	Joint Tactical Radio System	A							U

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
33	Handheld Manpack Small Form Fit (HMS)	A									U
34	Mid-Tier Networking Vehicular Radio (MNVR)	A		4,692		22,762				22,762	U
35	Radio Terminal Set, Mids Lvt(2)	A		15,698		9,422				9,422	U
36	AMC Critical Items - OPA2	A		22,099		26,020				26,020	U
37	Tractor Desk			3,724		4,073				4,073	U
38	Tractor Ride										U
39	Spider Apla Remote Control Unit	A		969		1,403				1,403	U
40	Spider Family of Networked Munitions Incr	A				9,199				9,199	U
41	Soldier Enhancement Program Comm/Electronics			294		349				349	U
42	Tactical Communications and Protective System	A		22,654		25,597				25,597	U
43	Unified Command Suite	A		17,445		21,854				21,854	U
44	Radio, Improved HF (COTS) Family	A		1,028							U
45	Family of Med Comm for Combat Casualty Care	A		22,614		24,388				24,388	U
Comm - Intelligence Comm											
47	CI Automation Architecture	A		3,371		1,349				1,349	U
48	Army CA/MISO GPF Equipment	A		5,124		3,695				3,695	U
Information Security											
49	Family of Biometrics	A									U
50	Information System Security Program-ISSP	A				19,920				19,920	U
51	Communications Security (COMSEC)	A		69,646		72,257				72,257	U
52	Defensive CYBER Operations	A									U

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Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
33	Handheld Manpack Small Form Fit (HMS)	A	5656	273,645			5656	273,645	U
34	Mid-Tier Networking Vehicular Radio (MNVR)	A		25,017				25,017	U
35	Radio Terminal Set, Mids Lvt(2)	A		12,326				12,326	U
36	AMC Critical Items - OPA2	A							U
37	Tractor Desk			2,034				2,034	U
38	Tractor Ride			2,334				2,334	U
39	Spider Apla Remote Control Unit	A		1,985				1,985	U
40	Spider Family of Networked Munitions Incr	A		10,796				10,796	U
41	Soldier Enhancement Program Comm/Electronics								U
42	Tactical Communications and Protective System	A		3,607				3,607	U
43	Unified Command Suite	A		14,295				14,295	U
44	Radio, Improved HF (COTS) Family	A							U
45	Family of Med Comm for Combat Casualty Care	A		19,893				19,893	U
	Comm - Intelligence Comm								
47	CI Automation Architecture	A		1,388		1,550		2,938	U
48	Army CA/MISO GPF Equipment	A		5,494				5,494	U
	Information Security								
49	Family of Biometrics	A		2,978				2,978	U
50	Information System Security Program-ISSP	A							U
51	Communications Security (COMSEC)	A		131,356		1,928		133,284	U
52	Defensive CYBER Operations	A		15,132				15,132	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Comm - Long Haul Communications											
53	Base Support Communications			28,913		16,082				16,082	U
Comm - Base Communications											
54	Information Systems			88,098		73,037				73,037	U
55	Emergency Management Modernization Program	A		5,362		8,550				8,550	U
56	Installation Info Infrastructure Mod Program	A		151,265		73,496		29,500		102,996	U
Elect Equip - Tact Int Rel Act (TIARA)											
59	JTT/CIBS-M	B		870		881				881	U
60	Prophet Ground			55,896		53,650				53,650	U
61	Drug Interdiction Program (Dip) (TIARA)			94,681							U
62	DCGS-A (MIP)			192,038		250,268		54,140		304,408	U
63	Joint Tactical Ground Station (JTAGS)	A		5,286		3,906				3,906	U
64	Trojan (MIP)	B		15,214		13,929		6,542		20,471	U
65	Mod of In-Svc Equip (Intel Spt) (MIP)			3,901		3,978				3,978	U
66	CI HUMINT Auto Reprting and Coll(CHARCS)			14,302		7,542		3,860		11,402	U
67	Close Access Target Reconnaissance (CATR)					8,010				8,010	U
68	Machine Foreign Language Translation System-M	A				8,125				8,125	U
69	Biometric Tactical Collection Devices (MIP)	A									U
Elect Equip - Electronic Warfare (EW)											
70	Lightweight Counter Mortar Radar	A		29,358		63,472				63,472	U
71	EW Planning & Management Tools (EWPMT)	A				2,556				2,556	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 13, 2016 at 10:56:31

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Department of the Army
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 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

13 Jan 2016

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Comm - Long Haul Communications									
53	Base Support Communications			27,452				27,452	U
Comm - Base Communications									
54	Information Systems			122,055				122,055	U
55	Emergency Management Modernization Program	A	1	4,286			1	4,286	U
56	Installation Info Infrastructure Mod Program	A		131,794		20,510		152,304	U
Elect Equip - Tact Int Rel Act (TIARA)									
59	JTT/CIBS-M	B		5,337				5,337	U
60	Prophet Ground								U
61	Drug Interdiction Program (Dip) (TIARA)								U
62	DCGS-A (MIP)			242,514		33,032		275,546	U
63	Joint Tactical Ground Station (JTAGS)	A		4,417				4,417	U
64	Trojan (MIP)	B		17,455		3,305		20,760	U
65	Mod of In-Svc Equip (Intel Spt) (MIP)			44,965				44,965	U
66	CI HUMINT Auto Reprting and Coll (CHARCS)			7,658		7,233		14,891	U
67	Close Access Target Reconnaissance (CATR)			7,970				7,970	U
68	Machine Foreign Language Translation System-M	A		545				545	U
69	Biometric Tactical Collection Devices (MIP)	A				5,670		5,670	U
Elect Equip - Electronic Warfare (EW)									
70	Lightweight Counter Mortar Radar	A		74,038		25,892		99,930	U
71	EW Planning & Management Tools (EWPMT)	A		3,235				3,235	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 13, 2016 at 10:56:31

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 (Dollars in Thousands)

13 Jan 2016

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
72	Air Vigilance (AV)	A		7,000		8,224				8,224	U
73	Crew					2,960				2,960	U
74	Family Of Persistent Surveillance Capabilitie	A		32,083		1,722		14,847		16,569	U
75	Counterintelligence/Security Countermeasures			42,020		447		19,535		19,982	U
76	CI Modernization	A				228				228	U
Elect Equip - Tactical Surv. (Tac Surv)											
77	Sentinel Mods			44,305		43,285				43,285	U
78	Night Vision Devices	A		103,656		124,216				124,216	U
79	Small Tactical Optical Rifle Mounted MLRF			18,520		23,216				23,216	U
80	Indirect Fire Protection Family of Systems	A		68,296		60,679				60,679	U
81	Family of Weapon Sights (FWS)	A		2,000		53,453				53,453	U
82	Artillery Accuracy Equip			5,875		3,338				3,338	U
83	Profiler			3,115		4,057				4,057	U
84	Mod of In-Svc Equip (Firefinder Radars)			4,186							U
85	Joint Battle Command - Platform (JBC-P)	A		87,892		133,339				133,339	U
86	Joint Effects Targeting System (JETS)					47,212				47,212	U
87	Mod of In-Svc Equip (LLDR)	A		16,885		22,314				22,314	U
88	Computer Ballistics: LHMCB XM32	A				12,131		2,601		14,732	U
89	Mortar Fire Control System			29,040		10,075				10,075	U
90	Counterfire Radars			154,520		198,379				198,379	U

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Department of the Army
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 (Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
72	Air Vigilance (AV)	A		733				733	U
73	Crew								U
74	Family Of Persistent Surveillance Capabilitie	A		1,740		11,610		13,350	U
75	Counterintelligence/Security Countermeasures			455		23,890		24,345	U
76	CI Modernization	A		176				176	U
Elect Equip - Tactical Surv. (Tac Surv)									
77	Sentinel Mods			40,171				40,171	U
78	Night Vision Devices	A		163,029				163,029	U
79	Small Tactical Optical Rifle Mounted MLRF			15,885				15,885	U
80	Indirect Fire Protection Family of Systems	A		48,427		4,270		52,697	U
81	Family of Weapon Sights (FWS)	A		55,536				55,536	U
82	Artillery Accuracy Equip			4,187				4,187	U
83	Profiler								U
84	Mod of In-Svc Equip (Firefinder Radars)								U
85	Joint Battle Command - Platform (JBC-P)	A		137,501				137,501	U
86	Joint Effects Targeting System (JETS)			50,726				50,726	U
87	Mod of In-Svc Equip (LLDR)	A		28,058				28,058	U
88	Computer Ballistics: LHMBC XM32	A		5,924				5,924	U
89	Mortar Fire Control System			22,331		2,572		24,903	U
90	Counterfire Radars			314,509				314,509	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 13, 2016 at 10:56:31

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 (Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tactical C2 Systems											
91	Fire Support C2 Family	A		13,823		1,190		48		1,238	U
92	AIR & MSL Defense Planning & Control Sys			27,374		28,176				28,176	U
93	IAMD Battle Command System	A				20,917				20,917	U
94	Life Cycle Software Support (LCSS)			2,508		5,850				5,850	U
95	Network Management Initialization and Service	A		21,524		12,738				12,738	U
96	Maneuver Control System (MCS)	A		103,055		125,405		252		125,657	U
97	Global Combat Support System-Army (GCSS-A)	A		118,600		146,654				146,654	U
98	Integrated Personnel and Pay System-Army (IPP)	A		16,970		4,446				4,446	U
99	Reconnaissance and Surveying Instrument Set	A		10,113		16,218				16,218	U
100	Mod of In-Svc Equipment (ENFIRE)	A				1,138				1,138	U
Elect Equip - Automation											
101	Army Training Modernization			9,015		12,089				12,089	U
102	Automated Data Processing Equip			134,782		105,775		652		106,427	U
103	General Fund Enterprise Business Systems Fam	A		11,081		13,540				13,540	U
104	High Perf Computing Mod Pgm (HPCMP)	A		65,252		62,319				62,319	U
105	Contract Writing System	A									U
106	Reserve Component Automation Sys (RCAS)			17,631		17,894				17,894	U
Elect Equip - Audio Visual Sys (A/V)											
107	Tactical Digital Media	A									U
108	Items Less Than \$5M (Surveying Equipment)			5,437		4,242				4,242	U

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Department of the Army
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 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tactical C2 Systems									
91	Fire Support C2 Family	A		8,660				8,660	U
92	AIR & MSL Defense Planning & Control Sys			54,376	31	69,958	31	124,334	U
93	IAMD Battle Command System	A		204,969				204,969	U
94	Life Cycle Software Support (LCSS)			4,718				4,718	U
95	Network Management Initialization and Service	A		11,063				11,063	U
96	Maneuver Control System (MCS)	A		151,318				151,318	U
97	Global Combat Support System-Army (GCSS-A)	A		155,660				155,660	U
98	Integrated Personnel and Pay System-Army (IPP)	A		4,214				4,214	U
99	Reconnaissance and Surveying Instrument Set	A		16,185				16,185	U
100	Mod of In-Svc Equipment (ENFIRE)	A		1,565				1,565	U
Elect Equip - Automation									
101	Army Training Modernization			17,693				17,693	U
102	Automated Data Processing Equip			107,960		9,900		117,860	U
103	General Fund Enterprise Business Systems Fam	A		6,416				6,416	U
104	High Perf Computing Mod Pgm (HPCMP)	A		58,614				58,614	U
105	Contract Writing System	A		986				986	U
106	Reserve Component Automation Sys (RCAS)			23,828				23,828	U
Elect Equip - Audio Visual Sys (A/V)									
107	Tactical Digital Media	A		1,191				1,191	U
108	Items Less Than \$5M (Surveying Equipment)			1,995		96		2,091	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 13, 2016 at 10:56:31

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 (Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
	Elect Equip - Support										
109	Production Base Support (C-E)			426		425				425	U
110	BCT Emerging Technologies	A				7,438				7,438	U
999	Classified Programs			4,619		6,467				6,467	U
	Total Communications and Electronics Equipment			3,070,418		3,257,663		137,701		3,395,364	

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 Total Obligational Authority
 (Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	FY 2017 Base Cost	FY 2017 OCO Quantity	FY 2017 OCO Cost	FY 2017 Total Quantity	FY 2017 Total Cost	Se c
	Elect Equip - Support								
109	Production Base Support (C-E)			403				403	U
110	BCT Emerging Technologies	A							U
999	Classified Programs			4,436				4,436	U
Total Communications and Electronics Equipment				3,632,369		254,988		3,887,357	

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BW7100 / WIN-T - Ground Forces Tactical Network
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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: 0603782A, 0605350A, 0300349A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 346, 349
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	7,740	1,188	1,219	621	3	624	2,113	1,727	2,210	1,660	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,488.033	664.087	695.116	427.598	9.572	437.170	705.017	686.482	784.093	748.258	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,488.033	664.087	695.116	427.598	9.572	437.170	705.017	686.482	784.093	748.258	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,488.033	664.087	695.116	427.598	9.572	437.170	705.017	686.482	784.093	748.258	Continuing	Continuing

(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>)	450.650	558.996	570.235	688.564	3,190.667	700.593	333.657	397.500	354.793	450.758	Continuing	Continuing

Description:

Warfighter Information Network - Tactical (WIN-T) connects all users to each other from theater down to the maneuver battalion, to joint and multinational elements, and the Defense Information System Network (DISN). WIN-T employs a combination of terrestrial, airborne, and satellite-based transport options, to provide robust, redundant connectivity. Network modernization is the Army's top priority, and WIN-T is its cornerstone program. It enables mission command on the move, keeping highly mobile and dispersed forces connected to one another and to the Army's global information network. With essential voice, video and data services, commanders can make decisions faster than ever before and from anywhere on the battlefield. WIN-T's infrastructure provides commanders and other users the ability to communicate via voice, data, and video simultaneously at all levels of security.

Warfighter Information Network- Tactical (WIN-T) Increment (Inc) 1: Networking At-the-Halt

A state-of-the-art, Beyond Line of Sight, at-the-halt communications network that ensures operational relevancy and interoperability with future increments. It provides the current Warfighter with communications backbone that enables them to exchange information (voice, data, and video) at high speeds with high reliability throughout the tactical Division, Brigade Combat Team (BCT), and Battalion level elements. Two sub-increments are noted as follows: (Increment 1a): Extended Networking at-the-Halt - with Ka military satellite communications capability; and (Increment 1b): Enhanced Networking at-the-Halt, the Increment 1a capability adding the Net Centric Waveform (NCW) and Global Information Grid (GIG) Compliant Colorless Core Capability to enhance interoperability with subsequent WIN-T Increments.

WIN-T Increment 2: Initial Networking On-the-Move

Warfighter Information Network (WIN-T) Increment 2 (Inc 2) provides the Army with On-The-Move (OTM) networking capability. The Inc 2 network retains capabilities delivered by WIN-T Inc 1 and by leveraging proven government and commercial technologies, adds greater network throughput and automated Network Management to optimize planning (to include spectrum use), initialization, monitoring and troubleshooting. WIN-T Inc 2 employs Satellite Communications (SATCOM) OTM to extend the network in maneuver Brigade Combat Teams (BCTs) to Company level for the first time through FY18. Using equipment mounted on combat platforms, WIN-T Inc 2 delivers a mobile capability that reduces reliance on fixed infrastructure and allows key leaders to move on the battlefield while retaining Situational Awareness and Mission Command capabilities. Using the Highband Networking Radio, with the Highband Networking Waveform and high performance antennas, the WIN-T Inc 2 Line-of-Sight network offers an adaptive 30 Megabit per second (Mbps) aggregate throughput to key leaders in their Command Post or in their vehicle. The WIN-T Inc 2 network is self-forming, which means that it automatically creates transmission paths based on terrain and environmental conditions; and self-healing, meaning that the paths will automatically re-route traffic to complete network transactions and calls even if one or more nodes break down or loses connectivity. This offers greater network reliability and better end-to-end connectivity than traditional point-to-point networks. WIN-T Inc 2 introduces the network management capability needed to keep the mobile and dispersed forces networked together through automated planning, initialization, monitoring, and troubleshooting. Finally, WIN-T Inc 2 adopts "Colorless Core" technology that

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BW7100 / WIN-T - Ground Forces Tactical Network
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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: 0603782A, 0605350A, 0300349A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 346, 349
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encrypts both classified and unclassified user information in the network and minimizes the number of users on the "core" of the network. The Colorless Core allows commanders to utilize the tactical network without fear of the enemy intercepting information. Colorless Core is a technical insertion in the WIN-T Inc 1b network which enables information sharing between WIN-T Inc 1b and WIN-T Inc 2.

The WIN-T Inc 2 capabilities are identified for fielding to Armored, Infantry, and Stryker BCTs, Fires and CABs and Division Headquarters. The Point of Presence and the Tactical Communications Node have both satellite and Line-of-Sight communication capability. The Soldier Network Extension (SNE) provides satellite communication only. The Point of Presence and the Tactical Communications Node are deployed at Division, Brigade and Battalion echelons. The SNE serves as the S3 vehicle at Battalion level and is also deployed down to Company level through FY18, when Network Capability Review (NCR) removes SNEs from the Company Commanders.

WIN-T Inc 3 developed NetOps and NetCentric Waveform (NCW) updates will be inserted into WIN-T Increment 2 equipped units.

Area Common User System Modernization (ACUS MOD):

Supports the Bridge to Future Networks (BFN) systems architecture as the Army's intermediate networking solution. ACUS Mod supports the Army's Transformation/Modularity initiatives by developing, procuring, and fielding product improvements into the Army's Stryker Brigade Combat Teams (SBCTs) and 24 Expeditionary Signal Battalions (ESBs). Also provides support to those systems that were fielded under the Area Common User System Modernization Plan (ACUS MP). Overall, ACUS Mod supports the Army's mission by providing Ethernet local area network communications between Tactical Operational Centers (TOC); TOC & Tactical Internet network management capabilities; integrated voice, video and data services; Line of Sight (LOS) and Beyond Line of Sight (BLOS) transmission capability.

The ACUS Mod systems consist of: the High Capacity Line of Sight (HCLOS/AN/TRC-190) radio which provides a 16 Mbps line of site transmission capability required to transport the increased volume of data on the digital battlefield; the Battlefield Video-Teleconferencing Center (BVTC) provides Video Teleconference (VTC) and data collaboration to assist the commander in coordinating and interacting with different echelons and adjacent units; the AN/TRC-170 tropospheric scatter radio which provides Beyond Line Of Sight (BLOS) communications with ranges in excess of 100 miles and bandwidth of up to 16 Mbps; and the Single Shelter Switch (SSS) which provides commanders with a "First In" capability and building block for network expansion. The SSS is enhanced to provide Joint and Coalition interoperability using Commercial-Off-The-Shelf and Government-Off-The-Shelf (COTS/GOTS) architecture for technology upgrade ease. The aforementioned systems are an integral part of the Warfighter Information Network-Tactical (WIN-T) Increment 1 system architecture. The Tactical NetOps Management System (TNMS) is a scalable modular NetOps capability that operates on multiple client or server platforms. It is fielded to units not provided with WIN-T Inc 1 NetOps capabilities. The TNMS will facilitate decision-making necessary to quickly identify network problems, shift resources, change configurations and coordinate the management of the critical network infrastructure supporting Mission Command (MC)/Command and Control (C2) functions.

These systems will be fielded to WIN-T Inc 1 units according to the Army Force Generation (ARFORGEN) schedule.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	835	460	322	3	325	1,237	787	1,194	507
	Total Obligation Authority	642.400	352.267	272.432	9.572	282.004	405.808	325.912	450.157	256.212
ANG	Quantity	208	744	288	-	288	876	940	1,016	1,153
	Total Obligation Authority	12.935	339.669	151.686	-	151.686	299.209	360.570	333.936	492.046
AR	Quantity	145	15	11	-	11	-	-	-	-
	Total Obligation Authority	8.752	3.180	3.480	-	3.480	-	-	-	-
Total: Secondary Distribution	Quantity	1,188	1,219	621	3	624	2,113	1,727	2,210	1,660
	Total Obligation Authority	664.087	695.116	427.598	9.572	437.170	705.017	686.482	784.093	748.258

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 BW7100 / WIN-T - Ground Forces Tactical Network

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0603782A, 0605350A, 0300349A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** 346, 349

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BW7110 / INCREMENT 1 - NETWORKING AT THE HALT	P-5a, P-21		- / 517.056	- / 264.331	- / 200.437	- / 109.567	- / 8.284	- / 117.851
P-5	BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE	P-5a, P-21		6,755 / 2,368.192	569 / 361.709	847 / 416.463	338 / 290.645	3 / 1.288	341 / 291.933
P-5	BW7130 / WIN-T - ACUS MODS	P-5a, P-21		985 / 602.785	619 / 38.047	372 / 78.216	283 / 27.386	- / -	283 / 27.386
P-40	Total Gross/Weapon System Cost			7,740 / 3,488.033	1,188 / 664.087	1,219 / 695.116	621 / 427.598	3 / 9.572	624 / 437.170

*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 2017 Base procurement dollars in the amount of \$437.170 million supports WIN-T Increments 1, 2 and ACUS MOD requirements below:

WIN-T Inc 1: FY 2017 Base dollars in the amount of \$109.567 million procures tech modernization equipment to support 35 various size units and the Regional Hub Nodes (RHN).

(a) Technical refresh and modernization are critical to ensure the Army's tactical network maintains its security posture and compliance with new Information Assurance policies. WIN-T Inc 1 is executing a 5-year tech refresh cycle to counter obsolescence and inability to sustain COTS IT components. A 5-year tech refresh cycle equates to 20% of the fleet annually (15-35) units of various sizes will undergo tech refresh annually. Modernizing with virtualization reduces life cycle costs by reducing Size, Weight, and Power through collapsing and converging capabilities that previously resided on individual hardware components into virtual servers, and leveraging common COTS solutions across various programs.

(b) Supports RHN transport convergence and end of life/tech refresh initiatives including requirements such as X-Band (in preparation for T2C2).

FY 2017 Overseas Contingency Operations (OCO) dollars in the amount of \$8.284 million will provide funding for the Ruggedized Tactical Communications Network Extensions (RTCNE) (PACSTAR or Equivalent) which provides the Combined Joint Task Force (CJTF) Advise and Assist teams the ability to extend IT data and security services from the Mission Command Node-Technical Control Facilities (MCN-TCF) to the End User Buildings (EUB) where the operational assets for the CJTF reside. This provides rapid expansion capability in an expeditionary foot print across the BPCs supporting 2000 US and Coalition users across 5 networks. This solution provides decision makers within the CJTF-OIR area of operations with a rapid and reliable connection to ARCENT SWA IT and Mission Command services. This capability would support small and medium sized Command Posts.

All of the FY17 efforts enable Army units to communicate more efficiently with WIN-T Increment 2 units and enhances Increment 1 information assurance and information security.

WIN-T Inc 2: FY 2017 Base procurement dollars in the amount of \$290.645 million procures 12 communications nodes (6 TCNs, 6 PoPs) and 326 other Configuration Items for fielding to 2 Divisions. FY 2017 funds will also continue to field and support previously procured assets.

WIN-T Inc 2 unit of measure quantity shown on P-21 is based on Communications Nodes, which consist of Tactical Communications Node (TCN), Points of Presence (PoP) and Soldier Network Extension (SNE).

Average Weapon System Procurement Unit Cost varies due to mix of configuration items (CIs) and procured quantities of echelons (e.g., Stryker BCT) to achieve Army fielding requirements. For example, Divisions have fewer CIs resulting in a higher average cost per unit as is the case in FY17.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BW7100 / WIN-T - Ground Forces Tactical Network
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603782A, 0605350A, 0300349A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 346, 349	
<p>The FY17 OCO includes \$1.288 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include 1 Tactical Relay-Tower and 2 Vehicle Wireless Packages.</p> <p>An Acquisition Decision Memorandum on May 30, 2014 directed the restructure of WIN-T Inc 3. As a result of this restructure, and once approved in an updated Capability Production Document (CPD), the Army Acquisition Objective (AAO) for WIN-T Inc 2 will be revised. At present, the AAO for WIN-T Inc 2 is 2,937 nodes, based on quantities in the WIN-T Inc 2 CPD approved by the Joint Requirements Oversight Council on 25 Nov 08, and most recently revised (Revision 3) and approved on 17 Oct 14.</p> <p>WIN-T Inc 2 will be fielded based on the Army Force Generation cycle.</p> <p>ACUS MODS: FY 2017 Base procurement dollars in the amount of \$27.386 million will procure and field 283 Battlefield Video-Teleconferencing Center(BVTC) III systems to replace BVTC II which has reached end of life. The funds will also support fielding, logistics, tech refresh, unit validation tests, and program management support for the Single Shelter Switch (SSS), TNMS and HCLOS.</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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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network	Item Number / Title [DODIC]: BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 346
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	517.056	264.331	200.437	109.567	8.284	117.851
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	517.056	264.331	200.437	109.567	8.284	117.851
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	517.056	264.331	200.437	109.567	8.284	117.851

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Components (NCW MODEM)	-	-	59.704	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MWO kits	-	-	27.730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESB MWO kits ^(†)	3,288.000	9	29.592	3,288.000	3	9.864	-	-	-	-	-	-	-	-	-	-	-	-
BCT MWO kits ^(†)	1,024.000	66	67.584	1,024.000	27	27.648	-	-	-	-	-	-	-	-	-	-	-	-
Division MWO kits ^(†)	1,341.000	8	10.728	1,341.000	1	1.341	-	-	-	-	-	-	-	-	-	-	-	-
Network Operation - Signal School	-	-	10.368	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ENG/INTG	-	-	40.991	-	-	7.500	-	-	1.223	-	-	-	-	-	-	-	-	-
Contractor Field Service Representative	-	-	39.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	36.578	-	-	8.669	-	-	10.645	-	-	-	-	-	-	-	-	-
Fielding	-	-	58.431	-	-	11.000	-	-	13.011	-	-	-	-	-	-	-	-	-
RHN	-	-	13.645	-	-	7.500	-	-	7.630	-	-	7.806	-	-	-	-	-	7.806
PACSTAR	-	-	8.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FDMA/STT's SATCOM Upgrade	-	-	4.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	26.413	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-
Software	-	-	21.092	-	-	2.000	-	-	1.736	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network						Item Number / Title [DODIC]: BW7110 / INCREMENT 1 - NETWORKING AT THE HALT					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code: 346					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
NETOPS HW	-	-	12.096	-	-	61.316	-	-	-	-	-	-	-	-	-	-	-	-
NETOPS SW	-	-	5.080	-	-	29.417	-	-	-	-	-	-	-	-	-	-	-	-
ESB NETOPS Kits ^(†)	-	-	-	-	-	-	4,603.200	2	9.206	-	-	-	-	-	-	-	-	-
BCT NETOPS kits ^(†)	-	-	-	-	-	-	1,433.600	30	43.008	-	-	-	-	-	-	-	-	-
Division NETOPS Kits ^(†)	-	-	-	-	-	-	1,877.400	2	3.755	-	-	-	-	-	-	-	-	-
NETOPS Fielding	-	-	4.112	-	-	10.887	-	-	5.313	-	-	-	-	-	-	-	-	-
NETOPS Training	-	-	-	-	-	9.979	-	-	2.550	-	-	-	-	-	-	-	-	-
Netops ENG/INTG	-	-	2.903	-	-	13.610	-	-	4.779	-	-	-	-	-	-	-	-	-
ESB Tech-Mod Kits ^(†)	-	-	-	-	-	-	5,589.600	2	11.179	5,918.000	2	11.836	-	-	-	5,918.000	2	11.836
BCT Tech-Mod Kits ^(†)	-	-	-	-	-	-	1,740.800	30	52.224	1,843.147	30	55.294	-	-	-	1,843.147	30	55.294
Division Tech-Mod Kits ^(†)	-	-	-	-	-	-	2,279.500	2	4.559	2,413.667	3	7.241	-	-	-	2,413.667	3	7.241
Technical Refresh/ Modernization Fielding	-	-	-	-	-	-	-	-	5.313	-	-	5.074	-	-	-	-	-	5.074
Technical Refresh/ Modernization Training	-	-	-	-	-	-	-	-	2.766	-	-	3.752	-	-	-	-	-	3.752
Technical Refresh/ Modernization ENG/ INTG	-	-	-	-	-	-	-	-	9.559	-	-	5.692	-	-	-	-	-	5.692
Secure Wireless MWO kits ^(†)	-	-	-	269.494	156	42.041	-	-	-	-	-	-	-	-	-	-	-	-
Secure Wireless Support	-	-	-	-	-	10.559	-	-	-	-	-	-	-	-	-	-	-	-
RTCNE ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	133.613	62	8.284	133.613	62	8.284
<i>Subtotal: Recurring Cost</i>	-	-	<i>479.025</i>	-	-	<i>255.331</i>	-	-	<i>188.456</i>	-	-	<i>96.695</i>	-	-	<i>8.284</i>	-	-	<i>104.979</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>479.025</i>	-	-	<i>255.331</i>	-	-	<i>188.456</i>	-	-	<i>96.695</i>	-	-	<i>8.284</i>	-	-	<i>104.979</i>
Support - Program Management Cost																		
Government Management	-	-	17.494	-	-	4.140	-	-	5.510	-	-	5.916	-	-	-	-	-	5.916
Contractor Management	-	-	20.536	-	-	4.860	-	-	6.471	-	-	6.956	-	-	-	-	-	6.956
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>38.030</i>	-	-	<i>9.000</i>	-	-	<i>11.981</i>	-	-	<i>12.872</i>	-	-	-	-	-	<i>12.872</i>
Gross/Weapon System Cost	-	-	517.056	-	-	264.331	-	-	200.437	-	-	109.567	-	-	8.284	-	-	117.851

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network	Item Number / Title [DODIC]: BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 346

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	264.331	200.437	109.567	8.284	117.851
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	264.331	200.437	109.567	8.284	117.851

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12			P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network					Item Number / Title [DODIC]: BW7110 / INCREMENT 1 - NETWORKING AT THE HALT				
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
ESB MWO kits ^(†)		2015	ESB MWO Kits / Various	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2015	Jul 2015	3	3,288.000	Y		Nov 2014
BCT MWO kits ^(†)		2015	BCT MWO Kits / Various	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2015	Jul 2015	27	1,024.000	Y		Nov 2014
Division MWO kits ^(†)		2015	DIV MWO Kits / Various	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2015	Jul 2015	1	1,341.000	Y		Nov 2014
ESB NETOPS Kits ^(†)		2016	ESB NETOPS Kits / GDMS, Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2016	May 2016	2	4,603.200	Y		Mar 2012
BCT NETOPS kits ^(†)		2016	BCT NETOPS Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2016	May 2016	30	1,433.600	Y		Mar 2012
Division NETOPS Kits ^(†)		2016	DIV NETOPS Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2016	May 2016	2	1,877.400	Y		Mar 2012
ESB Tech-Mod Kits ^(†)		2016	ESB Tech-Mod Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2016	May 2016	2	5,589.600	Y		Mar 2012
ESB Tech-Mod Kits ^(†)		2017	ESB Tech-Mod Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	May 2017	2	5,918.000	Y		Jul 2015
BCT Tech-Mod Kits ^(†)		2016	BCT Tech-Mod Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2016	May 2016	30	1,740.800	Y		Mar 2012
BCT Tech-Mod Kits ^(†)		2017	BCT Tech-Mod Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Jan 2017	May 2017	30	1,843.147	Y		Jul 2015
Division Tech-Mod Kits ^(†)		2016	DIV Tech- Mod Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2016	May 2016	2	2,279.500	Y		Mar 2012
Division Tech-Mod Kits ^(†)		2017	DIV Tech- Mod Kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Jan 2017	May 2017	3	2,413.667	Y		Jul 2015
Secure Wireless MWO kits ^(†)		2015	Secure Wireless MWO kits / GDMS Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Sep 2015	Feb 2016	156	269.494	Y		Sep 2015
RTCNE ^(†)	✓	2017	TBD-RCTNE / TBD	TBD	TBD-RCTNE	Jun 2017	Mar 2018	62	133.613			

^(†) indicates the presence of a P-21

Remarks:

1. In FY16 - 31 units will be fielded with Inc 1b MWO kits which were procured in FY15. In addition, Secure Wireless MWO kits which were procured in FY15 will be fielded.
2. In FY17 - 34 units will be fielded NETOPS/Modernization kits which were procured in FY16.

Various - Plan to use a combination of Global Tactical Advanced Communications Systems (GTACS), Common Hardware System (CHS) contract and in house agencies in order to achieve best value.

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Exhibit P-21, Production Schedule: PB 2017 Army																									Date: February 2016																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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ESB MWO kits Prior Years Deliveries: 9 <table border="1"> <tr> <td>1</td> <td>2015</td> <td>ARMY</td> <td></td> <td>3</td> <td>-</td> <td>3</td> <td></td> <td></td> <td></td> <td>A</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> </tr> </table> BCT MWO kits Prior Years Deliveries: 66 <table border="1"> <tr> <td>2</td> <td>2015</td> <td>ARMY</td> <td></td> <td>27</td> <td>-</td> <td>27</td> <td></td> <td></td> <td></td> <td>A</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>-</td> </tr> </table> Division MWO kits Prior Years Deliveries: 8 <table border="1"> <tr> <td>3</td> <td>2015</td> <td>ARMY</td> <td></td> <td>1</td> <td>-</td> <td>1</td> <td></td> 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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network
		Item Number / Title [DODIC]: BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

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			
ESB MWO kits																																	
Prior Years Deliveries: 9																																	
	1	2015	ARMY	3	3	-																							-				
BCT MWO kits																																	
Prior Years Deliveries: 66																																	
	2	2015	ARMY	27	27	-																							-				
Division MWO kits																																	
Prior Years Deliveries: 8																																	
	3	2015	ARMY	1	1	-																							-				
ESB NETOPS Kits																																	
	4	2016	ARMY	2	2	-																							-				
BCT NETOPS kits																																	
	5	2016	ARMY	30	30	-																							-				
Division NETOPS Kits																																	
	6	2016	ARMY	2	2	-																							-				
ESB Tech-Mod Kits																																	
	7	2016	ARMY	2	2	-																							-				
	7	2017	ARMY	2	-	2																							-				
BCT Tech-Mod Kits																																	
	8	2016	ARMY	30	30	-																							-				
	8	2017	ARMY	30	-	30																							-				
Division Tech-Mod Kits																																	
	9	2016	ARMY	2	2	-																							-				
	9	2017	ARMY	3	-	3																							-				
Secure Wireless MWO kits																																	
	10	2015	ARMY	156	104	52	13	13	13	13																			-				
RTCNE																																	
	✓ 11	2017	ARMY	62	-	62																							-				
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network
		Item Number / Title [DODIC]: BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	ESB MWO Kits - Various	1	10	20	-	4	6	10	-	4	6	10
2	BCT MWO Kits - Various	1	10	20	-	4	6	10	-	4	6	10
3	DIV MWO Kits - Various	1	10	20	-	4	6	10	-	4	6	10
4	ESB NETOPS Kits - GDMS, Taunton, MA	1	10	20	-	4	-	4	-	4	-	4
5	BCT NETOPS Kits - GDMS Taunton, MA	1	10	20	-	4	-	4	-	4	-	4
6	DIV NETOPS Kits - GDMS Taunton, MA	1	10	20	-	4	-	4	-	4	-	4
7	ESB Tech-Mod Kits - GDMS Taunton, MA	1	10	20	-	4	-	4	-	4	-	4
8	BCT Tech-Mod Kits - GDMS Taunton, MA	1	10	20	-	4	-	4	-	4	-	4
9	DIV Tech- Mod Kits - GDMS Taunton, MA	1	10	20	-	4	-	4	-	4	-	4
10	Secure Wireless MWO kits - GDMS Taunton, MA	1	10	20	-	4	-	4	-	4	-	4
11	TBD-RCTNE - TBD	1	10	20	-	4	4	8	-	4	4	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-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network	Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 349

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	6,755	569	847	338	3	341
Gross/Weapon System Cost (\$ in Millions)	2,368.192	361.709	416.463	290.645	1.288	291.933
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,368.192	361.709	416.463	290.645	1.288	291.933
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,368.192	361.709	416.463	290.645	1.288	291.933

(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)	350.584	635.692	491.692	859.896	429.333	856.109

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
TCN (COMM NODE) ^(f)	3,118.000	220	685.960	3,331.182	11	36.643	2,753.261	23	63.325	6,436.667	6	38.620	-	-	-	6,436.667	6	38.620
SNE (COMM NODE) ^(f)	765.984	699	535.423	695.967	214	148.937	711.893	121	86.139	-	-	-	-	-	-	-	-	-
PoP (COMM NODE) ^(f)	1,527.749	203	310.133	1,306.250	20	26.125	1,180.654	26	30.697	2,809.333	6	16.856	-	-	-	2,809.333	6	16.856
NOSC-B	2,904.840	25	72.621	-	-	-	2,905.500	2	5.811	-	-	-	-	-	-	-	-	-
NOSC-D	2,290.533	15	34.358	2,967.500	2	5.935	3,014.000	1	3.014	5,682.500	2	11.365	-	-	-	5,682.500	2	11.365
VWP B-KIT	134.450	262	35.226	194.848	33	6.430	194.525	40	7.781	228.500	4	0.914	54.000	2	0.108	170.333	6	1.022
TR-T	1,120.771	35	39.227	1,508.500	2	3.017	1,656.333	3	4.969	3,220.000	2	6.440	1,180.000	1	1.180	2,540.000	3	7.620
JGN	1,315.938	16	21.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MCN-B	77.098	41	3.161	96.500	2	0.193	58.333	3	0.175	110.500	2	0.221	-	-	-	110.500	2	0.221
IP Phone	0.398	3,525	1.404	1.655	200	0.331	1.458	430	0.627	2.759	220	0.607	-	-	-	2.759	220	0.607
IP Phone Secure	1.353	1,503	2.034	5.507	75	0.413	5.646	175	0.988	10.922	90	0.983	-	-	-	10.922	90	0.983
STT+	498.044	205	102.099	533.700	10	5.337	481.478	23	11.074	919.333	6	5.516	-	-	-	919.333	6	5.516
Regional Hub Nodes	1,851.333	6	11.108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Recurring Engineering	-	-	51.632	-	-	-	-	-	6.200	-	-	-	-	-	-	-	-	-
End of Life	-	-	-	-	-	3.377	-	-	24.773	-	-	72.449	-	-	-	-	-	72.449
Post Deployment Software Support	-	-	51.632	-	-	38.591	-	-	53.920	-	-	54.627	-	-	-	-	-	54.627

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network						Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code: 349					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	1,957.072	-	-	275.329	-	-	299.493	-	-	208.598	-	-	1.288	-	-	209.886
<i>Subtotal: Flyaway Cost</i>	-	-	1,957.072	-	-	275.329	-	-	299.493	-	-	208.598	-	-	1.288	-	-	209.886
Support - Data Cost																		
Management Data	-	-	-	-	-	3.876	-	-	37.627	-	-	2.708	-	-	-	-	-	2.708
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	3.876	-	-	37.627	-	-	2.708	-	-	-	-	-	2.708
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	143.036	-	-	21.330	-	-	18.595	-	-	18.015	-	-	-	-	-	18.015
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	143.036	-	-	21.330	-	-	18.595	-	-	18.015	-	-	-	-	-	18.015
Support - Fielding Cost																		
Fielding	-	-	39.845	-	-	21.009	-	-	26.420	-	-	27.182	-	-	-	-	-	27.182
<i>Subtotal: Support - Fielding Cost</i>	-	-	39.845	-	-	21.009	-	-	26.420	-	-	27.182	-	-	-	-	-	27.182
Support - Program Management Cost																		
Government Management	-	-	81.197	-	-	16.741	-	-	15.134	-	-	15.499	-	-	-	-	-	15.499
<i>Subtotal: Support - Program Management Cost</i>	-	-	81.197	-	-	16.741	-	-	15.134	-	-	15.499	-	-	-	-	-	15.499
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	95.026	-	-	17.017	-	-	13.785	-	-	10.525	-	-	-	-	-	10.525
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	95.026	-	-	17.017	-	-	13.785	-	-	10.525	-	-	-	-	-	10.525
Support - Training Cost																		
Services	-	-	52.016	-	-	6.407	-	-	5.409	-	-	8.118	-	-	-	-	-	8.118
<i>Subtotal: Support - Training Cost</i>	-	-	52.016	-	-	6.407	-	-	5.409	-	-	8.118	-	-	-	-	-	8.118
Gross/Weapon System Cost	350.584	6,755	2,368.192	635.692	569	361.709	491.692	847	416.463	859.896	338	290.645	429.333	3	1.288	856.109	341	291.933

Secondary Distribution			FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity		569	259	169	3	172
	Total Obligation Authority		361.709	108.774	144.759	1.288	146.047

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network	Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 349

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	-	588	169	-	169
	Total Obligation Authority	-	307.689	145.886	-	145.886
Total:	Quantity	569	847	338	3	341
Secondary Distribution	Total Obligation Authority	361.709	416.463	290.645	1.288	291.933

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12			P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network				Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE					

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
TCN (COMM NODE) ^(†)		2015	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Mar 2015	Nov 2016	11	3,331.182			
TCN (COMM NODE) ^(†)		2016	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Feb 2016	Apr 2017	23	2,753.261			
TCN (COMM NODE) ^(†)		2017	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Feb 2017	Aug 2018	6	6,436.667			
SNE (COMM NODE) ^(†)		2015	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Mar 2015	Jun 2016	214	695.967			
SNE (COMM NODE) ^(†)		2016	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Feb 2016	Apr 2017	121	711.893			
PoP (COMM NODE) ^(†)		2015	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Mar 2015	Aug 2016	20	1,306.250			
PoP (COMM NODE) ^(†)		2016	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Feb 2016	Aug 2017	26	1,180.654			
PoP (COMM NODE) ^(†)		2017	General Dynamics C4 Systems / Taunton MA	SS / IDIQ	Aberdeen Proving Ground, MD	Feb 2017	Aug 2018	6	2,809.333			

^(†) indicates the presence of a P-21

Remarks:

Procurement of Lot 4 SNEs and Lot 5 Hardware was deferred until FRP authorization 11 May 2015. Contract awarded 15 Jun 15. Lot 4 SNEs are included in Prior Year Quantity count as an FY13 OPA-funded procurement.

1. From FY09-FY14 - 19 BCTs and 6 DIV HQ were procured, along with 5 Fixed Regional Hubs and 2 Training Bases; 12 BCTs and 4 DIV HQ along with 1 Training Base were fielded.
2. In FY15 - 1 DIV HQ, 6 IBCT Eng Co and Mvr Bn and 3 SBCT Eng Co were procured; and 2 BCTs, 2 DIV HQ, 4 Regional Hub Nodes, 1 Training Base, 3 IBCT Eng Co and Mvr Bn and 1 SBCT Eng Co will be fielded.
3. In FY16 - 1 DIV HQs, 2 BCTs, 4 IBCT Co Eng and Mvr Bn, and 1 SBCT Eng Co will be procured. 1 DIV HQ, 1 Regional Hub Node, 3 IBCT Eng Co and Mvr Bn will be fielded.
4. In FY17 - 2 DIV HQs will be procured. 1 DIV HQs, 3 BCTs, 4 IBCT Eng Co and Mvr Bn and 1 SBCT Eng Co will be fielded.

*18 month cycle from Procurement to Delivery

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network
		Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
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 1 4	BAL D U E A S O F 1 O C T	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	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
TCN (COMM NODE)																															
Prior Years Deliveries: 220																															
	1	2015	ARMY	11	-	11																								11	
	1	2016	ARMY	23	-	23																								23	
	1	2017	ARMY	6	-	6																								6	
SNE (COMM NODE)																															
Prior Years Deliveries: 699																															
	2	2015	ARMY	214	-	214																								144	
	2	2016	ARMY	121	-	121																								121	
PoP (COMM NODE)																															
Prior Years Deliveries: 203																															
	3	2015	ARMY	20	-	20																								2	
	3	2016	ARMY	26	-	26																								26	
	3	2017	ARMY	6	-	6																								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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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network
	Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

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				
TCN (COMM NODE)																																		
Prior Years Deliveries: 220																																		
1	2015	ARMY		11	-	11	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2016	ARMY		23	-	23	-	-	-	-	-	-	2	2	3	2	2	2	2	2	2	2	2	2	1	1	-	-	-	-	-	-	-	-
1	2017	ARMY		6	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	4
SNE (COMM NODE)																																		
Prior Years Deliveries: 699																																		
2	2015	ARMY		214	70	144	10	20	20	20	20	20	20	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2016	ARMY		121	-	121	-	-	-	-	-	-	10	12	12	12	12	11	11	9	8	8	8	8	8	8	-	-	-	-	-	-	-	-
PoP (COMM NODE)																																		
Prior Years Deliveries: 203																																		
3	2015	ARMY		20	18	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	2016	ARMY		26	-	26	-	-	-	-	-	-	-	-	-	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-
3	2017	ARMY		6	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	4
								O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network
		Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

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
TCN (COMM NODE)																															
Prior Years Deliveries: 220																															
1		2015	ARMY	11	11	-																							-		
1		2016	ARMY	23	23	-																							-		
1		2017	ARMY	6	2	4	1	1	1	1																			-		
SNE (COMM NODE)																															
Prior Years Deliveries: 699																															
2		2015	ARMY	214	214	-																							-		
2		2016	ARMY	121	121	-																							-		
PoP (COMM NODE)																															
Prior Years Deliveries: 203																															
3		2015	ARMY	20	20	-																							-		
3		2016	ARMY	26	26	-																							-		
3		2017	ARMY	6	2	4	1	1	1	1																			-		
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network
		Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	General Dynamics C4 Systems - Taunton MA	1	69	123	-	5	13	18	-	5	13	18
2	General Dynamics C4 Systems - Taunton MA	1	69	123	-	5	13	18	-	5	13	18
3	General Dynamics C4 Systems - Taunton MA	1	69	123	-	5	13	18	-	5	13	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network
		Item Number / Title [DODIC]: BW7130 / WIN-T - ACUS MODS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	985	619	372	283	-	283
Gross/Weapon System Cost (\$ in Millions)	602.785	38.047	78.216	27.386	-	27.386
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	602.785	38.047	78.216	27.386	-	27.386
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	602.785	38.047	78.216	27.386	-	27.386

(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)	611.964	61.465	210.258	96.770	-	96.770

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
AN/TRC-190 (HCLOS) ^(†)	64.580	797	51.471	65.590	204	13.380	-	-	-	-	-	-	-	-	-	-	-	-
TNMS ^(†)	159.010	188	29.894	44.660	132	5.895	45.900	89	4.085	-	-	-	-	-	-	-	-	-
BVTC III ^(†)	-	-	-	39.000	283	11.037	39.780	283	11.258	40.580	283	11.483	-	-	-	40.580	283	11.483
SSS Tech Refresh/1b	-	-	-	-	-	0.700	-	-	13.974	-	-	0.402	-	-	-	-	-	0.402
Other Hardware (CHS item & requisitions)	-	-	167.581	-	-	1.096	-	-	13.359	-	-	1.019	-	-	-	-	-	1.019
Software	-	-	20.646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Package Fielding	-	-	98.134	-	-	0.897	-	-	11.774	-	-	1.880	-	-	-	-	-	1.880
Logistics	-	-	89.291	-	-	0.857	-	-	6.768	-	-	1.730	-	-	-	-	-	1.730
Engineering and Integration	-	-	117.450	-	-	1.397	-	-	8.018	-	-	3.406	-	-	-	-	-	3.406
Testing (Unit Validation&Certification)	-	-	9.973	-	-	0.135	-	-	1.158	-	-	1.017	-	-	-	-	-	1.017
Subtotal: Recurring Cost	-	-	584.439	-	-	35.394	-	-	70.394	-	-	20.938	-	-	-	-	-	20.938
Subtotal: Flyaway Cost	-	-	584.439	-	-	35.394	-	-	70.394	-	-	20.938	-	-	-	-	-	20.938
Support - Program Management Cost																		
Government Management	-	-	8.440	-	-	1.220	-	-	3.598	-	-	2.966	-	-	-	-	-	2.966
Contractor Management	-	-	9.906	-	-	1.432	-	-	4.224	-	-	3.482	-	-	-	-	-	3.482

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network						Item Number / Title [DODIC]: BW7130 / WIN-T - ACUS MODS					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	18.346	-	-	2.652	-	-	7.822	-	-	6.448	-	-	-	-	-	6.448
Gross/Weapon System Cost	611.964	985	602.785	61.465	619	38.047	210.258	372	78.216	96.770	283	27.386	-	-	-	96.770	283	27.386

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	266	201	153	-	153
	Total Obligation Authority	16.360	43.056	18.106	-	18.106
ANG	Quantity	208	156	119	-	119
	Total Obligation Authority	12.935	31.980	5.800	-	5.800
AR	Quantity	145	15	11	-	11
	Total Obligation Authority	8.752	3.180	3.480	-	3.480
Total: Secondary Distribution	Quantity	619	372	283	-	283
	Total Obligation Authority	38.047	78.216	27.386	-	27.386

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network	Item Number / Title [DODIC]: BW7130 / WIN-T - ACUS MODS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AN/TRC-190 (HCLOS) ^(†)		2015	Ultra Electronics(TRC-190) / Montreal, Canada	C / FFP	Aberdeen Proving Ground, MD	Jan 2015	Jul 2015	204	65.590			
TNMS ^(†)		2015	GDMS-TNMS / Taunton, MA	C / FFP	Aberdeen Proving Ground, MD	Jan 2015	Jul 2015	132	44.660			
TNMS ^(†)		2016	GDMS-TNMS / Taunton, MA	C / FFP	Aberdeen Proving Ground, MD	Jan 2016	Jul 2016	89	45.900			
BVTC III ^(†)		2015	GDMS-BVTC / Taunton, MA	C / FFP	Aberdeen Proving Ground, MD	Jul 2015	Jan 2016	283	39.000			
BVTC III ^(†)		2016	GDMS-BVTC / Taunton, MA	C / FFP	Aberdeen Proving Ground, MD	Jan 2016	Jul 2016	283	39.780			
BVTC III ^(†)		2017	GDMS-BVTC / Taunton, MA	C / FFP	Aberdeen Proving Ground, MD	Jan 2017	Jul 2017	283	40.580			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12 **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network **Item Number / Title [DODIC]:** BW7130 / WIN-T - ACUS MODS

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015														Fiscal Year 2016										BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016										
							O C T	N O V	D E C	J A N	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
AN/TRC-190 (HCLOS)																															
Prior Years Deliveries: 797																															
	1	2015	ARMY	204	-	204																								-	
TNMS																															
Prior Years Deliveries: 188																															
	2	2015	ARMY	132	-	132																								-	
	2	2016	ARMY	89	-	89																								29	
BVTC III																															
	3	2015	ARMY	283	-	283																								67	
	3	2016	ARMY	283	-	283																								212	
	3	2017	ARMY	283	-	283																								283	
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network	Item Number / Title [DODIC]: BW7130 / WIN-T - ACUS MODS
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Cost Elements <i>(Units in Each)</i>				Fiscal Year 2017														Fiscal Year 2018												BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
AN/TRC-190 (HCLoS)																																	
Prior Years Deliveries: 797																																	
	1	2015	ARMY	204	204	-																											
TNMS																																	
Prior Years Deliveries: 188																																	
	2	2015	ARMY	132	132	-																											
	2	2016	ARMY	89	60	29	15	14																									
BVTC III																																	
	3	2015	ARMY	283	216	67	24	24	19																								
	3	2016	ARMY	283	71	212	24	24	24	24	24	24	24	20																			
	3	2017	ARMY	283	-	283				A	-	-	-	-	-	-	23	24	24	24	24	24	24	24	24	24	24	20					
							O C T	N O V	D E C	J A N	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 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network	Item Number / Title [DODIC]: BW7130 / WIN-T - ACUS MODS
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Ultra Electronics(TRC-190) - Montreal, Canada	1	10	80	-	3	3	6	-	3	3	6
2	GDMS-TNMS - Taunton, MA	1	15	30	-	3	3	6	-	-	-	-
3	GDMS-BVTC - Taunton, MA	1	15	30	-	3	3	6	-	-	-	-

"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 2017 Army **Date:** February 2016

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: B00010 / Signal Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604818A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	29	34	111	168	-	168	231	309	390	198	-	1,470
Gross/Weapon System Cost (<i>\$ in Millions</i>)	46.185	27.757	49.898	58.250	-	58.250	102.254	128.068	149.088	135.734	-	697.234
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	46.185	27.757	49.898	58.250	-	58.250	102.254	128.068	149.088	135.734	-	697.234
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	46.185	27.757	49.898	58.250	-	58.250	102.254	128.068	149.088	135.734	-	697.234

(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>)	1,592.586	816.382	449.532	346.726	-	346.726	442.658	414.460	382.277	685.525	-	474.309

Description:

The Signal Modernization Program will provide upgrades to increase the capacity and capabilities of the Army units equipped with Warfighter Information Network-Tactical (WIN-T) Inc 1, in accordance with the capabilities described in the Transmission Systems Capability Production Document (CPD). These upgrades will enhance a unit's ability to support operations spanning the spectrum from combat operations to Homeland Defense and Disaster Relief by adding cellular phone capabilities, radio cross-banding, commercial internet access, new terrestrial and tropospheric scatter radio systems, and Top Secret Intel nodes to replace the aging TROJAN Spirit terminals. The initial effort will be to upgrade the Expeditionary Signal Battalions (ESB), which provide WIN-T Inc 1 communications support to large headquarters and Combat Support/CombatService Support units that do not have organic WIN-T. In the future, funding will support converging tactical sustainment and medical communications systems into WIN-T.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	34	111	112	-	112	210	259	374	182
	Total Obligation Authority	27.757	49.898	39.164	-	39.164	92.749	108.067	143.578	124.108
ANG	Quantity	-	-	56	-	56	-	50	-	8
	Total Obligation Authority	-	-	19.086	-	19.086	-	20.001	-	5.813
AR	Quantity	-	-	-	-	-	21	-	16	8
	Total Obligation Authority	-	-	-	-	-	9.505	-	5.510	5.813
Total: Secondary Distribution	Quantity	34	111	168	-	168	231	309	390	198
	Total Obligation Authority	27.757	49.898	58.250	-	58.250	102.254	128.068	149.088	135.734

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B00010 / Signal Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604818A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		29 / 46.185	34 / 27.757	111 / 49.898	168 / 58.250	- / -	168 / 58.250
P-40	Total Gross/Weapon System Cost			29 / 46.185	34 / 27.757	111 / 49.898	168 / 58.250	- / -	168 / 58.250

*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 2017 Base procurement dollars in the amount of \$58.250 million supports procurement of four (4) Commercial Coalition Equipment (CCE), sixteen (16) Cellular Solution (consist of 4G and WiFi) systems and ten (10) Top Secret-Sensitive Compartmented Information (TS-SCI) enclaves to support Transport Convergence. In addition, procures one hundred and thirty five (135) Terrestrial Line of Sight (TRILOS) and three (3) TROPO to support at the halt terrestrial and beyond line of sight communications supporting WIN-T Inc 1 units.

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: B00010 / Signal Modernization Program
		Item Number / Title [DODIC]: B00010 / Signal Modernization Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	29	34	111	168	-	168
Gross/Weapon System Cost (\$ in Millions)	46.185	27.757	49.898	58.250	-	58.250
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	46.185	27.757	49.898	58.250	-	58.250
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	46.185	27.757	49.898	58.250	-	58.250

(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)	1,592.586	816.382	449.532	346.726	-	346.726

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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-Equipment	589.656	29	17.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TS-SCI HW-Equipment ^(†)	-	-	-	-	-	-	75.000	49	3.675	76.300	10	0.763	-	-	-	76.300	10	0.763
CCE HW-Equipment ^(†)	-	-	-	230.000	14	3.220	233.000	21	4.893	238.000	4	0.952	-	-	-	238.000	4	0.952
Cellular Solution HW - Equipment ^(†)	-	-	-	980.000	12	11.760	850.000	26	22.100	882.000	16	14.112	-	-	-	882.000	16	14.112
TROPO HW-Equipment ^(†)	-	-	-	-	-	-	-	-	-	562.000	3	1.686	-	-	-	562.000	3	1.686
TRILOS HW - Equipment ^(†)	-	-	-	-	-	-	123.000	15	1.845	125.000	135	16.875	-	-	-	125.000	135	16.875
Engineering Support	-	-	6.026	-	-	3.039	-	-	3.534	-	-	4.136	-	-	-	-	-	4.136
Non- Recurring Engineering	-	-	2.140	-	-	1.859	-	-	1.941	-	-	2.757	-	-	-	-	-	2.757
System Test / Validation	-	-	0.559	-	-	1.072	-	-	1.476	-	-	1.723	-	-	-	-	-	1.723
Training	-	-	5.400	-	-	1.456	-	-	2.534	-	-	3.936	-	-	-	-	-	3.936
Fielding	-	-	5.510	-	-	1.092	-	-	2.651	-	-	3.102	-	-	-	-	-	3.102
Intital Spares	-	-	2.250	-	-	1.316	-	-	1.505	-	-	2.878	-	-	-	-	-	2.878
Software	-	-	4.050	-	-	1.214	-	-	1.945	-	-	3.447	-	-	-	-	-	3.447
<i>Subtotal: Recurring Cost</i>	-	-	43.035	-	-	26.028	-	-	48.099	-	-	56.367	-	-	-	-	-	56.367
<i>Subtotal: Flyaway Cost</i>	-	-	43.035	-	-	26.028	-	-	48.099	-	-	56.367	-	-	-	-	-	56.367

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: B00010 / Signal Modernization Program						Item Number / Title [DODIC]: B00010 / Signal Modernization Program					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Program Management Cost																		
Government Management	-	-	1.449	-	-	0.802	-	-	0.812	-	-	0.830	-	-	-	-	-	0.830
Contractor Management	-	-	1.701	-	-	0.927	-	-	0.987	-	-	1.053	-	-	-	-	-	1.053
<i>Subtotal: Support - Program Management Cost</i>	-	-	3.150	-	-	1.729	-	-	1.799	-	-	1.883	-	-	-	-	-	1.883
Gross/Weapon System Cost	1,592.586	29	46.185	816.382	34	27.757	449.532	111	49.898	346.726	168	58.250	-	-	-	346.726	168	58.250

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	34	111	112	-	112
	Total Obligation Authority	27.757	49.898	39.164	-	39.164
ANG	Quantity	-	-	56	-	56
	Total Obligation Authority	-	-	19.086	-	19.086
Total:	Quantity	34	111	168	-	168
Secondary Distribution	Total Obligation Authority	27.757	49.898	58.250	-	58.250

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: B00010 / Signal Modernization Program	Item Number / Title [DODIC]: 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
TS-SCI HW-Equipment ^(†)		2016	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2016	Aug 2016	49	75.000			
TS-SCI HW-Equipment ^(†)		2017	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	May 2017	10	76.300			
CCE HW-Equipment ^(†)		2015	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2015	Jul 2015	14	230.000			
CCE HW-Equipment ^(†)		2016	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2016	Aug 2016	21	233.000			
CCE HW-Equipment ^(†)		2017	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	May 2017	4	238.000			
Cellular Solution HW - Equipment ^(†)		2015	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Sep 2015	Jan 2016	12	980.000	Y		
Cellular Solution HW - Equipment ^(†)		2016	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	May 2016	Sep 2016	26	850.000	Y		
Cellular Solution HW - Equipment ^(†)		2017	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	May 2017	16	882.000	Y		
TROPO HW-Equipment ^(†)		2017	TBD / Aberdeen Proving Ground, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	Jul 2017	3	562.000	Y		
TRILOS HW - Equipment ^(†)		2016	TBD / Aberdeen Proving Ground, MD	C / IDIQ	Aberdeen Proving Ground, MD	Aug 2016	Feb 2017	15	123.000			
TRILOS HW - Equipment ^(†)		2017	TBD / Aberdeen Proving Ground, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	Jul 2017	135	125.000			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018												BALANCE		
O C 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	
TS-SCI HW-Equipment																																
	1	2016	ARMY	49	10	39	5	5	5	5	5	5	5	4															-			
	1	2017	ARMY	10	-	10				A -	-	-	-	2	2	2	2	2											-			
CCE HW-Equipment																																
	2	2015	ARMY	14	14	-																							-			
	2	2016	ARMY	21	4	17	2	2	2	3	3	3	2																-			
	2	2017	ARMY	4	-	4				A -	-	-	-	2	2														-			
Cellular Solution HW - Equipment																																
	3	2015	ARMY	12	12	-																							-			
	3	2016	ARMY	26	2	24	2	2	2	2	3	3	3	3	2	2													-			
	3	2017	ARMY	16	-	16				A -	-	-	-	2	2	2	2	2	2	2	2								-			
TROPO HW-Equipment																																
	4	2017	ARMY	3	-	3				A -	-	-	-	-	-	1	1	1											-			
TRILOS HW - Equipment																																
	5	2016	ARMY	15	-	15	-	-	-	-	3	3	3	3	3														-			
	5	2017	ARMY	135	-	135				A -	-	-	-	-	-	10	10	10	15	15	15	15	15	15	15	15	15		-			
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	10	75	-	4	-	4	-	4	-	4
2	GDMS CHS IV - Taunton, MA	1	10	75	-	4	-	4	-	4	-	4
3	GDMS CHS IV - Taunton, MA	1	10	75	-	4	-	4	-	4	-	4
4	TBD - Aberdeen Proving Ground, MD	1	5	50	-	6	-	6	-	6	-	6
5	TBD - Aberdeen Proving Ground, MD	1	5	50	-	6	-	6	-	6	-	6

"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 2017 Army **Date:** February 2016

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: B00009 / Joint Incident Site Communications Capability
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.869	7.915	4.062	5.749	-	5.749	6.065	4.396	-	-	-	36.056
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.869	7.915	4.062	5.749	-	5.749	6.065	4.396	-	-	-	36.056
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.869	7.915	4.062	5.749	-	5.749	6.065	4.396	-	-	-	36.056

(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 Incident Site Communications Capability (JISCC) provides interoperability communications support to the National Guard (NG) response forces and local first-responders in Defense Support of Civil Authorities (DSCA) missions/domestic emergencies. JISCC includes a modular system, support equipment, and team of trained JISCC operators and maintainers. JISCC provides critical capabilities to numerous NG missions to include large-scale pre-planned events, responses to man-made/natural disasters, and other civil support/humanitarian efforts. JISCC is a multi-platform communications bridge between first responders and other state, local, and federal agencies. Deployed in each state at the Joint Forces Headquarters (JFHQs), the JISCC is able to provide rapid incident response communications.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.419	0.403	-	0.403	0.444	0.471	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.915	3.643	5.346	-	5.346	5.621	3.925	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.915	4.062	5.749	-	5.749	6.065	4.396	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B00009 / Joint Incident Site Communications Capability
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B00009 / Joint Incident Site Communications Capability	P-5a, P-21		- / 7.869	- / 7.915	- / 4.062	- / 5.749	- / -	- / 5.749
P-40	Total Gross/Weapon System Cost			- / 7.869	- / 7.915	- / 4.062	- / 5.749	- / -	- / 5.749

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

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

Justification:
 FY 2017 Base Procurement dollars in the amount of \$5.749 million support the procurement of four (4) JISCC Delta Packages. A JISCC Delta Package includes Radio Bridging Voice Cross-Banding, Commercial Mission Network Enclave, Wireless and Cellular capabilities to support first responders and civil support missions.

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability	Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	7.869	7.915	4.062	5.749	-	5.749
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	7.869	7.915	4.062	5.749	-	5.749
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	7.869	7.915	4.062	5.749	-	5.749

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
RHN Hardware	659.400	5	3.297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JISCC Delta Package Hardware ^(†)	-	-	-	275.000	13	3.575	750.000	3	2.250	767.250	4	3.069	-	-	-	767.250	4	3.069
Software	-	-	0.495	-	-	0.792	-	-	0.206	-	-	0.849	-	-	-	-	-	0.849
Integration	-	-	0.659	-	-	0.950	-	-	0.287	-	-	0.751	-	-	-	-	-	0.751
Training	-	-	0.396	-	-	0.712	-	-	0.344	-	-	0.236	-	-	-	-	-	0.236
Fielding	-	-	0.376	-	-	0.706	-	-	0.366	-	-	0.276	-	-	-	-	-	0.276
Spares	-	-	0.251	-	-	0.554	-	-	0.284	-	-	0.371	-	-	-	-	-	0.371
Non- Recurring Engineering	-	-	1.645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>7.119</i>	-	-	<i>7.289</i>	-	-	<i>3.737</i>	-	-	<i>5.552</i>	-	-	-	-	-	<i>5.552</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>7.119</i>	-	-	<i>7.289</i>	-	-	<i>3.737</i>	-	-	<i>5.552</i>	-	-	-	-	-	<i>5.552</i>
Support - Program Management Cost																		
Government Management	-	-	0.083	-	-	0.066	-	-	0.036	-	-	0.022	-	-	-	-	-	0.022
Contractor Management	-	-	0.668	-	-	0.560	-	-	0.289	-	-	0.175	-	-	-	-	-	0.175
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>0.751</i>	-	-	<i>0.626</i>	-	-	<i>0.325</i>	-	-	<i>0.197</i>	-	-	-	-	-	<i>0.197</i>
Gross/Weapon System Cost	-	-	7.869	-	-	7.915	-	-	4.062	-	-	5.749	-	-	-	-	-	5.749

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability	Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.419	0.403	-	0.403
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	7.915	3.643	5.346	-	5.346
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	7.915	4.062	5.749	-	5.749

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12			P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability				Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability				

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
JISCC Delta Package Hardware		2015	GDMS- CHS IV / Taunton MA	C / IDIQ	Aberdeen Proving Ground, MD	Sep 2015	Jan 2016	13	275.000	Y		
JISCC Delta Package Hardware		2016	GDMS- CHS IV / Taunton MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2016	May 2016	3	750.000	Y		
JISCC Delta Package Hardware ^(†)		2017	GDMS- CHS IV / Taunton MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	May 2017	4	767.250	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12										P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability										Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2015										Fiscal Year 2016										BALANCE
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016										
							O C T	N O V	D E C	J A N	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	

JISCC Delta Package Hardware																														4
1	2017	ARMY		4	-	4																								4

O C T	N O V	D E C	J A N	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 2017 Army															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12										P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability										Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017										Fiscal Year 2018										BALANCE	
O C 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

JISCC Delta Package Hardware																													
1	2017	ARMY		4	-	4				A	-	-	-	-	1	1	1	1											-

O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability
		Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	5	30	-	4	-	4	-	-	-	-

"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 2017 Army **Date:** February 2016

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: BB5777 / JCSE Equipment (USREDCOM)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	149.804	3.540	5.008	5.068	-	5.068	5.051	4.926	5.138	5.239	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	149.804	3.540	5.008	5.068	-	5.068	5.051	4.926	5.138	5.239	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	149.804	3.540	5.008	5.068	-	5.068	5.051	4.926	5.138	5.239	Continuing	Continuing

(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, US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide C4 systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The Joint Communications Support Element (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 modernization program 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), the Army is mandated to fund 1/3rd fair share of JCSE's validated equipment modernization plan.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.540	5.008	5.068	-	5.068	5.051	4.926	5.138
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.540	5.008	5.068	-	5.068	5.051	4.926	5.138

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BB5777 / JCSE Equipment (USREDCOM)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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 (USREDCOM)	P-5a		- / 149.804	- / 3.540	- / 5.008	- / 5.068	- / -	- / 5.068
P-40	Total Gross/Weapon System Cost			- / 149.804	- / 3.540	- / 5.008	- / 5.068	- / -	- / 5.068

*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:
 JCSE: FY2017 base funding in the amount of \$5.068 million procures communications equipment based on Strategic Planning Guidance; which includes major upgrades to large and small aperture mobile satellite systems, Everything over Internet Protocol (EoIP), Airborne/En-Route, and terrestrial and single-channel equipment and program management and organic support. Currently employed commercial-off-the-shelf (COTS) equipment is approaching the end of its life cycle and requires replacement, along with technology refreshment; 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. Per the Planning Guidance, the ARMY is mandated to fund one-third of the fair share of JCSE's validated equipment modernization plan. JCSE's Modernization Program is built/restructured based on Combatant Command (CCMD) and Service Components' requirements and emerging technologies. Service's influence JCSE's spending plan through recommendations in concert with MDAP schedules, ensuring that Service dollars meet Joint Service requirements.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: BB5777 / JCSE Equipment (USREDCOM)	Item Number / Title [DODIC]: BB5777 / JCSE Equipment (USREDCOM)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	149.804	3.540	5.008	5.068	-	5.068
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	149.804	3.540	5.008	5.068	-	5.068
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	149.804	3.540	5.008	5.068	-	5.068

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
(JCSE) ^(t)	-	-	149.804	3,540.000	1	3.540	5,008.000	1	5.008	5,068.000	1	5.068	-	-	-	5,068.000	1	5.068
<i>Subtotal: Recurring Cost</i>	-	-	<i>149.804</i>	-	-	<i>3.540</i>	-	-	<i>5.008</i>	-	-	<i>5.068</i>	-	-	-	-	-	<i>5.068</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>149.804</i>	-	-	<i>3.540</i>	-	-	<i>5.008</i>	-	-	<i>5.068</i>	-	-	-	-	-	<i>5.068</i>
Gross/Weapon System Cost	-	-	149.804	-	-	3.540	-	-	5.008	-	-	5.068	-	-	-	-	-	5.068

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.540	5.008	5.068	-	5.068
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.540	5.008	5.068	-	5.068

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12			P-1 Line Item Number / Title: BB5777 / JCSE Equipment (USREDCOM)				Item Number / Title [DODIC]: BB5777 / JCSE Equipment (USREDCOM)					
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
(JCSE)		2017	Multiple (1) / Multiple	Various	Various	Aug 2017	Sep 2017	1	5,068.000			

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BB8500 / Defense Enterprise Wideband Satcom Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,495.344	121.085	172.306	143.805	-	143.805	133.863	178.093	170.270	139.721	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,495.344	121.085	172.306	143.805	-	143.805	133.863	178.093	170.270	139.721	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,495.344	121.085	172.306	143.805	-	143.805	133.863	178.093	170.270	139.721	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	5,530.962	-	5,530.962	-	-	-	-	Continuing	Continuing

Description:

The Defense Enterprise Wideband Satellite Communications (SATCOM) Systems (DEWSS) provides Super High Frequency (SHF) wideband and Anti-Jam (AJ) satellite communications supporting critical national strategic and tactical Command, Control, Communications and Intelligence (C3I) requirements. DEWSS is a Joint program supporting all of DoD, not just Army, and has oversight at the CJCS level. The DEWSS/Wideband Global Satelellite (WGS) will be used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications and long-haul connectivity.

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

The Senior National Leadership Communications (SNLC) program and the required modernization effort exists through a bilateral agreement for a 10-year user equipment modernization. This essential Priority 0 effort supports unique internal requirements that provide critical communications to support continuing relations between the United States President and Russia/Ukraine/Belarus/Kazakhstan leaders. The program includes the Direct Communications Link (DCL), Continuous Communications Link (CCL) and the Government-to-Government Communications Link (GGCL). Communications are for diplomatic peacekeeping, arms control and treaty verification purposes.

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.

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 Global Information Grid (GIG) and the DEWSS satellite earth terminal equipment, providing users with access to the Wideband Global SATCOM (WGS) system, the Defense Satellite

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BB8500 / 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	Item MDAP/MAIS Code(s): N/A	

Communications System, and other military and commercially available satellite constellations. Provides deployed Warfighters with global connectivity to military command and control systems, reachback 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.

The Enterprise Wideband Satellite Payload Control System provides for the management of Defense Satellite Communications System (DSCS) and Wideband Global SATCOM (WGS) earth terminal and satellite resources, which are required for rapid and efficient reaction to operational needs in support of the Warfighter. State-of-the-art strategic satellite payload network control and planning systems for use with DSCS, WGS, and commercial satellite systems are procured and installed at Wideband Satellite Operation Centers (WSOC) worldwide. Payload control functions control and configure the satellites. Network control functions manage communications between operators and processors, generate and drive display formats, and maintain and provide rapid access to the network databases. The Army's effort to digitize forces has created a tremendous increase in demand for bandwidth. Subsystems ensure efficient use of satellite power and spectrum, overcoming existing and projected bandwidth constraints, and allow U.S. forces to achieve information superiority on the battlefield. Provide reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	121.085	172.306	143.805	-	143.805	133.863	178.093	170.270	139.721
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	121.085	172.306	143.805	-	143.805	133.863	178.093	170.270	139.721

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BB8500 / Defense Enterprise Wideband Satcom Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B08701 / GMF Enhancement			- / 172.577	- / 13.224	- / 2.330	- / 1.440	- / -	- / 1.440
P-5	B08900 / Special Communications Links Program			- / 18.033	- / 2.268	- / 6.806	- / 6.363	- / -	- / 6.363
P-5	BB8416 / Enterprise Wideband Satellite Terminal - (Mod)	P-5a, P-21		- / 725.248	- / 23.135	- / 56.890	- / 54.798	- / -	- / 54.798
P-5	BB8501 / Enterprise Wideband Satellite Terminal Digital EQ	P-5a		- / 780.701	- / 37.949	- / 38.090	- / 25.520	- / -	- / 25.520
P-5	BB8509 / Enterprise Wideband Sat Payload Control System	P-5a		- / 898.785	- / 54.509	- / 68.190	- / 55.684	- / -	- / 55.684
P-40	Total Gross/Weapon System Cost			- / 2,495.344	- / 121.085	- / 172.306	- / 143.805	- / -	- / 143.805

*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 2017 Base procurement dollars in the amount of \$143.805 million support the following programs:

FY2017 Base dollars in the amount of \$1.440 million procures and integrates SHF Ka band capability with currently existing SHF X band capability, and conducts fielding and new equipment training of the AN/ TSC-93E in support of the Active, Reserve, and National Guard components and supports program management organic support.

FY 2017 Base procurement dollars in the amount of \$6.363 million supports modernization of the Direct Communications Link (DCL) from serial based circuits to an Internet Protocol architecture. Funding provides the procurement of hardware and software, installation, and training support.

FY 2017 Base procurement dollars in the amount of \$54.798 million procures Modernization of Enterprise Terminals (MET) systems, and provides the required engineering, integration, and installation support for terminal fielding.

FY 2017 Base procurement dollars in the amount \$25.520 million procures satellite terminal and baseband equipment and associated management systems in support of NETCOM's relocations of the satellite earth stations at Landstuhl, Germany and Camp Roberts, California. Provides the minimum essential baseband and telecommunications equipment to support the modernization of DCSS components and their integration into the DEWSS, including modernization of baseband infrastructure to enable net-centric Internet Protocol communications at satellite earth terminals. 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 2017 Base procurement dollars in the amount of \$55.684 million supports the procurement of hardware/software, engineering services, Integrated Logistics Support (ILS) and Information Assurance (IA) for the Enterprise Wideband Satellite Payload Control System, which acquires and installs state-of-the-art strategic and tactical satellite payload control, spectrum monitoring, transmission control and network planning systems for wideband satellite constellations. Without Wideband Control systems to plan mission communications through WGS and DSCS programs, WIN-T would not function as designed.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: B08701 / GMF Enhancement

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	72.577	3.224	2.330	1.440	-	1.440
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	72.577	3.224	2.330	1.440	-	1.440
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	72.577	3.224	2.330	1.440	-	1.440

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Fielding Cost																		
Fielding	-	-	-	-	-	0.168	-	-	0.100	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	0.168	-	-	0.100	-	-	-	-	-	-	-	-	-
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	1.726	-	-	1.000	-	-	0.550	-	-	-	-	-	0.550
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	1.726	-	-	1.000	-	-	0.550	-	-	-	-	-	0.550
Support - Program Management Cost																		
Government Management	-	-	72.577	-	-	0.022	-	-	0.055	-	-	0.035	-	-	-	-	-	0.035
<i>Subtotal: Support - Program Management Cost</i>	-	-	72.577	-	-	0.022	-	-	0.055	-	-	0.035	-	-	-	-	-	0.035
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	0.432	-	-	0.395	-	-	0.400	-	-	-	-	-	0.400
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	0.432	-	-	0.395	-	-	0.400	-	-	-	-	-	0.400
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	-	-	-	0.876	-	-	0.780	-	-	0.455	-	-	-	-	-	0.455
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	0.876	-	-	0.780	-	-	0.455	-	-	-	-	-	0.455

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems						Item Number / Title [DODIC]: B08701 / GMF Enhancement					
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	72.577	-	-	3.224	-	-	2.330	-	-	1.440	-	-	-	-	-	1.440

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.224	2.330	1.440	-	1.440
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.224	2.330	1.440	-	1.440

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: B08900 / Special Communications Links Program

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		18.033	2.268	6.806	6.363	-	6.363
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		18.033	2.268	6.806	6.363	-	6.363
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		18.033	2.268	6.806	6.363	-	6.363
<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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Program Management Cost																		
Government Management	-	-	18.033	-	-	2.268	-	-	6.806	-	-	6.363	-	-	-	-	-	6.363
<i>Subtotal: Support - Program Management Cost</i>	-	-	18.033	-	-	2.268	-	-	6.806	-	-	6.363	-	-	-	-	-	6.363
Gross/Weapon System Cost	-	-	18.033	-	-	2.268	-	-	6.806	-	-	6.363	-	-	-	-	-	6.363

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.268	6.806	6.363	-	6.363
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.268	6.806	6.363	-	6.363

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Exhibit P-5, Cost Analysis: PB 2017 Army						Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18				P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems				Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)			
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total		
Procurement Quantity (Units in Each)				-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)				725.248	23.135	56.890	54.798	-	-	54.798	
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)				725.248	23.135	56.890	54.798	-	-	54.798	
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)				725.248	23.135	56.890	54.798	-	-	54.798	
<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)				-	-	-	7,828.286	-	-	7,828.286	

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
MET Hardware ^(†)	42,701.231	13	555.116	2,660.333	3	7.981	3,521.714	7	24.652	2,810.333	9	25.293	-	-	-	2,810.333	9	25.293
IP Test Sets	-	-	0.600	-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	555.716	-	-	8.581	-	-	24.652	-	-	25.293	-	-	-	-	-	25.293
<i>Subtotal: Flyaway Cost</i>	-	-	555.716	-	-	8.581	-	-	24.652	-	-	25.293	-	-	-	-	-	25.293
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	-	-	-	7.000	-	-	-	-	-	7.000
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	-	-	-	-	-	-	-	-	-	7.000	-	-	-	-	-	7.000
Support - Fielding Cost																		
Fielding	-	-	28.156	-	-	6.254	-	-	9.364	-	-	12.005	-	-	-	-	-	12.005
<i>Subtotal: Support - Fielding Cost</i>	-	-	28.156	-	-	6.254	-	-	9.364	-	-	12.005	-	-	-	-	-	12.005
Support - Program Management Cost																		
Government Management	-	-	116.109	-	-	4.200	-	-	10.073	-	-	4.284	-	-	-	-	-	4.284
<i>Subtotal: Support - Program Management Cost</i>	-	-	116.109	-	-	4.200	-	-	10.073	-	-	4.284	-	-	-	-	-	4.284
Support - System Engineering Cost																		
System Engineering	-	-	25.267	-	-	4.100	-	-	12.802	-	-	6.217	-	-	-	-	-	6.217

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Item Number / Title [DODIC]:
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - System Engineering Cost</i>	-	-	25.267	-	-	4.100	-	-	12.802	-	-	6.217	-	-	-	-	-	6.217
Gross/Weapon System Cost	-	-	725.248	-	-	23.135	-	-	56.890	7,828.286	-	54.798	-	-	-	7,828.286	-	54.798

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	23.135	56.890	54.798	-	54.798
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	23.135	56.890	54.798	-	54.798

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems				Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)					

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
MET Hardware ^(†)		2015	Harris / Melbourne Florida	SS / FFP	ACC-RI	May 2015	Jun 2016	3	2,660.333			
MET Hardware ^(†)		2016	Harris / Melbourne Florida	SS / FFP	ACC-RI	May 2016	Jun 2017	7	3,521.714			
MET Hardware ^(†)		2017	Harris / Melbourne Florida	SS / FFP	ACC-RI	May 2017	Jun 2018	9	2,810.333			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems											Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)											

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015											Fiscal Year 2016											B A L A N C E						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015											Calendar Year 2016																
							O C T	N O V	D E C	J A N	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			
MET Hardware																																		
Prior Years Deliveries: 13																																		
	1	2015	ARMY	3	-	3								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		-			
	1	2016	ARMY	7	-	7																						A	-	-	-	-		7
	1	2017	ARMY	9	-	9																											9	

	O C T	N O V	D E C	J A N	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 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18										P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems										Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
MET Hardware																																	
Prior Years Deliveries: 13																																	
1		2015	ARMY	3	3	-																							-				
1		2016	ARMY	7	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1		2017	ARMY	9	-	9																							-				
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems
		Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Harris - Melbourne Florida	1	6	12	-	-	-	-	-	7	13	20

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		780.701	37.949	38.090	25.520	-	25.520
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		780.701	37.949	38.090	25.520	-	25.520
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		780.701	37.949	38.090	25.520	-	25.520

(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)	-	-	-	-	4,253.333	-	4,253.333

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Integrated Control Console	-	-	-	-	-	-	-	-	1.100	-	-	-	-	-	-	-	-	-
Encore II SMS Existing Tech Assist	-	-	-	-	-	-	-	-	1.346	-	-	-	-	-	-	-	-	-
MIDAS ^(†)	-	-	212.360	200.000	1	0.200	-	-	0.200	-	-	0.200	-	-	-	-	-	0.200
Baseband and Modem Modernization ^(†)	-	-	2.115	1,200.000	1	1.200	1,200.000	1	1.200	1,199.990	1	1.200	-	-	-	1,199.990	1	1.200
Camp Robert Sets/ Relocate ^(†)	-	-	4.400	9,978.000	1	9.978	8,566.000	1	8.566	5,687.000	1	5.687	-	-	-	5,687.000	1	5.687
Landstuhl Sets/ Relocate ^(†)	-	-	4.400	9,978.000	1	9.978	8,566.000	1	8.566	5,687.000	1	5.687	-	-	-	5,687.000	1	5.687
Power Distribution Rack Modernization ^(†)	-	-	-	166.334	3	0.499	100.000	5	0.500	166.670	3	0.500	-	-	-	166.670	3	0.500
Serial IP Test Set Modernization	-	-	-	-	-	-	-	-	1.265	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	223.275	-	-	21.855	-	-	22.743	-	-	13.274	-	-	-	-	-	13.274
<i>Subtotal: Flyaway Cost</i>	-	-	223.275	-	-	21.855	-	-	22.743	-	-	13.274	-	-	-	-	-	13.274
Support - Program Management Cost																		
Government Management	-	-	371.618	-	-	10.730	-	-	10.231	-	-	8.164	-	-	-	-	-	8.164

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	371.618	-	-	10.730	-	-	10.231	-	-	8.164	-	-	-	-	-	8.164
<i>Support - System Engineering Cost</i>																		
System Engineering	-	-	185.808	-	-	5.364	-	-	5.116	-	-	4.082	-	-	-	-	-	4.082
<i>Subtotal: Support - System Engineering Cost</i>	-	-	185.808	-	-	5.364	-	-	5.116	-	-	4.082	-	-	-	-	-	4.082
Gross/Weapon System Cost	-	-	780.701	-	-	37.949	-	-	38.090	4,253.333	-	25.520	-	-	-	4,253.333	-	25.520

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	37.949	38.090	25.520	-	25.520
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	37.949	38.090	25.520	-	25.520

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ
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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
MIDAS		2015	Raytheon / Marlborough Massachusetts	SS / FFP	APG, MD	Mar 2015	Apr 2015	1	200.000			
MIDAS		2016	TBD / TBD	C / TBD	TBD	Mar 2016	Apr 2016	-	-			
MIDAS		2017	TBD / TBD	C / TBD	TBD	Mar 2017	Apr 2017	-	-			
Baseband and Modem Modernization		2015	TYAD / Tobyhanna, PA	SS / FFP	TYAD	May 2015	Jun 2015	1	1,200.000			
Baseband and Modem Modernization		2016	TBD / TBD	C / TBD	TBD	May 2016	Jun 2016	1	1,200.000			
Baseband and Modem Modernization		2017	TBD / TBD	C / TBD	TBD	May 2017	Jun 2017	1	1,199.990			
Camp Robert Sets/Relocate		2015	TYAD / Tobyhanna, PA	SS / FFP	TYAD	May 2015	Jun 2015	1	9,978.000			
Camp Robert Sets/Relocate		2016	TBD / TBD	C / TBD	TBD	May 2016	Jun 2016	1	8,566.000			
Camp Robert Sets/Relocate		2017	TBD / TBD	C / TBD	TBD	May 2017	Jun 2017	1	5,687.000			
Landstuhl Sets/Relocate		2015	TYAD / Tobyhanna, PA	SS / FFP	TYAD	May 2015	Jun 2015	1	9,978.000			
Landstuhl Sets/Relocate		2016	TYAD / Tobyhanna, PA	C / TBD	TBD	May 2016	Jun 2016	1	8,566.000			
Landstuhl Sets/Relocate		2017	TYAD / Tobyhanna, PA	C / TBD	TBD	May 2017	Jun 2017	1	5,687.000			
Power Distribution Rack Modernization		2015	TYAD / Tobyhanna, PA	SS / FFP	TYAD	May 2015	Jun 2015	3	166.334			
Power Distribution Rack Modernization		2016	TBD / TBD	C / TBD	TBD	May 2016	Jun 2016	5	100.000			
Power Distribution Rack Modernization		2017	TBD / TBD	C / TBD	TBD	May 2017	Jun 2017	3	166.670			

Remarks:
P-21 is not provided, as these lines purchase multiple, cross-system components.

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Exhibit P-5, Cost Analysis: PB 2017 Army						Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems			Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System		
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:		
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			898.785	54.509	68.190	55.684	-	55.684
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			898.785	54.509	68.190	55.684	-	55.684
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			898.785	54.509	68.190	55.684	-	55.684
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	-	5,062.182	-	5,062.182

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Control Satellite Lab (CSL)	-	-	1.000	-	-	0.500	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
Software	-	-	53.963	-	-	0.854	-	-	0.800	-	-	0.900	-	-	-	-	-	0.900
WSTARS/WMIJ ^(†)	-	-	32.200	-	-	0.200	9,820.000	1	9.820	9,284.000	1	9.284	-	-	-	9,284.000	1	9.284
Replace Radio Frequency System (RRFIS) ^(†)	-	-	609.404	-	-	0.300	1,014.000	1	1.014	1,014.000	1	1.014	-	-	-	1,014.000	1	1.014
WRMS ^(†)	-	-	6.000	9,500.000	1	9.500	9,500.000	1	9.500	9,334.000	1	9.334	-	-	-	9,334.000	1	9.334
Common Network Planning System (CNPS) ^(†)	-	-	5.000	9,700.000	1	9.700	9,778.000	1	9.778	9,074.000	1	9.074	-	-	-	9,074.000	1	9.074
DIMS ^(†)	-	-	-	3,175.000	4	12.700	11,175.000	1	11.175	-	-	-	-	-	-	-	-	-
GSCCE ^(†)	-	-	2.339	9,537.000	1	9.537	10,801.000	1	10.801	10,387.000	1	10.387	-	-	-	10,387.000	1	10.387
WSOMS ^(†)	-	-	-	7,500.000	1	7.500	7,422.000	1	7.422	7,400.000	1	7.400	-	-	-	7,400.000	1	7.400
Joint Mngmt. & Ops. System (JMOS) ^(†)	-	-	-	1,200.000	1	1.200	1,200.000	1	1.200	1,200.000	1	1.200	-	-	-	1,200.000	1	1.200
Replacemt Patch & Test Facility (RPTF) ^(†)	-	-	7.944	-	-	0.200	-	-	-	533.000	1	0.533	-	-	-	533.000	1	0.533
Frequency Control System (FCS)	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Remote Monitor Control Equip. (RMCE) v.2 ^(t)	-	-	177.585	-	-	0.500	-	-	-	4,058.000	1	4.058	-	-	-	4,058.000	1	4.058
Wideband Trainer & Certification System ^(t)	-	-	-	-	-	-	3,280.000	1	3.280	-	-	-	-	-	-	-	-	-
RFMOW ^(t)	-	-	0.850	-	-	-	750.000	2	1.500	250.000	2	0.500	-	-	-	250.000	2	0.500
<i>Subtotal: Recurring Cost</i>	-	-	<i>896.285</i>	-	-	<i>52.891</i>	-	-	<i>66.790</i>	-	-	<i>54.184</i>	-	-	-	-	-	<i>54.184</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>896.285</i>	-	-	<i>52.891</i>	-	-	<i>66.790</i>	-	-	<i>54.184</i>	-	-	-	-	-	<i>54.184</i>
Support - Program Management Cost																		
Government Management	-	-	2.500	-	-	1.618	-	-	1.400	-	-	1.500	-	-	-	-	-	1.500
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>2.500</i>	-	-	<i>1.618</i>	-	-	<i>1.400</i>	-	-	<i>1.500</i>	-	-	-	-	-	<i>1.500</i>
Gross/Weapon System Cost	-	-	898.785	-	-	54.509	-	-	68.190	5,062.182	-	55.684	-	-	-	5,062.182	-	55.684

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	54.509	68.190	55.684	-	55.684
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	54.509	68.190	55.684	-	55.684

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems					Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System				
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
WSTARS/WMII		2015	RLM / Spring Lake, NC	SS / FFP	ACC-RI	Apr 2015	May 2015	-	-			
WSTARS/WMII		2016	TBD / TBD	C / TBD	TBD	Apr 2016	May 2016	1	9,820.000			
WSTARS/WMII		2017	TBD / TBD	C / TBD	TBD	Apr 2017	May 2017	1	9,284.000			
Replace Radio Frequency System (RRFIS)		2015	Harris / Palm Bay, FL	SS / FFP	ACC-RI	Apr 2015	May 2015	-	-			
Replace Radio Frequency System (RRFIS)		2016	TBD / TBD	C / TBD	TBD	Apr 2016	May 2016	1	1,014.000			
Replace Radio Frequency System (RRFIS)		2017	TBD / TBD	C / TBD	TBD	Apr 2017	May 2017	1	1,014.000			
WRMS		2015	Northrop Grumman / Orlando, FL	SS / FFP	ACC-RI	Apr 2015	Jun 2015	1	9,500.000			
WRMS		2016	TBD / TBD	C / TBD	TBD	Apr 2016	Jun 2016	1	9,500.000			
WRMS		2017	TBD / TBD	C / TBD	TBD	Apr 2017	Jun 2017	1	9,334.000			
Common Network Planning System (CNPS)		2015	Northrop Grumman / Herndon, VA	SS / FFP	DITCO	Dec 2014	Jan 2015	1	9,700.000			
Common Network Planning System (CNPS)		2016	TBD / TBD	C / TBD	TBD	Dec 2015	Jan 2016	1	9,778.000			
Common Network Planning System (CNPS)		2017	TBD / TBD	C / TBD	TBD	Dec 2016	Jan 2017	1	9,074.000			
DIMS		2015	TBD / TBD	SS / FFP	APG, MD	Mar 2015	Apr 2015	4	3,175.000			
DIMS		2016	TBD / TBD	C / TBD	TBD	Mar 2016	Apr 2016	1	11,175.000			
DIMS		2017	TBD / TBD	C / TBD	TBD	Mar 2017	Apr 2017	-	-			
GSCCE		2015	The Boeing Company / Los Angeles, CA	SS / FFP	ACC-RI	Apr 2015	May 2015	1	9,537.000			
GSCCE		2016	TBD / TBD	C / TBD	TBD	Apr 2016	May 2016	1	10,801.000			
GSCCE		2017	TBD / TBD	C / TBD	TBD	Apr 2017	May 2017	1	10,387.000			
WSOMS		2015	Exelis / Colorado Springs, CO	SS / FFP	Huntsville, AL	Mar 2015	Apr 2015	1	7,500.000			
WSOMS		2016	TBD / TBD	C / TBD	TBD	Mar 2016	Apr 2016	1	7,422.000			
WSOMS		2017	TBD / TBD	C / TBD	TBD	Mar 2017	Apr 2017	1	7,400.000			
Joint Mngmt. & Ops. System (JMOS)		2015	AASKI / Aberdeen, MD	SS / FFP	APG, MD	Nov 2014	Dec 2014	1	1,200.000			
Joint Mngmt. & Ops. System (JMOS)		2016	TBD / TBD	C / TBD	TBD	Oct 2015	Oct 2015	1	1,200.000			
Joint Mngmt. & Ops. System (JMOS)		2017	TBD / TBD	C / TBD	TBD	Oct 2016	Oct 2016	1	1,200.000			
Replacemt Patch & Test Facility (RPTF)		2015	RLM / Spring Lake, NC	SS / FFP	ACC-RI	Mar 2015	Apr 2015	-	-			

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems				Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System					

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
Replacemt Patch & Test Facility (RPTF)		2016	TBD / TBD	C / TBD	TBD	Mar 2016	Apr 2016	-	-			
Replacemt Patch & Test Facility (RPTF)		2017	TBD / TBD	C / TBD	TBD	Mar 2017	Apr 2017	1	533.000			
Remote Monitor Control Equip. (RMCE) v.2		2015	JHU/APL / Laurel, MD	SS / FFP	ACC-RI	Sep 2015	Sep 2015	-	-			
Remote Monitor Control Equip. (RMCE) v.2		2016	TBD / TBD	C / TBD	TBD	Sep 2016	Oct 2016	-	-			
Remote Monitor Control Equip. (RMCE) v.2		2017	TBD / TBD	C / TBD	TBD	Sep 2017	Oct 2017	1	4,058.000			
Wideband Trainer & Certification System		2016	PEO STRI / Orlando, FL	C / FFP	PEO STRI	Dec 2016	Dec 2017	1	3,280.000			
RFMOW		2016	TBD / TBD	C / TBD	TBD	Apr 2016	May 2016	2	750.000			
RFMOW		2017	TBD / TBD	C / TBD	TBD	Apr 2017	May 2017	2	250.000			

Remarks:
P-21 is not provided, as these lines purchase multiple, cross-system components.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B85800 / 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: 0303142A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	10	89	77	-	77	106	107	134	103	-	626
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.819	10.847	50.722	36.580	-	36.580	62.600	62.988	78.444	79.022	-	383.022
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.819	10.847	50.722	36.580	-	36.580	62.600	62.988	78.444	79.022	-	383.022
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.819	10.847	50.722	36.580	-	36.580	62.600	62.988	78.444	79.022	-	383.022

(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>)	-	1,084.700	569.910	475.065	-	475.065	590.566	588.673	585.403	767.204	-	611.856

Description:

Transportable Tactical Command Communications (T2C2) extends the Warfighter Information Network Tactical (WIN-T) network to small company and team sized early entry units. The T2C2 system is based on combat proven capabilities and provides robust voice and data communication capabilities. The T2C2 systems will also integrate users into the higher capacity WIN-T network and extend that network to the tactical edge; T2C2 also enables warfighters in select small Command Posts (CP) (typically Company level) and select Army teams to send and receive time sensitive Situational Awareness (SA), Intelligence, and Mission Command (MC) information while At-the-Halt (ATH) in support of all Joint determined and defined operational phases. These phases span from the initial Shaping Phase, designed to dissuade or deter adversaries and assure mission friends, Deterrence, Initiative Seizure and Domination culminating with post maneuver Stabilization and Enabling of Civil Authorities enabling legitimate civil governance in safe and secure environment.

The approved AAO for Transportable Tactical Command Communications (T2C2) is 402 Lites, 387 Heavys.

The T2C2 Capability Production Document (CPD) was validated in November 2013.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	10	89	75	-	75	81	72	100	69
	Total Obligation Authority	10.847	50.722	31.900	-	31.900	56.700	51.568	58.364	64.187
ANG	Quantity	-	-	2	-	2	25	35	34	30
	Total Obligation Authority	-	-	4.680	-	4.680	5.900	11.420	20.080	12.600
AR	Quantity	-	-	-	-	-	-	-	-	4
	Total Obligation Authority	-	-	-	-	-	-	-	-	2.235
Total: Secondary Distribution	Quantity	10	89	77	-	77	106	107	134	103
	Total Obligation Authority	10.847	50.722	36.580	-	36.580	62.600	62.988	78.444	79.022

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 B85800 / Transportable Tactical Command Communications (T2C)

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	- / 1.819	10 / 10.847	89 / 50.722	77 / 36.580	- / -	77 / 36.580
P-40	Total Gross/Weapon System Cost			- / 1.819	10 / 10.847	89 / 50.722	77 / 36.580	- / -	77 / 36.580

*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 2017 base procurement dollars, in the amount of \$36.580 million, supports the procurement of Low Rate Initial Production (LRIP) quantities for T2C2 Light (38) and T2C2 Heavy (39) systems. These LIRP quantities will permit the Small Business Innovation Research (SBIR) awardee for T2C2 systems to orderly increase their production rate to lead to full-rate production upon the successful completion of operational testing.

The FY17 funding request was reduced for \$8.678M to account for the availability of prior year execution balances.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: B85800 / Transportable Tactical Command Communications (T2C)
		Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	10	89	77	-	77
Gross/Weapon System Cost (\$ in Millions)	1.819	10.847	50.722	36.580	-	36.580
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1.819	10.847	50.722	36.580	-	36.580
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1.819	10.847	50.722	36.580	-	36.580

(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)	-	1,084.700	569.910	475.065	-	475.065

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
AN/PSC-15 (GRRIP) Upgrade	10.000	54	0.540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T2C2 Lite ^(†)	-	-	-	364.000	5	1.820	299.100	34	10.169	190.327	38	7.232	-	-	-	190.327	38	7.232
T2C2 Heavy ^(†)	-	-	-	586.000	5	2.930	609.750	24	14.634	332.598	39	12.971	-	-	-	332.598	39	12.971
Software	-	-	-	-	-	2.381	-	-	3.568	-	-	3.565	-	-	-	-	-	3.565
System Engineering	-	-	0.867	-	-	2.093	-	-	4.351	-	-	0.823	-	-	-	-	-	0.823
Data	-	-	-	-	-	0.608	-	-	1.107	-	-	1.783	-	-	-	-	-	1.783
Fielding & Training	-	-	-	-	-	-	-	-	7.568	-	-	6.592	-	-	-	-	-	6.592
Program Management	-	-	0.412	-	-	1.015	-	-	3.601	-	-	3.613	-	-	-	-	-	3.613
Bridging Capabilities	-	-	-	-	-	-	477.000	12	5.724	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1.819	-	-	10.847	-	-	50.722	-	-	36.580	-	-	-	-	-	36.580
<i>Subtotal: Flyaway Cost</i>	-	-	1.819	-	-	10.847	-	-	50.722	-	-	36.580	-	-	-	-	-	36.580
Gross/Weapon System Cost	-	-	1.819	1,084.700	10	10.847	569.910	89	50.722	475.065	77	36.580	-	-	-	475.065	77	36.580

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	10	89	75	-	75
	Total Obligation Authority	10.847	50.722	31.900	-	31.900

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: B85800 / Transportable Tactical Command Communications (T2C)	Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	-	-	2	-	2
	Total Obligation Authority	-	-	4.680	-	4.680
Total: Secondary Distribution	Quantity	10	89	77	-	77
	Total Obligation Authority	10.847	50.722	36.580	-	36.580

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: B85800 / Transportable Tactical Command Communications (T2C)				Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
T2C2 Lite ^(†)		2015	GATR Technologies / Huntsville	C / FFP	Aberdeen Proving Ground, MD	Dec 2015	Mar 2016	5	364.000	Y		Nov 2015
T2C2 Lite ^(†)		2016	GATR Technologies / Huntsville	C / FFP	Aberdeen Proving Ground, MD	May 2016	Aug 2016	34	299.100	Y		Nov 2015
T2C2 Lite ^(†)		2017	GATR Technologies / Huntsville	C / FFP	Aberdeen Proving Ground, MD	Mar 2017	Jun 2017	38	190.327	Y		Nov 2015
T2C2 Heavy ^(†)		2015	GATR Technologies / Huntsville	C / FFP	Aberdeen Proving Ground, MD	Dec 2015	Mar 2016	5	586.000	Y		Nov 2015
T2C2 Heavy ^(†)		2016	GATR Technologies / Huntsville	C / FFP	Aberdeen Proving Ground, MD	May 2016	Aug 2016	24	609.750	Y		Nov 2015
T2C2 Heavy ^(†)		2017	GATR Technologies / Huntsville	C / FFP	Aberdeen Proving Ground, MD	Mar 2017	Jun 2017	39	332.598	Y		Nov 2015

^(†) indicates the presence of a P-21

Remarks:
Unit cost changes to better reflect currently fielded solutions that meets the operational requirements.

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: B85800 / Transportable Tactical Command Communications (T2C)
		Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	GATR Technologies - Huntsville	2	8	17	-	-	3	3	-	-	3	3
2	GATR Technologies - Huntsville	2	8	17	-	-	3	3	-	-	3	3

"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 2017 Army **Date:** February 2016

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: BA9350 / SHF Term
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	529.441	6.494	7.629	1.985	24.000	25.985	-	-	-	-	-	569.549
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	529.441	6.494	7.629	1.985	24.000	25.985	-	-	-	-	-	569.549
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	529.441	6.494	7.629	1.985	24.000	25.985	-	-	-	-	-	569.549

(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:

Super High Frequency (SHF) terminal, also referred to as the Phoenix, satisfies tactical, highly mobile, command and control, intelligence, fire support, air defense and logistics wideband communications requirements in support of Army and multi-service users. Phoenix provides the Army operational flexibility by operating over four bands (C, X, Ka, and Ku) on military and commercial satellites resulting in less dependency on costly and high demand commercial satellites. Fielding is to Active, Reserve and National Guard Expeditionary Signal Battalions (ESBs). The Army decided to retire legacy AN/TSC-85 terminals by 2015 and replace them with SHF (Phoenix) terminals and upgrade all Phoenix terminals from 20 to 50 Megabits per second (Mbps) aggregate capacity to meet growing capacity demands. This program is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) for the SHF Terminal is 112.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.208	7.629	1.985	24.000	25.985	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.867	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.419	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.494	7.629	1.985	24.000	25.985	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA9350 / SHF Term
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		A	- / 529.441	- / 6.494	- / 7.629	- / 1.985	- / 24.000	- / 25.985
P-40	Total Gross/Weapon System Cost			- / 529.441	- / 6.494	- / 7.629	- / 1.985	- / 24.000	- / 25.985

*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:
 FY2017 Base procurement dollars in the amount of \$1.985 million supports obsolescence planning and implementation efforts to support the 1QFY17 transition to Sustainment and completion of Phoenix upgrades to the field.

 FY2017 OCO procurement dollars in the amount of \$24.000 million supports upgrade of 12ea Phoenix terminals recovered from the USMC to "D" models in support of the European Army Prepositioned Stocks set (COMPO 6).

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BA9350 / SHF Term	Item Number / Title [DODIC]: BA9350 / SHF Term

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	529.441	6.494	7.629	1.985	24.000	25.985
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	529.441	6.494	7.629	1.985	24.000	25.985
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	529.441	6.494	7.629	1.985	24.000	25.985

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
SHF Terminals	1,738.750	112	194.740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE	-	-	2.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECP	-	-	17.794	-	-	-	-	-	-	-	-	-	-	-	21.541	-	-	21.541
<i>Subtotal: Recurring Cost</i>	-	-	<i>214.784</i>	-	-	-	-	-	-	-	-	-	-	-	<i>21.541</i>	-	-	<i>21.541</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>214.784</i>	-	-	-	-	-	-	-	-	-	-	-	<i>21.541</i>	-	-	<i>21.541</i>
Logistics Cost																		
Recurring Cost																		
Logistics Services	-	-	68.102	-	-	3.859	-	-	4.679	-	-	1.020	-	-	1.250	-	-	2.270
<i>Subtotal: Recurring Cost</i>	-	-	<i>68.102</i>	-	-	<i>3.859</i>	-	-	<i>4.679</i>	-	-	<i>1.020</i>	-	-	<i>1.250</i>	-	-	<i>2.270</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>68.102</i>	-	-	<i>3.859</i>	-	-	<i>4.679</i>	-	-	<i>1.020</i>	-	-	<i>1.250</i>	-	-	<i>2.270</i>
Support - Program Management Cost																		
Government Management	-	-	17.624	-	-	0.820	-	-	0.887	-	-	0.210	-	-	0.205	-	-	0.415
Contractor Management	-	-	16.374	-	-	0.635	-	-	0.480	-	-	0.350	-	-	0.245	-	-	0.595
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>33.998</i>	-	-	<i>1.455</i>	-	-	<i>1.367</i>	-	-	<i>0.560</i>	-	-	<i>0.450</i>	-	-	<i>1.010</i>
Support - System Engineering Cost																		
System Engineering	-	-	202.183	-	-	0.805	-	-	1.133	-	-	0.310	-	-	0.300	-	-	0.610
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>202.183</i>	-	-	<i>0.805</i>	-	-	<i>1.133</i>	-	-	<i>0.310</i>	-	-	<i>0.300</i>	-	-	<i>0.610</i>
Support - Training Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: BA9350 / SHF Term						Item Number / Title [DODIC]: BA9350 / SHF Term					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	10.374	-	-	0.375	-	-	0.450	-	-	0.095	-	-	0.459	-	-	0.554
<i>Subtotal: Support - Training Cost</i>	-	-	10.374	-	-	0.375	-	-	0.450	-	-	0.095	-	-	0.459	-	-	0.554
Gross/Weapon System Cost	-	-	529.441	-	-	6.494	-	-	7.629	-	-	1.985	-	-	24.000	-	-	25.985

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.208	7.629	1.985	24.000	25.985
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	3.867	-	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	1.419	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	6.494	7.629	1.985	24.000	25.985

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K47800 / NAVSTAR Global Positioning System (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	7,184	-	-	-	-	-	-	-	-	-	-	7,184
Gross/Weapon System Cost (<i>\$ in Millions</i>)	202.850	1.635	14.027	-	-	-	2.988	-	-	-	-	221.500
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	202.850	1.635	14.027	-	-	-	2.988	-	-	-	-	221.500
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	202.850	1.635	14.027	-	-	-	2.988	-	-	-	-	221.500

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	28.236	-	-	-	-	-	-	-	-	-	-	30.832

Description:

The NAVSTAR Global Positioning System (GPS) is a passive, space-based, radio positioning, navigation, and timing (PNT) system providing precise time, three dimensional position, navigation and velocity information to Warfighters. Accurate positioning, navigation and timing are critical enablers to all Army Warfighting capabilities. Timing is a key enabler to tactical communications networks. The NAVSTAR GPS program is designated as a DoD Space Program and the United States Air Force (USAF) is the executive service. The USAF GPS Directorate develops enabling technologies and products for GPS User Equipment (PE 35164F), with direct Army management and participation. The Army implements these technologies into Army architectures and user equipment. The Army NAVSTAR GPS program provides for management, procurement, fielding and support of Army GPS User Equipment. GPS User Equipment consists of a family of Selective-Availability Anti-Spoofing Module (SAASM) based PNT Capability solutions which span aviation users, ground users, host vehicles, and sensors. Current GPS User Equipment is comprised of a dual-use dismounted handheld or system-installed Defense Advanced GPS Receiver (DAGR), DAGR Distributed Device (D3) for distributed PNT on platforms, and Ground-Based GPS Receiver Application Module (GB-GRAM) for embedded PNT.

Public Law 111-383 Section 913 (January 2011) Authorizes FY 2017 and beyond appropriations to only procure GPS equipment capable of receiving the military code, commonly known as M code, if M code capable equipment is available.

Current Army Acquisition Objective (AAO) for the DAGR/D3 is 462,288 units.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.635	14.027	-	-	2.988	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.635	14.027	-	-	2.988	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K47800 / NAVSTAR Global Positioning System (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	K47800 / NAVSTAR Global Positioning System (SPACE)	P-5a, P-21		7,184 / 202.850	- / 1.635	- / 14.027	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			7,184 / 202.850	- / 1.635	- / 14.027	- / -	- / -	- / -

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

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

Justification:
 Program has no FY 2017 requirement.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: K47800 / NAVSTAR Global Positioning System (SPACE)	Item Number / Title [DODIC]: K47800 / NAVSTAR Global Positioning System (SPACE)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	7,184	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	202.850	1.635	14.027	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	202.850	1.635	14.027	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	202.850	1.635	14.027	-	-	-

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	28.236	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Procurement ^(†)	-	-	94.872	4.260	258	1.099	5.000	100	0.500	-	-	-	-	-	-	-	-	-
Software Support	-	-	7.631	-	-	-	-	-	0.592	-	-	-	-	-	-	-	-	-
Total Package Fielding	-	-	55.558	-	-	-	-	-	1.808	-	-	-	-	-	-	-	-	-
Program Management	-	-	33.768	-	-	0.536	-	-	1.006	-	-	-	-	-	-	-	-	-
Integration Engineering	-	-	5.387	-	-	-	-	-	4.620	-	-	-	-	-	-	-	-	-
Test and Evaluation	-	-	5.634	-	-	-	-	-	4.239	-	-	-	-	-	-	-	-	-
D3 Interim Contractor Support	-	-	-	-	-	-	-	-	1.262	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	202.850	-	-	1.635	-	-	14.027	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	202.850	-	-	1.635	-	-	14.027	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	28.236	7,184	202.850	-	-	1.635	-	-	14.027	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.635	14.027	-	-	-
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: K47800 / NAVSTAR Global Positioning System (SPACE)	Item Number / Title [DODIC]: K47800 / NAVSTAR Global Positioning System (SPACE)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	1.635	14.027	-	-	-

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: K47800 / NAVSTAR Global Positioning System (SPACE)				Item Number / Title [DODIC]: K47800 / NAVSTAR Global Positioning System (SPACE)					
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
Procurement ^(†)		2015	GPS Source, Inc / Pueblo	C / IDIQ	ACC, APG	Mar 2015	Jun 2015	258	4.260	N		
Procurement ^(†)		2016	TBD / TBD	C / IDIQ	TBD	Mar 2016	Jun 2016	100	5.000	N		Jul 2015

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: K47800 / NAVSTAR Global Positioning System (SPACE)
Item Number / Title [DODIC]: K47800 / NAVSTAR Global Positioning System (SPACE)		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	GPS Source, Inc - Pueblo	100	150	6,000	-	-	-	-	-	2	3	5
2	TBD - TBD	100	150	6,000	-	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 2017 Army **Date:** February 2016

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: BC4002 / SMART-T (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	278	-	-	-	-	-	-	-	-	-	-	278
Gross/Weapon System Cost (<i>\$ in Millions</i>)	712.502	11.454	13.453	9.165	-	9.165	-	-	-	-	-	746.574
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	712.502	11.454	13.453	9.165	-	9.165	-	-	-	-	-	746.574
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	712.502	11.454	13.453	9.165	-	9.165	-	-	-	-	-	746.574

(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>)	2,562.957	-	-	-	-	-	-	-	-	-	-	2,685.518

Description:

Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T) is a multi-channel satellite terminal that provides beyond line of sight support for the current and future tactical communications network. The SMART-T provides a robust, protected satellite capability to permit uninterrupted communications, as our advancing forces move beyond the line-of-sight of terrestrial systems. The prime mover is a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) configured with all of the electronics and a self-erected antenna. The SMART-T transmits at the Extremely High Frequency (EHF) band and receives in the Super High Frequency (SHF) band. The SMART-T provides the only low probability of interception and low probability of detection (LPI/LPD) capability to avoid being targeted for destruction, jamming or eavesdropping. The SMART-T provides fully interoperable communications with the Milstar terminals of other services (Air Force, Navy, Marine Corps and other DoD agencies and activities). SMART-T terminals are being upgraded to use the Advanced EHF (AEHF) satellite constellation, which provides a four-fold increase in communication capacity over the current Milstar system but retains full backward compatibility with the Milstar satellites. SMART-T is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) is 324 terminals plus 8 terminals procured for the DoD Special Users.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.454	9.203	4.565	-	4.565	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.000	2.300	-	2.300	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.250	2.300	-	2.300	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.454	13.453	9.165	-	9.165	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BC4002 / SMART-T (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BC4002 / SMART-T (SPACE)		A	278 / 712.502	- / 11.454	- / 13.453	- / 9.165	- / -	- / 9.165
P-40	Total Gross/Weapon System Cost			278 / 712.502	- / 11.454	- / 13.453	- / 9.165	- / -	- / 9.165

*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 2017 Base procurement dollars in the amount of \$9.165 million supports logistics, obsolescence management, training, fielding of v8 software and TOU upgrades, and transition to sustainment for previously procured SMART-T AEHF upgrade kits and AEHF SMART-T terminals. Production was completed in FY15.

The FY17 funding request was reduced for \$2.624M to account for the availability of prior year execution balances.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BC4002 / SMART-T (SPACE)	Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	278	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	712.502	11.454	13.453	9.165	-	9.165
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	712.502	11.454	13.453	9.165	-	9.165
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	712.502	11.454	13.453	9.165	-	9.165

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,562.957	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
EHF SMART-T Terminal Cost	885.769	247	218.785	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF Upgrade Mod Kits	637.085	247	157.360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SMART-T Terminal Cost	1,733.795	39	67.618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Obsolescence	-	-	0.541	-	-	1.020	-	-	3.316	-	-	1.334	-	-	-	-	-	1.334
Modularity/Army National Guard	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transition to Sustainment	-	-	-	-	-	-	-	-	-	-	-	3.813	-	-	-	-	-	3.813
<i>Subtotal: Recurring Cost</i>	-	-	448.704	-	-	1.020	-	-	3.316	-	-	5.147	-	-	-	-	-	5.147
<i>Subtotal: Flyaway Cost</i>	-	-	448.704	-	-	1.020	-	-	3.316	-	-	5.147	-	-	-	-	-	5.147
Support - Data Cost																		
Management Data	-	-	1.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	1.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	44.959	-	-	5.294	-	-	5.633	-	-	1.160	-	-	-	-	-	1.160
<i>Subtotal: Support - Fielding Cost</i>	-	-	44.959	-	-	5.294	-	-	5.633	-	-	1.160	-	-	-	-	-	1.160
Support - Government Furnished Materials Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: BC4002 / SMART-T (SPACE)						Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Government Furnished Materials	-	-	48.759	-	-	0.207	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	48.759	-	-	0.207	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	75.489	-	-	2.395	-	-	2.164	-	-	2.858	-	-	-	-	-	2.858
<i>Subtotal: Support - Program Management Cost</i>	-	-	75.489	-	-	2.395	-	-	2.164	-	-	2.858	-	-	-	-	-	2.858
Support - System Engineering Cost																		
System Engineering	-	-	62.361	-	-	2.314	-	-	2.111	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	62.361	-	-	2.314	-	-	2.111	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	30.397	-	-	0.224	-	-	0.229	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	30.397	-	-	0.224	-	-	0.229	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	2,562.957	278	712.502	-	-	11.454	-	-	13.453	-	-	9.165	-	-	-	-	-	9.165

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	11.454	9.203	4.565	-	4.565
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	2.000	2.300	-	2.300
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	2.250	2.300	-	2.300
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	11.454	13.453	9.165	-	9.165

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BC4120 / Global Brdcst Svc - GBS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	281.813	15.899	6.265	-	-	-	-	-	-	-	-	303.977
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	281.813	15.899	6.265	-	-	-	-	-	-	-	-	303.977
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	281.813	15.899	6.265	-	-	-	-	-	-	-	-	303.977

(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 of large volume data and multimedia products. These include Unmanned Aerial Vehicles (UAV) and commercial video and products from imagery, intelligence, weather and biometric data sources. GBS gives deployed forces access to national level repositories of intelligence products and other critical mission planning information. This is a Joint Program and is designated as a Department of Defense Space System. The Air Force (USAF) is designated as the executive service for this Acquisition Category (ACAT) IC program. The Army GBS program is designated ACAT III. The Army supports the Joint Program Office (JPO) for the development and procurement of the Transportable Ground Receive Suites (TGRS). The TGRS consists of a Receive Broadcast Manager (RBM) and a one meter satellite antenna which can receive video, imagery, and large data files at rates up to 29.5 megabits per second (Mbps). The TGRS is fielded to Battalion, Brigade Combat Teams, Division, Corps and Theater level units in active, National Guard, and reserve components.

The Approved Acquisition Objective (AAO) for GBS TGRS is 2080. The Army Procurement Objective (APO) for the GBS TGRS is 979.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	15.899	4.265	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.000	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.000	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	15.899	6.265	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BC4120 / Global Brdcst Svc - GBS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BC4120 / Global Brdcst Svc - GBS	P-5a, P-21		- / 281.813	- / 15.899	- / 6.265	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 281.813	- / 15.899	- / 6.265	- / -	- / -	- / -

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

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

Justification:
 The FY17 funding request was reduced for \$2.379M to account for the availability of prior year execution balances.

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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: BC4120 / Global Brdcst Svc - GBS
		Item Number / Title [DODIC]: BC4120 / Global Brdcst Svc - GBS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	281.813	15.899	6.265	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	281.813	15.899	6.265	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	281.813	15.899	6.265	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Transportable Grnd Rec Suite (AN/TSR-8)	139.508	710	99.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8 ^(f)	63.000	391	24.633	63.000	171	10.773	-	-	-	-	-	-	-	-	-	-	-	-
TSBM JIPM Mini Hub	5,600.000	1	5.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans Grnd Rec Suite TGRS-11 For Testing	85.000	4	0.340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Theater Satellite Broadcast Mngr (TSBM)	3,380.000	3	10.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Next Generation Receive Terminal (NGRT)	55.216	365	20.154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHF Terminal (replaces TTI RF head)	2,218.000	2	4.436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHF Terminal GFE/Fielding/Training	-	-	1.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE	-	-	9.664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test	-	-	6.076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	9.441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>190.562</i>	-	-	<i>10.773</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>190.562</i>	-	-	<i>10.773</i>	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BC4120 / Global Brdcst Svc - GBS	Item Number / Title [DODIC]: BC4120 / Global Brdcst Svc - GBS
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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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Fielding Cost																		
Fielding	-	-	38.176	-	-	1.881	-	-	3.907	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	38.176	-	-	1.881	-	-	3.907	-	-	-	-	-	-	-	-	-
Support - Operational/Site Activation Cost																		
Sustainment/Interim Contractor Support	-	-	22.175	-	-	1.611	-	-	0.691	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	22.175	-	-	1.611	-	-	0.691	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	11.205	-	-	0.846	-	-	0.863	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	11.205	-	-	0.846	-	-	0.863	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	19.695	-	-	0.788	-	-	0.804	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	19.695	-	-	0.788	-	-	0.804	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	281.813	-	-	15.899	-	-	6.265	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	15.899	4.265	-	-	-
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.000	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.000	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	15.899	6.265	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BC4120 / Global Brdcst Svc - GBS	Item Number / Title [DODIC]: BC4120 / Global Brdcst Svc - GBS
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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
Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8 ^(†)		2014	General Dynamics / C4 Systems / Taunton, MA	C / FFP	ESC/HNSK, Hanscom AFB	Sep 2014	Apr 2015	31	63.000	Y		
Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8 ^(†)		2015	General Dynamics / C4 Systems / Taunton, MA	C / FFP	ESC/HNSK, Hanscom AFB	Sep 2015	Apr 2016	171	63.000	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BC4120 / Global Brdcst Svc - GBS	Item Number / Title [DODIC]: BC4120 / Global Brdcst Svc - GBS
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016												Fiscal Year 2017												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	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
Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8																															
Prior Years Deliveries: 360																															
1		2014	ARMY	31	31	-																									
1		2015	ARMY	171	-	171	-	-	-	-	-	-	30	30	30	30	30	21													
							O C T	N O V	D E C	J A N	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 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: BC4120 / Global Brdcst Svc - GBS	Item Number / Title [DODIC]: BC4120 / Global Brdcst Svc - GBS
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	General Dynamics / C4 Systems - Taunton, MA	8	30	60	6	8	7	15	-	-	-	-

"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 2017 Army **Date:** February 2016

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: BB8417 / Mod Of In-Svc Equip (TAC SAT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.559	2.849	1.042	-	-	-	-	-	-	-	-	47.450
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	43.559	2.849	1.042	-	-	-	-	-	-	-	-	47.450
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.559	2.849	1.042	-	-	-	-	-	-	-	-	47.450

(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:

Mod of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment. This Mod of In-Svc funding procures and fields Tactical Computer Digital Mission Planner (T-CDMP) AN/PYQ-19. T-CDMP replaces the Communications Planning System (CPS)(AN/PSQ-17). The T-CDMP is an integrated tool on which Military Strategic and Tactical Relay (MILSTAR) and Advanced Extremely High Frequency (AEHF) satellite communication network planning will be performed. The T-CDMP supports real-time mission planning and network management to efficiently use limited satellite resources. The T-CDMP generates Terminal Image Data essential for the operation of Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T) and Single Channel Anti-Jam Manportable Program (SCAMP) terminals.

The T-CDMP Approved Acquisition Objective is 318.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.849	1.042	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.849	1.042	-	-	-	-	-	-

Justification:

The FY17 funding request was reduced for \$1.053M to account for the availability of prior year execution balances. System is scheduled to transition to sustainment in FY18.

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B08400 / ENROUTE MISSION COMMAND (EMC)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
--	---	--

Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	100.000	7.116	-	-	-	13.846	9.304	-	-	-	130.266
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	100.000	7.116	-	-	-	13.846	9.304	-	-	-	130.266
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	100.000	7.116	-	-	-	13.846	9.304	-	-	-	130.266

(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:

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

The enduring requirement for EMC is documented in the Transmission Systems Capabilities Production Document (CPD), which was Joint Requirements Oversight Council (JROC) approved 18 Dec 2014. The Army Procurement Objective (APO) for the EMC is 8 nodes.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	100.000	7.116	-	-	13.846	9.304	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	100.000	7.116	-	-	13.846	9.304	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B08400 / ENROUTE MISSION COMMAND (EMC)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B00015 / Enroute Mission Command (EMC)	P-5a, P-21		- / -	- / 100.000	- / 7.116	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / -	- / 100.000	- / 7.116	- / -	- / -	- / -

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

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

Justification:
 The FY 2017 funding request was reduced by \$23.124 million to account for the availability of prior year execution balances.

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

Initial Operational Capability met in May 2015 with modification of five C-17s with satellite antennae and installation kits, and roll-on/roll-off, battalion level, Key Leader Node (KEN). Full Operational Capability (FOC) is 35 C-17s, seven KENs, and 21 company level Dependent Airborne Nodes (DAN), and an airborne command post suite (CASPAN). FOC is currently projected for FY20. Planning to field an interim capability and conduct an operational assessment in FY17.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: B08400 / ENROUTE MISSION COMMAND (EMC)						Item Number / Title [DODIC]: B00015 / Enroute Mission Command (EMC)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		100.000		7.116		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		100.000		7.116		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		100.000		7.116		-		-		-				
<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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Non Recurring Engineering (NRE)	-	-	-	-	-	7.751	-	-	-	-	-	-	-	-	-	-	-	-
Fixed Installed Satellite Antenna (FISA) ^(†)	-	-	-	1,766.500	20	35.330	-	-	-	-	-	-	-	-	-	-	-	-
Key Leader En Route Node (KEN) ^(†)	-	-	-	1,515.000	7	10.605	-	-	1.347	-	-	-	-	-	-	-	-	-
Dependent Airborne Node (DAN) ^(†)	-	-	-	132.000	24	3.168	-	-	0.455	-	-	-	-	-	-	-	-	-
Fielding	-	-	-	-	-	2.592	-	-	0.627	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	-	-	-	6.323	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	-	-	-	9.176	-	-	3.388	-	-	-	-	-	-	-	-	-
PDSS	-	-	-	-	-	2.560	-	-	0.443	-	-	-	-	-	-	-	-	-
Testing	-	-	-	-	-	17.045	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	94.550	-	-	6.260	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	94.550	-	-	6.260	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	-	-	-	2.234	-	-	0.351	-	-	-	-	-	-	-	-	-
Contractor Management	-	-	-	-	-	3.216	-	-	0.505	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: B08400 / ENROUTE MISSION COMMAND (EMC)
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	-	-	-	5.450	-	-	0.856	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	100.000	-	-	7.116	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	100.000	7.116	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	100.000	7.116	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: B08400 / ENROUTE MISSION COMMAND (EMC)				Item Number / Title [DODIC]: B00015 / Enroute Mission Command (EMC)					

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
Fixed Installed Satellite Antenna (FISA) ^(t)		2015	STS International, Inc / Berkeley Springs, WV	C / FFP	Orlando, FL	Sep 2015	Mar 2016	20	1,766.500			
Key Leader En Route Node (KEN) ^(t)		2015	GDMS / Taunton, MA	C / FFP	Aberdeen Proving Ground, MD	Aug 2015	Dec 2015	7	1,515.000			
Dependent Airborne Node (DAN) ^(t)		2015	GDMS / Taunton, MA	C / FFP	Aberdeen Proving Ground, MD	Aug 2015	Dec 2015	24	132.000			

^(t) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18										P-1 Line Item Number / Title: B08400 / ENROUTE MISSION COMMAND (EMC)										Item Number / Title [DODIC]: B00015 / Enroute Mission Command (EMC)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Fixed Installed Satellite Antenna (FISA)																															
1		2015	ARMY	20	14	6	2	2	2																					-	
Key Leader En Route Node (KEN)																															
2		2015	ARMY	7	7	-																								-	
Dependent Airborne Node (DAN)																															
3		2015	ARMY	24	24	-																								-	

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: B08400 / ENROUTE MISSION COMMAND (EMC)
		Item Number / Title [DODIC]: B00015 / Enroute Mission Command (EMC)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	STS International, Inc - Berkeley Springs, WV	12	36	60	-	6	-	6	-	-	-	-
2	GDMS - Taunton, MA	12	36	60	-	4	-	4	-	-	-	-
3	GDMS - Taunton, MA	12	36	60	-	4	-	4	-	-	-	-

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 24: Comm - C3 System	P-1 Line Item Number / Title: BA8250 / Army Global Cmd & Control Sys (AGCCS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303150A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	400.316	-	10.137	2.530	-	2.530	2.658	2.643	4.688	12.592	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	400.316	-	10.137	2.530	-	2.530	2.658	2.643	4.688	12.592	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	400.316	-	10.137	2.530	-	2.530	2.658	2.643	4.688	12.592	Continuing	Continuing

(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 Command and Control System-Army (GCCS-A): This project is the Army component of the Global Command and Control System (GCCS) Family of Systems (FoS). GCCS-A provides automated command and control tools, including Force readiness, planning and movement, and situational awareness, for Army Strategic and Operational Theater commanders to enhance warfighter capabilities throughout the spectrum of conflict during Joint and combined operations in support of National Security. GCCS-A dramatically improves the Army's ability to analyze courses of action, develop and manage Army forces and execute war plans. GCCS-A links the GCCS-Joint Common Operating Picture with the Army Mission Command systems. In accordance with Army Command Post Computing Environment and Joint Command and Control objectives, GCCS-A will be re-architected away from a scalable process architecture based server - thick client architecture to a virtualized server - web client architecture hosted on Battle Command Common Services. In addition, Product Manager, GCCS-A is the Executive Agent with responsibility to procure and field GCCS-J hardware and Commercial-Off-The-Shelf (COTS) software to selected GCCS-J sites.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	10.137	2.530	-	2.530	2.658	2.643	4.688
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	10.137	2.530	-	2.530	2.658	2.643	4.688

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 24: Comm - C3 System	P-1 Line Item Number / Title: BA8250 / Army Global Cmd & Control Sys (AGCCS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303150A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BA8250 / Army Global Cmd & Control Sys (AGCCS)			- / 400.316	- / -	- / 10.137	- / 2.530	- / -	- / 2.530
P-40	Total Gross/Weapon System Cost			- / 400.316	- / -	- / 10.137	- / 2.530	- / -	- / 2.530

*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 2017 Base funding in the amount of \$2.530 million will support fielding of GCCS-A version 4.3.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24		P-1 Line Item Number / Title: BA8250 / Army Global Cmd & Control Sys (AGCCS)
		Item Number / Title [DODIC]: BA8250 / Army Global Cmd & Control Sys (AGCCS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	400.316	-	10.137	2.530	-	2.530
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	400.316	-	10.137	2.530	-	2.530
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	400.316	-	10.137	2.530	-	2.530

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
GCCS-A HW	-	-	99.279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCCS-J Hardware Refresh	-	-	-	-	-	-	-	-	8.194	-	-	-	-	-	-	-	-	-
Software Licenses	-	-	39.269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>138.548</i>	-	-	-	-	-	<i>8.194</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>138.548</i>	-	-	-	-	-	<i>8.194</i>	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	69.669	-	-	-	-	-	0.904	-	-	1.355	-	-	-	-	-	1.355
<i>Subtotal: Support - Fielding Cost</i>	-	-	<i>69.669</i>	-	-	-	-	-	<i>0.904</i>	-	-	<i>1.355</i>	-	-	-	-	-	<i>1.355</i>
Support - Program Management Cost																		
Government Management	-	-	30.397	-	-	-	-	-	0.315	-	-	0.319	-	-	-	-	-	0.319
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>30.397</i>	-	-	-	-	-	<i>0.315</i>	-	-	<i>0.319</i>	-	-	-	-	-	<i>0.319</i>
Support - System Engineering Cost																		
System Engineering	-	-	121.784	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>121.784</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Services	-	-	39.918	-	-	-	-	-	0.724	-	-	0.856	-	-	-	-	-	0.856

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24	P-1 Line Item Number / Title: BA8250 / Army Global Cmd & Control Sys (AGCCS)	Item Number / Title [DODIC]: BA8250 / Army Global Cmd & Control Sys (AGCCS)
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Training Cost</i>	-	-	39.918	-	-	-	-	-	0.724	-	-	0.856	-	-	-	-	-	0.856
Gross/Weapon System Cost	-	-	400.316	-	-	-	-	-	10.137	-	-	2.530	-	-	-	-	-	2.530

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	10.137	2.530	-	2.530
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	10.137	2.530	-	2.530

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A, 0605042A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 385
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	26,655	200	-	-	-	-	-	-	-	-	-	26,855
Gross/Weapon System Cost (<i>\$ in Millions</i>)	941.053	40.711	54.640	-	-	-	-	-	-	-	-	1,036.404
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	941.053	40.711	54.640	-	-	-	-	-	-	-	-	1,036.404
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	941.053	40.711	54.640	-	-	-	-	-	-	-	-	1,036.404

(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>)	35.305	203.555	-	48.694	-	48.694	-	-	-	-	-	38.593

Description:

B90000 is a summary of the JTRS HMS program: B90210 (JTRS HMS - Handheld) and B90215 (JTRS HMS - Manpack); funding for the RDTE phase of the JTRS HMS program resides in Program Element 0604280A prior to FY 2017, and 0605042A in FY 2017 and out. The Manpack (MP) Radio is reflected under SSN B90210 in FY 2011 and 2012. The MP Radio is reflected under separate SSN B90215 in FY 2013 and out. As of FY 2017, HMS funding will transfer from the parent B90000 to the parent B95004. B90210 and B90215 will transfer to B95006 (Handheld), and B95007 (Manpack) respectively. This change was made in order to remove "JTRS" from the HMS nomenclature as the program is now Army led. Therefore, B95006 and B95007 will not be considered new starts in FY 2017.

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the US Army, US Navy, US Marine Corps and the Special Operations Command (SOCOM) communication needs.

HMS provides voice and data communications to the tactical edge/most disadvantaged 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Fit (SFF) versions of HMS may be used for Unmanned Vehicles and other platform applications.

HMS is structured as a single program of record. The program has completed the Engineering Manufacturing and Development Phase and received Milestone C approval on 17 June 2011 with Low Rate Initial Production configured radios.

HMS is currently executing a May 2014 approved Acquisition Strategy to procure modified Non-Developmental Items (NDI) through full and open competition open to all potential industry partners. Two contracts will be awarded in support of this effort. The first contract will procure NDI Secret and Below (SAB) Rifleman Radios (RR) for use in a classified environment. It was awarded on 29 April 2015 to two vendors. The RR ports the Soldier Radio Waveform (SRW)-Army managed waveform. The second contract will procure MP radios for use in a classified environment. Waveforms to be ported to the MP include: SRW, Single Channel Ground and Airborne Radio System (SINCGARS)-Army managed waveform, Satellite Communications (SATCOM)-Army managed waveform, and Mobile-User Objective System (MUOS)-Navy managed waveform.

The Army will award Firm Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) Contracts through a multiple step selection process:

- a. Award FFP Contracts (29 Apr 2015 for RR and 3QFY16 for MP)

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A, 0605042A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 385
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- b. Award first delivery orders to all qualified vendors based on technical acceptability and demonstrations from Qualification Test (3 Sep 2015 for RR and 1QFY17 for MP)
- c. Award second delivery order based on Customer Test results (2QFY17 for RR and 4QFY17 for MP)
- d. Award FRP delivery orders based on operational assessments and best value trade off construct (1QFY18 for RR and 4QFY18 for MP)

The current RR (Army) AAO is 193,279 (of which 37,632 are Mounted RR). The Mounted Rifleman Radio is a Non-Developmental Item (NDI), single-channel, vehicular mounted, Rifleman Radio that will provide near-term networking capability to platoons and companies using the embedded Soldier Radio Waveform as identified in the HMS RR Capability Production document (CPD).

The current MP and SFF-B (Army) AAO is 66,572.

HMS received a Congressional rescission against FY 2015 Procurement funding in the amount of \$20 million (\$5.5 million B90210, \$14.5 million B90215). This rescission is reflected in the Procurement funding above.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	200	-	-	-	-	-	-	-	-
	Total Obligation Authority	40.711	54.640	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	200	-	-	-	-	-	-	-	-
	Total Obligation Authority	40.711	54.640	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A, 0605042A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 385
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B90210 / JTRS Cluster 5 Rifleman Radio			25,155 / 548.059	200 / 14.200	- / 29.509	- / -	- / -	- / -
P-5	B90215 / JTRS (MANPACK)			1,500 / 392.994	- / 26.511	- / 25.131	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			26,655 / 941.053	200 / 40.711	- / 54.640	- / -	- / -	- / -

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

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

Justification:
 Program has no FY17 funding request in this PE, as HMS funding has been realigned from the parent B90000 to the parent B95004. B90210 and B90215 realign to B95006 (Handheld), and B95007 (Manpack) respectively. This change was made in order to remove "JTRS" from the HMS nomenclature as the program is now Army led.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System	Item Number / Title [DODIC]: B90210 / JTRS Cluster 5 Rifleman Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 385
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	25,155	200	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	548.059	14.200	29.509	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	548.059	14.200	29.509	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	548.059	14.200	29.509	-	-	-

(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)	21.787	71.000	-	11.813	-	11.813

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Congressional Recission - FY 2015	-	-	-	-	-	5.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	5.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	5.500	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
Manufacturing - Rifleman Radio	4.300	9,527	40.964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing - Rifleman Radio (SAB)	4.359	11,852	51.658	6.870	200	1.374	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing - Manpack	61.506	3,776	232.245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	324.876	-	-	1.374	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Hardware NRE	-	-	41.414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	41.414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	366.290	-	-	1.374	-	-	-	-	-	-	-	-	-	-	-	-
Software Cost																		
Non Recurring Cost																		
Software Support	-	-	9.461	-	-	2.024	-	-	0.985	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System
		Item Number / Title [DODIC]: B90210 / JTRS Cluster 5 Rifleman Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 385
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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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	9.461	-	-	2.024	-	-	0.985	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	9.461	-	-	2.024	-	-	0.985	-	-	-	-	-	-	-	-	-
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	16.341	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	16.341	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Data Cost																		
Engineering Data	-	-	1.950	-	-	-	-	-	0.015	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	1.950	-	-	-	-	-	0.015	-	-	-	-	-	-	-	-	-
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	19.169	-	-	5.302	-	-	9.398	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	19.169	-	-	5.302	-	-	9.398	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	39.040	-	-	-	-	-	5.780	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	39.040	-	-	-	-	-	5.780	-	-	-	-	-	-	-	-	-
Support - Operational/Site Activation Cost																		
System Assembly, Installation and Checkout on Site	-	-	21.849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	21.849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	73.959	-	-	-	-	-	13.331	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	73.959	-	-	-	-	-	13.331	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	21.787	25,155	548.059	71.000	200	14.200	-	-	29.509	11.813	-	-	-	-	-	11.813	-	-

Secondary Distribution			FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	200	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System	Item Number / Title [DODIC]: B90210 / JTRS Cluster 5 Rifleman Radio
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 385
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		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution						
	Total Obligation Authority	14.200	29.509	-	-	-
Total:	Quantity	200	-	-	-	-
Secondary Distribution	Total Obligation Authority	14.200	29.509	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System	Item Number / Title [DODIC]: B90215 / JTRS (MANPACK)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 385
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	1,500	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	392.994	26.511	25.131	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	392.994	26.511	25.131	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	392.994	26.511	25.131	-	-	-

(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)	261.996	-	-	119.898	-	119.898

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Congressional Recission	-	-	-	-	-	14.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	14.500	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	14.500	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
Recurring Manufacturing - Manpack	95.968	1,500	143.952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	143.952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Hardware NRE	-	-	47.906	-	-	-	-	-	2.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	47.906	-	-	-	-	-	2.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	191.858	-	-	-	-	-	2.000	-	-	-	-	-	-	-	-	-
Software Cost																		
Recurring Cost																		
Software Support	-	-	7.501	-	-	-	-	-	2.563	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	7.501	-	-	-	-	-	2.563	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	7.501	-	-	-	-	-	2.563	-	-	-	-	-	-	-	-	-
Support - Common Support Equipment Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System	Item Number / Title [DODIC]: B90215 / JTRS (MANPACK)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 385
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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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	4.231	-	-	-	-	-	0.417	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	4.231	-	-	-	-	-	0.417	-	-	-	-	-	-	-	-	-
Support - Data Cost																		
Engineering Data	-	-	-	-	-	-	-	-	0.084	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	0.084	-	-	-	-	-	-	-	-	-
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	12.462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	12.462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	30.966	-	-	-	-	-	2.176	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	30.966	-	-	-	-	-	2.176	-	-	-	-	-	-	-	-	-
Support - Operational/Site Activation Cost																		
System Assembly, Installation and Checkout on Site	-	-	92.847	-	-	-	-	-	1.916	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	92.847	-	-	-	-	-	1.916	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	53.129	-	-	12.011	-	-	15.975	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	53.129	-	-	12.011	-	-	15.975	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	261.996	1,500	392.994	-	-	26.511	-	-	25.131	119.898	-	-	-	-	-	119.898	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	26.511	25.131	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	26.511	25.131	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	5,656	-	5,656	8,364	8,480	8,596	8,357	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	273.645	-	273.645	404.889	413.836	415.183	435.881	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	273.645	-	273.645	404.889	413.836	415.183	435.881	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	273.645	-	273.645	404.889	413.836	415.183	435.881	Continuing	Continuing

(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>)	-	-	-	48.381	-	48.381	48.409	48.801	48.300	52.158	Continuing	Continuing

Description:

B95004 is a summary of the Handheld Manpack Small Form Fit (HMS) program: B95006 (HMS - Handheld Radio) and B95007 (HMS - Manpack Radio). Prior to FY 2017, this effort was funded under SSN B90000: B90210 Joint Tactical Radio System (JTRS) HMS Handheld and B90215 JTRS HMS Manpack. The Manpack (MP) Radio was reflected under SSN B90210 in FY 2011 and 2012, and under SSN B90215 in FY 2013 through 2016. In FY17 and out, B90000 no longer includes funding associated with the HMS Program. SSN B95004 was established to clearly associate HMS with Program Executive Office Command, Control and Communications-Tactical (PEO C3T) under Project Manager Tactical Radios (PM TR).

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the US Army, US Air Force, US Navy, US Marine Corps and the Special Operations Command (SOCOM) communication needs.

HMS provides voice and data communications to the tactical edge/most disadvantaged 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. There are three radio products in the HMS program: the Rifleman Radio, a single channel handheld radio; the Manpack, a 2-channel man-portable radio; and the Small Form Fit (SFF) radios which may be used for unmanned vehicles or other platform applications. The Rifleman Radio links dismounted soldiers to the platoon communications network and the Manpack links platoon and company elements to the battalion communication network.

HMS is structured as a single program of record. The program has completed the Engineering Manufacturing and Development Phase and received Milestone C approval on 17 June 2011 with Low Rate Initial Production configured radios.

HMS is executing the Acquisition Strategy approved in May 2014 to procure modified Non-Developmental Items (NDI) through full and open competition and open to all potential industry partners. Two contracts support this effort. The contract for NDI Secret and Below Rifleman Radios (RR) for used in a classified environment was awarded on 29 April 2015 to two vendors. The RR runs the Soldier Radio Waveform (SRW)-Army managed waveform. The contract for Manpack (MP) radios will be awarded in 3QFY16. These two channel radios can be used in a classified environment and will run SRW, Single Channel Ground and Airborne Radio System (SINCGARS)-Army managed waveform, Satellite Communications (SATCOM)-Army managed waveform, and Mobile-User Objective System (MUOS)-Navy managed waveform.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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The Army will award Firm Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) Contracts through a multiple step selection process:

- a. Award FFP Contracts (29 Apr 2015 for RR and 3QFY16 for MP)
- b. Award first delivery orders to all qualified vendors based on technical acceptability and demonstrations from Qualification Test (3 Sep 2015 for RR and 1QFY17 for MP)
- c. Award LRIP delivery order based on Customer Test results (2QFY17 for RR and 4QFY17 for MP)
- d. Award delivery orders based on operational assessments and best value trade off construct (1QFY18 for RR and 4QFY18 for MP)

The current RR (Army) AAO is 193,279 (of which 37,632 are Mounted RR). The Mounted Rifleman Radio is a Non-Developmental Item (NDI), single-channel, vehicular mounted, Rifleman Radio that will provide near-term networking capability to platoons and companies using the embedded Soldier Radio Waveform as identified in the HMS RR Capability Production document (CPD).

The current MP and SFF-B (Army) AAO is 66,572.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	4,661	-	4,661	7,213	7,328	7,447	7,213
	Total Obligation Authority	-	-	214.645	-	214.645	345.889	354.836	356.183	376.881
ANG	Quantity	-	-	995	-	995	1,151	1,152	1,149	1,144
	Total Obligation Authority	-	-	59.000	-	59.000	59.000	59.000	59.000	59.000
Total: Secondary Distribution	Quantity	-	-	5,656	-	5,656	8,364	8,480	8,596	8,357
	Total Obligation Authority	-	-	273.645	-	273.645	404.889	413.836	415.183	435.881

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		- / -	- / -	- / -	4,186 / 43.734	- / -	4,186 / 43.734
P-5	B95007 / Manpack Radio	P-5a, P-21		- / -	- / -	- / -	1,470 / 229.911	- / -	1,470 / 229.911
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	5,656 / 273.645	- / -	5,656 / 273.645

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

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

Justification:
 Justification:
 FY17 Base procurement dollars in the amount of \$273.645 million supports the procurement of:
 -4,186 RR (of which 549 are Mounted RR), support equipment, and fielding. (\$43.734 million)
 -1,470 MP Radios, NRE, support equipment, fielding, and vehicle integration. (\$229.911 million)

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

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Exhibit P-5, Cost Analysis: PB 2017 Army						Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)			Item Number / Title [DODIC]: B95006 / Handheld Radio		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	4,186	-	4,186
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	-	-	43.734	-	43.734
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	-	-	43.734	-	43.734
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	-	-	43.734	-	43.734
<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>)			-	-	-	10.448	-	10.448

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Manufacturing - Rifleman Radio ^(†)	-	-	-	-	-	-	-	-	-	5.337	3,637	19.409	-	-	-	5.337	3,637	19.409
Manufacturing - Rifleman Radio Mounted ^(†)	-	-	-	-	-	-	-	-	-	19.179	549	10.529	-	-	-	19.179	549	10.529
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	29.940	-	-	-	-	-	29.940
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	29.940	-	-	-	-	-	29.940
Software Cost																		
Recurring Cost																		
Software Support	-	-	-	-	-	-	-	-	-	-	-	1.008	-	-	-	-	-	1.008
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.008	-	-	-	-	-	1.008
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.008	-	-	-	-	-	1.008
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	-	-	-	-	-	-	-	-	-	4.369	-	-	-	-	-	4.369
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.369	-	-	-	-	-	4.369
Support - Data Cost																		
Engineering Data	-	-	-	-	-	-	-	-	-	-	-	0.241	-	-	-	-	-	0.241
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.241	-	-	-	-	-	0.241
Support - Fielding Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)						Item Number / Title [DODIC]: B95006 / Handheld Radio					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Fielding	-	-	-	-	-	-	-	-	-	-	-	2.172	-	-	-	-	-	2.172
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.172	-	-	-	-	-	2.172
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	6.004	-	-	-	-	-	6.004
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.004	-	-	-	-	-	6.004
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	10.448	4,186	43.734	-	-	-	10.448	4,186	43.734

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	3,521	-	3,521
	Total Obligation Authority	-	-	36.734	-	36.734
ANG	Quantity	-	-	665	-	665
	Total Obligation Authority	-	-	7.000	-	7.000
Total:	Quantity	-	-	4,186	-	4,186
Secondary Distribution	Total Obligation Authority	-	-	43.734	-	43.734

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

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

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 - Rifleman Radio ^(†)		2017	Thales Comm / Maryland	C / FFP	APG, MD	Jan 2017	Mar 2017	1,819	-	Y	Dec 2016	Jul 2016
Manufacturing - Rifleman Radio ^(†)		2017	Harris Corp / New York	C / FFP	APG, MD	Jan 2017	Mar 2017	1,818	-	Y	Dec 2016	Jul 2016
Manufacturing - Rifleman Radio Mounted ^(†)		2017	Harris Corp / New York	C / FFP	APG, MD	Jan 2017	Mar 2017	274	-	Y	Dec 2016	Jul 2016
Manufacturing - Rifleman Radio Mounted ^(†)		2017	Thales Comm / Maryland	C / FFP	APG, MD	Jan 2017	Mar 2017	275	-	Y	Dec 2016	Jul 2016

^(†) indicates the presence of a P-21

Remarks:

The Handheld, Manpack, and Small Form Fit (HMS) contract will be Firm Fixed Price (FFP) for Full Rate Production (FRP).

Vendors for the RR FRP contract are Harris Radio Corp (Rochester, NY) and Thales Communications (Clarksburg, MD). Quantity breakouts will be determined at the award of LRIP Delivery Order #1. For planning purposes, quantity breakouts above is an even split between both vendors.

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

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

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017														Fiscal Year 2018										BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
Manufacturing - Rifleman Radio																															
	1	2017	ARMY	1,819	-	1,819																									
	2	2017	ARMY	1,818	-	1,818																									
Manufacturing - Rifleman Radio Mounted																															
	3	2017	ARMY	274	-	274																									
	4	2017	ARMY	275	-	275																									
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

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

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Thales Comm - Maryland	1	75	300	-	-	-	-	-	-	-	-	-
2	Harris Corp - New York	1	75	300	-	-	-	-	-	-	-	-	-
3	Harris Corp - New York	1	75	300	-	-	-	-	-	-	-	-	-
4	Thales Comm - Maryland	1	75	300	-	-	-	-	-	-	-	-	-

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	1,470	-	1,470
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	229.911	-	229.911
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	229.911	-	229.911
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	229.911	-	229.911

(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>	-	-	-	156.402	-	156.402

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Recurring Manufacturing - Manpack ^(†)	-	-	-	-	-	-	-	-	-	78.182	1,470	114.927	-	-	-	78.182	1,470	114.927
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	114.928	-	-	-	-	-	114.928
Non Recurring Cost																		
Hardware NRE	-	-	-	-	-	-	-	-	-	-	-	59.050	-	-	-	-	-	59.050
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	59.050	-	-	-	-	-	59.050
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	173.978	-	-	-	-	-	173.978
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	-	-	-	-	-	-	-	-	-	1.409	-	-	-	-	-	1.409
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.409	-	-	-	-	-	1.409
Support - Data Cost																		
Engineering Data	-	-	-	-	-	-	-	-	-	-	-	0.598	-	-	-	-	-	0.598
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.598	-	-	-	-	-	0.598
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	-	-	-	2.848	-	-	-	-	-	2.848

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 - Engineering Change Proposals Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.848	-	-	-	-	-	2.848
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	8.661	-	-	-	-	-	8.661
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	8.661	-	-	-	-	-	8.661
Support - Operational/Site Activation Cost																		
System Assembly, Installation and Checkout on Site	-	-	-	-	-	-	-	-	-	-	-	5.651	-	-	-	-	-	5.651
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.651	-	-	-	-	-	5.651
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	31.564	-	-	-	-	-	31.564
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	31.564	-	-	-	-	-	31.564
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	-	-	-	-	-	-	-	-	-	5.202	-	-	-	-	-	5.202
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.202	-	-	-	-	-	5.202
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	156.402	1,470	229.911	-	-	-	156.402	1,470	229.911

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	1,140	-	1,140
	Total Obligation Authority	-	-	177.911	-	177.911
ANG	Quantity	-	-	330	-	330
	Total Obligation Authority	-	-	52.000	-	52.000
Total: Secondary Distribution	Quantity	-	-	1,470	-	1,470
	Total Obligation Authority	-	-	229.911	-	229.911

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Recurring Manufacturing - Manpack ^(†)		2017	TBD / TBD	C / FFP	APG, MD	Jul 2017	Sep 2017	1,470	78.182	N	May 2016	Jan 2017

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Recurring Manufacturing - Manpack																															
1		2017	ARMY	1,470	-	1,470																									
							O C T	N O V	D E C	J A N	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 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32				P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS)				Item Number / Title [DODIC]: B95007 / Manpack Radio				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	60	161	-	-	-	-	-	-	-	-

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604290A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	205	91	-	91	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	42.658	4.692	22.762	25.017	-	25.017	41.658	50.892	46.053	50.408	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	42.658	4.692	22.762	25.017	-	25.017	41.658	50.892	46.053	50.408	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	42.658	4.692	22.762	25.017	-	25.017	41.658	50.892	46.053	50.408	Continuing	Continuing

(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>)	-	-	111.034	274.912	-	274.912	-	-	-	-	Continuing	Continuing

Description:

The Mid-tier Networking Vehicular Radio (MNVR) enables the extension of data services within the tactical network through seamless integration of the upper and lower tiers; providing software-defined, multi-channel networking radios for a wide variety of Army tactical vehicles to meet the Army's requirement for the Mid-tier Wideband Networking (MWN) capability. The MNVR provides self-forming and self-healing communication network from the brigade to the platoon level throughout the full range of military operations.

On 20 September 2013, the Defense Acquisition Executive (DAE) signed the Acquisition Decision Memorandum (ADM) approving the program Materiel Development Decision (MDD). The ADM designated MNVR as an ACAT 1D Special Interest Program under the continued oversight of the DAE. It approved the Army to award an Industry contract, which was awarded on 24 September 2013 as a single award for an Indefinite Delivery Indefinite Quantity (IDIQ), firm fixed price contract.

The Approved Acquisition Objective (AAO) for the MNVR is 10,293.

	Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	205	91	-	91	-	-	-	-
	Total Obligation Authority	4.692	22.762	25.017	-	25.017	41.658	50.892	46.053	50.408
Total: Secondary Distribution	Quantity	-	205	91	-	91	-	-	-	-
	Total Obligation Authority	4.692	22.762	25.017	-	25.017	41.658	50.892	46.053	50.408

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 32: Comm - Combat Communications

P-1 Line Item Number / Title:
 B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604290A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)	P-5a, P-21		- / 42.658	- / 4.692	205 / 22.762	91 / 25.017	- / -	91 / 25.017
P-40	Total Gross/Weapon System Cost			- / 42.658	- / 4.692	205 / 22.762	91 / 25.017	- / -	91 / 25.017

*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 2017 Base procurement dollars in the amount of \$25.017 million supports the execution of the modified Non-Developmental Item (NDI) strategy for a mid-tier networking vehicular capability to include the procurement of 91 MNVR Radio A and B Kits, program management office support, logistics and fielding support for previously procured systems. Radios procured will support Capability Set 18.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)						Item Number / Title [DODIC]: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		205		91		-		91				
Gross/Weapon System Cost (\$ in Millions)				42.658		4.692		22.762		25.017		-		25.017				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				42.658		4.692		22.762		25.017		-		25.017				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				42.658		4.692		22.762		25.017		-		25.017				
<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)				-		-		111.034		274.912		-		274.912				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Engineering Changes	-	-	-	-	-	-	-	-	0.211	-	-	0.091	-	-	-	-	-	0.091
Platform Integration	-	-	9.596	-	-	-	-	-	0.349	-	-	0.378	-	-	-	-	-	0.378
Project Management Administration	-	-	8.087	-	-	4.692	-	-	6.115	-	-	6.237	-	-	-	-	-	6.237
System Engineering Support	-	-	9.439	-	-	-	-	-	2.179	-	-	5.172	-	-	-	-	-	5.172
<i>Subtotal: Recurring Cost</i>	-	-	27.122	-	-	4.692	-	-	8.854	-	-	11.878	-	-	-	-	-	11.878
<i>Subtotal: Flyaway Cost</i>	-	-	27.122	-	-	4.692	-	-	8.854	-	-	11.878	-	-	-	-	-	11.878
Hardware Cost																		
Recurring Cost																		
MNVR (B-Kit) ^(†)	-	-	1.885	-	-	-	51.615	205	10.581	52.824	91	4.807	-	-	-	52.824	91	4.807
Other Hardware (A-Kit)	-	-	6.374	-	-	-	-	-	0.665	-	-	1.273	-	-	-	-	-	1.273
Software Maintenance Recurring	-	-	-	-	-	-	-	-	-	-	-	1.592	-	-	-	-	-	1.592
Software Maintenance NonRecurring	-	-	7.204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	15.463	-	-	-	-	-	11.246	-	-	7.672	-	-	-	-	-	7.672
<i>Subtotal: Hardware Cost</i>	-	-	15.463	-	-	-	-	-	11.246	-	-	7.672	-	-	-	-	-	7.672
Package Fielding Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)	Item Number / Title [DODIC]: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	2.751	-	-	-	-	-	2.751
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.751	-	-	-	-	-	2.751
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.751	-	-	-	-	-	2.751
Logistics Cost																		
Recurring Cost																		
Logistics Support	-	-	0.073	-	-	-	-	-	2.662	-	-	2.716	-	-	-	-	-	2.716
<i>Subtotal: Recurring Cost</i>	-	-	0.073	-	-	-	-	-	2.662	-	-	2.716	-	-	-	-	-	2.716
<i>Subtotal: Logistics Cost</i>	-	-	0.073	-	-	-	-	-	2.662	-	-	2.716	-	-	-	-	-	2.716
Gross/Weapon System Cost	-	-	42.658	-	-	4.692	111.034	205	22.762	274.912	91	25.017	-	-	-	274.912	91	25.017

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	205	91	-	91
	Total Obligation Authority	4.692	22.762	25.017	-	25.017
Total: Secondary Distribution	Quantity	-	205	91	-	91
	Total Obligation Authority	4.692	22.762	25.017	-	25.017

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)					Item Number / Title [DODIC]: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)				
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
MNVR (B-Kit) ^(†)		2016	Harris Corp / Rochester NY	C / FFP	Aberdeen Proving Ground, MD	Jul 2016	Jan 2017	205	51.615	Y	Sep 2013	Aug 2012
MNVR (B-Kit) ^(†)		2017	Harris Corp / Rochester NY	C / FFP	Aberdeen Proving Ground, MD	Mar 2017	Sep 2017	91	52.824	Y	Sep 2013	Aug 2012

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)
		Item Number / Title [DODIC]: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Harris Corp - Rochester NY	10	223	400	353	-	176	176	-	-	-	-

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 554
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	101	121	-	121	120	121	45	59	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	79.048	15.698	9.422	12.326	-	12.326	12.368	11.440	5.477	6.453	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	79.048	15.698	9.422	12.326	-	12.326	12.368	11.440	5.477	6.453	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	79.048	15.698	9.422	12.326	-	12.326	12.368	11.440	5.477	6.453	Continuing	Continuing

(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>)	-	-	93.287	101.868	-	101.868	103.067	94.545	121.711	109.373	Continuing	Continuing

Description:

The Multifunctional Information Distribution System Low Volume Terminal (MIDS LVT) is a communications device that provides situational awareness information exchange between aircraft, airborne command and control, Ground Air Defense and shipboard platforms in the Tactical Data Link-16 Network. The Army variant consists of three Line Replaceable Units (Main Terminal, Power Supply Assembly and Cooling Unit) installed on a mounting base, which physically and functionally replaces the Joint Tactical Information Distribution System (JTIDS) Class 2M terminal.

The Army Acquisition Objective for MIDS LVT is 709 and the Army Procurement Objective is 572. The Army procured 572 terminals through FY15 and no more hardware procurements are planned. Future procurements support the purchase of 572 Block Upgrade 2 (BU2) upgrade kits in support of National Security Agency and Federal Aviation Administration 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.

Procurement dollars support the MIDS LVT upgrades used in the following systems: Air Defense Airspace Management (ADAM) Cell, Patriot, Terminal High Altitude Area Defense (THAAD), Forward Area Air Defense Command and Control (FAADC2), Joint Land Attack Cruise Missile Defense Elevated Netted Sensor (JLENS), Joint Tactical Ground Station (JTAGS), and Integrated Air and IBCS.

Army MIDS is part of the Joint Navy-led MIDS program. The Army leverages Navy contracts to support Army MIDS LVT efforts and to procure Block Upgrade 2 (BU2) upgrade kits. The BU2 retrofit improves the capabilities and security of the MIDS LVT by incorporating the crypto-modernization and mandated frequency remapping to ensure compliance with National Security Agency and Federal Aviation Administration mandates. The BU2 kit replaces approximately five shop replaceable units within the radio.

The Low Volume Terminal (LVT) Cryptographic Module (LCM) is a subcomponent required to support the BU2 retrofit kit. The LCM is procured from ViaSat and is provided as Government Furnished Equipment to the vendors (ViaSat and DLS) to support the retrofits.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	101	121	-	121	120	121	45	59
Total Obligation Authority	15.698	9.422	12.326	-	12.326	12.368	11.440	5.477	6.453
Total:									
Quantity	-	101	121	-	121	120	121	45	59

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 554
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	15.698	9.422	12.326	-	12.326	12.368	11.440	5.477	6.453

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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

Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 554
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B22603 / Radio Terminal Set, MIDS LVT(2)	P-5a, P-21		- / 79.048	- / 15.698	101 / 9.422	121 / 12.326	- / -	121 / 12.326
P-40	Total Gross/Weapon System Cost			- / 79.048	- / 15.698	101 / 9.422	121 / 12.326	- / -	121 / 12.326

*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:
 FY2017 Base dollars in the amount of \$12.326 million will support BU2 retrofit kits, engineering services, software support, and program management. The BU2 unit cost is pending negotiation and contract award. With a planning retrofit unit cost of \$.073 million, 121 BU2 retrofit kits may be procured in FY17.

Note: The LCM is a low-cost (\$2,850) subcomponent that is not reflected P-40 form; quantities in the P-40 represent BU2 retrofit kits only.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)
		Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 554
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	101	121	-	121
Gross/Weapon System Cost (\$ in Millions)	79.048	15.698	9.422	12.326	-	12.326
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	79.048	15.698	9.422	12.326	-	12.326
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	79.048	15.698	9.422	12.326	-	12.326

(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)	-	-	93.287	101.868	-	101.868

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Other Hardware - Voice Cables ^(t)	-	-	-	6.800	544	3.699	-	-	-	-	-	-	-	-	-	-	-	-
Other Hardware - Voice Cards ^(t)	-	-	-	5.912	544	3.216	-	-	-	-	-	-	-	-	-	-	-	-
Other Hardware - BU2 ^(t)	-	-	-	-	-	-	65.000	101	6.565	73.000	121	8.833	-	-	-	73.000	121	8.833
Other Hardware - LCMs	-	-	-	2.848	125	0.356	-	-	-	2.848	125	0.356	-	-	-	2.848	125	0.356
Program Management Support	-	-	72.878	-	-	6.562	-	-	1.784	-	-	2.447	-	-	-	-	-	2.447
Software Support	-	-	5.963	-	-	0.200	-	-	0.350	-	-	0.300	-	-	-	-	-	0.300
Test	-	-	0.207	-	-	1.665	-	-	0.723	-	-	0.390	-	-	-	-	-	0.390
<i>Subtotal: Recurring Cost</i>	-	-	<i>79.048</i>	-	-	<i>15.698</i>	-	-	<i>9.422</i>	-	-	<i>12.326</i>	-	-	-	-	-	<i>12.326</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>79.048</i>	-	-	<i>15.698</i>	-	-	<i>9.422</i>	-	-	<i>12.326</i>	-	-	-	-	-	<i>12.326</i>
Gross/Weapon System Cost	-	-	79.048	-	-	15.698	93.287	101	9.422	101.868	121	12.326	-	-	-	101.868	121	12.326

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	101	121	-
Quantity	-	-	101	121	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)	Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 554

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	15.698	9.422	12.326	-	12.326
Total:	Quantity	-	101	121	-	121
Secondary Distribution	Total Obligation Authority	15.698	9.422	12.326	-	12.326

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)				Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Other Hardware - Voice Cables ^(†)		2015	Data Link Solutions (DLS) / Wayne, NJ	C / FFP	SPAWAR, San Diego, CA	Oct 2015	Aug 2016	450	6.800			
Other Hardware - Voice Cables ^(†)		2015	TBD / TBD	C / FFP	TBD	Mar 2016	Jan 2017	94	6.800			
Other Hardware - Voice Cards ^(†)		2015	ViaSat / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	Oct 2015	Sep 2016	487	5.672			
Other Hardware - Voice Cards ^(†)		2015	Data Link Solutions (DLS) / Wayne, NJ	C / FFP	SPAWAR, San Diego, CA	Oct 2015	Oct 2016	57	7.961			
Other Hardware - BU2 ^(†)		2016	ViaSat / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	Mar 2016	Mar 2017	89	68.970			
Other Hardware - BU2 ^(†)		2016	Data Link Solutions (DLS) / Wayne, NJ	C / FFP	SPAWAR, San Diego, CA	Mar 2016	Mar 2017	12	42.603			
Other Hardware - BU2 ^(†)		2017	ViaSat / Carlsbad, CA	C / FFP	SPAWAR, San Diego, CA	Mar 2017	Mar 2018	121	73.000			

^(†) indicates the presence of a P-21

Remarks:
 FY15 buys Voice Conversion Cables at a total quantity of 544 potentially using two vendors.
 FY15 buys Voice Conversion Cards at a total quantity of 544 using two vendors.
 FY16 buys BU2 Upgrade Kits at a total quantity of 101 using two vendors
 FY17 buys 121 BU2 Upgrade Kits

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)										Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016															Fiscal Year 2017															B A L A N C E																
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	BAL D U E A S O F 1 O C T	Calendar Year 2016															Calendar Year 2017																													
							O C T	N O V	D E C	J A N	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																					
Other Hardware - Voice Cables																																																			
1	2015	ARMY (I)	450	-	450	A	-	-	-	-	-	-	-	-	-	-	10	40	40	40	40	40	40	40	40	40	40	40	40	40	-																				
2	2015	ARMY (II)	94	-	94																										-																				
Other Hardware - Voice Cards																																																			
3	2015	ARMY (III)	487	-	487	A	-	-	-	-	-	-	-	-	-	-	40	40	40	40	40	40	41	41	41	41	41	41	41	41	-																				
4	2015	ARMY (IV)	57	-	57	A	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	2	-																				
Other Hardware - BU2																																																			
5	2016	ARMY (V)	89	-	89																										-																				
6	2016	ARMY (VII)	12	-	12																										-																				
5	2017	ARMY (VI)	121	-	121																										121																				
<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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Exhibit P-21, Production Schedule: PB 2017 Army														Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)										Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)									

Cost Elements (Units in Each)						Fiscal Year 2018																Fiscal Year 2019												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 7	BAL D U E A S O F 1 O C T	Calendar Year 2018																Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Other Hardware - Voice Cables																																			
1		2015	ARMY (I)	450	450	-																									-				
2		2015	ARMY (II)	94	94	-																									-				
Other Hardware - Voice Cards																																			
3		2015	ARMY (III)	487	487	-																									-				
4		2015	ARMY (IV)	57	57	-																									-				
Other Hardware - BU2																																			
5		2016	ARMY (V)	89	89	-																									-				
6		2016	ARMY (VII)	12	12	-																									-				
5		2017	ARMY (VI)	121	-	121	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	16									-				
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: B22603 / Radio Terminal Set, MIDS LVT(2)
		Item Number / Title [DODIC]: B22603 / Radio Terminal Set, MIDS LVT(2)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Data Link Solutions (DLS) - Wayne, NJ	7	30	56	-	-	10	10	-	-	-	-
2	TBD - TBD	7	30	56	-	-	10	10	-	-	-	-
3	ViaSat - Carlsbad, CA	7	30	56	-	-	11	11	-	-	-	-
4	Data Link Solutions (DLS) - Wayne, NJ	1	10	30	-	-	9	9	-	-	-	-
5	ViaSat - Carlsbad, CA	1	10	30	-	-	9	9	-	-	-	-
6	Data Link Solutions (DLS) - Wayne, NJ	1	10	30	-	-	9	9	-	-	-	-

"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).

Service/Agency Suffixes:

- (I) DLS
- (II) TBD
- (III) ViaSat
- (IV) DLS
- (V) ViaSat
- (VI) ViaSat
- (VII) DLS

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	100.274	22.099	26.020	-	-	-	-	-	-	-	-	148.393
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	100.274	22.099	26.020	-	-	-	-	-	-	-	-	148.393
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	100.274	22.099	26.020	-	-	-	-	-	-	-	-	148.393

(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 AMC Critical Items Program oversees the process by which Class II and VII end items that are out of production and, consequently, now under AMC management, are re-procured to fill shortages. The program supports major end-item (weapon system) inventory management through item managers. The program requirements represent actual and projected equipment deficiencies and do not include obsolete items or items replaced by modernized successors managed by G8.

The Army Materiel Command (AMC) identifies Table of Organizational Equipment (TOE) items with identifiable line item numbers (LINs) that have valid unit requirements and support Army force generation requirements. These LINs are in the sustainment phase of their life cycle and are no longer being acquired by the Army. In some cases there is a production base because of commercial, Foreign Military Sales (FMS) or other service demands. The Army prioritizes these items and determines that the systems requested herein are key to supporting current operations.

LIN H01907: The AN/ASM-146 Repair Shelter is an air transportable, mobile field maintenance facility that provides repair capability at the BCT level for all Communications-Electronics (C-E) systems and equipment and is critical to maintaining C-E readiness in the battlefield.

LIN P40750: Power Supply PP-6224, LIN P40750 is a power supply that furnishes 0-25 amperes over a voltage range of 24 to 32 Vdc from nominal 115/230 VAC at 50, 60 or 400 Hz single phase. The power supply can also operate from a 24 Vdc storage battery in the battery standby mode. It is the Army standard tactical 24V DC power source for C-E equipment in Tactical Operations Centers (TOCs) as well as equipment dismantled from vehicles.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.046	6.284	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.446	13.867	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.607	5.869	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	22.099	26.020	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2
---	--

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	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B19920 / AMC Critical Items - OPA2	P-5a, P-21		- / 100.274	- / 22.099	- / 26.020	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 100.274	- / 22.099	- / 26.020	- / -	- / -	- / -

*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:
 This program has no FY17 funding request.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2
		Item Number / Title [DODIC]: B19920 / AMC Critical Items - OPA2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	100.274	22.099	26.020	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	100.274	22.099	26.020	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	100.274	22.099	26.020	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Elect Shop Shelter (AN-ASM 146) (H01907) ^(†)	-	-	100.274	0.108	111	0.012	167.820	50	8.391	-	-	-	-	-	-	-	-	-
Power Supply (PP-6224/U) (P40750) ^(†)	-	-	-	7.525	2,935	22.087	3.553	4,962	17.629	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>100.274</i>	-	-	<i>22.098</i>	-	-	<i>26.021</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>100.274</i>	-	-	<i>22.098</i>	-	-	<i>26.021</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	100.274	-	-	22.099	-	-	26.020	-	-	-	-	-	-	-	-	-

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-
	Total Obligation Authority	6.046	6.284	-	-
ANG	Quantity	-	-	-	-
	Total Obligation Authority	12.446	13.867	-	-
AR	Quantity	-	-	-	-
	Total Obligation Authority	3.607	5.869	-	-
Total:	Quantity	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2		Item Number / Title [DODIC]: B19920 / AMC Critical Items - OPA2		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	22.099	26.020	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2	Item Number / Title [DODIC]: B19920 / AMC Critical Items - OPA2
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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
Elect Shop Shelter (AN-ASM 146) (H01907) ^(†)		2015	TBS / TBS	PO	TBS	Feb 2015	Jun 2015	111	0.108			
Elect Shop Shelter (AN-ASM 146) (H01907) ^(†)		2016	TBS / TBS	PO	TBS	Jan 2016	May 2016	50	167.820			
Power Supply (PP-6224/U) (P40750) ^(†)		2015	TBS / TBS	C / IDIQ	TBD	Jun 2015	Jul 2016	2,935	7.525			
Power Supply (PP-6224/U) (P40750) ^(†)		2016	TBS / TBS	C / IDIQ	TBD	Jun 2016	Nov 2016	4,962	3.553			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2	Item Number / Title [DODIC]: B19920 / AMC Critical Items - OPA2
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	TBS - TBS	1	15	25	-	1	3	4	-	-	-	-
2	TBS - TBS	10	500	750	-	5	5	10	-	-	-	-

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: BC3000 / TRACTOR DESK
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	88.628	3.724	4.073	2.034	-	2.034	2.041	2.187	4.072	4.120	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	88.628	3.724	4.073	2.034	-	2.034	2.041	2.187	4.072	4.120	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	88.628	3.724	4.073	2.034	-	2.034	2.041	2.187	4.072	4.120	Continuing	Continuing

(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 details for this program are reported in accordance with Title 10, United States Code, Section 119(a)(1)."

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.724	4.073	2.034	-	2.034	2.041	2.187	4.072	4.120
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.724	4.073	2.034	-	2.034	2.041	2.187	4.072	4.120

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B03001 / Tractor Ride
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	2.334	-	2.334	2.364	2.477	3.516	3.558	-	14.249
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	2.334	-	2.334	2.364	2.477	3.516	3.558	-	14.249
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	2.334	-	2.334	2.364	2.477	3.516	3.558	-	14.249

(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 details for this program are reported in accordance with Title 10, United States Code, Section 119(a)(1).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.334	-	2.334	2.364	2.477	3.516	3.558
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.334	-	2.334	2.364	2.477	3.516	3.558

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B03001 / Tractor Ride
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ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B03002 / Tractor Hay			- / -	- / -	- / -	- / 2.334	- / -	- / 2.334
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 2.334	- / -	- / 2.334

*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.

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UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 **P-1 Line Item Number / Title:** B03001 / Tractor Ride **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Tractor Hay																				
B03002 / Tractor Hay			-	-	-	-	-	-	-	-	-	-	-	2.334	-	-	-	-	-	2.334
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	-	-	-	-	-	-	2.334	-	-	-	-	-	2.334
Subtotal: Tractor Hay			-	-	-	-	-	-	-	-	-	-	-	2.334	-	-	-	-	-	2.334
Total			-	-	-	-	-	-	-	-	-	-	-	2.334	-	-	-	-	-	2.334

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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B55501 / SPIDER APLA Remote Control Unit
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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	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	28.819	0.969	1.403	1.985	-	1.985	0.996	-	-	-	-	34.172
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.819	0.969	1.403	1.985	-	1.985	0.996	-	-	-	-	34.172
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.819	0.969	1.403	1.985	-	1.985	0.996	-	-	-	-	34.172

(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>)	-	-	-	0.707	-	0.707	-	-	-	-	-	1.272

Description:

The Spider is a hand emplaced, remotely controlled, anti-personnel munition system that was designed to replace the capability of the persistent anti-personnel landmines banned from use after December 2010 per US Landmine policy. Spider, as a Man-in-the-Loop system, offers numerous capabilities for asymmetric warfare focusing on small unit force protection. The system is made up of 4 subsystems: Man-in-the-Loop (the human operator), Remote Control Station (the system command and control station), Repeater (a communication link to the munitions that provides extended range), and Munition Control Units (delivers anti-personnel effects). The Spider is designed to mitigate the indiscriminate initiation of the lethal mechanism. A Soldier makes a conscious decision to engage a target with the lethal mechanism. Spider's sensor capabilities and controlled munitions provide needed force protection and battlefield shaping. Spider allows measured and graduated responses including sense only, non lethal, and lethal modes. Spider also supports net-centric operations by feeding situational awareness information (location and status) into the Battle Command System. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. This item is Code A, approved for service use. Type Classification Standard and Full Material Release were achieved in July and September 2013 respectively. The Spider AAO is 705 systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.969	1.403	-	-	-	-	-	-	-
ANG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	1.985	-	1.985	-	-	-	-
AR	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	-	-	-	0.996	-	-	-
Total: Secondary Distribution	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.969	1.403	1.985	-	1.985	0.996	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B55501 / SPIDER APLA Remote Control Unit
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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	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B55501 / SPIDER APLA Remote Control Unit		A	- / 28.819	- / 0.969	- / 1.403	- / 1.985	- / -	- / 1.985
P-40	Total Gross/Weapon System Cost			- / 28.819	- / 0.969	- / 1.403	- / 1.985	- / -	- / 1.985

*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 2017 Base procurement dollars in the amount of \$1.985 million supports the Spider Increment 1 New Equipment Training (NET) team and provides fielding/logistical support for 25 fielding events to the National Guard.
 In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B55501 / SPIDER APLA Remote Control Unit	Item Number / Title [DODIC]: B55501 / SPIDER APLA Remote Control Unit

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	28.819	0.969	1.403	1.985	-	1.985
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	28.819	0.969	1.403	1.985	-	1.985
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	28.819	0.969	1.403	1.985	-	1.985

(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)	-	-	-	0.707	-	0.707

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Engineering (Govt)	-	-	27.735	-	-	0.559	-	-	0.112	-	-	0.180	-	-	-	-	-	0.180
New Equipment Training (NET)	-	-	0.364	-	-	0.382	-	-	0.571	-	-	1.176	-	-	-	-	-	1.176
Contractor Logistical Support - CONUS	-	-	0.720	-	-	0.028	-	-	0.720	-	-	0.629	-	-	-	-	-	0.629
<i>Subtotal: Recurring Cost</i>	-	-	<i>28.819</i>	-	-	<i>0.969</i>	-	-	<i>1.403</i>	-	-	<i>1.985</i>	-	-	-	-	-	<i>1.985</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>28.819</i>	-	-	<i>0.969</i>	-	-	<i>1.403</i>	-	-	<i>1.985</i>	-	-	-	-	-	<i>1.985</i>
Gross/Weapon System Cost	-	-	28.819	-	-	0.969	-	-	1.403	0.707	-	1.985	-	-	-	0.707	-	1.985

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.969	1.403	-	-	-
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	1.985	-	1.985
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	0.969	1.403	1.985	-	1.985

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604808A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	89	63	-	63	69	60	40	50	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	9.199	10.796	-	10.796	10.655	9.402	8.423	8.936	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	9.199	10.796	-	10.796	10.655	9.402	8.423	8.936	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	9.199	10.796	-	10.796	10.655	9.402	8.423	8.936	Continuing	Continuing

(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>)	-	-	103.360	171.365	-	171.365	154.420	156.700	210.575	178.720	Continuing	Continuing

Description:

M7 Spider is a hand emplaced, remotely controlled, Man-In-The-Loop (MITL) anti-personnel munition system that is currently being fielded. Spider Increment 1A utilizes an evolutionary acquisition approach which builds upon the baseline Spider Increment 1 system. Spider Increment 1A will 1) replace the Spider Increment 1 Remote Control Unit (RCU) with a new Networked Munitions Control Station that includes mapping capability, interoperability to the Mission Command System (MCS) or Joint Battle Command Platform (JBC-P) and new technologies, 2) control current Spider AP munitions and 3) demonstrate the initiation of legacy GOTS AV (lethal) and AP (lethal and non-lethal) effects. All other M7 Spider Increment 1 components (i.e. Control Station Transceiver (CST), Munition Control Units (MCUs)) will remain as is to ensure backwards compatibility. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. The Spider Increment 1A Army Procurement Objective is 371 systems and the overall Spider program has an Approved Acquisition Objective (AAO) of 705 systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	-	89	63	-	63	69	33	22	25
	Total Obligation Authority	-	9.199	10.796	-	10.796	10.655	5.172	4.346	4.436
ANG	Quantity	-	-	-	-	-	-	27	18	25
	Total Obligation Authority	-	-	-	-	-	-	4.230	4.077	4.500
Total: Secondary Distribution	Quantity	-	89	63	-	63	69	60	40	50
	Total Obligation Authority	-	9.199	10.796	-	10.796	10.655	9.402	8.423	8.936

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604808A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B54020 / Spider Family of Networked Munitions Incr	P-5a, P-21	A	- / -	- / -	89 / 9.199	63 / 10.796	- / -	63 / 10.796
P-40	Total Gross/Weapon System Cost			- / -	- / -	89 / 9.199	63 / 10.796	- / -	63 / 10.796

*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 2017 Base procurement dollars in the amount of \$10.796 million supports the procurement of 63 Spider Increment 1A systems.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr	Item Number / Title [DODIC]: B54020 / Spider Family of Networked Munitions Incr

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	89	63	-	63
Gross/Weapon System Cost (\$ in Millions)	-	-	9.199	10.796	-	10.796
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	9.199	10.796	-	10.796
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	9.199	10.796	-	10.796

(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)	-	-	103.360	171.365	-	171.365

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Spider System ^(†)	-	-	-	-	-	-	47.040	89	4.187	44.330	63	2.793	-	-	-	44.330	63	2.793
Initial Issue Spares	-	-	-	-	-	-	-	-	0.345	-	-	0.240	-	-	-	-	-	0.240
Production Engineering (Govt)	-	-	-	-	-	-	-	-	2.619	-	-	6.093	-	-	-	-	-	6.093
Software Maintenance	-	-	-	-	-	-	-	-	-	-	-	0.346	-	-	-	-	-	0.346
Engineering Change Order (ECO)	-	-	-	-	-	-	-	-	0.107	-	-	0.060	-	-	-	-	-	0.060
New Equipment Training (NET)	-	-	-	-	-	-	-	-	-	-	-	0.960	-	-	-	-	-	0.960
Testing	-	-	-	-	-	-	-	-	0.592	-	-	0.304	-	-	-	-	-	0.304
Facilitization	-	-	-	-	-	-	-	-	1.349	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	9.199	-	-	10.796	-	-	-	-	-	10.796
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	9.199	-	-	10.796	-	-	-	-	-	10.796
Gross/Weapon System Cost	-	-	-	-	-	-	103.360	89	9.199	171.365	63	10.796	-	-	-	171.365	63	10.796

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	89	63	-	63
	Total Obligation Authority	-	9.199	10.796	-	10.796

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr	Item Number / Title [DODIC]: B54020 / Spider Family of Networked Munitions Incr

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Total:	Quantity	-	89	63	-	63
Secondary Distribution	Total Obligation Authority	-	9.199	10.796	-	10.796

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr				Item Number / Title [DODIC]: B54020 / Spider Family of Networked Munitions Incr				

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
Spider System ^(†)		2016	Northrop Grumman / Redondo Beach	C / FFP	Picatinny Arsenal, NJ	Sep 2016	Jun 2017	89	47.040			
Spider System ^(†)		2017	Northrop Grumman / Redondo Beach	C / FFP	Picatinny Arsenal, NJ	Mar 2017	Sep 2017	63	44.330			

^(†) indicates the presence of a P-21

Remarks:
FY16 LRIP will be let on EMD contract option with Northrop Grumman.

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Exhibit P-21, Production Schedule: PB 2017 Army																				Date: February 2016																								
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr										Item Number / Title [DODIC]: B54020 / Spider Family of Networked Munitions Incr																								
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016										Fiscal Year 2017										B A L A N C E																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																											
							O C T	N O V	D E C	J A N	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													
Spider System																																												
	1	2016	ARMY	89	-	89																					A	-	-	-	-	-	-	-	-	-	-	10	10	10	10	49		
	1	2017	ARMY	63	-	63																																					20	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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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr										Item Number / Title [DODIC]: B54020 / Spider Family of Networked Munitions Incr									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Spider System																															
	1	2016	ARMY	89	40	49	14	15	20																				-		
	1	2017	ARMY	63	20	43	20	23																					-		
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: B54020 / Spider Family of Networked Munitions Incr
Item Number / Title [DODIC]: B54020 / Spider Family of Networked Munitions Incr		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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 - Redondo Beach	5	100	500	9	9	18	27	6	6	15	21

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: BA5300 / Soldier Enhancement Program Comm/Electronics
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	96.341	0.294	0.349	-	-	-	-	-	-	-	-	96.984
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	96.341	0.294	0.349	-	-	-	-	-	-	-	-	96.984
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	96.341	0.294	0.349	-	-	-	-	-	-	-	-	96.984

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

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

Description:

The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act for Fiscal Year 1990 and 1991. The SEP evaluates available Commercial Off the Shelf (COTS), Government Off the Shelf (GOTS) and Non-Developmental Item (NDI) equipment to determine if items have the potential to provide increased combat effectiveness to the Soldier. The SEP OPA2 funding provided a means of procuring selected types of equipment (electronics and communications) designed to increase Soldiers' mission command, situational awareness and operational effectiveness.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.294	0.349	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.294	0.349	-	-	-	-	-	-	-

Justification:

No additional funding required beyond FY2016.

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B55510 / Tactical Communications And Protective System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	22,952	11,612	8,987	2,110	-	2,110	5,203	5,368	2,975	3,064	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	57.802	22.654	25.597	3.607	-	3.607	8.140	8.827	6.204	6.454	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	57.802	22.654	25.597	3.607	-	3.607	8.140	8.827	6.204	6.454	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	57.802	22.654	25.597	3.607	-	3.607	8.140	8.827	6.204	6.454	Continuing	Continuing

(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>)	2.518	1.951	2.848	1.709	-	1.709	1.564	1.644	2.085	2.106	Continuing	Continuing

Description:

The Tactical Communications and Protective System (TCAPS) provides Soldiers with advanced active hearing protection that simultaneously protects Soldiers' hearing while enabling situational awareness and mission command. TCAPS protects Soldiers against harmful impulse and steady-state noise characteristics in combat environments while also enabling Soldiers to communicate with each other using voice communications over a tactical radio. TCAPS enhances survivability and situational awareness by allowing Soldiers to selectively amplify faint sounds that would otherwise not be audible or intelligible. TCAPS contributes to the reduction of post-service disability compensation and limits lost in-service time related to hearing injuries. TCAPS will continue to employ commercial-off-the-shelf solutions that are evaluated on a periodic basis. The best commercial solutions evaluated will be transitioned into production and fielded. Includes integration and interface of products on Soldiers.

TCAPS Approved Acquisition Objective is 106,184.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	11,612	8,987	2,110	-	2,110	2,404	5,368	2,975	3,064
	Total Obligation Authority	22.654	25.597	3.607	-	3.607	3.745	8.827	6.204	6.454
ANG	Quantity	-	-	-	-	-	2,799	-	-	-
	Total Obligation Authority	-	-	-	-	-	4.395	-	-	-
Total: Secondary Distribution	Quantity	11,612	8,987	2,110	-	2,110	5,203	5,368	2,975	3,064
	Total Obligation Authority	22.654	25.597	3.607	-	3.607	8.140	8.827	6.204	6.454

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B55510 / Tactical Communications And Protective System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B55510 / Tactical Communications And Protective System	P-5a		22,952 / 57.802	11,612 / 22.654	8,987 / 25.597	2,110 / 3.607	- / -	2,110 / 3.607
P-40	Total Gross/Weapon System Cost			22,952 / 57.802	11,612 / 22.654	8,987 / 25.597	2,110 / 3.607	- / -	2,110 / 3.607

*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 2017 Base procurement dollars in the amount of \$3.607 million procures commercial off the shelf Tactical Communications and Protective Systems for one (1) IBCT.

The General Accounting Office (GAO) Report 11-114 states that the Veterans Administration purchased 382,000 hearing assistive devices at an estimated expenditure of \$154 million in FY2008 and provided annual disability payments in excess of \$1.1 billion in FY2009. Hearing injuries will be avoided only if Soldiers wear hearing protection. Historically Soldiers have had to choose between hearing protection and auditory situational awareness. TCAPS prevents hearing injury while enabling command, control and situational awareness.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B55510 / Tactical Communications And Protective System	Item Number / Title [DODIC]: B55510 / Tactical Communications And Protective System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	22,952	11,612	8,987	2,110	-	2,110
Gross/Weapon System Cost (\$ in Millions)	57.802	22.654	25.597	3.607	-	3.607
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	57.802	22.654	25.597	3.607	-	3.607
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	57.802	22.654	25.597	3.607	-	3.607

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2.518	1.951	2.848	1.709	-	1.709

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
TCAPS Hardware (COMPO) 1 ^(t)	5.382	10,030	53.986	2.053	7,304	14.998	2.060	8,987	18.512	1.104	2,110	2.330	-	-	-	1.104	2,110	2.330
Sys/Eng Prgm Mgmt (COMPO) 1	-	-	1.524	-	-	2.007	-	-	1.973	-	-	1.048	-	-	-	-	-	1.048
System Fielding & Support (COMPO) 1	-	-	2.292	-	-	5.649	-	-	5.112	-	-	0.229	-	-	-	-	-	0.229
<i>Subtotal: Recurring Cost</i>	-	-	<i>57.797</i>	-	-	<i>22.651</i>	-	-	<i>25.598</i>	-	-	<i>3.606</i>	-	-	-	-	-	<i>3.606</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>57.797</i>	-	-	<i>22.651</i>	-	-	<i>25.598</i>	-	-	<i>3.606</i>	-	-	-	-	-	<i>3.606</i>
Gross/Weapon System Cost	2.518	22,952	57.802	1.951	11,612	22.654	2.848	8,987	25.597	1.709	2,110	3.607	-	-	-	1.709	2,110	3.607

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity 11,612	Quantity 8,987	Quantity 2,110	-	Quantity 2,110
	Total Obligation Authority 22.654	Total Obligation Authority 25.597	Total Obligation Authority 3.607	-	Total Obligation Authority 3.607
Total: Secondary Distribution	Quantity 11,612	Quantity 8,987	Quantity 2,110	-	Quantity 2,110
	Total Obligation Authority 22.654	Total Obligation Authority 25.597	Total Obligation Authority 3.607	-	Total Obligation Authority 3.607

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: B55510 / Tactical Communications And Protective System				Item Number / Title [DODIC]: B55510 / Tactical Communications And Protective System				

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
TCAPS Hardware (COMPO) 1		2015	DLA Troop Support / PA	MIPR	Philadelphia	Mar 2015	May 2015	7,304	2.053			
TCAPS Hardware (COMPO) 1		2016	DLA Troop Support / PA	MIPR	Philadelphia	Feb 2016	May 2016	8,987	2.060			
TCAPS Hardware (COMPO) 1		2017	DLA Troop Support / PA	MIPR	Philadelphia	Feb 2017	May 2017	2,110	1.104			

Remarks:
P21 is not required. This program procures commercial off the shelf Tactical Communications and Protective Systems.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B58601 / Unified Command Suite
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.000	17.445	21.854	14.295	-	14.295	15.046	17.141	17.616	17.982	-	129.379
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.000	17.445	21.854	14.295	-	14.295	15.046	17.141	17.616	17.982	-	129.379
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.000	17.445	21.854	14.295	-	14.295	15.046	17.141	17.616	17.982	-	129.379

(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) 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 reachback 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 reachback communications for Analytical Laboratory Systems (ALS) and other Civil Support Team (CST) systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.580	1.534	-	1.534	1.543	1.621	1.627
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.445	20.274	12.761	-	12.761	13.503	15.520	15.989
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.445	21.854	14.295	-	14.295	15.046	17.141	17.616

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: B58601 / Unified Command Suite
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	P-5a, P-21		- / 8.000	- / 17.445	- / 21.854	- / 14.295	- / -	- / 14.295
P-40	Total Gross/Weapon System Cost			- / 8.000	- / 17.445	- / 21.854	- / 14.295	- / -	- / 14.295

*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 2017 Base funding in the amount of \$14.295 million will modernize, upgrade, and procure components for the Unified Command Suites for Civil Support Teams. Funding supports the UCS DOD wireless, High Frequency radio, network communication infrastructure replacement as well as initiation of the satellite communication subsystem and land mobile radio modernization. Each of these components is at or will be at their end of life, near depletion of sustainment spare components, and has become more costly than obsolescence replacement. In addition, each of the components listed represents a significant investment that requires modifications to existing subsystem assemblies for information assurance or regulatory purposes.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.000	17.445	21.854	14.295	-	14.295
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8.000	17.445	21.854	14.295	-	14.295
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.000	17.445	21.854	14.295	-	14.295

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	0.356	-	-	0.356	-	-	0.357	-	-	0.357	-	-	-	-	-	-
Fielding	-	-	6.437	-	-	5.882	-	-	6.439	-	-	4.121	-	-	-	-	-	-
Training	-	-	0.192	-	-	0.041	-	-	0.043	-	-	0.043	-	-	-	-	-	-
Hardware ^(t)	-	-	1.015	507.550	22	11.166	469.220	32	15.015	152.720	64	9.774	-	-	-	152.720	64	9.774
<i>Subtotal: Recurring Cost</i>	-	-	<i>8.000</i>	-	-	<i>17.445</i>	-	-	<i>21.854</i>	-	-	<i>14.295</i>	-	-	-	-	-	<i>14.295</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>8.000</i>	-	-	<i>17.445</i>	-	-	<i>21.854</i>	-	-	<i>14.295</i>	-	-	-	-	-	<i>14.295</i>
Gross/Weapon System Cost	-	-	8.000	-	-	17.445	-	-	21.854	-	-	14.295	-	-	-	-	-	14.295

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.580	1.534	-	1.534
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	17.445	20.274	12.761	-	12.761
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	17.445	21.854	14.295	-	14.295

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite
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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
Hardware ^(†)		2015	TBD / TBD	C / FFP	TBD	Mar 2015	Apr 2015	22	507.550			
Hardware ^(†)		2016	TBD / TBD	C / FFP	TBD	Mar 2016	Apr 2016	32	469.220			
Hardware ^(†)		2017	TBD / TBD	C / FFP	TBD	Mar 2017	Apr 2017	64	152.720			

^(†) indicates the presence of a P-21

Remarks:

Fielding schedule reflects modernization of existing systems. No new system fieldings are taking place. UCS is currently undergoing various blocks of modernization for which the unit cost will vary from year to year. This will allow the UCS to remain ahead of the obsolescence curve.

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	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																															
	1	2015	ARMY	22	-	22																								-	
	1	2016	ARMY	32	-	32																								16	
	1	2017	ARMY	64	-	64																								64	
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE																					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P																				
Hardware																																																			
1		2015	ARMY	22	22	-																									-																				
1		2016	ARMY	32	16	16	3	3	2	3	2	3													-																										
1		2017	ARMY	64	-	64													A -	10	10	11	11	11	11													-													
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	10	20	-	5	1	6	-	5	1	6

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: BU8100 / Radio, Improved HF (COTS) Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	27,308	-	-	-	-	-	-	-	-	-	-	27,308
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,624.012	1.028	-	-	-	-	-	-	-	-	-	1,625.040
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,624.012	1.028	-	-	-	-	-	-	-	-	-	1,625.040
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,624.012	1.028	-	-	-	-	-	-	-	-	-	1,625.040

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	59.470	-	-	-	-	-	-	-	-	-	-	59.508

Description:

The COTS Family of radios provides state-of-the-art communications for tactical use. Through numerous non-developmental and commercial offerings, the COTS family is able to provide various capabilities currently required by the Soldier.

These capabilities include:

- Transmit and receive voice and data via line-of-sight (LOS), non-LOS or satellite communications (SATCOM) operations
- Supports legacy/current force waveforms and emerging networking waveforms
- Software upgradeable
- Encryption to protect Sensitive Unclassified and Classified voice and data
- Supports Large/Medium/Small Forward Operating Bases
- Vehicular, Manpack, Hand Held, and Base Station configurations

Funding also supports COTS procurement of cosite mitigation, Electronic Warfare filters and multi-band antennas.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.028	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.028	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: BU8100 / Radio, Improved HF (COTS) Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B81803 / COTS Tactical Radios			27,308 / 1,624.012	- / 1.028	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			27,308 / 1,624.012	- / 1.028	- / -	- / -	- / -	- / -

*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:
 This program has no FY 2017 procurement request, as program transitions to sustainment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-118), 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-40a, Budget Item Justification For Aggregated Items: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 **P-1 Line Item Number / Title:** BU8100 / Radio, Improved HF (COTS) Family **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
COTS Tactical Radios																				
B81803 / COTS Tactical Radios			59.470	27,308	1,624.012	-	-	1.028	-	-	-	-	-	-	-	-	-	-	-	
<i>Secondary Distribution</i>																				
Army				-	-		-	1.028		-	-		-	-		-	-		-	
Subtotal: COTS Tactical Radios			-	-	1,624.012	-	-	1.028	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	1,624.012	-	-	1.028	-	-	-	-	-	-	-	-	-	-	-	

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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: MA8000 / Family of Med Comm for Combat Casualty Care
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	6,328	974	2,089	2,205	-	2,205	120	255	261	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	473.590	22.614	24.388	19.893	-	19.893	15.964	17.124	17.564	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	473.590	22.614	24.388	19.893	-	19.893	15.964	17.124	17.564	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	473.590	22.614	24.388	19.893	-	19.893	15.964	17.124	17.564	-	Continuing	Continuing

(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>)	74.840	23.218	11.674	9.022	-	9.022	133.033	67.153	67.295	-	Continuing	Continuing

Description:

The Medical Communications for Combat Casualty Care (MC4) system interfaces Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The system captures and provides data for future medical care and medical record retention for all Servicemembers. 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 Servicemembers' medical treatment to include pre- and post-deployment screening and its 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. The MC4 system is comprised of seven 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 Army Acquisition Objective (AAO) is the sum of the LINS to be fielded and totals 46,589 LIN quantities of the MC4 system.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	22	32	45	-	45	78	166	170	-
	Total Obligation Authority	0.392	1.001	0.813	-	0.813	10.355	11.144	11.429	-
ANG	Quantity	582	1,211	1,025	-	1,025	6	13	13	-
	Total Obligation Authority	12.171	11.519	7.859	-	7.859	0.802	0.878	0.881	-
AR	Quantity	370	846	1,135	-	1,135	36	76	78	-
	Total Obligation Authority	10.051	11.868	11.221	-	11.221	4.807	5.102	5.254	-
Total:	Quantity	974	2,089	2,205	-	2,205	120	255	261	-
Secondary Distribution	Total Obligation Authority	22.614	24.388	19.893	-	19.893	15.964	17.124	17.564	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: MA8000 / Family of Med Comm for Combat Casualty Care
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		6,328 / 473.590	974 / 22.614	2,089 / 24.388	2,205 / 19.893	- / -	2,205 / 19.893
P-40	Total Gross/Weapon System Cost			6,328 / 473.590	974 / 22.614	2,089 / 24.388	2,205 / 19.893	- / -	2,205 / 19.893

*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 2017 Base procurement dollars in the amount of \$19.893 million supports production engineering, fielding and new equipment training for new systems. In addition, overall program office management efforts are funded in this appropriation. Base funding in FY17 is required to continue fielding remaining gaps of MC4 capability to the Army medical force structure and to upgrade obsolete equipment to comply with direction of the US Army Common Operating Environment. FY17 funding will procure 2,205 end components of the MC4 system for upgraded and new equipment fielding and provide new equipment training (NET) as needed for 4 Active units (2 military police, elements of 1 brigade combat team, 1 chemical unit); 19 National Guard units (8 brigade combat team elements, headquarters and support battalions, and 11 medical units); and 50 Army Reserve units (3 sustainment commands, 4 support battalions, 3 military police units, 21 medical units, 1 combat support hospital, e chemical units and 15 engineering units). The system is fielded and trained to units as they prepare for deployment or other priority missions. In addition, all units with MC4 equipment authorizations are being evaluated for authorized shortages and provided equipment towards reaching the AAO. The medical encounters 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 accordance with Section 1815 of the FY08 National Defense Authorization Act (NDAA)(P.L. 110-181) this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: MA8000 / Family of Med Comm for Combat Casualty Care
		Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	6,328	974	2,089	2,205	-	2,205
Gross/Weapon System Cost (\$ in Millions)	473.590	22.614	24.388	19.893	-	19.893
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	473.590	22.614	24.388	19.893	-	19.893
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	473.590	22.614	24.388	19.893	-	19.893

(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)	74.840	23.218	11.674	9.022	-	9.022

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Medical Information Systems Equipment ^(†)	307,755.000	1	307.755	2.374	974	2.312	3.034	2,089	6.338	1.049	2,205	2.313	-	-	-	1.049	2,205	2.313
PMO Fielding Management	37,414.000	1	37.414	5,346.000	1	5.346	5,250.000	1	5.250	6,457.000	1	6.457	-	-	-	6,457.000	1	6.457
Field equipment / conduct New Equip Train ^(†)	83,237.000	1	83.237	7,293.000	1	7.293	6,600.000	1	6.600	5,872.000	1	5.872	-	-	-	5,872.000	1	5.872
Production Engineering ^(†)	37,534.000	1	37.534	5,665.000	1	5.665	4,800.000	1	4.800	3,741.000	1	3.741	-	-	-	3,741.000	1	3.741
PMO Management Support ^(†)	7,650.000	1	7.650	1,998.000	1	1.998	1,400.000	1	1.400	1,510.000	1	1.510	-	-	-	1,510.000	1	1.510
<i>Subtotal: Recurring Cost</i>	-	-	473.590	-	-	22.614	-	-	24.388	-	-	19.893	-	-	-	-	-	19.893
<i>Subtotal: Flyaway Cost</i>	-	-	473.590	-	-	22.614	-	-	24.388	-	-	19.893	-	-	-	-	-	19.893
Gross/Weapon System Cost	74.840	6,328	473.590	23.218	974	22.614	11.674	2,089	24.388	9.022	2,205	19.893	-	-	-	9.022	2,205	19.893

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	22	32	45	-	45
Total Obligation Authority	0.392	1.001	0.813	-	0.813

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: MA8000 / Family of Med Comm for Combat Casualty Care	Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	582	1,211	1,025	-	1,025
	Total Obligation Authority	12.171	11.519	7.859	-	7.859
AR	Quantity	370	846	1,135	-	1,135
	Total Obligation Authority	10.051	11.868	11.221	-	11.221
Total:	Quantity	974	2,089	2,205	-	2,205
Secondary Distribution	Total Obligation Authority	22.614	24.388	19.893	-	19.893

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: MA8000 / Family of Med Comm for Combat Casualty Care					Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Medical Information Systems Equipment		2015	VAR / VAR	C / FP	ACC-RI	Feb 2015	Apr 2015	974	2.374	N		
Medical Information Systems Equipment		2016	TBS / TBS	C / FP	ACC-RI	Feb 2016	Apr 2016	2,089	3.034	N		
Medical Information Systems Equipment		2017	TBS / TBS	C / FP	ACC-RI	Feb 2017	Apr 2017	2,205	1.049	N		
Field equipment /conduct New Equip Train		2015	L-3 / Reston, VA	C / Various	GSA Philadelphia	Dec 2014	Jan 2015	1	7,293.000	N		
Field equipment /conduct New Equip Train		2016	L-3 / Reston, VA	C / Various	GSA Philadelphia	Jan 2016	Jan 2016	1	6,600.000	N		
Field equipment /conduct New Equip Train		2017	L-3 / Reston, VA	C / FP	GSA Philadelphia	Jan 2017	Jan 2017	1	5,872.000			
Production Engineering		2015	L-3 / Reston, VA	C / T&M	ACC-RI	Feb 2015	Mar 2015	1	5,665.000	N		
Production Engineering		2016	L-3 / Reston, VA	C / Various	GSA Philadelphia	Dec 2015	Jan 2016	1	4,800.000	N		
Production Engineering		2017	L-3 / Reston, VA	C / FP	GSA Philadelphia	Jan 2017	Jan 2017	1	3,741.000			
PMO Management Support		2015	Booz Allen Hamilton / McLean, VA	C / T&M	ACC-RI	Jan 2015	Jan 2015	1	1,998.000	N		
PMO Management Support		2016	Booz Allen Hamilton / McLean, VA	C / FFP	ACC-RI	Jan 2016	Jan 2016	1	1,400.000	N		
PMO Management Support		2017	TBS / TBS	C / FFP	ACC-RI	Jun 2017	Jul 2017	1	1,510.000			

Remarks:

1. A new competitive procurement merged the Fielding/Training and Production Engineering into one contract, awarded Dec 2014 to L-3. The new fielding portion began Jan 2015 and the Production Engineering portion started Jan 2016.
2. Equipment (TBS-To Be Selected) is COTS and is procured with various of the 7 MC4 Line Item Numbers (LINs) depending on specific configurations of operational units to be fielded. Equipment vendors are selected by Army Contracting Command, Rock Island (ACC-RI), for best value based on MC4 engineering specifications.
3. Program Management Support has been through Program Management Support Services 2 (PMSS2) contract, Booz Allen Hamilton task order awarded 1 Apr 2011 with options extending through Jun 2016. A new competitive contract is planned for award 3QFY16 for continued PMO Management Support starting 4QFY16.
4. PMO Fielding Management is not shown here as it is not contracted but consists of Government Civilians, and facility/utility fees and expenses paid to base operations.
5. Unit cost for Equipment is an average unit cost. The MC4 system consists of 7 Line Item Numbers (LINs) and the mix of LINs fielded is dependent on the specific unit type. The quantity procured in any year is the summation of the LINs expected to be procured and fielded each year. Cost for each of the 7 LINs differs and the unit cost is developed as the average unit cost for that year based on the mix of LINs to be procured.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK5284 / CI Automation Architecture
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	68.429	3.371	1.349	1.388	1.550	2.938	1.407	1.427	1.441	1.459	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	68.429	3.371	1.349	1.388	1.550	2.938	1.407	1.427	1.441	1.459	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	68.429	3.371	1.349	1.388	1.550	2.938	1.407	1.427	1.441	1.459	Continuing	Continuing

(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 DoD counterintelligence (CI) community with advanced CI operational equipment to enhance Army's ability to contour the global threat through significant improvements in information sharing, common situational awareness, and knowledge management in a joint operational environment.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.371	1.349	1.388	1.550	2.938	1.407	1.427	1.441
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.371	1.349	1.388	1.550	2.938	1.407	1.427	1.441

Justification:

FY 2017 Base funding in the amount of \$1.388 million procures the DoD Intelligence Information System (DODIIS)-compliant CI and Human Intelligence (HUMINT) materiel solutions to support implementation of Defense Counterintelligence Integrated Information System (DCIIS) at Army Intelligence sites at the MACOM level. Funding further provides specialized equipment necessary to support worldwide CI operations and investigative missions.

FY 2017 OCO funding in the amount of \$1.550 million supports the Deployable Counterintelligence and Human Intelligence Portal (DCHIP), Tactical Counterintelligence Operations Portal (TCOP), and web-based CI and HUMINT tools used at the tactical and operational echelons in the ARCENT AOR. Funds provide mission critical hardware, including Deployable Counterintelligence and HUMINT communications and threat equipment including non-MTOE automation equipment that is required by deployed CI and HUMINT soldiers.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK6285 / Army CA/MISO GPF Equipment
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	28.556	5.124	3.695	5.494	-	5.494	5.506	4.204	5.251	7.151	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.556	5.124	3.695	5.494	-	5.494	5.506	4.204	5.251	7.151	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.556	5.124	3.695	5.494	-	5.494	5.506	4.204	5.251	7.151	Continuing	Continuing

(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 is vital in conventional operations and irregular warfare. Beginning in FY16, the portfolio for Civil Affairs (CA) and Military Information Support Operations (MISO) includes 11 systems. These systems are critical to the Warfighter's capabilities in all overseas contingency operations, theater security cooperation, and stability, transition and reconstruction operations. These systems are deployed in support of the combatant commanders engaging with foreign audiences, joint interagency and multi-national operations before, during, and after military operations. The program enables CA/MISO units to keep pace with the increasing Modified Table of Organization and Equipment (MOTEs), rapid deployment rotational cycles, and the requirements of the Warfighter in various theaters of operations. The Army Acquisition Objectives for these 11 systems are 4 Fly Away Broadcast System-v2 (FABS-v2), 192 Media Production Center-Light (MPC-L), 4 Media Production Center-Medium (MPC-M), 33 MISO Print-Light (MISOP-L), 1 MISO Print-Medium (MISOP-M), 651 Next Generation Loud Speakers-Dismounted (NGLS-D), 641 Next Generation Loud Speaker-Mounted (NGLS-M), 708 Production Distribution System-Light (PDS-L), 10 Radio Integration System Lite (RIS-L), 846 SOF Deployment Node-Light (SDN-L), and 56 Tactical Local Area Network (TACLAN). In FY17 MISO is partnering with Defense Military Deception Initiative (DMDI) program to integrate Procurement prototypes with Component programs for acquisition, sustainment and maintenance.

	Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.334	-	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.790	3.695	5.494	-	5.494	5.506	4.204	5.251	7.151
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.124	3.695	5.494	-	5.494	5.506	4.204	5.251	7.151

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK6285 / Army CA/MISO GPF Equipment
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BK6285 / Army CA/MISO GPF Equipment	P-5a, P-21		- / 28.556	- / 5.124	- / 3.695	- / 5.494	- / -	- / 5.494
P-40	Total Gross/Weapon System Cost			- / 28.556	- / 5.124	- / 3.695	- / 5.494	- / -	- / 5.494

*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 2017 Base procurement dollars in the amount of \$5.494 million supports Technology Refresh of the Media Production Center-Light (MPC-L) and MISO Print-Light (MISOP-L) systems. The Civil Affairs (CA) and Military Information Support Operations (MISO) funding also supports Secretariat and Global Security Initiatives for Army Procurement requirements, capacity and readiness of Army deception capabilities. Program executes procurement of next generation devices and technologies to support Army's ability to meet current and emerging requirements. MISO is partnering with Defense Military Deception Initiative (DMDI) program to integrate Procurement prototypes with Component programs for acquisition, sustainment and maintenance.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36	P-1 Line Item Number / Title: BK6285 / Army CA/MISO GPF Equipment	Item Number / Title [DODIC]: BK6285 / Army CA/MISO GPF Equipment

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	28.556	5.124	3.695	5.494	-	5.494
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	28.556	5.124	3.695	5.494	-	5.494
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	28.556	5.124	3.695	5.494	-	5.494

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Prototypes	-	-	-	-	-	-	-	-	-	-	-	3.994	-	-	-	-	-	3.994
Product Distribution System-Light ^(†)	-	-	28.556	-	-	-	284.231	13	3.695	-	-	-	-	-	-	-	-	-
MISO Print-Light ^(†)	-	-	-	427.000	12	5.124	-	-	-	8.571	14	0.120	-	-	-	8.571	14	0.120
Media Production Center-Light ^(†)	-	-	-	-	-	-	-	-	-	30.000	46	1.380	-	-	-	30.000	46	1.380
<i>Subtotal: Recurring Cost</i>	-	-	28.556	-	-	5.124	-	-	3.695	-	-	5.494	-	-	-	-	-	5.494
<i>Subtotal: Flyaway Cost</i>	-	-	28.556	-	-	5.124	-	-	3.695	-	-	5.494	-	-	-	-	-	5.494
Gross/Weapon System Cost	-	-	28.556	-	-	5.124	-	-	3.695	-	-	5.494	-	-	-	-	-	5.494

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.334	-	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	2.790	3.695	5.494	-	5.494
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36	P-1 Line Item Number / Title: BK6285 / Army CA/MISO GPF Equipment	Item Number / Title [DODIC]: BK6285 / Army CA/MISO GPF Equipment

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	5.124	3.695	5.494	-	5.494

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36			P-1 Line Item Number / Title: BK6285 / Army CA/MISO GPF Equipment				Item Number / Title [DODIC]: BK6285 / Army CA/MISO GPF Equipment				

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
Product Distribution System-Light ^(†)		2016	SPAWAR / Charleston	MIPR	TBD	Jan 2016	Aug 2016	13	284.231			
MISO Print-Light ^(†)		2015	SPAWAR / Charleston	MIPR	TBD	Feb 2015	Aug 2015	12	427.000			
MISO Print-Light ^(†)		2017	SPAWAR / Charleston	MIPR	TBD	Mar 2017	Aug 2017	14	8.571			
Media Production Center-Light ^(†)		2017	SPAWAR / Charleston	MIPR	TBD	Mar 2017	Aug 2017	46	30.000			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36										P-1 Line Item Number / Title: BK6285 / Army CA/MISO GPF Equipment										Item Number / Title [DODIC]: BK6285 / Army CA/MISO GPF Equipment									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Product Distribution System-Light																																	
1		2016	ARMY	13	13	-																							-				
MISO Print-Light																																	
2		2015	ARMY	12	12	-																							-				
2		2017	ARMY	14	-	14																							-				
Media Production Center-Light																																	
3		2017	ARMY	46	-	46																							-				
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36		P-1 Line Item Number / Title: BK6285 / Army CA/MISO GPF Equipment
		Item Number / Title [DODIC]: BK6285 / Army CA/MISO GPF Equipment

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	SPAWAR - Charleston	1	50	100	1	1	6	7	-	-	-	-
2	SPAWAR - Charleston	1	50	100	1	1	6	7	-	-	-	-
3	SPAWAR - Charleston	1	50	100	1	1	6	7	-	-	-	-

"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 2017 Army **Date:** February 2016

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: BA1300 / FAMILY OF BIOMETRICS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0607665A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	107.463	-	-	2.978	-	2.978	-	-	-	-	-	110.441
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	107.463	-	-	2.978	-	2.978	-	-	-	-	-	110.441
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.463	-	-	2.978	-	2.978	-	-	-	-	-	110.441

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

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

Description:

The Biometrics Enabling Capability (BEC) product office has full life-cycle management responsibility of the upgraded authoritative biometrics enterprise repository system, known as DoD Automated Biometrics Identification System (DoD ABIS). DoD ABIS is an information technology investment that supports identity superiority by providing the critical capability for Warfighters to identify known or suspected terrorists and third country nationals in the course of military operations. DoD ABIS is the authoritative biometrics enterprise system that provides matching, sharing and storing of biometrics data. The capability can receive multi-modal biometrics submissions to include iris, face, palm and finger prints from biometrics collection devices, which will support the Warfighter in making, retain, capture or release decisions. The system has a direct impact on the availability of critical intelligence information that is of vital interest to DoD and other government agencies, including Department of Justice (DoJ), Federal Bureau of Investigation (FBI), Department of Homeland Security (DHS), and Department of State (DoS).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.978	-	2.978	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.978	-	2.978	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 BA1300 / FAMILY OF BIOMETRICS

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0607665A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B01301 / Biometrics Enterprise			- / 107.463	- / -	- / -	- / 2.978	- / -	- / 2.978
P-40	Total Gross/Weapon System Cost			- / 107.463	- / -	- / -	- / 2.978	- / -	- / 2.978

*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 2017 Base Other Procurement Army (OPA) funding in the amount of \$2.978 million will be used to procure new computing hardware for technology refreshment of the DoD ABIS Operating Environment (OE) as part of a planned Service Life Extension Program (SLEP). The SLEP resolves major system software component end-of-life issues. The OE is the primary system providing direct Biometric Identity Management support to the Warfighter, and processes, stores, matches and shares critical biometric information with the end user and other government agencies (DHS, Dos, FBI, CBP). It operates 24/7/365 and the MRS provides the Disaster Recovery capability to ensure continued support to the Warfighter should the OE not be available.

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-40a, Budget Item Justification For Aggregated Items: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: BA1300 / FAMILY OF BIOMETRICS	Aggregated Items Title: Various
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Biometrics Enterprise																				
B01301 / Biometrics Enterprise			-	-	107.463	-	-	-	-	-	-	-	-	2.978	-	-	-	-	-	2.978
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	-	-	-	-	-	-	2.978	-	-	-	-	-	2.978
Subtotal: Biometrics Enterprise			-	-	107.463	-	-	-	-	-	-	-	-	2.978	-	-	-	-	-	2.978
Total			-	-	107.463	-	-	-	-	-	-	-	-	2.978	-	-	-	-	-	2.978

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 2017 Army **Date:** February 2016

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: TA0600 / 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	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	1,400	-	-	-	-	-	-	-	-	-	-	1,400
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,566.797	-	19.920	-	-	-	-	-	-	-	-	1,586.717
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,566.797	-	19.920	-	-	-	-	-	-	-	-	1,586.717
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,566.797	-	19.920	-	-	-	-	-	-	-	-	1,586.717

(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>	1,119.141	-	-	-	-	-	-	-	-	-	-	1,133.369

Description:

The Cryptographic Systems (CS) Program procures and fields Communications Security (COMSEC) solutions to secure the Army's tactical and enterprise classified networks. New and emerging architectures, cease key dates, emerging threats, and DoD/Army policy are driving the need to replace current inventory of stove pipe systems with technologically advanced (network centric/Global Information Grid (GIG) compliant) devices that incorporate Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic standardization, advanced key management and network centric performance capabilities. This program enables DoD to equip the force with critical cryptographic solutions and services during peacetime, wartime, and contingency operations. The program consists of three product families: In-Line Network Encryptors (INE), Link/Trunk Encryptors Family (LEF), and Secure Voice. (PD Net E)

The Army-wide Cryptographic Network Standardization (ACNS) effort brings cryptographic equipment into compliance with NSA mandated use of modern cryptographic algorithms and keys as well as the Army's upgraded data network including use of Internet Protocol version 6 (IPv6), as mandated by the Army Chief Information Officer (CIO)/G6. ACNS provides the Army fully modernized equipment and provides assistance in the areas of system identification, training, integration, network optimization, and property book updates to gaining Units. ACNS is an essential project as many currently fielded legacy devices will fall out of compliance starting in FY 2015 due to NSA driven cease key dates. Failure to comply will result in vulnerabilities to classified data transmissions, or an inability to communicate at classified levels. (PD Net E)

The Defensive Cyberspace Operations (DCO) program provides initial capabilities to Cyber Protection Teams. Teams enable passive and active cyberspace defensive operations to preserve friendly cyberspace capabilities, and protect data, networks, net-centric capabilities, and other designated systems. DCO consists of four critical capabilities:

- DCO-Infrastructure (DCO-I): the hardware and software baseline for remote cyber maneuver based on Defense Advanced Research Projects Agency (DARPA) Plan X
- Cyber Protection Team (CPT) support: tools that reside inside DCO-I
- Web Vulnerability Scanning: the software baseline to secure key cyber terrain and protect DoD websites
- Big Data Analytics: analytics that leverage Defense Information System Agency (DISA) Acropolis analytics

DCO responds to unauthorized activity or alerts/threat information against the Army enterprise, and leverages intelligence, counterintelligence, law enforcement, and other military capabilities. It includes outmaneuvering adversaries taking or about to take offensive actions against defended networks, or otherwise responding to internal and external cyberspace threats. Internal defense measures include mission assurance actions to dynamically reestablish, re-secure, reroute, reconstitute, or isolate degraded or compromised local networks to ensure sufficient cyberspace access for commanders. The Army's DCO activities are a construct of active cyberspace defenses which provide synchronized, real-time capabilities to discover, detect, analyze, and mitigate threats and vulnerabilities to DoD networks and systems.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: TA0600 / 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	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	19.920	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	19.920	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: TA0600 / 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	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	TA0600 / Information System Security Program-ISSP	P-5a	A	1,400 / 1,566.797	- / -	- / 19.920	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			1,400 / 1,566.797	- / -	- / 19.920	- / -	- / -	- / -

*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:
 Starting FY2017, there are no funds allocated to ISSP TA0600 line. Defensive Cyber-related OPA funding is programmed in the Defensive Cyber Operations program, B63000.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: TA0600 / Information System Security Program-ISSP
		Item Number / Title [DODIC]: TA0600 / Information System Security Program-ISSP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	1,400	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,566.797	-	19.920	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,566.797	-	19.920	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,566.797	-	19.920	-	-	-

(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)	1,119.141	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
BIG DATA HARDWARE ^(†)	-	-	-	-	-	-	525.000	5	2.625	-	-	-	-	-	-	-	-	-
BIG DATA SOFTWARE ^(†)	-	-	-	-	-	-	175.000	5	0.875	-	-	-	-	-	-	-	-	-
DCO-I PROJECT MGMT	-	-	-	-	-	-	-	-	3.937	-	-	-	-	-	-	-	-	-
DCO-I HARDWARE ^(†)	-	-	-	-	-	-	415.000	3	1.245	-	-	-	-	-	-	-	-	-
DCO-I SOFTWARE ^(†)	-	-	-	-	-	-	149.000	3	0.447	-	-	-	-	-	-	-	-	-
CPT PROJECT MGMT	-	-	-	-	-	-	-	-	3.021	-	-	-	-	-	-	-	-	-
CPT SOFTWARE ^(†)	-	-	-	-	-	-	3,200.000	1	3.200	-	-	-	-	-	-	-	-	-
WEB SCANNING PROJECT MGMT	-	-	-	-	-	-	-	-	2.044	-	-	-	-	-	-	-	-	-
WEB SCANNING SOFTWARE ^(†)	-	-	-	-	-	-	2,526.000	1	2.526	-	-	-	-	-	-	-	-	-
IN-LINE NETWORK ENCRYPTORS (INE)	6.764	19,850	134.268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARMY-WIDE CRYPTO NETWORK STANDARDIZATIO	-	-	10.808	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NET	-	-	1.530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: TA0600 / Information System Security Program-ISSP	Item Number / Title [DODIC]: TA0600 / Information System Security Program-ISSP

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PROGRAM OFFICE	-	-	3.680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONTRACTOR ENGINEERING SUPPORT	-	-	0.213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRODUCT SUPPORT/FIELDING	-	-	20.383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRONIC FILL DEVICE	2.125	29,599	62.902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINK/TRUNK ENCRYPTORS	8.248	12,165	100.343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FIELDING	-	-	1,028.860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KEY MANAGEMENT (EKMS/KMI) Transition	-	-	45.375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IFF MODE 5	-	-	0.342	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETWORK SECURITY MANAGEMENT TOOLS	-	-	46.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SECURE WIRELESS	3.998	1,679	6.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BIOMETRICS (PM)	-	-	73.970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BIOMETRICS (BIMA)	219.830	100	21.983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINK/TRUNK INSTALLATION KITS	3.090	2,962	9.153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1,566.797	-	-	-	-	-	19.920	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	1,566.797	-	-	-	-	-	19.920	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	1,119.141	1,400	1,566.797	-	-	-	-	-	19.920	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	19.920	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	19.920	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: TA0600 / Information System Security Program-ISSP					Item Number / Title [DODIC]: TA0600 / Information System Security Program-ISSP				
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
BIG DATA HARDWARE		2016	CHESS / ACC-RI, IL	C / IDIQ	CHESS, ACC-RI, IL	Jan 2016	Feb 2016	5	525.000			
BIG DATA SOFTWARE		2016	CHESS / ACC-RI, IL	C / IDIQ	CHESS, ACC-RI, IL	Jan 2016	Feb 2016	5	175.000			
DCO-I HARDWARE		2016	CHESS / ACC-RI, IL	C / IDIQ	CHESS, ACC-RI, IL	Jan 2016	Feb 2016	3	415.000			
DCO-I SOFTWARE		2016	CHESS / ACC-RI, IL	C / IDIQ	CHESS, ACC-RI, IL	Jan 2016	Feb 2016	3	149.000			
CPT SOFTWARE		2016	CHESS / ACC-RI, IL	C / IDIQ	CHESS, ACC-RI, IL	Jan 2016	Feb 2016	1	3,200.000			
WEB SCANNING SOFTWARE		2016	CHESS / ACC-RI, IL	C / IDIQ	CHESS, ACC-RI, IL	Jan 2016	Feb 2016	1	2,526.000			

Remarks:

Defensive Cyberspace Operations (DCO) items procured are Commercial-Off-The-Shelf (COTS) products from the Computer Hardware Enterprise Software and Solutions (CHESS) contract. CHESS is the Army's designated primary source for commercial information technology (IT). CHESS provides a no-fee flexible procurement strategy through which an Army user may procure COTS IT hardware, software and services via an e-commerce based process. CHESS offers simple, straightforward contract vehicles through its online Army e-commerce ordering system, the IT e-mart. These contracts provide continuous vendor competition for best value and consolidation of requirements to maximize cost avoidance and leverage the Army's buying power.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B96000 / Communications Security (COMSEC)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,328	8,965	6,818	11,633	-	11,633	3,385	2,502	7,652	4,851	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	421.100	69.646	72.257	131.356	1.928	133.284	121.697	183.801	223.512	225.743	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	421.100	69.646	72.257	131.356	1.928	133.284	121.697	183.801	223.512	225.743	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	421.100	69.646	72.257	131.356	1.928	133.284	121.697	183.801	223.512	225.743	Continuing	Continuing

(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>)	317.093	7.769	10.598	11.292	-	11.457	35.952	73.462	29.210	46.535	Continuing	Continuing

Description:

The Communications Security (COMSEC) program consists of three sub-programs: Cryptographic Systems (CS), Army Key Management Infrastructure (AKMI), and Embedded Cryptographic Modernization Initiative (ECMI).

The Cryptographic Systems (CS) Program procures and fields Communications Security (COMSEC) solutions to secure the Army's tactical and enterprise classified networks. New and emerging architectures, cease key dates, emerging threats, and 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 and Joint Requirements Oversight Council directed cryptographic standardization, advanced key management and network centric performance capabilities. This program enables DoD to equip the force with critical cryptographic solutions and services during peacetime, wartime, and contingency operations. The program consists of four product families: In-Line Network Encryptors (INE), In-Line Media Encryptors (IME), Link/Trunk Encryption Family (LEF), and Secure Voice (SV).

The Army Key Management System (AKMI) Program is replacing the NSA Electronic Key Management System (EKMS) program. As the DoD Key Management Lead, NSA is dictating the change from EKMS to KMI by a sunset date of December 2017. KMI automates the functions of Communications Security (COMSEC) electronic key management, control, planning, and distribution. KMI provides an integrated, operational environment that brings essential key management functions in-band. KMI provides an Over the Network Keying (OTNK) solution to support emerging cryptographically modernized systems. KMI supports the Army's ability to communicate and distribute data on the Army's tactical and strategic networks by limiting adversarial access to, and reducing the vulnerability of, Army Command, Control, Communications, Computers, Intelligence (C4I) systems. Army Key Management Infrastructure (AKMI) is a Non Program of Record (POR) under Product Lead Network Enablers (PL Net E). The AKMI is the Army's implementation of the National Security Agency's (NSA) Key Management Infrastructure (KMI) ACAT IAM program. AKMI supports Department of Defense (DoD) Global Information Grid (GIG) Net Centric and Crypto Modernization Initiatives and supports emerging requirements transitioned from the Army Key Management System (AKMS). AKMI will continue to support non-modernized legacy equipment until it can be upgraded to operate seamlessly within the AKMI architecture. AKMI will allow the Army to manage, control, plan, and distribute electronic key for the ~1.5 million End Cryptographic Units (ECU) necessary to communicate and distribute data on the Army's tactical and strategic networks. AKMI initial Army Acquisition Program Baseline (APB) was approved 2QFY12. The AKMI System of Systems (SoS) will include the Management Client (MGC) Nodes, Automated Communications Engineering Software (ACES) and Next Generation Load Device (NGLD) Family. Each component of the AKMI SoS is in a different phase of the acquisition cycle. Some components of the AKMI SoS will be retained and adapted from the legacy AKMS SoS while others will be developed, procured and fielded to meet AKMI requirements.

The Embedded Cryptographic Modernization Initiative (ECMI) procures/retrofits and fields Communications Security (COMSEC) embedded within Army radios to ensure communications remain secure by operating with modern crypto keys. Tactical radios using embedded cryptographic systems will no longer be able to communicate securely after Crypto Keys expire due to Cease Key dates documented in the

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B96000 / Communications Security (COMSEC)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Chairman of the Joint Chiefs of Staff instruction (CJCSI) 6510. ECMI will provide Warfighters with continued secure communications (i.e., encrypted data and voice), by modernizing Army tactical radios allowing them to utilize cryptographic capabilities by implementing modern algorithms. Failure to comply will result in vulnerabilities to classified data transmissions, or an inability to communicate at classified levels.

The Approved Acquisition Objective (AAO) for AKMI is 855 Management Client Nodes (MGC) and 174,522 for AKMS (Fill Devices); Crypto Systems is 271,945 (Encryption Devices).

	Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	6,320	4,783	8,143	-	8,143	2,369	1,751	5,356	3,396
	Total Obligation Authority	59.015	64.727	115.385	1.928	117.313	115.444	177.616	207.280	212.719
ANG	Quantity	1,764	1,356	2,327	-	2,327	677	500	1,530	970
	Total Obligation Authority	7.093	5.223	10.668	-	10.668	4.185	4.122	10.820	8.688
AR	Quantity	881	679	1,163	-	1,163	339	251	766	485
	Total Obligation Authority	3.538	2.307	5.303	-	5.303	2.068	2.063	5.412	4.336
Total: Secondary Distribution	Quantity	8,965	6,818	11,633	-	11,633	3,385	2,502	7,652	4,851
	Total Obligation Authority	69.646	72.257	131.356	1.928	133.284	121.697	183.801	223.512	225.743

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics **P-1 Line Item Number / Title:**
B96000 / Communications Security (COMSEC)
Equipment / BSA 64: Information Security

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

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	285 / 4.334	1,748 / 18.151	877 / 16.206	5,198 / 64.764	- / 1.928	5,198 / 66.692
P-5	B96004 / KEY MANAGEMENT INFRASTRUCTURE	P-5a		200 / 3.377	7,217 / 41.113	5,941 / 45.678	6,435 / 63.578	- / -	6,435 / 66.692
P-5	B96006 / Embedded Cryptographic Modernization			- / -	- / -	- / -	- / 3.014	- / -	- / 3.014
P-5	BA1201 / TSEC - Army Key Mgt Sys (AKMS)			843 / 413.389	- / 10.382	- / 10.373	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			1,328 / 421.100	8,965 / 69.646	6,818 / 72.257	11,633 / 131.356	- / 1.928	11,633 / 133.284

*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 2017, PD COMSEC funding of \$133.284 million supports three sub-programs.

FY 2017 Base procurement funds in the amount of \$64.764 Million will be primarily utilized to procure modern In-Line Network Encryption (INE) and In-Line Media Encryption (IME) devices. \$8.178 Million of the \$64.764 Million FY2017 Base procurement dollars will be used to procure 1,900 viPer Variants at \$3.6K each as well as 4,500 KSV-21 cards at \$0.3k each. Currently there is a large installed base of Secure Terminal Equipment (STE) and Tactical STE devices that require KSV-21 cards for secure communication. KSV-21 Cards are a consumable item with a seven year useful life. 4,500 of these cards are coming up for replacement in FY2017.

FY2017 OCO Procurement dollars in the amount of \$1.928M for COMPO 6 to support Army Prepositioned Stock of 40 VIPER Public Switched Telephone Network devices (PSTN).

Army Key Management System (AKMS) (BA1201) realigned under Key Management Infrastructure (KMI) (B96004) in FY17.

FY 2017 base procurement dollars in the amount of \$63.578M supports the procurement, fielding, depot support and New Equipment Training (NET) for KMI MGCs, NGLD fill devices, J-TNT and ACES laptops. 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 key management products based on the evolution of the Key Management infrastructure. 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. 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 PPDSS contract for all key management products has been optimized and requirements continuously assessed to ensure that it is fiscally sound. Support for the AKMI SoS is critical until KMI is fully operational and fielded. The current SKL fleet will require support through at least 2025. Modernization of fill devices and emerging radio planning and configuration requirements are supported through the Army's KMI funding line (B96004).

FY 2017 \$3.014M dollars to Contract Prep Work to include RFP, PWS and contract award for FY20 ECMI Production

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)
		Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	285	1,748	877	5,198	-	5,198
Gross/Weapon System Cost (\$ in Millions)	4.334	18.151	16.206	64.764	1.928	66.692
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4.334	18.151	16.206	64.764	1.928	66.692
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4.334	18.151	16.206	64.764	1.928	66.692

(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)	15.207	10.384	18.479	12.459	-	12.830

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
SECURE VOICE ^(†)	8.600	50	0.430	-	-	-	3.206	180	0.577	4.304	1,900	8.178	-	-	1.928	5.319	1,900	10.106
IN-LINE NETWORK ENCRYPTORS (INE) ^(†)	1.719	235	0.404	4.315	1,748	7.543	6.367	597	3.801	11.148	2,723	30.355	-	-	-	11.148	2,723	30.355
IN-LINE MEDIA ENCRYPTORS (IME) ^(†)	-	-	-	-	-	-	10.700	100	1.070	13.628	575	7.836	-	-	-	13.628	575	7.836
<i>Subtotal: Recurring Cost</i>	-	-	0.834	-	-	7.543	-	-	5.448	-	-	46.370	-	-	1.928	-	-	48.298
<i>Subtotal: Hardware Cost</i>	-	-	0.834	-	-	7.543	-	-	5.448	-	-	46.370	-	-	1.928	-	-	48.298
Package Fielding Cost																		
Recurring Cost																		
ARMY-WIDE CRYPTO NETWORK STANDARDIZATION	-	-	0.894	-	-	2.109	-	-	1.891	-	-	2.286	-	-	-	-	-	2.286
PRODUCT SUPPORT/FIELDING	-	-	1.732	-	-	5.414	-	-	5.442	-	-	9.312	-	-	-	-	-	9.312
<i>Subtotal: Recurring Cost</i>	-	-	2.626	-	-	7.523	-	-	7.333	-	-	11.598	-	-	-	-	-	11.598
<i>Subtotal: Package Fielding Cost</i>	-	-	2.626	-	-	7.523	-	-	7.333	-	-	11.598	-	-	-	-	-	11.598
Support - Operational/Site Activation Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)		

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Contractor Technical Support	-	-	0.071	-	-	0.287	-	-	0.293	-	-	0.299	-	-	-	-	-	0.299
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	0.071	-	-	0.287	-	-	0.293	-	-	0.299	-	-	-	-	-	0.299
Support - Program Management Cost																		
Government Management	-	-	0.359	-	-	1.486	-	-	1.515	-	-	1.544	-	-	-	-	-	1.544
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.359	-	-	1.486	-	-	1.515	-	-	1.544	-	-	-	-	-	1.544
Support - Training Cost																		
Equipment	-	-	0.445	-	-	1.313	-	-	1.617	-	-	4.954	-	-	-	-	-	4.954
<i>Subtotal: Support - Training Cost</i>	-	-	0.445	-	-	1.313	-	-	1.617	-	-	4.954	-	-	-	-	-	4.954
Gross/Weapon System Cost	15.207	285	4.334	10.384	1,748	18.151	18.479	877	16.206	12.459	5,198	64.764	-	-	1.928	12.830	5,198	66.692

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,224	614	3,639	-	3,639
	Total Obligation Authority	13.325	14.164	54.099	1.928	56.027
ANG	Quantity	350	175	1,040	-	1,040
	Total Obligation Authority	3.223	1.360	7.131	-	7.131
AR	Quantity	174	88	519	-	519
	Total Obligation Authority	1.603	0.682	3.534	-	3.534
Total: Secondary Distribution	Quantity	1,748	877	5,198	-	5,198
	Total Obligation Authority	18.151	16.206	64.764	1.928	66.692

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)				Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SECURE VOICE		2014	NSA / FORT MEADE	C / IDIQ	NSA, FT MEADE, MD	Jan 2014	Jan 2015	50	5.087	Y		
SECURE VOICE		2017	NSA / FORT MEADE	C / IDIQ	NSA, FT MEADE, MD	Jan 2017	Jan 2018	1,900	5.319	Y		
IN-LINE NETWORK ENCRYPTORS (INE)		2014	NSA / FORT MEADE	C / IDIQ	NSA, FT MEADE, MD	Jan 2014	Jan 2015	235	1.719	Y		
IN-LINE NETWORK ENCRYPTORS (INE)		2015	NSA / FORT MEADE	C / IDIQ	NSA, FT MEADE, MD	Jan 2015	Jan 2016	1,748	4.315	Y		
IN-LINE NETWORK ENCRYPTORS (INE)		2016	NSA / FORT MEADE	C / IDDQ	NSA, FT MEADE, MD	Jan 2016	Jan 2017	597	6.367	Y		
IN-LINE NETWORK ENCRYPTORS (INE)		2017	NSA / FORT MEADE	C / IDIQ	NSA, FT MEADE, MD	Jan 2017	Jan 2018	2,723	11.148	Y		
IN-LINE MEDIA ENCRYPTORS (IME)		2016	NSA / FORT MEADE	C / IDIQ	NSA, FT MEADE, MD	Jan 2016	Jan 2017	100	10.700	Y		
IN-LINE MEDIA ENCRYPTORS (IME)		2017	NSA / FORT MEADE	C / IDIQ	NSA, FT MEADE, MD	Jan 2017	Jan 2018	575	13.628	Y		

Remarks:
The items procured are COTS or GOTS.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)
		Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	200	7,217	5,941	6,435	-	6,435
Gross/Weapon System Cost (\$ in Millions)	3.377	41.113	45.678	63.578	-	63.578
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3.377	41.113	45.678	63.578	-	63.578
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3.377	41.113	45.678	63.578	-	63.578

(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)	16.885	5.697	7.689	9.880	-	9.880

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
MGC Procurement ^(†)	16.885	200	3.377	18.166	145	2.634	18.147	34	0.617	-	-	-	-	-	-	-	-	-
ACES Procurement ^(†)	-	-	-	-	-	-	2.993	297	0.889	2.993	297	0.889	-	-	-	2.993	297	0.889
Fill Device Procurements	-	-	-	-	-	15.837	-	-	17.950	-	-	26.234	-	-	-	-	-	26.234
<i>Subtotal: Recurring Cost</i>	-	-	3.377	-	-	18.471	-	-	19.456	-	-	27.123	-	-	-	-	-	27.123
<i>Subtotal: Hardware Cost</i>	-	-	3.377	-	-	18.471	-	-	19.456	-	-	27.123	-	-	-	-	-	27.123
Software Cost																		
Recurring Cost																		
Post Deployment Software Support	-	-	-	-	-	6.515	-	-	10.391	-	-	10.724	-	-	-	-	-	10.724
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.515	-	-	10.391	-	-	10.724	-	-	-	-	-	10.724
<i>Subtotal: Software Cost</i>	-	-	-	-	-	6.515	-	-	10.391	-	-	10.724	-	-	-	-	-	10.724
Package Fielding Cost																		
Recurring Cost																		
Fielding/NET/Log Spt	-	-	-	-	-	6.966	-	-	4.529	-	-	7.308	-	-	-	-	-	7.308
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.966	-	-	4.529	-	-	7.308	-	-	-	-	-	7.308
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	6.966	-	-	4.529	-	-	7.308	-	-	-	-	-	7.308
Logistics Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
Depot Support	-	-	-	-	-	1.223	-	-	1.247	-	-	1.399	-	-	-	-	-	1.399
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.223	-	-	1.247	-	-	1.399	-	-	-	-	-	1.399
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	1.223	-	-	1.247	-	-	1.399	-	-	-	-	-	1.399
Support - Program Management Cost																		
Government Management	-	-	-	-	-	2.706	-	-	3.883	-	-	6.162	-	-	-	-	-	6.162
Contractor Management	-	-	-	-	-	2.886	-	-	3.608	-	-	7.238	-	-	-	-	-	7.238
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	5.592	-	-	7.491	-	-	13.400	-	-	-	-	-	13.400
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	2.346	-	-	2.565	-	-	3.625	-	-	-	-	-	3.625
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	2.346	-	-	2.565	-	-	3.625	-	-	-	-	-	3.625
Gross/Weapon System Cost	16.885	200	3.377	5.697	7,217	41.113	7.689	5,941	45.678	9.880	6,435	63.578	-	-	-	9.880	6,435	63.578

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	5,096	4,169	4,504	-	4,504
	Total Obligation Authority	35.308	40.191	58.273	-	58.273
ANG	Quantity	1,414	1,181	1,287	-	1,287
	Total Obligation Authority	3.870	3.863	3.536	-	3.536
AR	Quantity	707	591	644	-	644
	Total Obligation Authority	1.935	1.624	1.769	-	1.769
Total: Secondary Distribution	Quantity	7,217	5,941	6,435	-	6,435
	Total Obligation Authority	41.113	45.678	63.578	-	63.578

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)					Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MGC Procurement		2014	NSA / Ft. Meade MD	MIPR	Linthicum, MD	Mar 2014	Mar 2015	200	16.885	Y		
MGC Procurement		2015	NSA / Ft. Meade MD	MIPR	Linthicum, MD	Mar 2015	Mar 2016	145	18.166	Y		
MGC Procurement		2016	NSA / Ft. Meade MD	MIPR	Linthicum, MD	Mar 2016	Mar 2017	34	18.147	Y		
ACES Procurement		2016	TBD / TBD	C / TBD	Aberdeen PG Acquisition	Jan 2016	Jan 2017	297	2.993	Y		
ACES Procurement		2017	TBD / TBD	C / TBD	Aberdeen PG Acquisition	Jan 2017	Jan 2018	297	2.993	Y		

Remarks:
The items procured are COTS or GOTS.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: B96006 / Embedded Cryptographic Modernization

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	3.014	-	3.014
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	3.014	-	3.014
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	3.014	-	3.014

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	3.014	-	-	-	-	-	3.014
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.014	-	-	-	-	-	3.014
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	3.014	-	-	-	-	-	3.014

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	3.014	-	3.014
Total:					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	3.014	-	3.014

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: BA1201 / TSEC - Army Key Mgt Sys (AKMS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	843	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	413.389	10.382	10.373	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	413.389	10.382	10.373	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	413.389	10.382	10.373	-	-	-

(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)	490.378	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Simple Key Loader	2.500	10,739	26.847	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Deployment Software Support (SKL)	-	-	8.846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Deployment Software Support (ACES)	-	-	3.567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SKL Support	-	-	12.795	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACES/LCMS Workstation	-	-	35.920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depot Support	-	-	10.138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY08 Simple Key Loader Supplemental	1.687	41,289	69.654	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J-TNT	3.757	766	2.878	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PDSS/ Helpdesk Support	-	-	14.377	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	185.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	185.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	76.821	-	-	2.453	-	-	2.615	-	-	-	-	-	-	-	-	-
Contractor Management	-	-	78.759	-	-	2.516	-	-	2.566	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: BA1201 / TSEC - Army Key Mgt Sys (AKMS)

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	155.580	-	-	4.969	-	-	5.181	-	-	-	-	-	-	-	-	-
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	60.830	-	-	3.980	-	-	4.280	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	60.830	-	-	3.980	-	-	4.280	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Equipment	-	-	11.956	-	-	1.433	-	-	0.912	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	11.956	-	-	1.433	-	-	0.912	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	490.378	843	413.389	-	-	10.382	-	-	10.373	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	10.382	10.373	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	10.382	10.373	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B63000 / Defensive CYBER Operations
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605041A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	5	-	5	5	15	15	15	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	15.132	-	15.132	25.836	37.203	44.898	48.995	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	15.132	-	15.132	25.836	37.203	44.898	48.995	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	15.132	-	15.132	25.836	37.203	44.898	48.995	Continuing	Continuing

(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>)	-	-	-	3,026.400	-	3,026.400	5,167.200	2,480.200	2,993.200	3,266.333	Continuing	Continuing

Description:

This budget line is a continuation of CYBER efforts that started in the Information System Security Program, TA0600.

This budget line does not procure weapons systems or produce end items for weapons systems. All IT procurements consist of COTS solutions; all quantities and unit costs vary by system configuration and site.

The Army's Defensive Cyberspace Operations (DCO) activities are a construct of active cyberspace defenses which provide synchronized, real-time capability to discover, detect, analyze, and mitigate threats and vulnerabilities to DoD networks and systems. They provide initial capabilities that enable passive and active cyberspace defense operations to preserve friendly cyberspace capabilities and protect data, networks, net-centric capabilities, and other designated systems. DCO consists of the following critical capabilities:

- DCO-Infrastructure (DCO-I) Tactical and Enterprise (hardware and software baseline for remote cyber maneuver based on Defense Advanced Research Projects Agency (DARPA) Plan X)
- Cyber Protection Team (CPT) support (tools that reside inside DCO-I)
- Web Vulnerability Scanning (software baseline to secure key cyber terrain and protect DoD websites)
- Big Data Analytics (leverage Defense Information System Agency (DISA) Acropolis analytics)

Defensive Cyber teams design, build, and test advanced Cyber tools and infrastructure that enables active defense of the network from tactical Command Posts up through Post Camp and Station Home Station Mission Command. This capability will enable integration of the Cyber Mission Force with Regional and Local Cyber Network Defense elements. These tools will provide cutting edge hardware and software, integrated with existing infrastructure and tools to facilitate Active Defensive Cyber operations. DCO responds to unauthorized activity or alerts/threat information against the Army enterprise, and leverages intelligence, counterintelligence, law enforcement, and other military capabilities. It includes outmaneuvering adversaries taking or about to take offensive actions against defended networks, or otherwise responding to internal and external cyberspace threats. Internal defense measures include mission assurance actions to dynamically reestablish, re-secure, reroute, reconstitute, or isolate degraded or compromised local networks to ensure sufficient cyberspace access for commanders.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	5	-	5	5	15	15	15
Total Obligation Authority	-	-	15.132	-	15.132	25.836	37.203	44.898	48.995

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B63000 / Defensive CYBER Operations
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605041A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Total:	Quantity	-	-	5	-	5	5	15	15	15
Secondary Distribution	Total Obligation Authority	-	-	15.132	-	15.132	25.836	37.203	44.898	48.995

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B63000 / Defensive CYBER Operations
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605041A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B63103 / DEFENSIVE CYBER TOOLS	P-5a		- / -	- / -	- / -	5 / 15.132	- / -	5 / 15.132
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	5 / 15.132	- / -	5 / 15.132

*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 2017 DCO Enterprise Infrastructure Base procurement dollars in the amount of \$15.132 million supports the procurement of equipment, engineering, integration, configuration management, testing, training, accreditation, and fielding of defensive cyberspace infrastructure and capabilities as outlined in the US Army Training and Doctrine Command (TRADOC) Information Systems Capability Development Document (IS CDD) for DCO; US Army Cyber Command (ARCYBER) Operational Needs Statement (ONS) 14-19545 for DCO-I dated 6 Jan 14; ONS 14-20079 for CPT Support; ONS 14-19420 for Web Scanning dated 29 Oct 13; and ONS 14-19419 for Big Data Analytics dated 29 Oct 13.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations	Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	5	-	5
Gross/Weapon System Cost (\$ in Millions)	-	-	-	15.132	-	15.132
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	15.132	-	15.132
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	15.132	-	15.132

(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)	-	-	-	3,026.400	-	3,026.400

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
BIG DATA SOFTWARE ^(†)	-	-	-	-	-	-	-	-	-	304.000	5	1.520	-	-	-	304.000	5	1.520
DCO-I ENTERPRISE ENGINEERING	-	-	-	-	-	-	-	-	-	889.000	1	0.889	-	-	-	889.000	1	0.889
DCO-I ENTERPRISE HARDWARE ^(†)	-	-	-	-	-	-	-	-	-	1,608.800	5	8.044	-	-	-	1,608.800	5	8.044
CPT SOFTWARE ^(†)	-	-	-	-	-	-	-	-	-	775.800	5	3.879	-	-	-	775.800	5	3.879
WEB VULNERABILITY SOFTWARE ^(†)	-	-	-	-	-	-	-	-	-	160.000	5	0.800	-	-	-	160.000	5	0.800
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	15.132	-	-	-	-	-	15.132
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	15.132	-	-	-	-	-	15.132
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	3,026.400	5	15.132	-	-	-	3,026.400	5	15.132

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	5	-	5
	Total Obligation Authority	-	-	15.132	-	15.132
Total:	Quantity	-	-	5	-	5

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Exhibit P-5, Cost Analysis: PB 2017 Army			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations		Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	-	-	15.132	-	15.132

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations	Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS
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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
BIG DATA SOFTWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	304.000	N		
DCO-I ENTERPRISE HARDWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	1,608.800	N		
CPT SOFTWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	775.800			
WEB VULNERABILITY SOFTWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	160.000			

Remarks:
 Commercial-Off-The-Shelf (COTS) products will be procured from the Computer Hardware Enterprise Software and Solutions (CHESS) contract. CHESS is the Army's designated primary source for commercial information technology (IT). CHESS provides a no-fee flexible procurement strategy through which an Army user may procure COTS IT hardware, software and services via an e-commerce based process. CHESS offers simple, straightforward contract vehicles through its online Army e-commerce ordering system, the IT e-mart. These contracts provide continuous vendor competition for best value and consolidation of requirements to maximize cost avoidance and leverage the Army's buying power. Contracts will be worked through Army Contracting Command Rock Island (ACC-RI).

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications	P-1 Line Item Number / Title: BU4160 / Base Support Communications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	689.789	28.913	16.082	27.452	-	27.452	35.517	31.673	29.653	30.490	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	689.789	28.913	16.082	27.452	-	27.452	35.517	31.673	29.653	30.490	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	689.789	28.913	16.082	27.452	-	27.452	35.517	31.673	29.653	30.490	Continuing	Continuing

(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 funds Army-wide non-tactical installation Land Mobile Radio (LMR) systems and radios, and two years of Interim Contractor Support (ICS) for LMR system maintenance. LMR systems are commercial solutions that provide mobile and portable communications for garrison public safety, force protection, homeland security, and facilities maintenance operations. The primary users of LMR are emergency response personnel, including installation military police, fire departments, and medical personnel. These personnel use LMR to synchronize emergency response efforts and for critical communications support during dispatch, mobilization, deployment, and operations. Without adequate communications capabilities that readily enable coordination, 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 functions. LMR provides Army interoperability with state and local fire protection and law enforcement agencies critical to ensuring effective incident response via mutual aid agreements. The LMR Program modernization of installation radio systems enables compliance with the National Telecommunications and Information Administration (NTIA) mandated migration from wideband LMR systems. LMR systems are key components of the Army Enterprise used to provide a seamless communications network in support of base level communications and infrastructure.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	28.913	16.082	27.452	-	27.452	35.517	31.673	29.653	30.490
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	28.913	16.082	27.452	-	27.452	35.517	31.673	29.653	30.490

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications	P-1 Line Item Number / Title: BU4160 / Base Support Communications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		- / 689.789	- / 28.913	- / 16.082	- / 27.452	- / -	- / 27.452
P-40	Total Gross/Weapon System Cost			- / 689.789	- / 28.913	- / 16.082	- / 27.452	- / -	- / 27.452

*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 2017 Base funding in the amount of \$27.452 million procures and modernizes Garrison LMR systems for two installations and core infrastructure for the Conus Enterprise LMR system, one installation in Europe, US Army Garrison Japan, and 2 years of contractor support. Existing systems 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 Administration (NTIA) spectrum efficiency mandate. Power projection and power support Army installations across the continental US (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, and homeland security missions.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72	P-1 Line Item Number / Title: BU4160 / Base Support Communications	Item Number / Title [DODIC]: BU4160 / Base Support Communications

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	689.789	28.913	16.082	27.452	-	27.452
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	689.789	28.913	16.082	27.452	-	27.452
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	689.789	28.913	16.082	27.452	-	27.452

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(t)	318,227.000	2	636.454	6,275.000	4	25.100	5,478.000	2	10.956	4,227.000	5	21.135	-	-	-	4,227.000	5	21.135
Interim Contractor Support ^(t)	-	-	-	-	-	-	541.000	2	1.082	415.000	5	2.076	-	-	-	415.000	5	2.076
Engineering and Program Management ^(t)	53,335.000	1	53.335	3,813.000	1	3.813	4,044.000	1	4.044	4,242.000	1	4.242	-	-	-	4,242.000	1	4.242
<i>Subtotal: Non Recurring Cost</i>	-	-	689.789	-	-	28.913	-	-	16.082	-	-	27.452	-	-	-	-	-	27.452
<i>Subtotal: Hardware Cost</i>	-	-	689.789	-	-	28.913	-	-	16.082	-	-	27.452	-	-	-	-	-	27.452
Gross/Weapon System Cost	-	-	689.789	-	-	28.913	-	-	16.082	-	-	27.452	-	-	-	-	-	27.452

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	28.913	16.082	27.452	-	27.452
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	28.913	16.082	27.452	-	27.452

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72	P-1 Line Item Number / Title: BU4160 / Base Support Communications	Item Number / Title [DODIC]: BU4160 / Base Support Communications
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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
Commercial LMR Systems		2015	Harris Corp / Melbourne, FL	C / FFP	ACC RI, Rock Island, IL	Jun 2015	Jul 2015	4	6,275.000	Y		Jan 2015
Commercial LMR Systems		2016	ISEC / Ft. Detrick, MD	C / FFP	ACC RI, Rock Island, IL	Jun 2016	Jul 2016	2	5,478.000	N		
Commercial LMR Systems		2017	ISEC / Ft. Detrick, MD	C / FFP	ACC RI, Rock Island, IL	Jun 2017	Jul 2017	5	4,227.000	N		
Interim Contractor Support		2015	Harris Corp / Melbourne, FL	C / FFP	ACC RI, Rock Island, IL	Jun 2015	Jul 2015	-	-	Y		Jan 2015
Interim Contractor Support		2016	ISEC / Ft. Detrick, MD	C / FFP	ACC RI, Rock Island, IL	Jun 2016	Jul 2016	2	541.000	Y		
Interim Contractor Support		2017	ISEC / Ft. Detrick, MD	C / FFP	ACC RI, Rock Island, IL	Jun 2017	Jul 2017	5	415.000	Y		
Engineering and Program Management		2015	ISEC, Ft. Detrick, MD / .	C / FFP	ISEC, Fort Detrick, MD	Nov 2014	Nov 2014	1	3,813.000	Y		
Engineering and Program Management		2016	ISEC, Ft. Detrick, MD / .	C / FFP	ISEC, Fort Detrick, MD	Nov 2015	Nov 2015	1	4,044.000	Y		
Engineering and Program Management		2017	ISEC / Ft. Detrick, MD	C / FFP	TBD	Nov 2016	Nov 2016	1	4,242.000	N		

Remarks:
All IT procurements consist of Cost Commercial Off-The-Shelf (COTS) solutions; all quantities and unit costs vary by project, system configuration, and site. PEO EIS - Program Executive Office Enterprise Information Systems; PM DCATS - Project Manager, Defense Communications and Army Transmission Systems; PL LMR - Product Lead, Land Mobile Radios; ACC RI - Army Contracting Command Rock Island; ISEC - Information Systems Engineering Command.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BB8650 / Information Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,010.346	88.098	73.037	122.055	-	122.055	142.137	65.134	48.576	27.693	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,010.346	88.098	73.037	122.055	-	122.055	142.137	65.134	48.576	27.693	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,010.346	88.098	73.037	122.055	-	122.055	142.137	65.134	48.576	27.693	Continuing	Continuing

(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 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.

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 cost vary by project, system configuration, and site.

This program provides engineering, quality assurance, and Information Systems 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 Information Systems infrastructure, as well as physical plant infrastructure that directly support those Information Systems 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 Information Systems 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:

This program funds organization-specific command and control Information Systems 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. This program consolidates individual organizational requirements to provide a deliberate planned programmatic approach to procure mission essential Information Systems equipment.

INFORMATION SYSTEMS (MCA SUPPORT):

This program provides for the worldwide Information Systems infrastructure (common user voice, data, video networks) for the MCA Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, LandWarNet 2020 and Beyond, Unified Capabilities, common user, and physical plant infrastructure to support Information Systems 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.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BB8650 / 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	Item MDAP/MAIS Code(s): N/A	

INFORMATION SYSTEMS (CONUS/WESTERN HEM):

This program provides for the worldwide Information Systems infrastructure (common user voice, data, video networks) for the SRM Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, LandWarNet 2020 and Beyond, Unified Capabilities, common user, and physical plant infrastructure to support Information Systems 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.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	88.098	73.037	122.055	-	122.055	142.137	65.134	48.576	27.693
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	88.098	73.037	122.055	-	122.055	142.137	65.134	48.576	27.693

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
BB8650 / 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 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		- / -	- / 47.600	- / 43.034	- / 92.064	- / -	- / 92.064
P-5	BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)	P-5a		- / -	- / 40.498	- / 26.341	- / 20.493	- / -	- / 20.493
P-5	BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)	P-5a		- / 1,010.346	- / -	- / 3.662	- / 9.498	- / -	- / 9.498
P-40	Total Gross/Weapon System Cost			- / 1,010.346	- / 88.098	- / 73.037	- / 122.055	- / -	- / 122.055

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

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

Justification:

The FY 2017 funding request was reduced by \$13.800 million to account for the availability of prior year execution balances.

PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION:

FY 2017 Base procurement dollars in the amount of \$92.064 million support the procurement of commercial-off-the-shelf (COTS) information systems and IT infrastructure to support command and control, critical mission unique equipment, and end user IT equipment in newly built MCA or renovated SRM facilities. Proponent/Mission IT consolidates individual organizational requirements to provide a deliberate, planned, programmatic approach to procure network transport infrastructure, end-user instruments (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/end user equipment is dependent upon construction timelines, 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. The majority of FY17 funds support Cyber/Network Operations and Security Centers at the Army Cyber (ARCYBER) Command/Joint Forces Headquarters-Cyber (JFHQ-C), Ft. Gordon.

INFORMATION SYSTEMS (MCA SUPPORT):

FY 2017 Base procurement dollars in the amount of \$20.493 million supports the procurement of commercial-off-the-shelf (COTS) Information Systems which support 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 Information Systems requirements associated with MCA projects. Funding is required to ensure that these projects have all necessary Information Systems infrastructure and equipment for soldier readiness of the facilities.

INFORMATION SYSTEMS (CONUS/WESTERN HEM):

FY 2017 Base procurement dollars in the amount of \$9.498 million supports the procurement of commercial-off-the-shelf information (COTS) systems which support 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 Information Systems requirements associated with SRM projects. Funding is required to ensure that these projects have all necessary Information Systems infrastructure and equipment for soldier readiness of the facilities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BB8650 / Information Systems	Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	47.600	43.034	92.064	-	92.064
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	47.600	43.034	92.064	-	92.064
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	47.600	43.034	92.064	-	92.064

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	-	-	-	47,600.000	1	47.600	43,034.000	1	43.034	92,064.000	1	92.064	-	-	-	92,064.000	1	92.064
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	47.600	-	-	43.034	-	-	92.064	-	-	-	-	-	92.064
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	47.600	-	-	43.034	-	-	92.064	-	-	-	-	-	92.064
Gross/Weapon System Cost	-	-	-	-	-	47.600	-	-	43.034	-	-	92.064	-	-	-	-	-	92.064

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	47.600	43.034	92.064	-	92.064
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	47.600	43.034	92.064	-	92.064

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: BB8650 / Information Systems				Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Proponent/Mission IT Hardware		2015	IMOD/LTLCS/R2 / Ft. Belvoir	C / FFP	ACC-RI, Rock Island, IL	Aug 2015	Dec 2015	1	47,600.000	Y		Apr 2015
Proponent/Mission IT Hardware		2016	IMOD/LTLCS/R2 / Ft. Belvoir	C / FFP	ACC-RI, Rock Island, IL	Aug 2016	Dec 2016	1	43,034.000	Y		Apr 2016
Proponent/Mission IT Hardware		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2017	Dec 2017	1	92,064.000	N		Apr 2017

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. IMOD/LTLCS/R2 - Infrastructure Modernization/Long Term Life Cycle/R2.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BB8650 / Information Systems	Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	40.498	26.341	20.493	-	20.493
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	40.498	26.341	20.493	-	20.493
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	40.498	26.341	20.493	-	20.493

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	-	-	-	4,545.000	5	22.725	4,545.000	3	13.635	4,545.000	2	9.090	-	-	-	4,545.000	2	9.090
MCA Spt - Switch Upgrades ^(†)	-	-	-	130.000	17	2.210	130.000	12	1.560	130.000	12	1.560	-	-	-	130.000	12	1.560
MCA Spt - Telephone System ^(†)	-	-	-	75.000	17	1.275	75.000	12	0.900	75.000	12	0.900	-	-	-	75.000	12	0.900
MCA Spt - LAN Transport System ^(†)	-	-	-	275.000	17	4.675	275.000	12	3.300	275.000	12	3.300	-	-	-	275.000	12	3.300
MCA Spt - Range Connectivity ^(†)	-	-	-	750.000	5	3.750	750.000	3	2.250	750.000	2	1.500	-	-	-	750.000	2	1.500
MCA Spt - Secure Data/Encryption Devices ^(†)	-	-	-	500.000	5	2.500	500.000	3	1.500	500.000	2	1.000	-	-	-	500.000	2	1.000
MCA Spt - Engineering Svcs ^(†)	-	-	-	3,363.000	1	3.363	2,396.000	1	2.396	2,343.000	1	2.343	-	-	-	2,343.000	1	2.343
Phys Plant Infrastructure Spt IS Assets ^(†)	-	-	-	-	-	-	800.000	1	0.800	800.000	1	0.800	-	-	-	800.000	1	0.800
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	<i>40.498</i>	-	-	<i>26.341</i>	-	-	<i>20.493</i>	-	-	-	-	-	<i>20.493</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	40.498	-	-	26.341	-	-	20.493	-	-	-	-	-	20.493

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BB8650 / Information Systems	Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	40.498	-	-	26.341	-	-	20.493	-	-	-	-	-	20.493

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	40.498	26.341	20.493	-	20.493
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	40.498	26.341	20.493	-	20.493

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: BB8650 / Information Systems				Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MCA Spt - Telephone Switch		2015	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Jan 2015	Jul 2015	5	4,545.000	Y		
MCA Spt - Telephone Switch		2016	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	Jul 2016	3	4,545.000	N		
MCA Spt - Telephone Switch		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Jan 2017	Jul 2017	2	4,545.000	N		
MCA Spt - Switch Upgrades		2015	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2015	May 2015	17	130.000	Y		
MCA Spt - Switch Upgrades		2016	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	May 2016	12	130.000	N		
MCA Spt - Switch Upgrades		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Feb 2017	May 2017	12	130.000	N		
MCA Spt - Telephone System		2015	Various / Installations	C / FFP	CHESS, Ft. Belvoir, VA	Feb 2015	Jul 2015	17	75.000	Y		
MCA Spt - Telephone System		2016	Various / Installations	C / FFP	CHESS, Ft. Belvoir, VA	Feb 2016	Jul 2016	12	75.000	N		
MCA Spt - Telephone System		2017	Various / Installations	C / FFP	CHESS, Ft. Belvoir, VA	Feb 2017	Jul 2017	12	75.000	N		
MCA Spt - LAN Transport System		2015	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2015	May 2015	17	275.000	Y		
MCA Spt - LAN Transport System		2016	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	May 2016	12	275.000	N		
MCA Spt - LAN Transport System		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Feb 2017	May 2017	12	275.000	N		
MCA Spt - Range Connectivity		2015	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2015	Sep 2015	5	750.000	Y		
MCA Spt - Range Connectivity		2016	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	Sep 2016	3	750.000	N		
MCA Spt - Range Connectivity		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Feb 2017	Sep 2017	2	750.000	N		
MCA Spt - Secure Data/Encryption Devices		2015	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2015	Sep 2015	5	500.000	Y		
MCA Spt - Secure Data/Encryption Devices		2016	IMOD/LTLCS/R2 / Ft. Belvoir, VA	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	Sep 2016	3	500.000	N		
MCA Spt - Secure Data/Encryption Devices		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Feb 2017	Sep 2017	2	500.000	N		
MCA Spt - Engineering Svcs		2015	TEIS / Ft. Detrick, MD	C / FFP	ACC-HUA, Ft. Huachuca, AZ	Aug 2015	Sep 2015	1	3,363.000	Y		
MCA Spt - Engineering Svcs		2016	TEIS / Ft. Detrick, MD	C / FFP	ACC-HUA, Ft. Huachuca, AZ	Aug 2016	Sep 2016	1	2,396.000	N		
MCA Spt - Engineering Svcs		2017	TEIS / Ft. Detrick, MD	C / FFP	ACC-HUA, Ft. Huachuca, AZ	Aug 2017	Sep 2017	1	2,343.000	N		
Phys Plant Infrastructure Spt IS Assets		2016	Various / Installations	C / FFP	ACC-RI, Rock Island, IL	Apr 2016	Aug 2016	1	800.000	N		
Phys Plant Infrastructure Spt IS Assets		2017	Various / Installations	C / FFP	ACC-RI, Rock Island, IL	Apr 2017	Aug 2017	1	800.000	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; CHESS - Computer Hardware Enterprise Software and Solutions; IMOD/LTLCS/R2 - Infrastructure Modernization/Long Term Life Cycle/R2; TEIS - Total Engineering and Integration Services; ACC-HUA - Army Contracting Command-Fort Huachuca.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BB8650 / Information Systems	Item Number / Title [DODIC]: BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,010.346	-	3.662	9.498	-	9.498
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,010.346	-	3.662	9.498	-	9.498
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,010.346	-	3.662	9.498	-	9.498

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(t)	1,010,346.000	1	1,010.346	-	-	-	3,662.000	1	3.662	9,498.000	1	9.498	-	-	-	9,498.000	1	9.498
Subtotal: Non Recurring Cost	-	-	1,010.346	-	-	-	-	-	3.662	-	-	9.498	-	-	-	-	-	9.498
Subtotal: Hardware Cost	-	-	1,010.346	-	-	-	-	-	3.662	-	-	9.498	-	-	-	-	-	9.498
Gross/Weapon System Cost	-	-	1,010.346	-	-	-	-	-	3.662	-	-	9.498	-	-	-	-	-	9.498

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	3.662	9.498	-	9.498
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	-	3.662	9.498	-	9.498

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: BB8650 / Information Systems				Item Number / Title [DODIC]: BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Sustain/Restore/Modernize (SRM) HW		2016	Various / Various	C / FFP	CHESS, Ft Belvoir, VA	Apr 2016	Sep 2016	1	3,662.000	Y		
Sustain/Restore/Modernize (SRM) HW		2017	TBS / TBS	C / FFP	CHESS, Ft Belvoir, VA	Apr 2017	Sep 2017	1	9,498.000	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.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BU8000 / Emergency Management Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	1	1	1	1	-	4
Gross/Weapon System Cost (<i>\$ in Millions</i>)	144.531	5.362	8.550	4.286	-	4.286	4.490	4.795	4.914	4.966	-	181.894
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	144.531	5.362	8.550	4.286	-	4.286	4.490	4.795	4.914	4.966	-	181.894
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	144.531	5.362	8.550	4.286	-	4.286	4.490	4.795	4.914	4.966	-	181.894

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	4,286.000	-	4,286.000	4,490.000	4,795.000	4,914.000	4,966.000	-	45,473.500

Description:

The Emergency Management Modernization Program (EM2P) is 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 provides capabilities that increase situational awareness, decrease responder time, and allow for quicker warning and notification of personnel during the management of an active incident. EM2P consists of Mass Warning and Notification (MWN) technologies (fielded FY12-16), Enhanced 911 (E911) solutions (fielded FY12-16), and Computer Aided Dispatch (CAD) capability (fielding FY18). CAD serves as the central hub for dispatching law enforcement, fire, and medical services on an installation and is integrated with Automated Installation Entry (AIE), Mass Warning and Notification (MWN), and law enforcement (LE) authoritative data sources as well as with local civilian CAD and civilian LE authoritative data sources. The EM2P provides capabilities that will save lives by enabling Commanders to quickly and effectively respond to any installation emergency events, to include insider threats, terrorist activity and natural disasters.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	1	1	1	1
	Total Obligation Authority	5.362	8.550	4.286	-	4.286	4.795	4.914	4.966
Total: Secondary Distribution	Quantity	-	-	-	-	1	1	1	1
	Total Obligation Authority	5.362	8.550	4.286	-	4.286	4.490	4.795	4.914

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BU8000 / Emergency Management Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	P-5a		- / 144.531	- / 5.362	- / 8.550	- / 4.286	- / -	- / 4.286
P-40	Total Gross/Weapon System Cost			- / 144.531	- / 5.362	- / 8.550	- / 4.286	- / -	- / 4.286

*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 2017 Base procurement funding in the amount of \$4.286 million will continue to fund the development and completion of the Computer Aided Dispatch solution pilot. The pilot will determine the CAD Fielding Plan commencing in FY18.

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 Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU8000 / Emergency Management Modernization Program	Item Number / Title [DODIC]: BU8000 / Emergency Management Modernization Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	144.531	5.362	8.550	4.286	-	4.286
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	144.531	5.362	8.550	4.286	-	4.286
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	144.531	5.362	8.550	4.286	-	4.286

(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)	-	-	-	4,286.000	-	4,286.000

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	11.847	-	-	0.776	-	-	1.344	-	-	1.695	-	-	-	-	-	1.695
SETA Contract Support	-	-	24.741	-	-	0.764	-	-	1.949	-	-	2.186	-	-	-	-	-	2.186
Prime Contract (COTS purchase) ^(†)	-	-	85.968	3,390.000	1	3.390	4,818.000	1	4.818	405.000	1	0.405	-	-	-	405.000	1	0.405
Enterprise Level Hosting	-	-	1.587	-	-	0.432	-	-	0.439	-	-	-	-	-	-	-	-	-
Technical Data Integration	-	-	20.388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>144.531</i>	-	-	<i>5.362</i>	-	-	<i>8.550</i>	-	-	<i>4.286</i>	-	-	-	-	-	<i>4.286</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>144.531</i>	-	-	<i>5.362</i>	-	-	<i>8.550</i>	-	-	<i>4.286</i>	-	-	-	-	-	<i>4.286</i>
Gross/Weapon System Cost	-	-	144.531	-	-	5.362	-	-	8.550	4,286.000	-	4.286	-	-	-	4,286.000	-	4.286

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	5.362	8.550	4.286	-	4.286
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU8000 / Emergency Management Modernization Program	Item Number / Title [DODIC]: BU8000 / Emergency Management Modernization Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	5.362	8.550	4.286	-	4.286

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: BU8000 / Emergency Management Modernization Program				Item Number / Title [DODIC]: BU8000 / Emergency Management 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Prime Contract (COTS purchase)		2015	TBD / TBD	C / FFP	TBD	Mar 2016	Jul 2016	1	3,390.000	Y		
Prime Contract (COTS purchase)		2016	TBD / TBD	C / FFP	TBD	Mar 2016	Jul 2016	1	4,818.000			
Prime Contract (COTS purchase)		2017	TBD / TBD	C / FFP	TBD	Mar 2017	Jul 2017	1	405.000			

Remarks:
EM2P procurements are purchasing COTS items.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BU0500 / Installation Info Infrastructure Mod Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,518.564	151.265	102.996	134.794	20.510	155.304	178.640	242.751	235.232	224.679	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,518.564	151.265	102.996	134.794	20.510	155.304	178.640	242.751	235.232	224.679	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,518.564	151.265	102.996	134.794	20.510	155.304	178.640	242.751	235.232	224.679	Continuing	Continuing

(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 for weapon systems. All IT procurements consist of COTS solutions; all quantities and unit costs vary by system configuration and site.

BU0530:

The Installation Information Infrastructure Modernization Program (I3MP) modernizes and refreshes the classified and unclassified Networks on Army posts/camps/stations across the globe. Installation-level network infrastructure is comprised of the electronics, wiring, and security equipment required to provide voice, video, and data communications to traditional business users and Warfighters. Specific systems the program fields include classified and unclassified switching components of the installation network, network paths (outside plant - wires connecting all users and switching systems to one another), and power and HVAC needed to support operating the upgraded network equipment once installed. I3MP is at the very foundation of the Army and DoD Enterprise information technology modernization strategy to evolve a single converged data, voice, and video network; this strategy is referred to as Everything over Internet Protocol (EoIP). The converged network enables Unified Capabilities (UC) and the Joint Information Environment (JIE), and eliminates the need and costs to manage/maintain three separate networks on installations. I3MP engineers, designs, and fields standardized, converged, UC-ready, secure Installation Campus Area Network (ICAN) infrastructure using Commercial-off-the-Shelf (COTS) solutions. This infrastructure gives tactical and strategic end-users connectivity across the installation and the wide-area DOD Information Network (DODIN). The network I3MP modernizes enables soldiers to maintain their warfighting systems and their proficiency on the systems by running across the installation network while they are not deployed instead of relying on costly satellite usage time. I3MP further enables valuable training as it provides the critical high speed and high bandwidth connectivity required for facilities and organizations to conduct Live, Virtual, and Constructive exercises and operations. In Korea, I3MP continues to support IT engineering for the Yongsan Relocation Plan/Land Partnership Plan to reduce the U.S. forces footprint and consolidate operations at Camp Humphries. It also resurces the communications network backbone infrastructure for Joint communications on the Korean peninsula with phased replacement of the obsolete Asynchronous Transfer Mode (ATM)/Synchronous Optical Networking (SONET) infrastructure (62 ATM nodes circa 1997/28 SONET nodes circa 1999), that provide data, voice, and video communications.

BU0510:

OPERATION ATLANTIC RESOLVE (OAR) NETWORK: Overseas Contingency Operations (OCO) within the I3MP line specifically support the The Operation Atlantic Resolve (OAR) network provides coalition mission support, Command and Control (C2), Intelligence, and collaboration capabilities to the US and Allied Partner Nations participating in OAR activities. It supports the European Reassurance Initiative and will enable local and distributed training across the EUCOM AOR. The network serves as the central operational synchronization platform to enable coalition multi-national training and execution at the tactical and operational level spanning Central Region to the Baltics.

BU3610:

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BU0500 / Installation Info Infrastructure Mod Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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The World Wide Technical Control Improvement Program (WWTCIP) is a continuing program to initiate, improve, expand and automate the Army's Technical Control Facilities (TCF). The program provides power (alternating current and direct current (AC/DC), uninterruptible power supply (UPS) and backup generator), timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interface, and appropriate test equipment with associated hardware. The upgrades provide the end user with greater bandwidth for real time response, high quality voice, data, video, and minimizes outages. The program is essential to support Outside the Continental United States (OCONUS) Theater Combatant Commander's communications as well as the Continental United States (CONUS) power projection bases and Defense Satellite Communications Systems. The emerging requirements of new base consolidation in both the Pacific and European Theaters will require robust TCF capability. Provides initial configuration management and implements Information Assurance (IA) controls for TCFs.

U.S. EMBASSY KABUL COMMUNICATIONS: Divests command, control, communications, and computers (C4) and satellite communications from United States Forces-Afghanistan (USFOR-A)/DoD sites into the U.S. Embassy Complex in Kabul. Transition supports equipment required to reduce signal latency and reduce long-haul line usage, improving overall IT data and security services for the Coalition Joint Task Force-Operation Inherent Resolve(CJTF-OIR) area of operations. This will improve the CJTF leadership's ability to mission command CJTF-OIR operational assets in their AO.

COALITION PARTNER NETWORK (CPN-X), KUWAIT: Ensures Coalition Network Infrastructure is survivable and efficient at their Points of Presence (POP) in Camp Arifjan, Kuwait. The current infrastructures for these networks were created with recycled Government Furnished Equipment (GFE), in order to create an initial POP for each network for the CJTF-OIR operational requirements; however, the initial set up did not include a redundancy and maintenance (technical refresh) plan. The POP for the CPN-X POP is at Camp Arifjan, Kuwait. The Network/ Server infrastructure should support approximately 1000 users on CPN-X network.

BU2000:

The Terrestrial Transmission (TT) program is a component of the Army's seamless Enterprise Network that provides long-haul communications compatibility across operational systems supporting the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The goal architecture will be able to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. The objective is an integrated, survivable network that provides voice, data messaging, video and transmission services to the Warfighter. It will also continue the upgrade of power, and 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 Special Access Programs (SAPs) and Army Sensitive Activities (SAs).

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	151.265	102.996	134.794	20.510	155.304	178.640	242.751	235.232	224.679
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	151.265	102.996	134.794	20.510	155.304	178.640	242.751	235.232	224.679

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BU0500 / Installation Info Infrastructure Mod Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BU0510 / I3MP - Europe	P-5a		- / 850.885	- / 18.500	- / -	- / -	- / 4.500	- / 4.500
P-5	BU0530 / I3MP - CONUS	P-5a		- / 1,654.104	- / 124.410	- / 98.723	- / 130.316	- / -	- / 130.316
P-5	BU2000 / TERRESTRIAL TRANSMISSION	P-5a		- / 73.825	- / -	- / 1.298	- / 1.557	- / -	- / 1.557
P-5	BU3610 / WW Tech Con Imp Prog (WWTCIP)	P-5a		- / 939.750	- / 8.355	- / 2.975	- / 2.921	- / 16.010	- / 18.931
P-40	Total Gross/Weapon System Cost			- / 3,518.564	- / 151.265	- / 102.996	- / 134.794	- / 20.510	- / 155.304

*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:

BU0530:
FY 2017 Base procurement dollars in the amount of \$130.316 million supports CONUS/OCONUS engineering and modernizing the complete networks on Army installations in CONUS and two areas in Europe. This will result in a single voice, video, and data network at these locations vice the three networks currently running simultaneously on them. In addition to the full implementations of I3MP, the program is taking advantage of the purchasing power of buying in bulk by conducting large commodity purchases of high speed Information Campus Area Network (ICAN) level switching devices. With over 20 installations already upgraded with these high power and capacity switches, intent is to field these at ten to twelve additional installations in FY17. Converging separate voice, video, and data networks and running over high capacity electronics support delivering the DoD mandated Unified Capabilities (UC) and ultimately reduce operation and management costs for the enterprise.

BU0510:
FY 2017 OCO procurement dollars in the amount of \$4.500 million procures EUCOM OAR Network core services (Email, chat, Voice over Internet Protocol (VoIP), Web services, global address lists, and video teleconferencing), information assurance hardware/software, end user equipment, and installation services. The FY17 OCO funding also procures support to the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives.

BU3610:
FY 2017 Base procurement dollars in the amount of \$2.921 million procures the technical engineering service support that facilitates design reviews for the full technical upgrades of TCFs.

FY 2017 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$13.010 million funds the transition of Department of Defense (DoD) command, control, communications, and computers (C2/C4) and Satellite Communications during Operation Freedom Sentinel (OFS) Phase III from divested United States Forces-Afghanistan (USFOR-A)/DoD sites into the U.S. Embassy Complex in Kabul. FY17 OCO procurement dollars also funds procurement and install of specialized, theater-specific equipment for the Mission Command Node-Technical Control Facilities (MCN-TCF) at Camp Arifjan, Kuwait.

FY 2017 OCO procurement dollars in the amount of \$3.000 million supports the Coalition Partner Network, Kuwait, infrastructure for approximately 1000 users on CPN-X network. Equipment includes routers, switches, servers, storage, TACLANES, and other security devices.

BU2000:
FY 2017 Base procurement dollars in the amount of \$1.557 million procures minimal 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).

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BU0500 / 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	Item MDAP/MAIS Code(s): N/A	
<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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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0510 / I3MP - Europe

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	850.885	18.500	-	-	4.500	4.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	850.885	18.500	-	-	4.500	4.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	850.885	18.500	-	-	4.500	4.500

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	4,500.000	1	4.500	4,500.000	1	4.500
Shelterized Tech Comm Facilities ^(†)	-	-	-	11,500.000	1	11.500	-	-	-	-	-	-	-	-	-	-	-	-
I3MP SWA	850,885.000	1	850.885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Protocol Packet Label Switching SW Asia ^(†)	-	-	-	7,000.000	1	7.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	850.885	-	-	18.500	-	-	-	-	-	-	-	-	4.500	-	-	4.500
<i>Subtotal: Hardware Cost</i>	-	-	850.885	-	-	18.500	-	-	-	-	-	-	-	-	4.500	-	-	4.500
Gross/Weapon System Cost	-	-	850.885	-	-	18.500	-	-	-	-	-	-	-	-	4.500	-	-	4.500

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	18.500	-	-	4.500	4.500
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	18.500	-	-	4.500	4.500

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0510 / I3MP - Europe
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0510 / I3MP - Europe
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ERI Operation Atlantic Resolve (OAR) Network	✓	2017	TBD / TBD	C / IDIQ	ACC-RI, Rock Island, IL	Feb 2017	Mar 2017	1	4,500.000	N		
Shelterized Tech Comm Facilities		2015	TBD / TBD	C / IDIQ	ACC-RI, Rock Island, IL	Jun 2016	Jul 2016	1	11,500.000	Y		
Multi-Protocol Packet Label Switching SW Asia		2015	TBD / TBD	C / IDIQ	ACC-RI, Rock Island, IL	Jun 2016	Jul 2016	1	7,000.000	Y		

Remarks:
Contracts will be worked through Army Contracting Command Rock Island (ACC-RI). Commercial-Off-The-Shelf (COTS) products will be procured via 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.

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,654.104	124.410	98.723	130.316	-	130.316
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,654.104	124.410	98.723	130.316	-	130.316
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,654.104	124.410	98.723	130.316	-	130.316

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
NETMOD-C Switches ^(†)	-	-	23,693.000	1	23.693	7,596.000	1	7.596	30,000.000	1	30.000	-	-	-	30,000.000	1	30.000	-
YRP/LPP Increment 2C ^(†)	-	-	-	-	-	15,300.000	1	15.300	-	-	-	-	-	-	-	-	-	-
TCF In A Box ^(†)	-	-	-	-	-	7,000.000	1	7.000	-	-	-	-	-	-	-	-	-	-
IT Modernization (Hardware) ^(†)	-	-	196.135	26,649.000	1	26.649	8,800.000	1	8.800	50,000.000	1	50.000	-	-	-	50,000.000	1	50.000
Implementation/ Engineering ^(†)	-	-	1,457.969	46,168.000	1	46.168	7,527.000	1	7.527	20,316.000	1	20.316	-	-	-	20,316.000	1	20.316
Subtotal: Recurring Cost	-	-	1,654.104	-	-	96.510	-	-	46.223	-	-	100.316	-	-	-	-	-	100.316
Non Recurring Cost																		
OFS Camp Buehring ^(†)	-	-	-	-	-	5,000.000	1	5.000	-	-	-	-	-	-	-	-	-	-
OFS Diverse Pt of Presence Camp Arifjan ^(†)	-	-	-	-	-	4,500.000	1	4.500	-	-	-	-	-	-	-	-	-	-
OFS COOP/DR OCP ARCENT-Forward ^(†)	-	-	-	-	-	3,500.000	1	3.500	-	-	-	-	-	-	-	-	-	-
OFS OSP Enduring Sites ^(†)	-	-	-	-	-	6,000.000	1	6.000	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73		P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
OFS Comm Infra Enduring Sites ^(†)	-	-	-	-	-	-	4,000.000	1	4.000	-	-	-	-	-	-	-	-	-
OFS IPN/SPPN ^(†)	-	-	-	-	-	-	6,500.000	1	6.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	29.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	1,654.104	-	-	96.510	-	-	75.723	-	-	100.316	-	-	-	-	-	100.316
Support - Program Management Cost																		
Government Management ^(†)	-	-	-	27,900.000	1	27.900	23,000.000	1	23.000	30,000.000	1	30.000	-	-	-	30,000.000	1	30.000
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	27.900	-	-	23.000	-	-	30.000	-	-	-	-	-	30.000
Gross/Weapon System Cost	-	-	1,654.104	-	-	124.410	-	-	98.723	-	-	130.316	-	-	-	-	-	130.316

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	124.410	98.723	130.316	-	130.316
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	124.410	98.723	130.316	-	130.316

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
NETMOD-C Switches		2015	CDW Government LLC / Vernon Hills, IL	C / FFP	ACC-RI, Rock Island, IL	Oct 2014	Nov 2014	1	23,693.000			
NETMOD-C Switches		2016	CDW Government LLC / Vernon Hills, IL	C / FFP	ACC-RI, Rock Island, IL	Nov 2015	Dec 2015	1	7,596.000			
NETMOD-C Switches		2017	CDW Government LLC / Vernon Hills, IL	C / FFP	ACC-RI, Rock Island, IL	Oct 2016	Nov 2016	1	30,000.000			
YRP/LPP Increment 2C		2016	LGS Innovations / McLeansville, NC	C / CPFF	ACC-RI, Rock Island, IL	Nov 2015	Dec 2015	1	15,300.000			
TCF In A Box		2016	TBD / TBD	C / IDIQ	ACC-RI, Rock, Island, IL	Jun 2016	Jul 2016	1	7,000.000			
IT Modernization (Hardware)		2015	Various / Various	C / Various	ACC-RI, Rock Island, IL	Dec 2014	Jan 2015	1	26,649.000			
IT Modernization (Hardware)		2016	Various / Various	C / Various	ACC-RI, Rock Island, IL	Dec 2015	Jan 2016	1	8,800.000			
IT Modernization (Hardware)		2017	Various / Various	C / Various	ACC-RI, Rock Island, IL	Dec 2016	Jan 2017	1	50,000.000			
Implementation/Engineering		2015	Various / Various	C / Various	Various	Oct 2014	Nov 2014	1	46,168.000			
Implementation/Engineering		2016	Various / Various	C / Various	Various	Oct 2015	Nov 2015	1	7,527.000			
Implementation/Engineering		2017	Various / Various	C / Various	Various	Oct 2016	Nov 2016	1	20,316.000			
OFS Camp Buehring		2016	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2016	Feb 2016	1	5,000.000			
OFS Diverse Pt of Presence Camp Arifjan		2016	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2016	Mar 2016	1	4,500.000			
OFS COOP/DR OCP ARCENT-Forward		2016	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	Mar 2016	1	3,500.000			
OFS OSP Enduring Sites		2016	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2016	Feb 2016	1	6,000.000			
OFS Comm Infra Enduring Sites		2016	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	Mar 2016	1	4,000.000			
OFS IPN/SPPN		2016	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	May 2016	Jun 2016	1	6,500.000			
Government Management		2015	Program Management Support / PEO EIS, Ft Belvoir, VA	C / FFP	PEO, Ft Belvoir, VA	Oct 2014	Oct 2014	1	27,900.000			
Government Management		2016	Program Management Support / PEO EIS, Ft Belvoir, VA	C / FFP	PEO, Ft Belvoir, VA	Oct 2015	Oct 2015	1	23,000.000			
Government Management		2017	Program Management Support / PEO EIS, Ft Belvoir, VA	C / FFP	PEO, Ft Belvoir, VA	Oct 2016	Oct 2016	1	30,000.000			

Remarks:
 REMARKS: I3MP is a complex program that orchestrates the implementation of multiple disciplines (connectivity (voice, data, Outside Cable Plant (OSP) network)), capacity, storage and information assurance) across multiple locations each with their own developmental cycle, frequently resulting in the overlapping development and implementation of customized communications solutions (to meet unique and diverse mission conditions) at each Army installation. Unit costs and accompanying number of implementations (installations) will, therefore, vary from year to year, due to the complexity of the requirement, size of the installation, state of the information technology being replaced/modernized, the type of technology required, unique configuration and level of effort required to satisfy all requirements. ACC-RI - Army Contracting Command-Rock Island, DISA/DITCO - Defense Information Systems Agency/Defense Information Technology Contracting Organization; OFS - Operation Freedom Sentinel; OSP - Outside Cable Plant; COOP - Continuity of Operations; DR - Disaster Recovery; ARCENT - Army Central; IPN - Installation Processing Node; SPPN - Special Purpose Processing Node.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU2000 / TERRESTRIAL TRANSMISSION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	73.825	-	1.298	1.557	-	1.557
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	73.825	-	1.298	1.557	-	1.557
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	73.825	-	1.298	1.557	-	1.557

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Furnish Bills of Material, Install & Test ^(†)	73,825.000	1	73.825	-	-	-	1,298.000	1	1.298	1,557.000	1	1.557	-	-	-	1,557.000	1	1.557
<i>Subtotal: Recurring Cost</i>	-	-	73.825	-	-	-	-	-	1.298	-	-	1.557	-	-	-	-	-	1.557
<i>Subtotal: Flyaway Cost</i>	-	-	73.825	-	-	-	-	-	1.298	-	-	1.557	-	-	-	-	-	1.557
Gross/Weapon System Cost	-	-	73.825	-	-	-	-	-	1.298	-	-	1.557	-	-	-	-	-	1.557

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.298	1.557	-	1.557
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.298	1.557	-	1.557

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program				Item Number / Title [DODIC]: BU2000 / TERRESTRIAL TRANSMISSION				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Furnish Bills of Material, Install & Test		2016	Unicom Government Inc / Dulles	C / FFP	PEO EIS, CHESS	Mar 2016	Mar 2016	1	1,298.000			
Furnish Bills of Material, Install & Test		2017	Unicom Government Inc / Dulles	C / FFP	PEO EIS, CHESS	Jan 2017	Jan 2017	1	1,557.000			

Remarks:
 Purchase is for Standard Off the Shelf (COTS) equipment.
 Program Executive Office, Enterprise Information Systems (PEO EIS)
 Computer Hardware, Enterprise Software and Solutions (CHESS)

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	939.750	8.355	2.975	2.921	16.010	18.931
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	939.750	8.355	2.975	2.921	16.010	18.931
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	939.750	8.355	2.975	2.921	16.010	18.931

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Program Management Administration ^(†)	93,504.000	1	93.504	1,561.000	1	1.561	730.000	1	0.730	1,199.000	1	1.199	-	-	-	1,199.000	1	1.199
Engineer, Install & Test ^(†)	282,082.000	3	846.246	6,794.000	1	6.794	2,245.000	1	2.245	1,722.000	1	1.722	-	-	-	1,722.000	1	1.722
Engineer, Install & Test Kabul Embassy - OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	13,010.000	1	13.010	13,010.000	1	13.010
Engineer, Install & Test CPN-X - OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	3,000.000	1	3.000	3,000.000	1	3.000
<i>Subtotal: Recurring Cost</i>	-	-	939.750	-	-	8.355	-	-	2.975	-	-	2.921	-	-	16.010	-	-	18.931
<i>Subtotal: Hardware Cost</i>	-	-	939.750	-	-	8.355	-	-	2.975	-	-	2.921	-	-	16.010	-	-	18.931
Gross/Weapon System Cost	-	-	939.750	-	-	8.355	-	-	2.975	-	-	2.921	-	-	16.010	-	-	18.931

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	8.355	2.975	2.921	16.010	18.931
Total:	Quantity	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army				Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73		P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program		Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	8.355	2.975	2.921	16.010	18.931

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Program Management Administration		2015	PM DCATS / Ft. Belvoir, VA	Various	PM DCATS, Fort Belvoir, VA	Oct 2014	Nov 2014	1	1,561.000	N		
Program Management Administration		2016	PM DCATS / Ft. Belvoir, VA	Various	PM DCATS, Fort Belvoir, VA	Oct 2015	Nov 2015	1	730.000	N		
Program Management Administration		2017	PM DCATS / Ft. Belvoir, VA	Various	PM DCATS, Fort Belvoir	Oct 2016	Nov 2016	1	1,199.000			
Engineer, Install & Test		2015	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Ft. Belvoir, VA	Oct 2014	Dec 2014	1	6,794.000	N		
Engineer, Install & Test		2016	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Ft. Belvoir, VA	Oct 2015	Dec 2015	1	2,245.000	N		
Engineer, Install & Test		2017	TBD / TBD	MIPR	PEO EIS, Ft. Belvoir, VA	Oct 2016	Dec 2016	1	1,722.000	N		
Engineer, Install & Test Kabul Embassy - OCO	✓	2017	TBD / TBD	TBD	PEO EIS, Ft. Belvoir, VA	Oct 2016	Dec 2016	1	13,010.000	N		
Engineer, Install & Test CPN-X - OCO	✓	2017	TBD / TBD	TBD	PEO EIS, Ft. Belvoir, VA	Oct 2016	Dec 2016	1	3,000.000	N		

Remarks:
 WWTCIP procurements consist of COTS/GOTS products.
 PM DCATS - Project Manager, Defense Communications and Army Transmission Systems (DCATS); PEO EIS - Program Executive Office Enterprise Information Systems.
 CPN-X - Coalition Partner Network - Kuwait

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: V29600 / JTT/CIBS-M
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	315.776	0.870	0.881	5.337	-	5.337	0.904	0.924	0.940	0.963	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	315.776	0.870	0.881	5.337	-	5.337	0.904	0.924	0.940	0.963	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	315.776	0.870	0.881	5.337	-	5.337	0.904	0.924	0.940	0.963	Continuing	Continuing

(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 Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports all of the Joint Services and SOCOM. The IBS is the worldwide DoD standard network enterprise for transmitting time-sensitive tactical intelligence and targeting data to all echelons of Joint Service operational Users. The JPO's role is to coordinate modernization and sustainment of IBS terminals compatible with the UHF SATCOM IBS broadcasts. The transmit/receive-capable Joint Tactical Terminal (JTT) systems currently consist of the JTT-Senior and JTT-IBS configurations, and they satisfy the radio communication Key Performance Parameters for the IBS Program. The JTT is the official IBS producer system, and ensures continued IBS interoperability to a variety of tactical producers/consumers across the Joint Services. JPO IBS Terminals performs JTT life cycle program management through acquisition, fielding support and sustainment of recently upgraded JTT equipment. The JPO coordinates support as needed for the new IBS network that employs new crypto, a new Common Interactive Broadcast (CIB), and the Common Message Format (CMF). Funds support continued software technical fixes/enhancements, JTT configuration management, procurement of initial spare parts, and JTT component obsolescence redesign/engineering, JTT sustainment coordination, and JTT fielding support.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.870	0.881	5.337	-	5.337	0.904	0.924	0.940
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.870	0.881	5.337	-	5.337	0.904	0.924	0.940

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: V29600 / JTT/CIBS-M
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	V29600 / JTT/CIBS-M			- / 315.776	- / 0.870	- / 0.881	- / 5.337	- / -	- / 5.337
P-40	Total Gross/Weapon System Cost			- / 315.776	- / 0.870	- / 0.881	- / 5.337	- / -	- / 5.337

*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:

FY2017 Base procurement dollars in the amount of \$5.337 million funds support of component obsolescence redesign/engineering, procurement of JTT-IBS initial spares, configuration management, sustainment, training, and fielding support. The approved Army Acquisition Objective is 994.

The FY 2017 funding request was reduced for \$0.110 million to account for the availability of prior year execution balances.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: V29600 / JTT/CIBS-M	Item Number / Title [DODIC]: V29600 / JTT/CIBS-M

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	315.776	0.870	0.881	5.337	-	5.337
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	315.776	0.870	0.881	5.337	-	5.337
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	315.776	0.870	0.881	5.337	-	5.337

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total			
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Support	-	-	15.776	-	-	0.070	-	-	0.081	-	-	0.746	-	-	-	-	-	-	0.746
JTT Component redesign/engineering	-	-	150.000	-	-	0.400	-	-	0.400	-	-	3.942	-	-	-	-	-	-	3.942
IBS Spare Parts Support	-	-	150.000	-	-	0.400	-	-	0.400	59.000	11	0.649	-	-	-	59.000	11	0.649	
<i>Subtotal: Recurring Cost</i>	-	-	<i>315.776</i>	-	-	<i>0.870</i>	-	-	<i>0.881</i>	-	-	<i>5.337</i>	-	-	-	-	-	-	<i>5.337</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>315.776</i>	-	-	<i>0.870</i>	-	-	<i>0.881</i>	-	-	<i>5.337</i>	-	-	-	-	-	-	<i>5.337</i>
Gross/Weapon System Cost	-	-	315.776	-	-	0.870	-	-	0.881	-	-	5.337	-	-	-	-	-	-	5.337

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	0.870	0.881	5.337	-	5.337
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	0.870	0.881	5.337	-	5.337

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ7326 / Prophet Ground
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0304270A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	12	14	-	-	-	-	-	-	-	-	26
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,143.683	55.896	53.650	-	-	-	-	-	-	-	-	1,253.229
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,143.683	55.896	53.650	-	-	-	-	-	-	-	-	1,253.229
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,143.683	55.896	53.650	-	-	-	-	-	-	-	-	1,253.229

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	4,658.000	3,832.143	-	-	-	-	-	-	-	-	48,201.115

Description:

Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. The PE is the tactical commander's sole organic ground-based Signals Intelligence (SIGINT)/Electronic Warfare system for the Brigade Combat Team (BCT), Stryker Brigade Combat Team (SBCT), and Battlefield Surveillance Brigade (BfSB). 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. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates the ability for rapid integration of Technical Insertions and Pre-Planned Product Improvements to ensure operational relevance. PM Prophet will modernize legacy systems to provide for fleet modernization to meet the requirements of the Prophet program and match the capabilities of the Prophet Enhanced sensors and platforms currently being fielded to the Army.

Army Acquisition Objective (AAO):225

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	12	14	-	-	-	-	-	-	-
Total Obligation Authority	55.896	53.650	-	-	-	-	-	-	-
Total:	12	14	-	-	-	-	-	-	-
Secondary Distribution	55.896	53.650	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ7326 / Prophet Ground
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0304270A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BZ7326 / Prophet Ground	P-5a, P-21		- / 1,143.683	12 / 55.896	14 / 53.650	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,143.683	12 / 55.896	14 / 53.650	- / -	- / -	- / -

*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:
 This funding line does not have an FY 2017 budget request. In FY 2017, Prophet funding begins in the Modifications-In-Svc line, BZ9753.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7326 / Prophet Ground	Item Number / Title [DODIC]: BZ7326 / Prophet Ground
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	12	14	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,143.683	55.896	53.650	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,143.683	55.896	53.650	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,143.683	55.896	53.650	-	-	-

(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)	-	4,658.000	3,832.143	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Systems H/W	1,808.000	602	1,088.416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Quality Management	-	-	2.119	-	-	2.647	-	-	2.714	-	-	-	-	-	-	-	-	-
P31 Integration	-	-	39.465	-	-	9.577	-	-	8.357	-	-	-	-	-	-	-	-	-
GFE	-	-	-	-	-	0.327	-	-	0.336	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	3.080	-	-	6.823	-	-	4.015	-	-	-	-	-	-	-	-	-
Training / Fielding	-	-	3.500	-	-	6.596	-	-	6.596	-	-	-	-	-	-	-	-	-
Software Engineering	-	-	2.611	-	-	3.270	-	-	2.028	-	-	-	-	-	-	-	-	-
Project Management Costs	-	-	4.492	-	-	4.960	-	-	4.292	-	-	-	-	-	-	-	-	-
Prophet Enhanced Legacy System Upgrade ^(f)	-	-	-	1,808.000	12	21.696	1,808.000	14	25.312	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,143.683</i>	-	-	<i>55.896</i>	-	-	<i>53.650</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,143.683</i>	-	-	<i>55.896</i>	-	-	<i>53.650</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1,143.683	4,658.000	12	55.896	3,832.143	14	53.650	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	12	14	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7326 / Prophet Ground	Item Number / Title [DODIC]: BZ7326 / Prophet Ground
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution						
	Total Obligation Authority	55.896	53.650	-	-	-
Total:	Quantity	12	14	-	-	-
Secondary Distribution	Total Obligation Authority	55.896	53.650	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7326 / Prophet Ground	Item Number / Title [DODIC]: BZ7326 / Prophet Ground
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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
Prophet Enhanced Legacy System Upgrade ^(†)		2015	GD C4 Systems / Scottsdale	C / FFP	CECOM	Feb 2015	Oct 2015	12	1,808.000			
Prophet Enhanced Legacy System Upgrade ^(†)		2016	GD C4 Systems / Scottsdale	C / FFP	CECOM	Nov 2015	Nov 2016	14	1,808.000			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7326 / Prophet Ground	Item Number / Title [DODIC]: BZ7326 / Prophet Ground
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	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			
Prophet Enhanced Legacy System Upgrade																																	
1		2015	ARMY	12	-	12																								-			
											A	-	-	-	-	-	-	-	2	2	2	2	2	2									
1		2016	ARMY	14	-	14																								14			
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7326 / Prophet Ground	Item Number / Title [DODIC]: BZ7326 / Prophet Ground
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C 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
Prophet Enhanced Legacy System Upgrade																															
	1	2015	ARMY	12	12	-																							-		
	1	2016	ARMY	14	-	14	-	2	2	2	2	2	2	2															-		
							O C T	N O V	D E C	J A N	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 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80				P-1 Line Item Number / Title: BZ7326 / Prophet Ground				Item Number / Title [DODIC]: BZ7326 / Prophet Ground				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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 C4 Systems - Scottsdale	4	25	96	10	2	9	11	2	3	6	9

"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 2017 Army **Date:** February 2016

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: BU4050 / DRUG INTERDICTION PROGRAM (DIP) (TIARA)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.001	-	-	-	-	-	-	-	-	-	-	0.001
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.001	-	-	-	-	-	-	-	-	-	-	0.001
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.001	-	-	-	-	-	-	-	-	-	-	0.001

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

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

Description:

CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ7316 / DCGS-A (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305208A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	10,577	3,234	2,087	2,022	-	2,022	2,111	2,270	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,401.247	192.038	304.408	242.514	33.032	275.546	273.518	283.944	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,401.247	192.038	304.408	242.514	33.032	275.546	273.518	283.944	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,401.247	192.038	304.408	242.514	33.032	275.546	273.518	283.944	-	-	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	227.025	59.381	145.859	119.938	-	136.274	129.568	125.085	-	-	Continuing	Continuing

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; the control of select Army and joint sensor systems; the fusion of all acquired data and information, and distribution of relevant red (threat), gray (non-aligned), and environmental (weather and terrain) information; and providing the Warfighters' early warning and targeting capability. DCGS-A provides a single integrated ISR ground processing system composed of common components that are interoperable with sensors, other information sources, all Warfighting Functions, and the Defense Information & Intelligence Enterprise (DI2E). DCGS-A is fielded in Fixed and Mobile configurations emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. As enhanced capabilities are developed and tested, 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).

The Army Acquisition Executive designated Program Executive Office Intelligence Electronic Warfare and Sensors (PEO IEW&S) as the Command Post Computing Environment (CPCE) lead. As such, DCGS-A is defining the architecture to fit within the Common Operating Environment (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.

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, such as Portable and Fixed-Multi-Function Workstations (P-MFWS) and 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 enterprise.

DCGS-A is a designated Major Automation Information System (MAIS), and is deployed on multiple hardware platforms and security levels across the Army. DCGS-A achieved a successful Milestone C in 2Q12, and following the operational assessment and Full Deployment Decision (FDD) in 1Q13, DCGS-A Increment 1 Release 1 capabilities are being deployed across the Force IAW the ARPL. Increment 1, Release 2 and Increment 2 capabilities will be fielded incrementally through software releases integrated onto the fielded product line hardware configurations.

Within the Brigade Combat Teams (BCTs), DCGS-A provides basic mobile ISR capability as well as software applications that can be embedded on future Command, Control, Communications & Intelligence (C3I) and other systems. At the Corps, Division and Echelons Above Corps (EAC), DCGS-software will be hosted on fixed, mobile and portable configurations. DCGS-A consolidates and modernizes the PED capabilities formerly found in the following programs, allowing for their continuing disposition out of the force structure: All Source Analysis System (ASAS) Family of Systems (FoS), Tactical Exploitation System

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ7316 / DCGS-A (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305208A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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(TES) FoS, Integrated Meteorological System (IMETS) FoS, Digital Topographic Support System (DTSS) FoS, Counterintelligence and Interrogation Operations (CI&I Ops) workstation, Guardrail Common Sensor Intelligence Processing Facility/Guardrail Ground Baseline, Common Ground Station, Prophet Control, and Enhanced Trackwolf processing capabilities. DCGS-A will continue to develop software packages to be embedded into mission command and other select systems providing future enhanced ISR/analytic capabilities.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	2,710	1,372	1,321	-	1,321	1,404	1,491	-	-
	Total Obligation Authority	165.137	249.763	188.138	33.032	221.170	218.333	217.079	-	-
ANG	Quantity	453	587	573	-	573	579	651	-	-
	Total Obligation Authority	24.742	49.990	49.711	-	49.711	50.520	62.200	-	-
AR	Quantity	71	128	128	-	128	128	128	-	-
	Total Obligation Authority	2.159	4.655	4.665	-	4.665	4.665	4.665	-	-
Total: Secondary Distribution	Quantity	3,234	2,087	2,022	-	2,022	2,111	2,270	-	-
	Total Obligation Authority	192.038	304.408	242.514	33.032	275.546	273.518	283.944	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ7316 / DCGS-A (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305208A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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 (MIP)	P-5a		10,577 / 2,401.247	3,234 / 192.038	2,087 / 304.408	2,022 / 242.514	- / 33.032	2,022 / 275.546
P-40	Total Gross/Weapon System Cost			10,577 / 2,401.247	3,234 / 192.038	2,087 / 304.408	2,022 / 242.514	- / 33.032	2,022 / 275.546

*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:
 FY2017 Base funding in the amount of \$242.514 million will modernize and procure components for the DCGS-A Fixed Sites, mobile variants and Program of Record (POR) systems transitioned to the DCGS-A capability. DCGS-A hardware and software will be integrated into select ISR Current Force POR systems, to network enable and provide enhanced ISR PED capabilities IAW the Army's Equipping Strategy. Funding supports the ARPL by equipping and training next deployers with the current DCGS-A software release. Fieldings will encompass 250 units across 30 states. Funding will provide for the acquisition of the Cross Doman Solution Suite (CDSS) in order to support the fielding of Version 3.2.5 software, which will also transition to Increment 2. Funding also procures new COTS software licenses to enhance performance of fielded systems, as well as supports integration of Intelligence Community investments. DCGS-A supports the Army's Geospatial Transformation by providing an integrated visualization capability for intelligence, terrain, and weather effects in a net centric environment. Funding supports continued alignment with Army COE objectives.

FY2017 OCO funding in the amount of \$33.032 million is required to procure hardware and software to allow deployed units to conduct intelligence reach and reach-back operations. Funds also procure the required hardware and software needed to maintain the effectiveness of DCGS-A capabilities and infra-structure supporting in-theater Intelligence, Surveillance, and Reconnaissance (ISR).

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.

COMMENT: Quantities on the P40 breakdown do not equal quantities on the P5 because systems are comprised of varying configurations of hardware and software components.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP)	Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	10,577	3,234	2,087	2,022	-	2,022
Gross/Weapon System Cost (\$ in Millions)	2,401.247	192.038	304.408	242.514	33.032	275.546
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,401.247	192.038	304.408	242.514	33.032	275.546
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,401.247	192.038	304.408	242.514	33.032	275.546

(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)	227.025	59.381	145.859	119.938	-	136.274

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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) HW ^(†)	-	-	1,374.396	-	-	-	2,277.000	16	36.432	-	-	-	-	-	-	-	-	-
Tactical ISR Grd Station (OCO)	-	-	-	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-
ISR Process Ctr - V1 (IPC V1/DE ACE) HW ^(†)	-	-	6.921	-	-	-	1,200.000	4	4.800	-	-	-	-	-	-	-	-	-
Oper ISR Grnd Station (OGS/SIPC) HW ^(†)	-	-	24.128	-	-	10.800	9,000.000	3	27.000	-	-	-	-	-	-	-	-	-
OGS Refresh/Repair	-	-	-	-	-	-	-	-	2.200	-	-	-	-	-	-	-	-	-
Oper ISR Grnd Station (OCO) HW	-	-	-	-	-	17.700	-	-	-	-	-	-	-	-	-	-	-	-
ISR Process Ctr V2 (IPC V2/DE ACT-E)HW ^(†)	-	-	32.720	-	-	-	1,685.000	16	26.960	1,685.000	22	37.070	-	-	-	1,685.000	22	37.070
Cross Domain Solution Suite (CDSS) ^(†)	-	-	-	-	-	-	-	-	-	50.000	67	3.350	-	-	-	50.000	67	3.350
GEOINT WS (GWS/DE DTSS-D) HW ^(†)	-	-	21.996	142.000	119	16.898	141.000	147	20.727	166.000	134	22.244	-	-	-	166.000	134	22.244
GEOINT WS (OCO) HW	-	-	-	-	-	7.130	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80						P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP)						Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP)					
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
GEOINT WS (OCO) HW Refresh ^(†)	-	-	-	-	-	-	85.000	1	0.085	-	-	-	-	-	-	-	-	-
Intel Fusion Server (IFS) HW ^(†)	-	-	35.000	225.000	199	44.775	288.000	208	59.904	235.000	200	47.000	-	-	-	235.000	200	47.000
Intel Fusion Server (IFS) SW ^(†)	-	-	-	-	-	-	57.000	4	0.228	-	-	-	-	-	-	-	-	-
Portable (P)Multi Function WorkSta. HW ^(†)	-	-	210.801	5.500	2,098	11.539	5.000	1,705	8.525	5.000	1,501	7.505	-	-	-	5.000	1,501	7.505
TPE H/W S/W Refresh	-	-	7.200	-	-	7.250	-	-	10.880	-	-	-	-	-	-	-	-	-
Fixed Site Refresh	-	-	-	-	-	-	-	-	22.600	-	-	2.500	-	-	-	-	-	2.500
Equipment Tech Refresh	-	-	-	-	-	-	-	-	-	-	-	46.022	-	-	33.032	-	-	79.054
TGS Software Update/ Integration	-	-	-	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-
Software Licenses for Int. on DCGS HW	-	-	399.991	-	-	20.764	-	-	17.000	-	-	13.467	-	-	-	-	-	13.467
Program Office Support	-	-	101.746	-	-	10.287	-	-	10.818	-	-	11.050	-	-	-	-	-	11.050
Software Integration on to DCGS HW	-	-	21.700	-	-	9.000	-	-	5.939	-	-	5.150	-	-	-	-	-	5.150
Fielding	-	-	84.613	-	-	5.440	-	-	21.393	-	-	21.538	-	-	-	-	-	21.538
Training	-	-	54.758	-	-	5.760	-	-	6.451	-	-	6.022	-	-	-	-	-	6.022
Technical Engineering Services	-	-	25.277	-	-	20.195	-	-	21.180	-	-	18.284	-	-	-	-	-	18.284
Data	-	-	-	-	-	-	-	-	1.286	-	-	1.312	-	-	-	-	-	1.312
<i>Subtotal: Recurring Cost</i>	-	-	2,401.247	-	-	192.038	-	-	304.408	-	-	242.514	-	-	33.032	-	-	275.546
<i>Subtotal: Flyaway Cost</i>	-	-	2,401.247	-	-	192.038	-	-	304.408	-	-	242.514	-	-	33.032	-	-	275.546
Gross/Weapon System Cost	227.025	10,577	2,401.247	59.381	3,234	192.038	145.859	2,087	304.408	119.938	2,022	242.514	-	-	33.032	136.274	2,022	275.546

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	2,710	1,372	1,321	-	1,321
	Total Obligation Authority	165.137	249.763	188.138	33.032	221.170
ANG	Quantity	453	587	573	-	573
	Total Obligation Authority	24.742	49.990	49.711	-	49.711
AR	Quantity	71	128	128	-	128

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP)	Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Total Obligation Authority	2.159	4.655	4.665	-	4.665
Total:					
Secondary Distribution					
Quantity	3,234	2,087	2,022	-	2,022
Total Obligation Authority	192.038	304.408	242.514	33.032	275.546

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP)	Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP)
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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
Tactical ISR Grd Station (TGS/DE CGS) HW		2016	General Dynamics4 / Phoenix, AZ - TGS(DEC GS)	C / FP	CECOM ACQ CENTER	Aug 2016	Nov 2016	16	2,277.000			
ISR Process Ctr - V1 (IPC V1/DE ACE) HW		2016	General Dynamics6 / Taunton, MA - (IPC V1)	C / FP	CECOM ACQ CENTER	Jul 2016	Oct 2016	4	1,200.000			
Oper ISR Grnd Station (OGS/SIPC) HW		2016	CACI / Elkr Ridge, NJ (OGS)	C / CPFF	CECOM ACQ CENTER	Jun 2016	Sep 2016	3	9,000.000			
ISR Process Ctr V2 (IPC V2/DE ACT-E)HW		2016	General Dynamics2 / Taunton, MA - (IPC V2)	C / FP	CECOM ACQ CENTER	Jun 2016	Sep 2016	16	1,685.000			
ISR Process Ctr V2 (IPC V2/DE ACT-E)HW		2017	General Dynamics2 / Taunton, MA - (IPC V2)	C / FP	CECOM ACQ CENTER	Jun 2017	Sep 2017	22	1,685.000			
Cross Domain Solution Suite (CDSS)		2017	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Apr 2017	Jul 2017	67	50.000			
GEOINT WS (GWS/DE DTSS-D) HW		2015	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Feb 2015	Jul 2015	119	142.000			
GEOINT WS (GWS/DE DTSS-D) HW		2016	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Mar 2016	Jun 2016	147	141.000			
GEOINT WS (GWS/DE DTSS-D) HW		2017	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Mar 2017	Jun 2017	134	166.000			
GEOINT WS (OCO) HW Refresh		2016	General Dynamics5 / Taunton, MA - MFWS	C / FP	CEOM ACQ CENTER	Apr 2016	Jul 2016	1	85.000			
Intel Fusion Server (IFS) HW		2015	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2015	Jun 2015	199	225.000			
Intel Fusion Server (IFS) HW		2016	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Mar 2016	Jun 2016	208	288.000			
Intel Fusion Server (IFS) HW		2017	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2017	May 2017	200	235.000			
Intel Fusion Server (IFS) SW		2016	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENER	Mar 2016	Jun 2016	4	57.000			
Portable (P)Multi Function WorkSta. HW		2015	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Feb 2015	Apr 2015	2,098	5.500			
Portable (P)Multi Function WorkSta. HW		2016	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Mar 2016	Jun 2016	1,705	5.000			
Portable (P)Multi Function WorkSta. HW		2017	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Mar 2017	Jun 2017	1,501	5.000			

Remarks:
All DCGS-A hardware is comprised solely of COTS equipment. Based on the approved Army Cost Position in preparation for the Full Deployment Decision, 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 2017 Army **Date:** February 2016

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: BZ8401 / Joint Tactical Ground Station (JTAGS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0208053A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	12	2	1	4	-	4	-	5	-	-	-	24
Gross/Weapon System Cost (<i>\$ in Millions</i>)	36.101	5.286	3.906	4.417	-	4.417	-	5.434	-	-	-	55.144
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.101	5.286	3.906	4.417	-	4.417	-	5.434	-	-	-	55.144
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.101	5.286	3.906	4.417	-	4.417	-	5.434	-	-	-	55.144

(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>)	3,008.417	2,643.000	3,906.000	1,104.250	-	1,104.250	-	1,086.800	-	-	-	2,297.667

Description:

The Joint Tactical Ground Station (JTAGS) system provides the Army's only in-theater capability for directly downloading raw data from the Defense Support Program satellites, processing this data into ballistic missile early warnings, alerting, cueing, and disseminating that information reliably to theater combatant commanders. JTAGS, fielded since 1997, currently has five ground stations, and is deployed in three theaters (PACOM, EUCOM, and CENTCOM). Obsolescence/Information Assurance issues coupled with the desire to take advantage of the Air Force's investment in newer satellites (Space Based Infrared System, SBIR) and their improved sensor's warning accuracy and timeliness, led to the Army's approval/initiation of a two phase JTAGS Pre-Planned Product Improvement (P3I) program. Phase 1 includes de-sheltering the system and upgrading hardware/software to address obsolescence/ Information Assurance issues. Phase 2 activities are broken into three spirals to expedite getting critical capabilities fielded sooner. These capabilities are primarily software improvements designed to take full advantage of new sensors on orbit. Quantities shown include Phase 2 Spiral capability upgrades. Approved Acquisition Objective (AAO) is five systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	2	1	4	-	4	-	5	-
	Total Obligation Authority	5.286	3.906	4.417	-	4.417	-	5.434	-
Total: Secondary Distribution	Quantity	2	1	4	-	4	-	5	-
	Total Obligation Authority	5.286	3.906	4.417	-	4.417	-	5.434	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ8401 / Joint Tactical Ground Station (JTAGS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0208053A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BZ8420 / NA (NA)			12 / 36.101	2 / 5.286	1 / 3.906	4 / 4.417	- / -	4 / 4.417
P-40	Total Gross/Weapon System Cost			12 / 36.101	2 / 5.286	1 / 3.906	4 / 4.417	- / -	4 / 4.417

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BZ8420 / NA (NA)			- / -	5 / 5.434	- / -	- / -	- / -	24 / 55.144
P-40	Total Gross/Weapon System Cost			- / -	5 / 5.434	- / -	- / -	- / -	24 / 55.144

*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 2017 Base procurement dollars in the amount of \$4.417 million procures upgraded software for JTAGS systems developed via the JTAGS P3I Block 2 Phase 2 spiral development/modification program.

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

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Exhibit P-3a, Individual Modification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ8401 / Joint Tactical Ground Station (JTAGS)	Modification Number / Title: BZ8420 / NA
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	12	2	1	4	-	4	-	5	-	-	-	24
Gross/Weapon System Cost (<i>\$ in Millions</i>)	36.101	5.286	3.906	4.417	-	4.417	-	5.434	-	-	-	55.144
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.101	5.286	3.906	4.417	-	4.417	-	5.434	-	-	-	55.144
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.101	5.286	3.906	4.417	-	4.417	-	5.434	-	-	-	55.144

(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>)	3,008.417	2,643.000	3,906.000	1,104.250	-	1,104.250	-	1,086.800	-	-	-	2,297.667

Description:

FY17 base procurement dollars in the amount of \$4.417 million procures upgraded software for JTAGS Ground Stations developed via the JTAGS P3I Block 2 Phase 2 development/modification program.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	2	1	4	-	4	-	5	-	-
	Total Obligation Authority	5.286	3.906	4.417	-	4.417	-	5.434	-	-
Total:	Quantity	2	1	4	-	4	-	5	-	-
Secondary Distribution	Total Obligation Authority	5.286	3.906	4.417	-	4.417	-	5.434	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80					P-1 Line Item Number / Title: BZ8401 / Joint Tactical Ground Station (JTAGS)					Modification Number / Title: BZ8420 / NA			
Models of Systems Affected: NA				Modification Type: NA				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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)	
Procurement													
<i>Modification Item 1 of 1: P3I Block 2</i>													
A Kits													
Recurring													
Prior - Upgrade Kits	12 / 36.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 36.101	
FY 2015 - Upgrade Kits	- / -	2 / 5.286	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.286	
FY 2016 - Upgrade Kits	- / -	- / -	1 / 2.721	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.721	
FY 2017 - Upgrade Kits	- / -	- / -	- / -	4 / 3.709	- / -	4 / 3.709	- / -	- / -	- / -	- / -	- / -	4 / 3.709	
FY 2019 - Upgrade Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.726	- / -	- / -	- / -	5 / 4.726	
FY 2016 Field and Install	- / -	- / -	- / 1.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.185	
FY 2017 Field and Install	- / -	- / -	- / -	- / 10.708	- / -	- / 10.708	- / -	- / -	- / -	- / -	- / -	- / 10.708	
FY 2019 Field and Install	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.708	- / -	- / -	- / -	- / 10.708	
<i>Subtotal: Recurring</i>	- / 36.101	- / 5.286	- / 3.906	- / 4.417	- / -	- / 4.417	- / -	- / 5.434	- / -	- / -	- / -	- / 55.144	
<i>Subtotal: P3I Block 2</i>	12 / 36.101	2 / 5.286	1 / 3.906	4 / 4.417	- / -	4 / 4.417	- / -	5 / 5.434	- / -	- / -	- / -	24 / 55.144	
<i>Subtotal: Procurement, All Modification Items</i>	12 / 36.101	2 / 5.286	1 / 3.906	4 / 4.417	- / -	4 / 4.417	- / -	5 / 5.434	- / -	- / -	- / -	24 / 55.144	
Installation													
<i>Modification Item 1 of 1: P3I Block 2</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	36.101	5.286	3.906	4.417	-	4.417	-	5.434	-	-	-	55.144	

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ8401 / Joint Tactical Ground Station (JTAGS)	Modification Number / Title: BZ8420 / NA

Modification Item 1 of 1: P3I Block 2

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Colorado Springs, CO
Administrative Leadtime (in Months): 12	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Dec 2015	Jun 2017		Mar 2019		
Delivery Dates	Jun 2016	Jun 2017	Mar 2018		Dec 2020		

Installation Information

Method of Implementation: Contractor

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	12	-	-	-	2	1	-	-	-	-	-	-	4	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	10	-	-	-	-	-	-	1	1	1	1	1	-	-	1	2	1	-	-	-	-	3	2	-	-	-	-	-	-	-	-	24

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA0326 / TROJAN (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303032A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	446.688	15.214	20.471	17.455	3.305	20.760	13.202	13.956	14.403	14.591	Continuing	Continuing
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	446.688	15.214	20.471	17.455	3.305	20.760	13.202	13.956	14.403	14.591	Continuing	Continuing
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	446.688	15.214	20.471	17.455	3.305	20.760	13.202	13.956	14.403	14.591	Continuing	Continuing

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

<i>Initial Spares (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Flyaway Unit Cost (\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Unit Cost (\$ in Thousands)</i>	-	-	-	1,939.444	-	1,939.444	-	-	-	-	Continuing	Continuing

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 forward deployed Army, Joint Service and Multi-National warfighters.

TROJAN SPIRIT provides Army units with dedicated, secure, high capacity, Sensitive Compartmented Information high intelligence data processing and communications. It provides a rapidly deployable, multi-level security, processor-to-processor, high capacity communications capability, and supports tactical to strategic reach-back, essential to split-based operations.

All funding goes to the Active Component.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA0326 / TROJAN (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303032A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	15.214	20.471	17.455	3.305	20.760	13.202	13.956	14.403	14.591
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	15.214	20.471	17.455	3.305	20.760	13.202	13.956	14.403	14.591

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA0326 / TROJAN (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303032A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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 (MIP)	P-5a		- / 228.123	- / 5.639	- / 5.864	- / 9.400	- / 3.305	- / 12.705
P-5	BA0333 / TROJAN SPIRIT - TERMINALS (MIP)	P-5a		- / 218.565	- / 9.575	- / 14.607	- / 8.055	- / -	- / 8.055
P-40	Total Gross/Weapon System Cost			- / 446.688	- / 15.214	- / 20.471	- / 17.455	- / 3.305	- / 20.760

*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:

FY2017 Base funding in the amount of \$17.455 million funds requirements for TROJAN NexGEN and TROJAN SPIRIT.

TROJAN NexGEN: Funds collection and processing system upgrades required to maintain the TROJAN NexGEN system strategic architecture commonality. Funding is used for the procurement of material (hardware/software) in support of planned TROJAN NexGEN upgrades and fielding activities to include fixed and mobile collection platforms, multi-band signal search and acquisition survey systems, fielding, modernization of existing sites, and upgrades to Network Control Centers to support NSA-approved architecture for network infrastructures.

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 (TNO) 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.

FY2017 OCO funding in the amount of \$3.305 million funds reset and recapitalization of deployed systems to meet standard configuration and type classification while also addressing the modernization of multiple TROJAN NexGEN systems that were not previously upgraded due to mission requirements in support of contingency operations. Funds also support a full reset of the TROJAN Support Desk, which provides 24/7 support to the warfighter, to ensure compatibility with all TROJAN forward deployed and sanctuary systems/facilities. Funds purchase equipment, installation, training and materials for enduring TROJAN intelligence operations systems to provide the Military Intelligence Brigades with an enduring capability in support of Contingency Operations.

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BA0326 / TROJAN (MIP)	Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	228.123	5.639	5.864	9.400	3.305	12.705
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	228.123	5.639	5.864	9.400	3.305	12.705
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	228.123	5.639	5.864	9.400	3.305	12.705

(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>	-	-	-	2.844	-	2.844

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(t)	3,433.760	50	171.688	1,026.000	5	5.130	1,080.200	5	5.401	1,063.750	8	8.510	3,305.000	1	3.305	1,312.778	9	11.815
Integration/Fielding	28,217.500	2	56.435	509.000	1	0.509	463.000	1	0.463	890.000	1	0.890	-	-	-	890.000	1	0.890
<i>Subtotal: Recurring Cost</i>	-	-	228.123	-	-	5.639	-	-	5.864	-	-	9.400	-	-	3.305	-	-	12.705
<i>Subtotal: Flyaway Cost</i>	-	-	228.123	-	-	5.639	-	-	5.864	-	-	9.400	-	-	3.305	-	-	12.705
Gross/Weapon System Cost	-	-	228.123	-	-	5.639	-	-	5.864	2.844	-	9.400	-	-	3.305	2.844	-	12.705

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	5.639	5.864	9.400	3.305	12.705
Total: Secondary Distribution	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	5.639	5.864	9.400	3.305	12.705

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BA0326 / TROJAN (MIP)	Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC (MIP)
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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
Hardware		2015	CACI / APG	C / CPFF	CECOM	Jun 2015	Sep 2015	5	1,026.000			
Hardware		2016	CACI / APG	C / CPFF	CECOM	Aug 2015	Aug 2016	5	1,080.200			
Hardware		2017	CACI / APG	C / CPFF	CECOM	Aug 2016	Aug 2017	9	1,312.778			

Remarks:
CACI is the prime contractor for TROJAN NexGEN. The period of performance for base and option years is 28 AUG to 27 AUG. Contract is currently in base year which ends 27 August 2016.

All items procured are COTS/GOTS.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BA0326 / TROJAN (MIP)	Item Number / Title [DODIC]: BA0333 / TROJAN SPIRIT - TERMINALS (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	218.565	9.575	14.607	8.055	-	8.055
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	218.565	9.575	14.607	8.055	-	8.055
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	218.565	9.575	14.607	8.055	-	8.055

(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)	-	-	-	895.000	-	895.000

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(t)	433.185	276	119.559	169.980	51	8.669	123.368	106	13.077	178.100	40	7.124	-	-	-	178.100	40	7.124
Integration/Fielding	49,503.000	2	99.006	906.000	1	0.906	765.000	2	1.530	931.000	1	0.931	-	-	-	931.000	1	0.931
<i>Subtotal: Recurring Cost</i>	-	-	218.565	-	-	9.575	-	-	14.607	-	-	8.055	-	-	-	-	-	8.055
<i>Subtotal: Flyaway Cost</i>	-	-	218.565	-	-	9.575	-	-	14.607	-	-	8.055	-	-	-	-	-	8.055
Gross/Weapon System Cost	-	-	218.565	-	-	9.575	-	-	14.607	895.000	-	8.055	-	-	-	895.000	-	8.055

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	9.575	14.607	8.055	-	8.055
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	9.575	14.607	8.055	-	8.055

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: BA0326 / TROJAN (MIP)				Item Number / Title [DODIC]: BA0333 / TROJAN SPIRIT - TERMINALS (MIP)				

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		2015	CACI / APG	C / CPFF	CECOM	Jun 2015	Sep 2015	51	169.980			
Hardware		2016	CACI / APG	C / CPFF	CECOM	Sep 2015	Sep 2016	106	123.368			
Hardware		2017	CACI / APG	C / CPFF	CECOM	Sep 2016	Sep 2017	40	178.100			

Remarks:

Hardware is a combination of Government off-the-Shelf (GOTS) and Commercial off-the-Shelf (COTS) products obtained from Global SATCOM, CACI and related vendors.

CACI is the prime contractor for TROJAN NexGEN and TROJAN SPIRIT. The period of performance for base and option years is 30 SEP to 29 SEP. Contract is currently in base year which ends on 29 Sep 2016.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	8	10	22	-	22	8	23	14	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	121.779	3.901	3.978	44.965	-	44.965	34.303	47.841	56.068	86.439	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	121.779	3.901	3.978	44.965	-	44.965	34.303	47.841	56.068	86.439	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	121.779	3.901	3.978	44.965	-	44.965	34.303	47.841	56.068	86.439	Continuing	Continuing

(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>)	-	487.625	397.800	2,043.864	-	2,043.864	4,287.875	2,080.043	4,004.857	-	Continuing	Continuing

Description:

Special Purpose Systems (BZ9751): Technical Insertions (TI) will be made to the ground-based Signals Intelligence (SIGINT) system with additional capabilities required by theater units to effectively engage enemy forces and provide Force Protection information to friendly forces. Procure Government and Commercial off-the-shelf (GOTS/COTS) Next Generation SIGINT capabilities that are theater specific and enable the Prophet system to address specific threats and Signals of Interest (SOI). Prophet Enhanced (PE) is the tactical commander's sole 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. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates the ability for rapid integration of TI and Pre-Planned Product Improvements to ensure operational relevance.

Prophet Enhanced Modifications MIP (BZ9753): A new baby SSN (BZ9753) is a new start in FY17. In FY17, PdM Prophet will begin modernization to retrofit, test, train, and support previously fielded PE systems not currently hosted on a prime mover to the latest mounted configuration. Prophet Enhanced is the tactical commander's sole 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. It also incorporates the ability for rapid integration of Technical Insertions and Pre-Planned Product Improvements to ensure operational relevance.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	8	10	22	-	22	8	23	14	-
	Total Obligation Authority	3.901	3.978	44.965	-	44.965	34.303	47.841	56.068	86.439
Total: Secondary Distribution	Quantity	8	10	22	-	22	8	23	14	-
	Total Obligation Authority	3.901	3.978	44.965	-	44.965	34.303	47.841	56.068	86.439

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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 (MIP)	P-5a, P-21		- / 121.779	8 / 3.901	10 / 3.978	10 / 4.055	- / -	10 / 4.055
P-5	BZ9753 / Prophet Enhanced Modifications (MIP)	P-5a, P-21		- / -	- / -	- / -	12 / 40.910	- / -	12 / 40.910
P-40	Total Gross/Weapon System Cost			- / 121.779	8 / 3.901	10 / 3.978	22 / 44.965	- / -	22 / 44.965

*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 2017 Base procurement funding in the amount of \$4.055 million will support the procurement, integration, and documentation of the next generation Manpack receiver signal-of-interest (SOI) enhancement for Prophet Enhanced. An upgraded Manpack capability will ensure that Prophet remains relevant against modern threats, providing an open architecture that allows capability integration to address advanced signal types in a constantly changing spectrum environment.

FY 2017 Base procurement funding in the amount of \$40.910 million supports the modernization of 12 legacy systems, plus associated support, integration and testing for these systems. FY2017 Training/Fielding represents the delivery and New Equipment Training (NET) of the FY2016 PE systems on the current production contract.

All funding is for the Active component.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)	Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	8	10	10	-	10
Gross/Weapon System Cost (\$ in Millions)	121.779	3.901	3.978	4.055	-	4.055
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	121.779	3.901	3.978	4.055	-	4.055
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	121.779	3.901	3.978	4.055	-	4.055

(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)	-	487.625	397.800	405.500	-	405.500

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Next Generation Stationary Receiver ^(†)	-	-	2.409	780.500	2	1.561	-	-	-	-	-	-	-	-	-	-	-	-
Advanced Processor ^(†)	-	-	119.370	390.000	6	2.340	-	-	-	-	-	-	-	-	-	-	-	-
Next Generation SIGINT Hardware ^(†)	-	-	-	-	-	-	397.800	10	3.978	-	-	-	-	-	-	-	-	-
Next Generation Hardware (Manpack) ^(†)	-	-	-	-	-	-	-	-	-	250.000	10	2.500	-	-	-	250.000	10	2.500
Software Upgrades & Integration	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Logistics Products	-	-	-	-	-	-	-	-	-	-	-	0.555	-	-	-	-	-	0.555
Subtotal: Recurring Cost	-	-	121.779	-	-	3.901	-	-	3.978	-	-	4.055	-	-	-	-	-	4.055
Subtotal: Flyaway Cost	-	-	121.779	-	-	3.901	-	-	3.978	-	-	4.055	-	-	-	-	-	4.055
Gross/Weapon System Cost	-	-	121.779	487.625	8	3.901	397.800	10	3.978	405.500	10	4.055	-	-	-	405.500	10	4.055

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	8	10	10	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)	Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	3.901	3.978	4.055	-	4.055
Total:	Quantity	8	10	10	-	10
Secondary Distribution	Total Obligation Authority	3.901	3.978	4.055	-	4.055

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)				Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)					

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
Next Generation Stationary Receiver ^(†)		2015	General Dynamics C4 Division / Scottsdale, AZ	C / FFP	APG, MD	Feb 2015	Oct 2015	2	780.500			
Advanced Processor ^(†)		2015	General Dynamics C4 Division / Scottsdale, AZ	C / FFP	APG, MD	Feb 2015	Oct 2015	6	390.000			
Next Generation SIGINT Hardware ^(†)		2016	General Dynamics C4 Division / Scottsdale, AZ	C / FFP	APG, MD	Nov 2015	Nov 2016	10	397.800			
Next Generation Hardware (Manpack) ^(†)		2017	TBD / TBD	TBD	TBD	Feb 2017	Nov 2017	10	250.000			

^(†) indicates the presence of a P-21

Remarks:

Next Generation SIGINT Hardware includes the Manpack receiver. Contractor's production strategy is to build systems from sub-assembly level to parent assembly over the production lifecycle. GD utilizes cross-trained personnel for other GD requirements during months when PROPHET systems are not in production (no gap in production line).

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Exhibit P-21, Production Schedule: PB 2017 Army			Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)	Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												B A L A N C E	
O C 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
Next Generation Stationary Receiver																															
	1	2015	ARMY	2	2	-																									
Advanced Processor																															
	2	2015	ARMY	6	6	-																									
Next Generation SIGINT Hardware																															
	3	2016	ARMY	10	-	10	-	2	2	2	2	2																			
Next Generation Hardware (Manpack)																															
	4	2017	ARMY	10	-	10					A	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2					
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)
		Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	General Dynamics C4 Division - Scottsdale, AZ	2	3	4	4	7	7	14	-	-	-	-
2	General Dynamics C4 Division - Scottsdale, AZ	2	3	4	4	7	7	14	-	-	-	-
3	General Dynamics C4 Division - Scottsdale, AZ	2	3	4	4	7	7	14	-	-	-	-
4	TBD - TBD	2	3	4	8	3	9	12	-	-	-	-

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)
		Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	12	-	12
Gross/Weapon System Cost (\$ in Millions)	-	-	-	40.910	-	40.910
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	40.910	-	40.910
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	40.910	-	40.910

(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)	-	-	-	3,409.167	-	3,409.167

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Modernization ⁽¹⁾	-	-	-	-	-	-	-	-	-	1,200.000	12	14.400	-	-	-	1,200.000	12	14.400
Integration & Testing	-	-	-	-	-	-	-	-	-	-	-	6.344	-	-	-	-	-	6.344
Program Quality Management	-	-	-	-	-	-	-	-	-	-	-	2.850	-	-	-	-	-	2.850
GFE	-	-	-	-	-	-	-	-	-	-	-	0.465	-	-	-	-	-	0.465
Software Engineering	-	-	-	-	-	-	-	-	-	-	-	3.294	-	-	-	-	-	3.294
Project Management Costs	-	-	-	-	-	-	-	-	-	-	-	3.273	-	-	-	-	-	3.273
Training/Fielding/ Depot Support	-	-	-	-	-	-	-	-	-	-	-	9.334	-	-	-	-	-	9.334
Matrix Support	-	-	-	-	-	-	-	-	-	-	-	0.950	-	-	-	-	-	0.950
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	40.910	-	-	-	-	-	40.910
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	40.910	-	-	-	-	-	40.910
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	3,409.167	12	40.910	-	-	-	3,409.167	12	40.910

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	12	-	12

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)	Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP)

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	-	-	40.910	-	40.910
Total:	Quantity	-	-	12	-	12
Secondary Distribution	Total Obligation Authority	-	-	40.910	-	40.910

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)				Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP)					
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
Prophet Enhanced Legacy Modernization ^(†)		2017	TBD / TBD	TBD	TBD	Feb 2017	Nov 2017	12	1,200.000			

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80										P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)										Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017											Fiscal Year 2018											BALANCE	
O C 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

Prophet Enhanced Legacy Modernization																																
1	2017	ARMY		12	-	12					A	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2						-

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UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army								Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80				P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)				Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP)			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	2	3	4	8	3	9	12	-	-	-	-

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604321A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	485	437	437	-	437	438	439	438	437	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	310.955	14.302	11.402	7.658	7.233	14.891	7.815	8.092	8.250	8.424	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	310.955	14.302	11.402	7.658	7.233	14.891	7.815	8.092	8.250	8.424	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	310.955	14.302	11.402	7.658	7.233	14.891	7.815	8.092	8.250	8.424	Continuing	Continuing

(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>)	-	29.489	26.092	17.524	-	34.076	17.842	18.433	18.836	19.277	Continuing	Continuing

Description:

The Counterintelligence (CI) and Human Intelligence (HUMINT) Automated Reporting and Collection System (CHARCS) is the Army's CI and HUMINT tactical collection and reporting system. CHARCS provides automation support for information collection, reporting, investigations, source & interrogation operations and document exploitation. The CHARCS automation architecture extends from the individual HUMINT team soldier or CI agent to the Corps. CHARCS reports digital data such as maps, overlays, images, video, biometrics, scanned documents and audio files. These media are transmitted through secure networks and interfaces with the Distributed Common Ground Systems-Army (DCGS-A) for detailed analysis and creation of finished intelligence products. Collection and reporting teams at Military Intelligence (MI) battalions and their operational managers are equipped with one of two CHARCS systems. The first is the AN/PYQ-8 Individual Tactical Reporting Tool (ITRT) which provides collection and processing devices for individual HUMINT team member or CI agents. The second is the AN/PYQ-3 CI/HUMINT Automated Tool Set (CHATS) which provides the team leader (who normally directs 3-5 team members) and Operational Management Team (OMT) tools to process and manage team-collected information and a robust set of devices such as printers, scanners, and cameras to assist the collection mission. The CHATS is also used by Operational Management Team (OMT) (who normally directs 3-5 collection and reporting teams). Each CHATS has an associated Mission Support Peripheral Sets and Kits (MS-PSK) or Collection Peripheral Sets and Kits (C-PSK).

The C-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions. C-PSK capabilities are commercial-off-the-shelf (COTS) technologies and include video and camera equipment, global positioning system (GPS), voice recording device and infrared strobe lights. The MS-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions. MS-PSK capabilities are COTS technologies and include night vision photography & video, captured materiel tracking, digital media forensics software, and Document Exploitation (DOCEX) software.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	190	289	160	-	160	201	172	163	289
	Total Obligation Authority	13.092	10.715	6.362	7.233	13.595	6.708	6.842	6.963	7.737
ANG	Quantity	135	53	150	-	150	142	122	83	53
	Total Obligation Authority	0.554	0.249	0.707	-	0.707	0.669	0.569	0.391	0.249
AR	Quantity	160	95	127	-	127	95	145	192	95
	Total Obligation Authority	0.656	0.438	0.589	-	0.589	0.438	0.681	0.896	0.438
Total:	Quantity	485	437	437	-	437	438	439	438	437

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604321A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	14.302	11.402	7.658	7.233	14.891	7.815	8.092	8.250	8.424

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604321A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)	P-5a		- / 310.955	485 / 14.302	437 / 11.402	437 / 7.658	- / 7.233	437 / 14.891
P-40	Total Gross/Weapon System Cost			- / 310.955	485 / 14.302	437 / 11.402	437 / 7.658	- / 7.233	437 / 14.891

*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 2017 Base funding in the amount of \$7.658 million procures mission equipment, supports fielding, training, logistic and mission equipment refresh to Army Resourcing Priority List (ARPL) units.

FY 2017 OCO funding in the amount of \$7.233 million will reset and recapitalize Cellular Exploitation (CELLEX) Kits and Document Exploitation (DOCEX) Kits.

CHARCS AAO: 5198 (CHATS and ITRTs)

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)	Item Number / Title [DODIC]: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	485	437	437	-	437
Gross/Weapon System Cost (\$ in Millions)	310.955	14.302	11.402	7.658	7.233	14.891
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	310.955	14.302	11.402	7.658	7.233	14.891
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	310.955	14.302	11.402	7.658	7.233	14.891

(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)	-	29.489	26.092	17.524	-	34.076

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
--Replacement Parts ^(†)	-	-	-	150.000	1	0.150	-	-	-	-	-	-	-	-	-	-	-	-
--Laptops & HDs for CHATS and ITRTs ^(†)	-	-	-	3.322	485	1.611	4.101	437	1.792	4.199	437	1.835	-	-	-	4.199	437	1.835
--Cellular Exploitation (CELLEX) Kits ^(†)	-	-	-	-	-	-	14.324	34	0.487	15.438	32	0.494	15.217	230	3.500	15.244	262	3.994
--Document Exploitation (DOCEX) Kits ^(†)	-	-	-	-	-	-	-	-	-	16.467	30	0.494	16.230	230	3.733	16.258	260	4.227
Bio Handheld Devices (PM Biometrics) ^(†)	-	-	68.205	7.552	915	6.910	7.005	551	3.860	-	-	-	-	-	-	-	-	-
PMO Government Support	3,935.400	10	39.354	-	-	0.611	-	-	0.354	-	-	0.525	-	-	-	-	-	0.525
System Engineering/ Technical Assistance	-	-	-	-	-	1.916	-	-	1.801	-	-	1.000	-	-	-	-	-	1.000
CHARCS Life Cycle Support (LCMC CECOM)	-	-	-	-	-	0.104	-	-	0.108	-	-	0.110	-	-	-	-	-	0.110
Fielding/Logistics/ Training/Initial Sust	2,033.960	100	203.396	-	-	3.000	-	-	3.000	-	-	3.200	-	-	-	-	-	3.200
Subtotal: Recurring Cost	-	-	310.955	-	-	14.302	-	-	11.402	-	-	7.658	-	-	7.233	-	-	14.891
Subtotal: Flyaway Cost	-	-	310.955	-	-	14.302	-	-	11.402	-	-	7.658	-	-	7.233	-	-	14.891

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)	Item Number / Title [DODIC]: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	310.955	29.489	485	14.302	26.092	437	11.402	17.524	437	7.658	-	-	7.233	34.076	437	14.891

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	190	289	160	-	160
	Total Obligation Authority	13.092	10.715	6.362	7.233	13.595
ANG	Quantity	135	53	150	-	150
	Total Obligation Authority	0.554	0.249	0.707	-	0.707
AR	Quantity	160	95	127	-	127
	Total Obligation Authority	0.656	0.438	0.589	-	0.589
Total:	Quantity	485	437	437	-	437
Secondary Distribution	Total Obligation Authority	14.302	11.402	7.658	7.233	14.891

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)					Item Number / Title [DODIC]: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS)				

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
--Replacement Parts		2015	ROMO Contract / Chantilly, VA	C / CPFF	Chantilly, VA	Dec 2014	Mar 2015	1	150.000			
--Laptops & HDs for CHATS and ITRTs		2015	CHS / APG, MD	C / CPFF	APG, MD	Dec 2014	Mar 2015	485	3.322			
--Laptops & HDs for CHATS and ITRTs		2016	CHS / APG, MD	C / CPFF	APG, MD	Feb 2016	May 2016	437	4.101			
--Laptops & HDs for CHATS and ITRTs		2017	CHS / APG, MD	C / CPFF	APG, MD	Nov 2016	Feb 2017	437	4.199			
--Cellular Exploitation (CELLEX) Kits		2016	ROMO Contract / Chantilly, VA	C / CPFF	Chantilly, VA	Feb 2016	Mar 2016	34	14.324			
--Cellular Exploitation (CELLEX) Kits		2017	TBD / TBD	C / TBD	TBD	Jan 2017	Mar 2017	262	15.244			
--Document Exploitation (DOCEX) Kits		2017	TBD / TBD	C / TBD	TBD	Jan 2017	Mar 2017	260	16.258			
Bio Handheld Devices (PM Biometrics)		2015	Leidos / Alexandria, VA	C / FFP	Alexandria, VA	Dec 2014	Mar 2015	915	7.552			
Bio Handheld Devices (PM Biometrics)		2016	Leidos / Alexandria, VA	C / FFP	Alexandria, VA	Jan 2016	Apr 2016	551	7.005			

Remarks:
Equipment is comprised solely of COTS equipment with COTS/GOTS software.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B10001 / Close Access Target Reconnaissance (CATR)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	24	24	-	24	24	24	24	24	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	8.010	7.970	-	7.970	8.050	7.999	8.064	9.830	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	8.010	7.970	-	7.970	8.050	7.999	8.064	9.830	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	8.010	7.970	-	7.970	8.050	7.999	8.064	9.830	Continuing	Continuing

(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>)	-	-	333.750	332.083	-	332.083	335.417	333.292	336.000	409.583	Continuing	Continuing

Description:

Close Access Target Reconnaissance (CATR) is a kit of electronic devices that acquires, collects, and transmits data to provide near real time feedback in order to validate, follow, locate, or track a target (i.e., tagging, tracking, and locating (TTL)). CATR will use electronic audio and or video recorders to obtain information which is used to validate movement and identify targets. In addition, CATR allows for threat monitoring that can be integrated into existing operational tools, help to paint a clearer picture of the battlefield, pinpoint possible target locations, and identify and exploit enemy movements and patterns.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	24	19	-	19	16	15	16	11
Total Obligation Authority	-	8.010	6.303	-	6.303	5.356	5.001	5.375	4.468
ANG									
Quantity	-	-	5	-	5	8	9	8	13
Total Obligation Authority	-	-	1.667	-	1.667	2.694	2.998	2.689	5.362
Total: Secondary Distribution									
Quantity	-	24	24	-	24	24	24	24	24
Total Obligation Authority	-	8.010	7.970	-	7.970	8.050	7.999	8.064	9.830

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B10001 / Close Access Target Reconnaissance (CATR)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B10002 / Close Access Target Recon Increment 1 (CATR)			- / -	- / -	24 / 8.010	24 / 7.970	- / -	24 / 7.970
P-40	Total Gross/Weapon System Cost			- / -	- / -	24 / 8.010	24 / 7.970	- / -	24 / 7.970

*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 2017 Base procurement dollars in the amount of \$7.970 million supports the fielding of 24 CATR sets to four (4) Brigade Combat teams (BCTs). Funds will refresh and re-kit existing Quick Reaction Capability (QRC) sets/systems at Bluegrass Station Kentucky for the Program of Record (POR) sets/system configuration.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: B10001 / Close Access Target Reconnaissance (CATR)	Item Number / Title [DODIC]: B10002 / Close Access Target Recon Increment 1 (CATR)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	24	24	-	24
Gross/Weapon System Cost (\$ in Millions)	-	-	8.010	7.970	-	7.970
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	8.010	7.970	-	7.970
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	8.010	7.970	-	7.970

(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)	-	-	333.750	332.083	-	332.083

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Engineering Support	-	-	-	-	-	-	-	-	1.083	-	-	1.078	-	-	-	-	-	1.078
Program Management Office	-	-	-	-	-	-	-	-	0.361	-	-	0.359	-	-	-	-	-	0.359
Logistics Support (Bluegrass Station)	-	-	-	-	-	-	-	-	0.980	-	-	0.976	-	-	-	-	-	0.976
Total Package Fielding	-	-	-	-	-	-	-	-	3.153	-	-	3.137	-	-	-	-	-	3.137
Comms Architecture - Supporting NET	-	-	-	-	-	-	-	-	2.433	-	-	2.420	-	-	-	-	-	2.420
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	8.010	-	-	7.970	-	-	-	-	-	7.970
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	8.010	-	-	7.970	-	-	-	-	-	7.970
Gross/Weapon System Cost	-	-	-	-	-	-	333.750	24	8.010	332.083	24	7.970	-	-	-	332.083	24	7.970

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	24	19	-	19
	Total Obligation Authority	-	8.010	6.303	-	6.303
ANG	Quantity	-	-	5	-	5
	Total Obligation Authority	-	-	1.667	-	1.667
Total:	Quantity	-	24	24	-	24

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Exhibit P-5, Cost Analysis: PB 2017 Army			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: B10001 / Close Access Target Reconnaissance (CATR)		Item Number / Title [DODIC]: B10002 / Close Access Target Recon Increment 1 (CATR)		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	-	8.010	7.970	-	7.970

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B88605 / Machine Foreign Language Translation System-MFLTS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604321A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	24.620	-	8.125	0.545	-	0.545	-	-	-	-	-	33.290
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	24.620	-	8.125	0.545	-	0.545	-	-	-	-	-	33.290
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	24.620	-	8.125	0.545	-	0.545	-	-	-	-	-	33.290

(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 Machine Foreign Language Translation System (MFLTS), formerly named Sequoyah, develops, fields, and sustains a basic automated foreign speech and text translation capability for Army tactical systems to augment and compliment limited human linguistic resources. These integrated automated translation capabilities will be applicable across three different system configurations; a hand-held/wearable portable device, a laptop/mobile device, and in a networked/web-enabled system. The software modules will translate English from a prioritized list of languages in a prioritized collection of domains (e.g. medical, intelligence, base security). MFLTS is interoperable with Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) automation equipment to include the Distributed Common Ground System-Army (DCGS-A) and Nett Warrior, and will be interoperable with a future version of the CI/HUMINT Automated Reporting and Collection System (CHARCS).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	8.125	0.545	-	0.545	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	8.125	0.545	-	0.545	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B88605 / Machine Foreign Language Translation System-MFLTS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604321A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B88605 / Machine Foreign Language Translation System-MFLTS			- / 24.620	- / -	- / 8.125	- / 0.545	- / -	- / 0.545
P-40	Total Gross/Weapon System Cost			- / 24.620	- / -	- / 8.125	- / 0.545	- / -	- / 0.545

*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 2017 Base procurement dollars in the amount of \$.545 million supports program management and integrated logistics support.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: B88605 / Machine Foreign Language Translation System-MFLTTS	Item Number / Title [DODIC]: B88605 / Machine Foreign Language Translation System-MFLTTS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	24.620	-	8.125	0.545	-	0.545
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	24.620	-	8.125	0.545	-	0.545
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	24.620	-	8.125	0.545	-	0.545

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
MFLTTS Software License Fees	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	-	-	-	-
Initial Capability Production Contract	-	-	-	-	-	-	-	-	2.600	-	-	-	-	-	-	-	-	-
Integrated Logistics Support	-	-	-	-	-	-	-	-	1.200	-	-	0.335	-	-	-	-	-	0.335
PMO Support	-	-	-	-	-	-	-	-	0.325	-	-	0.210	-	-	-	-	-	0.210
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	8.125	-	-	0.545	-	-	-	-	-	0.545
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	8.125	-	-	0.545	-	-	-	-	-	0.545
Hardware Cost																		
Non Recurring Cost																		
Quick Reaction Capabilities (QRC)	-	-	24.620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	24.620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	24.620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	24.620	-	-	-	-	-	8.125	-	-	0.545	-	-	-	-	-	0.545

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: B88605 / Machine Foreign Language Translation System-MFLTS	Item Number / Title [DODIC]: B88605 / Machine Foreign Language Translation System-MFLTS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	8.125	0.545	-	0.545
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	8.125	0.545	-	0.545

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK5300 / Biometric Tactical Collection Devices (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	2,000	2,000	-	-	-	-	-	2,000
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	5.670	5.670	-	-	-	-	-	5.670
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	5.670	5.670	-	-	-	-	-	5.670
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	5.670	5.670	-	-	-	-	-	5.670

(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>)	-	-	-	-	2.835	2.835	-	-	-	-	-	2.835

Description:

The Army has two biometric tactical collection devices, the Biometric Automated Toolset-Army (BAT-A) Kit and BAT-A Handheld (HH). These two devices support the Army Force Protection Mission and Identity Dominance Mission. The devices collect, match, store and share biometric and contextual information on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals. Recipients of collected biometric and contextual information include DoD organizations, other U.S. government agencies, and Coalition Partners. The capability has been deployed in a combat zone for the past decade and continued use in Afghanistan is projected based on the precedent set during the U.S. withdrawal from Iraq. The devices are also used by non-Military Intelligence personnel (Infantry and Military Police). The devices provide the Army tactical biometric collection capability to capture an adversary or neutral person's biometric data and enroll them into the DoD enterprise authoritative biometric database to positively identify and verify the identity of actual or potential adversaries. U.S. forces are currently operating unilaterally or in combination with joint, multinational, and interagency partners, to identify unknown individuals and verify the identity of person(s) across the full range of military operations.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	2,000	2,000	-	-	-
	Total Obligation Authority	-	-	-	5.670	5.670	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	2,000	2,000	-	-	-
	Total Obligation Authority	-	-	-	5.670	5.670	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BK5300 / Biometric Tactical Collection Devices (MIP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BK5301 / Biometrics Automated Toolset - Army (BAT-A) (MIP)	P-5a		- / -	- / -	- / -	- / -	2,000 / 5.670	2,000 / 5.670
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	2,000 / 5.670	2,000 / 5.670

*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 2017 Overseas Contingency Operations (OCO) procurement funding in the amount of \$5.670 million procures hardware required to reset obsolete peripherals in support of two (2) contingency operations. Funding provides reset of 770 Iris Capture Devices and 770 Fingerprint Capture Devices to refresh obsolete peripherals in support of Operation Freedom's Sentinel (OFS) - (\$4,366). Also, funding provides reset of 230 Iris Capture Devices and 230 Fingerprint Capture Devices to refresh obsolete peripherals in support of Operation Inherent Resolve for ISIL (OIS) - (\$1,304).

The Biometric Automated Toolset - Army (BAT-A) requires both hardware reset and associated minor software integration to maintain operational viability. These devices have been in Iraq and Afghanistan well beyond the standard 3 – 6 years of useful electronic equipment life. BAT-A is the Army's Biometric Program of Record and failure to reset these devices will degrade the mission effectiveness of this enabler of Identity Dominance and Force Protection.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: BK5300 / Biometric Tactical Collection Devices (MIP)	Item Number / Title [DODIC]: BK5301 / Biometrics Automated Toolset - Army (BAT-A) (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	2,000	2,000
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	-	5.670	5.670
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	-	5.670	5.670
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	-	5.670	5.670

(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>)	-	-	-	-	2.835	2.835

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Iris and Fingerprint Capture Devices ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	2.835	2,000	5.670	2.835	2,000	5.670
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.670	-	-	5.670
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.670	-	-	5.670
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	2.835	2,000	5.670	2.835	2,000	5.670

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	2,000	2,000
	Total Obligation Authority	-	-	-	5.670	5.670
Total:	Quantity	-	-	-	2,000	2,000
Secondary Distribution	Total Obligation Authority	-	-	-	5.670	5.670

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: BK5300 / Biometric Tactical Collection Devices (MIP)					Item Number / Title [DODIC]: BK5301 / Biometrics Automated Toolset - Army (BAT-A) (MIP)				
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
Iris and Fingerprint Capture Devices	✓	2017	MANTECH Advanced Systems / Fairfax	C / CR	CECOM	Mar 2017	Apr 2017	2,000	2.835			

Remarks:
All items being procured are COTS/GOTS.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: B05201 / Lightweight Counter Mortar Radar
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	286	3	36	46	18	64	-	-	-	-	-	389
Gross/Weapon System Cost (<i>\$ in Millions</i>)	615.395	29.358	63.472	74.038	25.892	99.930	10.855	9.618	-	-	-	828.628
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	615.395	29.358	63.472	74.038	25.892	99.930	10.855	9.618	-	-	-	828.628
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	615.395	29.358	63.472	74.038	25.892	99.930	10.855	9.618	-	-	-	828.628

(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>)	2,151.731	9,786.000	1,763.111	1,609.522	1,438.444	1,561.406	-	-	-	-	-	2,130.149

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 battle command systems (BCSs) 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 Sentinel (OFS).

Army Acquisition Objective (AAO): 400

	Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	2	20	29	18	47	-	-	-	-
	Total Obligation Authority	20.548	35.260	46.570	25.892	72.462	5.655	6.284	-	-
ANG	Quantity	1	16	17	-	17	-	-	-	-
	Total Obligation Authority	8.810	28.212	27.468	-	27.468	5.200	3.334	-	-
Total: Secondary Distribution	Quantity	3	36	46	18	64	-	-	-	-
	Total Obligation Authority	29.358	63.472	74.038	25.892	99.930	10.855	9.618	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: B05201 / Lightweight Counter Mortar Radar
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B05201 / Lightweight Counter Mortar Radar	P-5a, P-21		286 / 615.395	3 / 29.358	36 / 63.472	46 / 74.038	18 / 25.892	64 / 99.930
P-40	Total Gross/Weapon System Cost			286 / 615.395	3 / 29.358	36 / 63.472	46 / 74.038	18 / 25.892	64 / 99.930

*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 (FY) 2017 OPA Base funds of \$74.038 million will support the procurement of 46 AN/TPQ-50 Full Rate Production (FRP) systems.

The FY17 OCO includes \$25.892 million to support the Combatant Command (COCOM) requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include 18 AN/TPQ-50 radars.

- Current force structure is:
- Twelve (12) radars per IFPC, Air Defense Artillery (ADA) Battalion
 - Four (4) radars per Brigade Combat Team (BCT)
 - Two (2) radars per Field Artillery Brigade (FAB)
 - Two (2) radars per Division Artillery (DIVARTY)
 - Two (2) radars per Special Troops Battalion, Ranger Regiment
 - One (1) radar per Special Forces Battalion (SFB)
 - One (1) radar per Support Battalion SF Group (SFG)
 - One (1) radar per Ranger Battalion

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

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83		P-1 Line Item Number / Title: B05201 / Lightweight Counter Mortar Radar
		Item Number / Title [DODIC]: B05201 / Lightweight Counter Mortar Radar

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	286	3	36	46	18	64
Gross/Weapon System Cost (\$ in Millions)	615.395	29.358	63.472	74.038	25.892	99.930
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	615.395	29.358	63.472	74.038	25.892	99.930
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	615.395	29.358	63.472	74.038	25.892	99.930

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,151.731	9,786.000	1,763.111	1,609.522	1,438.444	1,561.406

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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-50 (LCMR V3) ^(f)	1,255.636	286	359.112	1,108.137	3	3.324	1,108.139	36	39.893	1,119.174	46	51.482	1,418.444	18	25.532	1,203.344	64	77.014
Engineering Change Orders	-	-	3.560	-	-	5.429	-	-	3.496	-	-	1.155	-	-	-	-	-	1.155
Acceptance and Live Fire Testing	-	-	28.957	-	-	0.954	-	-	0.368	-	-	0.920	-	-	0.360	-	-	1.280
Integrated Logistics Support	-	-	13.732	-	-	2.376	-	-	1.673	-	-	1.996	-	-	-	-	-	1.996
Interim Contractor Support (ICS)	-	-	35.177	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering	-	-	39.582	-	-	2.562	-	-	3.779	-	-	1.633	-	-	-	-	-	1.633
Fielding	-	-	95.165	-	-	10.812	-	-	11.302	-	-	12.777	-	-	-	-	-	12.777
Program Management Support	-	-	40.110	-	-	2.901	-	-	2.961	-	-	4.075	-	-	-	-	-	4.075
<i>Subtotal: Recurring Cost</i>	-	-	615.395	-	-	29.358	-	-	63.472	-	-	74.038	-	-	25.892	-	-	99.930
<i>Subtotal: Flyaway Cost</i>	-	-	615.395	-	-	29.358	-	-	63.472	-	-	74.038	-	-	25.892	-	-	99.930
Gross/Weapon System Cost	2,151.731	286	615.395	9,786.000	3	29.358	1,763.111	36	63.472	1,609.522	46	74.038	1,438.444	18	25.892	1,561.406	64	99.930

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: B05201 / Lightweight Counter Mortar Radar	Item Number / Title [DODIC]: B05201 / Lightweight Counter Mortar Radar

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	2	20	29	18	47
	Total Obligation Authority	20.548	35.260	46.570	25.892	72.462
ANG	Quantity	1	16	17	-	17
	Total Obligation Authority	8.810	28.212	27.468	-	27.468
Total:	Quantity	3	36	46	18	64
Secondary Distribution	Total Obligation Authority	29.358	63.472	74.038	25.892	99.930

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83			P-1 Line Item Number / Title: B05201 / Lightweight Counter Mortar Radar				Item Number / Title [DODIC]: B05201 / Lightweight Counter Mortar Radar					

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 AN/TPQ-50 (LCMR V3) ^(†)		2015	SRCTec Inc / North Syracuse	SS / FFP	CECOM	Mar 2016	Mar 2017	3	1,108.137			
Hardware AN/TPQ-50 (LCMR V3) ^(†)		2016	SRCTec Inc. / North Syracuse	SS / FFP	CECOM	Mar 2016	Mar 2017	36	1,108.139			
Hardware AN/TPQ-50 (LCMR V3) ^(†)		2017	SRCTec Inc. / North Syracuse	SS / FFP	CECOM	Mar 2017	Mar 2018	64	1,203.344			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83										P-1 Line Item Number / Title: B05201 / Lightweight Counter Mortar Radar										Item Number / Title [DODIC]: B05201 / Lightweight Counter Mortar Radar									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018															Fiscal Year 2019												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018															Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Hardware AN/TPQ-50 (LCMR V3)																																		
Prior Years Deliveries: 286																																		
	1	2015	ARMY	3	3	-																							-					
	2	2016	ARMY	36	21	15	3	3	3	3	3																		-					
	3	2017	ARMY	64	-	64	-	-	-	-	-	6	6	6	6	5	5	5	5	5	5	5	5						-					
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83		P-1 Line Item Number / Title: B05201 / Lightweight Counter Mortar Radar
		Item Number / Title [DODIC]: B05201 / Lightweight Counter Mortar Radar

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	SRCTec Inc - North Syracuse	36	120	240	-	-	-	-	-	5	12	17
2	SRCTec Inc. - North Syracuse	36	120	240	-	-	-	-	-	5	12	17
3	SRCTec Inc. - North Syracuse	36	120	240	-	-	-	-	-	5	12	17

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: K00002 / EW Planning & Management Tools (EWPMT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.013	-	2.556	3.235	-	3.235	5.805	5.947	6.061	19.135	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.013	-	2.556	3.235	-	3.235	5.805	5.947	6.061	19.135	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.013	-	2.556	3.235	-	3.235	5.805	5.947	6.061	19.135	Continuing	Continuing

(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:

Electronic Warfare Planning and Management Tools (EWPMT) is an Automated Information System that utilizes an Information Technology (IT) box software (S/W) strategy. EWPMT will provide planning capabilities to coordinate, manage, and deconflict unit Electronic Warfare (EW) activities; employ EW assets to conduct offensive EW targeting, and synchronize EW spectrum operations with an Effects/Fires Cell as an element of Mission Command. EWPMT is a suite of software tools and applications that will provide a spectrum Common Operating Picture (COP) for the Electronic Warfare Officer (EWO). EWPMT will integrate data elements from Mission Command, Intelligence, and Fires to achieve situational awareness of the Electromagnetic Operational Environment.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	2.556	3.235	-	3.235	5.805	5.947	6.061	19.135
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	2.556	3.235	-	3.235	5.805	5.947	6.061	19.135

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: K00002 / EW Planning & Management Tools (EWPMT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	K00002 / EW Planning & Management Tools (EWPMT)			- / 0.013	- / -	- / 2.556	- / 3.235	- / -	- / 3.235
P-40	Total Gross/Weapon System Cost			- / 0.013	- / -	- / 2.556	- / 3.235	- / -	- / 3.235

*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:
 FY2017 Base procurement dollars in the amount of \$3.235 million supports New Equipment Training (NET), Interim Contractor Support (ICS) and Program Management (PM).

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: K00002 / EW Planning & Management Tools (EWPMT)	Item Number / Title [DODIC]: K00002 / EW Planning & Management Tools (EWPMT)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.013	-	2.556	3.235	-	3.235
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.013	-	2.556	3.235	-	3.235
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.013	-	2.556	3.235	-	3.235

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Recurring Cost																		
EWPMT Interim Contractor Support	-	-	-	-	-	-	-	-	1.763	-	-	2.364	-	-	-	-	-	2.364
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	1.763	-	-	2.364	-	-	-	-	-	2.364
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	1.763	-	-	2.364	-	-	-	-	-	2.364
Logistics Cost																		
Recurring Cost																		
EWPMT New Equipment Training (NET)	-	-	-	-	-	-	-	-	0.614	-	-	0.626	-	-	-	-	-	0.626
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.614	-	-	0.626	-	-	-	-	-	0.626
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	0.614	-	-	0.626	-	-	-	-	-	0.626
Support - Program Management Cost																		
Government Management	-	-	0.013	-	-	-	-	-	0.179	-	-	0.245	-	-	-	-	-	0.245
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.013	-	-	-	-	-	0.179	-	-	0.245	-	-	-	-	-	0.245
Gross/Weapon System Cost	-	-	0.013	-	-	-	-	-	2.556	-	-	3.235	-	-	-	-	-	3.235

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: K00002 / EW Planning & Management Tools (EWPMT)	Item Number / Title [DODIC]: K00002 / EW Planning & Management Tools (EWPMT)

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	2.556	3.235	-	3.235
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	2.556	3.235	-	3.235

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: W60001 / Air Vigilance (AV)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603766A, 0605766A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.000	8.224	0.733	-	0.733	1.518	2.484	2.533	2.585	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.000	8.224	0.733	-	0.733	1.518	2.484	2.533	2.585	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.000	8.224	0.733	-	0.733	1.518	2.484	2.533	2.585	Continuing	Continuing

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

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

Description:

Air Vigilance systems collect critical intelligence data on emerging threat aerial systems. The intelligence data provides early warning of operations in restricted airspace to ensure force protection. An Air Vigilance system is comprised of a key 'Hub' server unit configured and fielded with a single or multiple sub-component sensors. System Quantities are based upon 'Hub' units. Operational details are classified.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.000	8.224	0.733	-	0.733	1.518	2.484	2.533	2.585
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.000	8.224	0.733	-	0.733	1.518	2.484	2.533	2.585

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) **P-1 Line Item Number / Title:**
 W60001 / Air Vigilance (AV)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0603766A, 0605766A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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, P-21		- / -	- / 7.000	- / 8.224	- / 0.733	- / -	- / 0.733
P-40	Total Gross/Weapon System Cost			- / -	- / 7.000	- / 8.224	- / 0.733	- / -	- / 0.733

*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 2017 Base procurement dollars in the amount of \$0.733 million procures 3 central servers (Hubs) for the operational force and provides for New Equipment Training. All funding is for Compo 1 (Active Component).

Comments:

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: W60001 / Air Vigilance (AV)	Item Number / Title [DODIC]: W60001 / Air Vigilance (AV)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	7.000	8.224	0.733	-	0.733
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	7.000	8.224	0.733	-	0.733
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	7.000	8.224	0.733	-	0.733

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Fielding and New Equipment Training	-	-	-	300.000	1	0.300	2,224.000	1	2.224	49.000	1	0.049	-	-	-	49.000	1	0.049
Systems Engineering	-	-	-	60.000	1	0.060	360.000	1	0.360	-	-	-	-	-	-	-	-	-
Sensor ^(t)	-	-	-	641.000	10	6.410	600.000	8	4.800	-	-	-	-	-	-	-	-	-
System Hub ^(t)	-	-	-	230.000	1	0.230	280.000	3	0.840	228.000	3	0.684	-	-	-	228.000	3	0.684
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	7.000	-	-	8.224	-	-	0.733	-	-	-	-	-	0.733
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	7.000	-	-	8.224	-	-	0.733	-	-	-	-	-	0.733
Gross/Weapon System Cost	-	-	-	-	-	7.000	-	-	8.224	-	-	0.733	-	-	-	-	-	0.733

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Total Obligation Authority	7.000	8.224	0.733	-	0.733
Total: Secondary Distribution	-	-	-	-	-
Total Obligation Authority	7.000	8.224	0.733	-	0.733

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: W60001 / Air Vigilance (AV)	Item Number / Title [DODIC]: W60001 / Air Vigilance (AV)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Sensor ^(†)		2015	Classified / Classified	C / FFP	Classified	Jan 2015	Mar 2015	10	641.000			
Sensor ^(†)		2016	Classified / Classified	C / FFP	Classified	Jan 2016	Mar 2016	8	600.000			
System Hub ^(†)		2015	Classified / Classified	C / FFP	Classified	Jan 2015	Mar 2015	1	230.000			
System Hub ^(†)		2016	Classified / Classified	C / FFP	Classified	Jan 2016	Mar 2016	3	280.000			
System Hub ^(†)		2017	Classified / Classified	C / FFP	Classified	Jan 2017	Mar 2017	3	228.000			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: W60001 / Air Vigilance (AV)	Item Number / Title [DODIC]: W60001 / Air Vigilance (AV)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016																
							O C T	N O V	D E C	J A N	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				
Sensor																																			
	1	2015	ARMY	10	-	10					A	-	-	1	1	1	1	2	2	2														-	
	1	2016	ARMY	8	-	8																													-
System Hub																																			
	2	2015	ARMY	1	-	1					A	-	-	1																				-	
	2	2016	ARMY	3	-	3																													-
	2	2017	ARMY	3	-	3																													3

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: W60001 / Air Vigilance (AV)	Item Number / Title [DODIC]: W60001 / Air Vigilance (AV)
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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
Sensor																															
	1	2015	ARMY	10	10	-																							-		
	1	2016	ARMY	8	8	-																							-		
System Hub																															
	2	2015	ARMY	1	1	-																							-		
	2	2016	ARMY	3	3	-																							-		
	2	2017	ARMY	3	-	3				A	-	-	1	1	1														-		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	B	A	P	A	U	U	U	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: W60001 / Air Vigilance (AV)	Item Number / Title [DODIC]: W60001 / Air Vigilance (AV)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Classified - Classified	1	12	36	-	-	-	-	-	-	-	-	-
2	Classified - Classified	1	12	36	-	-	-	-	-	-	-	-	-

"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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: VA8000 / CREW
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,487.601	-	2.960	-	-	-	-	-	-	-	-	1,490.561
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,487.601	-	2.960	-	-	-	-	-	-	-	-	1,490.561
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,487.601	-	2.960	-	-	-	-	-	-	-	-	1,490.561

(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 Counter Radio Controlled Improvised Explosive Devices (RCIED) Electronics Warfare (CREW) family of Electronic Counter Measure (ECM) systems are essential to provide force protection to Soldiers, fixed site locations and combat vehicle platforms for both Mounted and Dismounted Variants for 24/7 operations. CREW Dismounted capabilities are designed to protect Soldiers while conducting dismounted operations. Universal Test Set (UTS) is designed to test CREW systems before conduct of operations.

Dismounted CREW capabilities (THOR III/BALDR) and Universal Test Set (UTS) Quick Reaction Capabilities (QRC) will formally transition to a program of record (POR) in FY2016. Funding in FY2016 supports the activities required to obtain full material release (FMR) and formally transition to a program of record (POR).

This program is a new start in FY2016 for Dismounted CREW/Universal Test Set (UTS). FY2013 and prior funding supported the procurement of CREW-2 Duke systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	2.960	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	2.960	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: VA8000 / CREW
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	VA8000 / CREW			- / 1,487.601	- / -	- / 2.960	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,487.601	- / -	- / 2.960	- / -	- / -	- / -

*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:

This program does not have an FY 2017 budget request.

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

The CREW-2 Duke Army Acquisition Objective (AAO): 39,114.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: VA8000 / CREW	Item Number / Title [DODIC]: VA8000 / CREW

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,487.601	-	2.960	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,487.601	-	2.960	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,487.601	-	2.960	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Material Release	-	-	-	-	-	-	-	-	2.960	-	-	-	-	-	-	-	-	-
CREW Upgrades	-	-	199.811	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CREW-2 DV4 Procurement	102.000	20	2.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CREW-2 DV4 Tech Data Package (TDP)	-	-	6.118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CREW 2.1 ECPs/ Upgrades	-	-	925.883	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platform A-Kits	-	-	113.823	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spares	-	-	61.478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRE	-	-	9.999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Testing	-	-	13.247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integration	-	-	140.372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAT	-	-	1.218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Engineering	-	-	1.125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMO Ops	-	-	12.487	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,487.601</i>	-	-	-	-	-	<i>2.960</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,487.601</i>	-	-	-	-	-	<i>2.960</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1,487.601	-	-	-	-	-	2.960	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: VA8000 / CREW	Item Number / Title [DODIC]: VA8000 / CREW
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	2.960	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	2.960	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	241.600	32.083	16.569	1.740	11.610	13.350	-	-	-	-	-	303.602
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	241.600	32.083	16.569	1.740	11.610	13.350	-	-	-	-	-	303.602
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	241.600	32.083	16.569	1.740	11.610	13.350	-	-	-	-	-	303.602

(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 program of record comprised of 29 Large (formerly Persistent Threat Detection System (PTDS)) and 29 Medium (formerly Persistent Ground Surveillance System (PGSS)) sized Aerostats. PSS-T has been assigned to Army Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S). Both tethered Aerostats are equipped with high resolution Electro-Optical/Infrared (EO/IR) camera systems and wide-area assessment sensors. 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.

PTDS - The baseline configuration includes the US Army Research Lab's Unattended Transient Acoustic Measurement and Signature INTelligence (MASINT) System (UTAMS) which operationally cues the PTDS MX-20 EO/IR sensor 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 PTDS also includes the Joint Synchronization Information Transmitter (JSIT) Mini-Tactical Common Data Link transmitter that transmits MX-20 video stream to ground forces equipped with One System Remote Video Terminal. Expendable-Unattended Ground Sensor (E-UGS) enhances the PTDS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response. PTDS 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 and wide area motion imagery Kestrel sensors, Persistent Surveillance Systems (PSS) Slew to Cue, coded laser target designation, and Survivability enhancements.

The PGSS 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; transmitting weather data directly to AFWA via PGSS Weather Web, added dual sensor capability; 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 footstep traffic and provides improved situational awareness and facilitate tactical response.

	Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	32.083	16.569	1.740	11.610	13.350	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	32.083	16.569	1.740	11.610	13.350	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BL5287 / Family Of Persistent Surveillance Capabilities	P-5a, P-21		- / 241.600	- / 32.083	- / 16.569	- / 1.740	- / 11.610	- / 13.350
P-40	Total Gross/Weapon System Cost			- / 241.600	- / 32.083	- / 16.569	- / 1.740	- / 11.610	- / 13.350

*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 2017 Base procurement dollars in the amount of \$1.740 million supports the program management office.

FY 2017 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$11.610 million provides one complete tether-up kit for Operation Freedom Sentinel (OFS) and one complete tether-up kit for Operation Inherent Resolve (OIR).

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

All funds support the Active Component.

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Exhibit P-5, Cost Analysis: PB 2017 Army						Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83				P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities				Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities			
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:					
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total			
Procurement Quantity (Units in Each)			-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)			241.600	32.083	16.569	1.740	11.610	13.350	13.350	13.350	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			241.600	32.083	16.569	1.740	11.610	13.350	13.350	13.350	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)			241.600	32.083	16.569	1.740	11.610	13.350	13.350	13.350	
<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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Network Accreditation/Payload Int	-	-	-	-	-	9.968	-	-	-	-	-	-	-	-	-	-	-	-
Aerostat Envelope ^(†)	-	-	241.600	800.000	8	6.400	804.000	8	6.432	-	-	-	876.000	6	5.256	876.000	6	5.256
Tether-up kits ^(†)	-	-	-	284.000	4	1.136	-	-	-	-	-	-	-	-	-	-	-	-
Baseline Avionics Kits ^(†)	-	-	-	247.000	6	1.482	309.000	8	2.472	-	-	-	379.750	4	1.519	379.750	4	1.519
Tactical Common Data Link ^(†)	-	-	-	251.500	6	1.509	161.000	8	1.288	-	-	-	268.000	5	1.340	268.000	5	1.340
(MAPS) Frame Assembly ^(†)	-	-	-	384.000	7	2.688	-	-	-	-	-	-	-	-	-	-	-	-
Pressurization Avionics Unit ^(†)	-	-	-	-	-	-	241.000	8	1.928	-	-	-	281.000	5	1.405	281.000	5	1.405
High Antenna Radio Communications (B-Kit) ^(†)	-	-	-	-	-	-	331.000	7	2.317	-	-	-	335.000	5	1.675	335.000	5	1.675
ISR Turret (MX-15) ^(†)	-	-	-	900.000	2	1.800	-	-	-	-	-	-	-	-	-	-	-	-
Tether-up replacement ^(†)	-	-	-	600.400	5	3.002	-	-	-	-	-	-	-	-	-	-	-	-
Envelope replacements ^(†)	-	-	-	433.000	3	1.299	410.000	1	0.410	-	-	-	415.000	1	0.415	415.000	1	0.415

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities	Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
WISP WAS sensors ^(t)	-	-	-	933.000	3	2.799	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Office Support	-	-	-	-	-	-	-	-	1.722	-	-	1.740	-	-	-	-	-	1.740
<i>Subtotal: Recurring Cost</i>	-	-	241.600	-	-	32.083	-	-	16.569	-	-	1.740	-	-	11.610	-	-	13.350
<i>Subtotal: Flyaway Cost</i>	-	-	241.600	-	-	32.083	-	-	16.569	-	-	1.740	-	-	11.610	-	-	13.350
Gross/Weapon System Cost	-	-	241.600	-	-	32.083	-	-	16.569	-	-	1.740	-	-	11.610	-	-	13.350

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	32.083	16.569	1.740	11.610	13.350
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	32.083	16.569	1.740	11.610	13.350

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities	Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities
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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
Aerostat Envelope ^(†)		2015	ILC Dover / Dover, DE	SS / FFP	ACC-APG: APG, MD	Jan 2015	Jun 2015	8	800.000			
Aerostat Envelope ^(†)		2016	ILC Dover / Dover, DE	SS / FFP	ACC-APG: APG, MD	Mar 2016	Nov 2016	8	804.000			
Aerostat Envelope ^(†)	✓	2017	ILC Dover / Dover, DE	SS / FFP	ACC-APG: APG, MD	Mar 2017	Nov 2017	6	876.000			
Tether-up kits ^(†)		2015	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Feb 2015	Jun 2015	4	284.000			
Baseline Avionics Kits ^(†)		2015	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Feb 2015	Jul 2015	6	247.000			
Baseline Avionics Kits ^(†)		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Nov 2016	8	309.000			
Baseline Avionics Kits ^(†)	✓	2017	TBD / TBD	C / TBD	ACC-APG: APG, MD	Mar 2017	Nov 2017	4	379.750			
Tactical Common Data Link ^(†)		2015	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Feb 2015	Jul 2015	6	251.500			
Tactical Common Data Link ^(†)		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	May 2017	8	161.000			
Tactical Common Data Link ^(†)	✓	2017	TBD / TBD	C / TBD	ACC-APG: APG, MD	Mar 2017	May 2018	5	268.000			
(MAPS) Frame Assembly ^(†)		2015	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Feb 2015	Jul 2015	7	384.000			
Pressurization Avionics Unit ^(†)		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Sep 2016	8	241.000			
Pressurization Avionics Unit ^(†)	✓	2017	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2017	Sep 2017	5	281.000			
High Antenna Radio Communications (B-Kit) ^(†)		2016	Lockheed Martin / Akron, OH	C / FFP	ACC-APG: APG, MD	Mar 2016	Aug 2017	7	331.000			
High Antenna Radio Communications (B-Kit) ^(†)	✓	2017	TBD / TBD	C / TBD	ACC-APG: APG, MD	Mar 2017	Aug 2018	5	335.000			
ISR Turret (MX-15) ^(†)		2015	L-3 Wescam / Burlington, ON	SS / FFP	NAVAIR: Lakehurst NJ	Feb 2015	Jul 2015	2	900.000			
Tether-up replacement ^(†)		2015	TCOM / Elizabeth City, NC	SS / FFP	NAVAIR: Lakehurst NJ	Feb 2015	Jul 2015	5	600.400			
Envelope replacements ^(†)		2015	TCOM / Elizabeth City, NC	SS / FFP	NAVAIR: Lakehurst NJ	Feb 2015	Jul 2015	3	433.000			
Envelope replacements ^(†)		2016	TCOM / Elizabeth City, NC	SS / FFP	NAVAIR: Lakehurst NJ	Mar 2016	Aug 2016	1	410.000			
Envelope replacements ^(†)	✓	2017	TBD / TBD	C / TBD	ACC-APG: APG, MD	Mar 2017	Aug 2017	1	415.000			
WISP WAS sensors ^(†)		2015	MIT Lincoln Laboratory / Lexington, MA	C / FFP	NAVAIR: Lakehurst NJ	Feb 2015	Jul 2015	3	933.000			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army																												Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83														P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities										Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities											
Cost Elements (Units in Each)						Fiscal Year 2015														Fiscal Year 2016														BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016														
							O C T	N O V	D E C	J A N	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					
Aerostat Envelope																																			
	1	2015	ARMY	8	-	8					A	-	-	-	-	-	4	4												-					
	1	2016	ARMY	8	-	8																					A	-	-	-	-	-	-	8	
✓	1	2017	ARMY	6	-	6																									6				
Tether-up kits																																			
	2	2015	ARMY	4	-	4											2	2													-				
Baseline Avionics Kits																																			
	3	2015	ARMY	6	-	6																										-			
	3	2016	ARMY	8	-	8																						A	-	-	-	-	-	8	
✓	4	2017	ARMY	4	-	4																										4			
Tactical Common Data Link																																			
	5	2015	ARMY	6	-	6																										-			
	5	2016	ARMY	8	-	8																											8		
✓	6	2017	ARMY	5	-	5																										5			
(MAPS) Frame Assembly																																			
	7	2015	ARMY	7	-	7																											-		
Pressurization Avionics Unit																																			
	8	2016	ARMY	8	-	8																											-		
✓	8	2017	ARMY	5	-	5																											5		
High Antenna Radio Communications (B-Kit)																																			
	9	2016	ARMY	7	-	7																											7		
✓	10	2017	ARMY	5	-	5																											5		
ISR Turret (MX-15)																																			
	11	2015	ARMY	2	-	2																											-		
Tether-up replacement																																			
	12	2015	ARMY	5	-	5																											-		
Envelope replacements																																			
	13	2015	ARMY	3	-	3																											-		
	13	2016	ARMY	1	-	1																												-	
✓	14	2017	ARMY	1	-	1																												1	
WISP WAS sensors																																			
	15	2015	ARMY	3	-	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					

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Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83										P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities										Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities										
Cost Elements (Units in Each)					Fiscal Year 2017										Fiscal Year 2018										B A L A N C E					
O C 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
Aerostat Envelope																														
	1	2015	ARMY	8	8	-																								-
	1	2016	ARMY	8	-	8	-	8																						-
✓	1	2017	ARMY	6	-	6																								-
Tether-up kits																														
	2	2015	ARMY	4	4	-																								-
Baseline Avionics Kits																														
	3	2015	ARMY	6	6	-																								-
	3	2016	ARMY	8	-	8	-	8																						-
✓	4	2017	ARMY	4	-	4																								-
Tactical Common Data Link																														
	5	2015	ARMY	6	6	-																								-
	5	2016	ARMY	8	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
✓	6	2017	ARMY	5	-	5																								-
(MAPS) Frame Assembly																														
	7	2015	ARMY	7	7	-																								-
Pressurization Avionics Unit																														
	8	2016	ARMY	8	8	-																								-
✓	8	2017	ARMY	5	-	5																								-
High Antenna Radio Communications (B-Kit)																														
	9	2016	ARMY	7	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
✓	10	2017	ARMY	5	-	5																								-
ISR Turret (MX-15)																														
	11	2015	ARMY	2	2	-																								-
Tether-up replacement																														
	12	2015	ARMY	5	5	-																								-
Envelope replacements																														
	13	2015	ARMY	3	3	-																								-
	13	2016	ARMY	1	1	-																								-
✓	14	2017	ARMY	1	-	1																								-
WISP WAS sensors																														
	15	2015	ARMY	3	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

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83		P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities
		Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	ILC Dover - Dover, DE	1	40	100	-	2	3	5	-	-	-	-	-
2	Lockheed Martin - Akron, OH	1	25	50	-	-	-	-	-	-	-	-	-
3	Lockheed Martin - Akron, OH	1	25	50	-	-	-	-	-	-	-	-	-
4	TBD - TBD	1	20	50	-	5	4	9	-	-	-	-	-
5	Lockheed Martin - Akron, OH	1	25	50	-	-	-	-	-	-	-	-	-
6	TBD - TBD	1	20	50	-	5	4	9	-	-	-	-	-
7	Lockheed Martin - Akron, OH	1	25	50	-	-	-	-	-	-	-	-	-
8	Lockheed Martin - Akron, OH	1	25	50	-	-	-	-	-	-	-	-	-
9	Lockheed Martin - Akron, OH	1	25	50	-	-	-	-	-	-	-	-	-
10	TBD - TBD	1	20	50	-	5	4	9	-	-	-	-	-
11	L-3 Wescam - Burlington, ON	1	20	50	-	2	4	6	-	-	-	-	-
12	TCOM - Elizabeth City, NC	1	20	50	-	3	3	6	-	-	-	-	-
13	TCOM - Elizabeth City, NC	1	20	50	-	3	3	6	-	-	-	-	-
14	TBD - TBD	1	20	50	-	5	4	9	-	-	-	-	-
15	MIT Lincoln Laboratory - Lexington, MA	1	12	25	-	1	1	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: BL5283 / Counterintelligence/Security Countermeasures
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,286.347	42.020	19.982	0.455	23.890	24.345	0.469	0.488	0.501	0.507	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,286.347	42.020	19.982	0.455	23.890	24.345	0.469	0.488	0.501	0.507	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,286.347	42.020	19.982	0.455	23.890	24.345	0.469	0.488	0.501	0.507	Continuing	Continuing

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

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

Description:

PROGRAM DESCRIPTION INFORMATION IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	42.020	19.982	0.455	23.890	24.345	0.469	0.488	0.501	0.507
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	42.020	19.982	0.455	23.890	24.345	0.469	0.488	0.501	0.507

Justification:

FY 2017 Base funding in the amount of \$0.455 million is IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

FY 2017 OCO funding in the amount of \$23.890 million is IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: BL5285 / CI Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.954	-	0.228	0.176	-	0.176	0.120	0.121	0.121	0.122	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.954	-	0.228	0.176	-	0.176	0.120	0.121	0.121	0.122	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.954	-	0.228	0.176	-	0.176	0.120	0.121	0.121	0.122	Continuing	Continuing

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

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

Description:

The Counterintelligence (CI) Modernization effort provides resources for the sustainment of the CI information technology infrastructure used by the CI components of the Army. This architecture and infrastructure includes shared databases, workstations, global communications, and adequate connectivity for CI agents and specialists.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.228	0.176	-	0.176	0.120	0.121	0.121
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.228	0.176	-	0.176	0.120	0.121	0.121

Justification:

FY 2017 Base procurement dollars in the amount of \$0.176 million will procure lifecycle Automated Data Processing (ADP) Capital Equipment Replacement Program support and communications equipment.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0214400A, 0604820A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	362.630	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626	114.912	757.322
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	362.630	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626	114.912	757.322
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	362.630	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626	114.912	757.322

(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>)	-	-	-	349.313	-	349.313	-	-	-	-	-	1,946.843

Description:

The Sentinel system is used with the Forward Area Air Defense Command and Control [FAAD C2] element and is a supporting program to the Integrated Air and Missile Defense architecture via the Integrated Air and Missile Defense Battle Command System [IBCS] to provide critical air surveillance of the forward areas.

Sentinel [AN/MPQ-64A1] consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe [IFF], and Forward Area Air Defense [FAAD] Command, Control and Intelligence [C2I] interfaces. The radar is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar [C-RAM] missions. The sensor is an advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols and enemy countermeasures. It provides 360-degree azimuth coverage for acquisition tracking. Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying and reporting targets [cruise missiles, unmanned aerial systems, rotary wing and fixed wing aircraft]. Improved Sentinel acquires targets sufficiently forward of the battle area to allow weapons reaction time and allow engagement at optimum ranges. Sentinel's integrated IFF reduces the potential for fratricide of US and Coalition aircraft.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.969	29.817	32.650	-	32.650	21.731	21.997	23.435
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	33.336	13.468	7.521	-	7.521	6.648	10.723	18.859
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0214400A, 0604820A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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)			- / 362.630	- / 44.305	- / 43.285	- / 40.171	- / -	- / 40.171
P-40	Total Gross/Weapon System Cost			- / 362.630	- / 44.305	- / 43.285	- / 40.171	- / -	- / 40.171

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	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)			- / 28.379	- / 32.720	- / 42.294	- / 48.626	- / 114.912	- / 757.322
P-40	Total Gross/Weapon System Cost			- / 28.379	- / 32.720	- / 42.294	- / 48.626	- / 114.912	- / 757.322

*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 2017 Base procurement dollars in the amount of \$40.171 million procures Common Platform Upgrade modification kits and North Finding Modules for the fleet.

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

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Exhibit P-3a, Individual Modification: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: WK5057 / Sentinel Mods				Modification Number / Title: WK5057 / Sentinel Mods				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	362.630	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626	114.912	757.322
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	362.630	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626	114.912	757.322
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	362.630	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626	114.912	757.322

(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>)	-	-	-	349.313	-	349.313	-	-	-	-	-	1,946.843

Description:

Improved Sentinel Modifications include waveform upgrades for the Receiver/Exciter and Target Classification upgrades/replacement of the current Sentinel transmitter with Power Amplifier Modules [PAM]. The Exciter upgrades will provide low level Radio Frequency [RF] signals sufficient to support the acquisition and tracking of cruise missile targets and the generation of target classification waveforms. Receiver upgrades accomplish receipt and signal conditioning of low level RF signals prior to Analog/Digital [A/D] conversion sufficient to support the acquisition and tracking of cruise missile targets and target classification. Variable rotation rate provides capability to slow the antenna rotation, increasing time on target to acquire and track small cruise missile targets and to provide flexible antenna positioning capability for target classification waveforms. Target classification efforts include software implementation of target classification capability to support beyond visual range engagements.

The TPX-57 Mode 5 Identification Friend or Foe [IFF] modification kit replaces the current TPX-56 IFF. It also consists of a new router, enhanced Radar Control Terminal (eRCT), Signal Data Processor (SDP) box, and multiple circuit card assemblies. These modifications convert existing A1 radars to the A3 configuration. Mode 5 provides improvements over Mode 4 in crypto sensitivity, range performance, probability of identification, expanded reply data including position reports, elimination of garbled returns from closely spaced aircraft, friend from foe identification capability, lethal interrogation capability, reduced interference with Civil Air Traffic Control systems, and selective interrogation capability. Incorporation of Mode 5 into the Sentinel system is critical to retaining the cooperative target identification capability and Sentinel effectiveness on the current/future battlefield, allowing Sentinel to remain operationally effective in Air Defense operations and Homeland Defense missions. The addition of the eRCT, SDP cards and corresponding SDP box funds the mitigation of obsolescence issues; reliability, availability, and maintainability issues; and operational and hardware issues identified with fielded Sentinel radars. The eRCT enables remote operations and includes a tactical data recorder needed for Sentinel to support Counter-Rocket, Artillery, and Mortar [C-RAM] requirements. The addition of an Ethernet Router is required to meet Information Assurance requirements for the eRCT and to add Command and Control connectivity to the Sentinel system.

The Common Platform Upgrade will upgrade the current Sentinel prime mover to a common Army platform to meet Brigade Combat Team [BCT] force protection, as well as meet Integrated Air and Missile Defense Battle Command System [IBCS] system requirements. Transition to a common Army platform is in compliance with Acquisition Decision Memorandum dated August 2011. The current Sentinel platform does not meet the force protection requirements as defined by the BCT maneuver mission and IBCS operational requirements.

The North Finding Module [NFM] Upgrade will enhance the system's emplacement accuracy, resulting in improved fire control support and replacement of the obsolete NFM.

The Electronic Attack/Electronic Protect [EA/EP] addresses the electronic countermeasures [ECM] gap. This effort converts Sentinel from analog to digital in order to address more extensive EA/EP signatures from evolving threats.

The Signal Data Processor [SDP] Upgrade is a redesign of the SDP backplane to provide higher data throughput to remove current limitations and an upgraded set of SDP cards to remove obsolescence.

The Mode S effort will upgrade existing Sentinel Identification Friend or Foe (IFF) to address objective requirement to interrogate IFF Mode S. In the US, commercial aircraft must transition to Mode S capable units by 2020. Without the Mode S upgrade, Sentinel will have to rely on aircraft transponders responding to the legacy mode 3/A interrogations. The data available in the Mode S response will be valuable in

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

identifying the aircraft and correlating Sentinel tracks with civil aviation tracks/data and other track data sources. Incorporates requirement for the Global Positioning System (GPS) to be M Code capable with the new interrogator.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.969	29.817	32.650	-	32.650	21.731	21.997	23.435	30.787
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	33.336	13.468	7.521	-	7.521	6.648	10.723	18.859	17.839
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626

Development Status/Major Development Milestones		
Date	Title	Description
Sep 2011	Improved Sentinel	Undefinitized Contract Action (UCA) awarded. Contract definitized on 5/14/12.
Dec 2012	TPX-57 (Mode 5 IFF)	Contract award for Base year.
Mar 2015	Common Platform Upgrade	Integration began.
Jan 2017	North Finding Module	Contract award for Base year
Jan 2018	Electronic Attack/Electronic Protect	Contract award for Base year
Jan 2018	Signal Data Processor	Contract award for Base year.
Jan 2021	Mode S	Contract award for Base year.

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: WK5057 / Sentinel Mods					Modification Number / Title: WK5057 / Sentinel Mods			
Models of Systems Affected: Sentinel [AN/MPQ-64]					Modification Type: Operational					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 7: Improved Sentinel													
A Kits													
Recurring													
Equipment	143 / 255.473	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 255.473	
Engineering Services	0 / 1.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.822	
Govt Program Management/Admin Support	0 / 1.746	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.746	
Other Flyaway Support	0 / 5.484	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.484	
Subtotal: Recurring	- / 264.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 264.525	
Subtotal: Improved Sentinel	143 / 264.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 264.525	
Modification Item 2 of 7: TPX-57 (Mode 5 IFF)													
A Kits													
Recurring													
Equipment	121 / 73.803	22 / 7.210	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 81.013	
Engineering Services	0 / 1.628	- / 0.036	- / 0.282	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.946	
Govt Program Management/Admin Support	0 / 3.877	- / 0.521	- / 0.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.449	
Other Flyaway Support	0 / 9.013	- / 1.061	- / 0.694	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.768	
Initial Spares	0 / 5.010	- / 1.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.760	
Subtotal: Recurring	- / 93.331	- / 10.578	- / 1.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 104.936	
Subtotal: TPX-57 (Mode 5 IFF)	121 / 93.331	22 / 10.578	- / 1.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 104.936	
Modification Item 3 of 7: Common Platform Upgrade													
A Kits													
Recurring													
Equipment	- / -	59 / 26.284	59 / 32.660	29 / 16.468	- / -	29 / 16.468	- / -	- / -	- / -	- / -	- / -	147 / 75.412	
Engineering Services	- / -	- / 0.143	- / 1.126	- / 0.064	- / -	- / 0.064	- / 0.036	- / 0.036	- / -	- / -	- / -	- / 1.405	
Govt Program Management/Admin Support	- / -	- / 1.581	- / 1.944	- / 1.062	- / -	- / 1.062	- / 0.042	- / 0.026	- / -	- / -	- / -	- / 4.655	
Other Flyaway Support	- / -	- / 4.111	- / 4.497	- / 3.534	- / -	- / 3.534	- / 0.540	- / 0.366	- / -	- / -	- / -	- / 13.048	
Initial Spares	- / -	- / 1.217	- / 1.513	- / 0.763	- / -	- / 0.763	- / -	- / -	- / -	- / -	- / -	- / 3.493	
Subtotal: Recurring	- / -	- / 33.336	- / 41.740	- / 21.891	- / -	- / 21.891	- / 0.618	- / 0.428	- / -	- / -	- / -	- / 98.013	
Subtotal: Common Platform Upgrade	- / -	59 / 33.336	59 / 41.740	29 / 21.891	- / -	29 / 21.891	- / 0.618	- / 0.428	- / -	- / -	- / -	147 / 98.013	
Modification Item 4 of 7: North Finding Module													
A Kits													
Recurring													

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: WK5057 / Sentinel Mods					Modification Number / Title: WK5057 / Sentinel Mods			
Models of Systems Affected: Sentinel [AN/MPQ-64]					Modification Type: Operational					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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)	
Equipment	- / -	- / -	- / -	86 / 14.876	- / -	86 / 14.876	63 / 11.316	50 / 9.318	- / -	- / -	- / -	199 / 35.510	
Engineering Services	- / -	- / -	- / -	- / 10.016	- / -	- / 10.016	- / 10.036	- / 10.054	- / 10.032	- / -	- / -	- / 10.138	
Govt Program Management / Admin Support	- / -	- / -	- / -	- / 10.855	- / -	- / 10.855	- / 10.660	- / 10.599	- / 10.049	- / 10.016	- / -	- / 12.179	
Other Flyaway Support	- / -	- / -	- / -	- / 11.490	- / -	- / 11.490	- / 11.136	- / 11.039	- / 10.559	- / -	- / -	- / 14.224	
Initial Spares	- / -	- / -	- / -	- / 10.731	- / -	- / 10.731	- / 10.744	- / 11.061	- / -	- / -	- / -	- / 12.536	
Subtotal: Recurring	- / -	- / -	- / -	- / 17.968	- / -	- / 17.968	- / 13.892	- / 12.071	- / 10.640	- / 10.016	- / -	- / 44.587	
Subtotal: North Finding Module	- / -	- / -	- / -	86 / 17.968	- / -	86 / 17.968	63 / 13.892	50 / 12.071	- / 10.640	- / 10.016	- / -	199 / 44.587	
Modification Item 5 of 7: Electronic Attack/Electronic Protect													
A Kits													
Recurring													
Equipment	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.353	24 / 0.576	54 / 1.318	53 / 1.317	53 / 1.340	199 / 4.904	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.084	- / 10.144	- / 10.098	- / 10.009	- / 10.330	- / 10.665	
Govt Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.082	- / 10.105	- / 10.168	- / 10.147	- / 10.248	- / 10.750	
Other Flyaway Costs	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.278	- / 1.495	- / 1.747	- / 1.322	- / 1.644	- / 18.486	
Initial Spares	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.016	- / 10.027	- / 10.061	- / 10.061	- / 10.062	- / 10.227	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.813	- / 2.347	- / 3.392	- / 2.856	- / 4.624	- / 15.032	
Subtotal: Electronic Attack/Electronic Protect	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.813	24 / 2.347	54 / 3.392	53 / 2.856	53 / 4.624	199 / 15.032	
Modification Item 6 of 7: Signal Data Processor													
A Kits													
Recurring													
Equipment	- / -	- / -	- / -	- / -	- / -	- / -	15 / 8.970	24 / 13.594	54 / 28.980	53 / 28.987	53 / 29.509	199 / 110.040	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.087	- / 10.126	- / 10.085	- / 10.009	- / 10.340	- / 10.647	
Govt Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.556	- / 10.811	- / 11.787	- / 11.779	- / 12.219	- / 17.152	
Other Flyaway Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.731	- / 1.997	- / 3.017	- / 2.817	- / 4.205	- / 13.767	
Initial Spares	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.415	- / 10.630	- / 11.342	- / 11.343	- / 11.367	- / 15.097	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.759	- / 17.158	- / 35.211	- / 34.935	- / 37.640	- / 136.703	
Subtotal: Signal Data Processor	- / -	- / -	- / -	- / -	- / -	- / -	15 / 11.759	24 / 17.158	54 / 35.211	53 / 34.935	53 / 37.640	199 / 136.703	
Modification Item 7 of 7: Mode S													
A Kits													
Recurring													
Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 5.617	184 / 41.920	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.009	- / 11.330	
Govt Program Management/Admin Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.371	- / 12.910	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: WK5057 / Sentinel Mods						Modification Number / Title: WK5057 / Sentinel Mods		
Models of Systems Affected: Sentinel [AN/MPQ-64]				Modification Type: Operational				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Other Flyaway Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.549	- / 12.861	- / 14.410
Initial Spares	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.260	- / 1.941	- / 2.201
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.806	- / 60.962	- / 68.768
<i>Subtotal: Mode S</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 7.806	184 / 60.962	199 / 68.768
<i>Subtotal: Procurement, All Modification Items</i>	264 / 357.856	81 / 43.914	59 / 42.767	115 / 39.859	- / -	115 / 39.859	93 / 28.082	98 / 32.004	108 / 39.243	121 / 45.613	290 / 103.226	1,229 / 732.564
Installation												
<i>Modification Item 1 of 7: Improved Sentinel</i>	143 / 4.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 4.481
<i>Modification Item 2 of 7: TPX-57 (Mode 5 IFF)</i>	28 / 0.293	64 / 0.391	51 / 0.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 1.001
<i>Modification Item 3 of 7: Common Platform Upgrade</i>	0 / 0.000	- / -	27 / 0.201	64 / 0.312	- / -	64 / 0.312	47 / 0.297	9 / 0.160	- / -	- / -	- / -	147 / 0.970
<i>Modification Item 4 of 7: North Finding Module</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	86 / 0.556	63 / 0.426	50 / 0.339	- / -	199 / 1.321
<i>Modification Item 5 of 7: Electronic Attack/Electronic Protect</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.233	24 / 0.238	160 / 0.907	199 / 1.378
<i>Modification Item 6 of 7: Signal Data Processor</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.392	24 / 2.436	160 / 9.308	199 / 14.136
<i>Modification Item 7 of 7: Mode S</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 1.471	199 / 1.471
<i>Subtotal: Installation</i>	171 / 4.774	64 / 0.391	78 / 0.518	64 / 0.312	- / -	64 / 0.312	47 / 0.297	95 / 0.716	93 / 3.051	98 / 3.013	519 / 11.686	1,229 / 24.758
Total												
Total Cost (Procurement + Support + Installation)	362.630	44.305	43.285	40.171	-	40.171	28.379	32.720	42.294	48.626	114.912	757.322

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

Modification Item 1 of 7: Improved Sentinel

Manufacturer Information

Manufacturer Name: Thales Raytheon Systems	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 21

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	143 / 4.481	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	143 / 4.481
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	143 / 4.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 4.481

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	143
Out	143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	143

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

Modification Item 2 of 7: TPX-57 (Mode 5 IFF)

Manufacturer Information

Manufacturer Name: Thales Raytheon Systems	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015						
Delivery Dates	Jan 2016						

Installation Information

Method of Implementation: Contractor Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	28 / 0.293	64 / 0.391	29 / 0.180	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	121 / 0.864
FY 2015	0 / 0.000	- / -	22 / 0.137	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.137
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	28 / 0.293	64 / 0.391	51 / 0.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 1.001

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	28	10	18	18	18	18	22	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	143
Out	28	10	18	18	18	18	22	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	143

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

Modification Item 3 of 7: Common Platform Upgrade

Manufacturer Information

Manufacturer Name: Letterkenny Army Depot	Manufacturer Location: Chambersburg, PA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Jan 2016	Jan 2017				
Delivery Dates	Apr 2016	Apr 2017	Apr 2018				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	27 / 0.201	32 / 0.156	- / -	32 / 0.156	- / -	- / -	- / -	- / -	- / -	59 / 0.357
FY 2016	0 / 0.000	- / -	- / -	32 / 0.156	- / -	32 / 0.156	27 / 0.171	- / -	- / -	- / -	- / -	59 / 0.327
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	20 / 0.126	9 / 0.160	- / -	- / -	- / -	29 / 0.286
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	27 / 0.201	64 / 0.312	- / -	64 / 0.312	47 / 0.297	9 / 0.160	- / -	- / -	- / -	147 / 0.970

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	12	15	16	16	16	16	16	11	10	10	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147
Out	-	-	-	-	-	-	-	12	15	16	16	16	16	16	11	10	10	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

Modification Item 4 of 7: North Finding Module

Manufacturer Information

Manufacturer Name: Thales Raytheon Systems (TRS)	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 21

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018	Jan 2019		
Delivery Dates			Oct 2018	Oct 2019	Oct 2020		

Installation Information

Method of Implementation: Field Install

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	86 / 0.556	- / -	- / -	- / -	86 / 0.556
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 0.426	- / -	- / -	63 / 0.426
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.339	- / -	50 / 0.339
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	86 / 0.556	63 / 0.426	50 / 0.339	- / -	199 / 1.321

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22	21	21	16	16	16	15	13	13	13	11	-	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22	21	21	16	16	16	15	13	13	13	11	-	199

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

Modification Item 5 of 7: Electronic Attack/Electronic Protect

Manufacturer Information

Manufacturer Name: Thales Raytheon Systems	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 21

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates				Oct 2019	Oct 2020	Oct 2021	Oct 2022

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.233	- / -	- / -	15 / 0.233
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.238	- / -	24 / 0.238
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.290	54 / 0.290
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 0.295	53 / 0.295
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 0.322	53 / 0.322
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.233	24 / 0.238	160 / 0.907	199 / 1.378

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	6	6	6	6	160	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	6	6	6	6	160	199

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

Modification Item 6 of 7: Signal Data Processor

Manufacturer Information

Manufacturer Name: Thales Raytheon Systems	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 21

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates				Oct 2019	Oct 2020	Oct 2021	Oct 2022

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.392	- / -	- / -	15 / 2.392
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.436	- / -	24 / 2.436
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 2.975	54 / 2.975
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 3.029	53 / 3.029
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 3.304	53 / 3.304
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.392	24 / 2.436	160 / 9.308	199 / 14.136

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	6	6	6	6	160	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	6	6	6	6	160	199

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

Modification Item 7 of 7: Mode S

Manufacturer Information

Manufacturer Name: Thales Raytheon Systems	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							Jan 2021
Delivery Dates							Jan 2022

Installation Information

Method of Implementation: Contractor Field Team

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.081	15 / 0.081
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	184 / 1.390	184 / 1.390
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 1.471	199 / 1.471

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	199

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 KA3500 / Night Vision Devices

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604710A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	24,949	4,069	6,061	10,574	-	10,574	11,723	5,321	7,167	4,659	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,373.214	103.656	124.216	163.029	-	163.029	155.740	101.006	117.251	90.636	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,373.214	103.656	124.216	163.029	-	163.029	155.740	101.006	117.251	90.636	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,373.214	103.656	124.216	163.029	-	163.029	155.740	101.006	117.251	90.636	Continuing	Continuing

(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>)	55.041	25.475	20.494	15.418	-	15.418	13.285	18.983	16.360	19.454	Continuing	Continuing

Description:

Night Vision Devices (KA3500) is a summary budget line including the following programs:

- (1) K36400 - The AN/PSQ-20 Enhanced Night Vision Goggle (ENVG) is a lightweight, helmet mounted device that expands a Soldier's Situational Awareness (SA) and lethality by fusing image intensification and long wave infrared into a single, integrated image. Adversaries currently have access to image intensified night vision goggle technology, but not a fused system. The ENVG enables superior combat overmatch capability. The ENVG provides dismounted Brigade Combat Team Warfighters the capability to observe and maneuver in all weather conditions, through obscurants, during limited visibility, and under all lighting conditions including total darkness while enabling rapid detection and engagement with rifle-mounted aiming lasers. The AN/PVS-14 Monocular Night Vision Device (MNVD) is a head or helmet mounted image intensification device that provides Soldiers with the ability to perform night operations. The AN/PSQ-20 and AN/PVS-14 support 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.
- (2) K35000 - The Multi-Function Aiming Light (MFAL) is a family of multifunctional infrared and visible laser devices used by Soldiers for accurate weapon aiming or to point out targets and other items of interest. In FY 2018 and beyond, funding in this program procures Pre-shot Threat Detection (PTD) systems. The PTD is designed to detect and locate optical scopes used by snipers or optronic sight systems on the battlefield or urban zones.
- (3) B53800 - This program provides funding to procure Laser Target Locators (LTL). The LTL is a lightweight, handheld, laser target locator with day and thermal sight capability as well as an internal Global Positioning System (GPS) receiver. LTL provides the dismounted observer or Scout a fully digital, handheld system to accurately determine target location and the ability of call for fire during all weather and lighting conditions. LTL improves speed, accuracy, and safety of use over previous systems of this type (e.g., Laser Target Locator System (LTLS)). In FY16 a competitive contract will be awarded for LTLM II reducing size, weight, power consumption and cost.
- (4) K41500 - The Clip-on Sniper Night Sight (CoSNS), AN/PVS-30 for the M110 Semi-Automatic Sniper System (SASS) and XM2010 Enhanced Sniper Rifle (ESR) utilizes passive third generation image intensification technology for night operations. The Clip-on SNS supports the tactical level of war enabling the individual Sniper to see, understand, and act first. The Clip-on SNS provides the Sniper with the capability to acquire and engage targets at extended ranges and eliminate threat Snipers, materiel, and thin skinned armored vehicle targets under low light and night conditions, thus increasing the Sniper's survivability and lethality.
- (5) K50400 - The TS-3895A provides performance testing for AN/AVS-6, AN/PVS-5 series and AN/PVS-7 series night goggles on a go/no go basis. It is intended for use at intermediate maintenance levels combined with an attachment kit commodes of a collimation attachment and a diopter scope, it can also be used for adjustment of NVGs during disassembly and repair. It allows the individual Warfighter to perform a wide variety of tasks at night; these tasks include flight operations on various platforms, walking, operating vehicles, surveillance, map reading, maintenance, first aid operation, and engaging enemy targets with direct rifle fire.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: KA3500 / Night Vision Devices
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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(6) K31300 - The Driver's Vision Enhancer (DVE) is an uncooled thermal imaging system developed for use on combat and tactical wheeled vehicles. The DVE allows for tactical movement of combat vehicles in support of their operational missions in all environmental conditions (day/night and all weather). DVE facilitates mobility providing enhanced driving capability during limited visibility conditions (darkness, smoke, dust, and fog).

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	1,546	4,815	7,914	-	7,914	8,666	3,776	6,505	4,160
	Total Obligation Authority	49.217	95.843	121.206	-	121.206	111.711	63.776	89.199	62.161
ANG	Quantity	1,872	1,246	2,660	-	2,660	3,057	1,545	481	499
	Total Obligation Authority	40.391	28.373	41.823	-	41.823	44.029	37.230	24.851	22.000
AR	Quantity	651	-	-	-	-	-	-	181	-
	Total Obligation Authority	14.048	-	-	-	-	-	-	3.201	6.475
Total: Secondary Distribution	Quantity	4,069	6,061	10,574	-	10,574	11,723	5,321	7,167	4,659
	Total Obligation Authority	103.656	124.216	163.029	-	163.029	155.740	101.006	117.251	90.636

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 KA3500 / Night Vision Devices

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604710A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	1,814 / 866.858	- / 5.851	183 / 26.248	696 / 31.083	- / -	696 / 31.083
P-5	K36400 / Helmet Mounted Enhanced Vision Devices	P-5a, P-21		23,135 / 506.375	4,069 / 97.805	5,878 / 97.968	9,878 / 131.946	- / -	9,878 / 131.946
P-40	Total Gross/Weapon System Cost			24,949 / 1,373.214	4,069 / 103.656	6,061 / 124.216	10,574 / 163.029	- / -	10,574 / 163.029

*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 2017 Base procurement dollars in the amount of \$163.029 million supports the procurement of 9,878 Enhanced Night Vision Goggles, 696 Laser Target Location Modules, and associated fielding costs.

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.64,256

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	1,814	-	183	696	-	696
Gross/Weapon System Cost (\$ in Millions)	866.858	5.851	26.248	31.083	-	31.083
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	866.858	5.851	26.248	31.083	-	31.083
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	866.858	5.851	26.248	31.083	-	31.083

(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)	477.871	-	143.432	44.659	-	44.659

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Laser Target Locator ^(†)	477.871	1,814	866.858	-	-	-	40.000	183	7.320	39.107	696	27.218	-	-	-	39.107	696	27.218
Tripods	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-
Project Management	-	-	-	-	-	2.192	-	-	2.000	-	-	2.061	-	-	-	-	-	2.061
Systems Engineering Support	-	-	-	-	-	2.082	-	-	1.961	-	-	1.723	-	-	-	-	-	1.723
Production Qualification Testing	-	-	-	-	-	-	-	-	9.460	-	-	-	-	-	-	-	-	-
Hardware Non-Recurring	-	-	-	-	-	-	-	-	5.446	-	-	-	-	-	-	-	-	-
Fielding	-	-	-	-	-	0.077	-	-	0.061	-	-	0.081	-	-	-	-	-	0.081
<i>Subtotal: Recurring Cost</i>	-	-	866.858	-	-	5.851	-	-	26.248	-	-	31.083	-	-	-	-	-	31.083
<i>Subtotal: Hardware Cost</i>	-	-	866.858	-	-	5.851	-	-	26.248	-	-	31.083	-	-	-	-	-	31.083
Gross/Weapon System Cost	477.871	1,814	866.858	-	-	5.851	143.432	183	26.248	44.659	696	31.083	-	-	-	44.659	696	31.083

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	123	505	-	505
	Total Obligation Authority	5.851	17.642	22.489	-	22.489
ANG	Quantity	-	60	191	-	191

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution						
	Total Obligation Authority	-	8.606	8.594	-	8.594
Total:	Quantity	-	183	696	-	696
Secondary Distribution	Total Obligation Authority	5.851	26.248	31.083	-	31.083

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Laser Target Locator ^(†)		2016	TBS / TBD	C / IDIQ	ACC APG	Jul 2016	Dec 2016	183	40.000	Y		
Laser Target Locator ^(†)		2017	TBS / TBD	C / IDIQ	ACC APG	May 2017	Nov 2017	696	39.107	Y		

^(†) indicates the presence of a P-21

Remarks:

A new contract will be awarded in FY16 to continue procurement of a smaller, lighter, and lower-cost LTLM (LTLM II). However, the initial start-up costs (qualification, etc) will result in an increase in unit cost for the first year.

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices **Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	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
Laser Target Locator																															
Prior Years Deliveries: 1814																															
1		2016	ARMY (VIII)	183	-	183																									
1		2017	ARMY (IX)	696	-	696																						696			
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices **Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
Laser Target Locator																																
Prior Years Deliveries: 1814																																
	1	2016	ARMY (VIII)	183	163	20	20																						-			
	1	2017	ARMY (IX)	696	-	696	-	58	58	58	58	58	58	58	58	58	58												58			
								O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	TBS - TBD	10	40	200	2	9	6	15	2	7	5	12

"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).

Service/Agency Suffixes:

(VIII) BASE

(IX) BASE

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	23,135	4,069	5,878	9,878	-	9,878
Gross/Weapon System Cost (\$ in Millions)	506.375	97.805	97.968	131.946	-	131.946
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	506.375	97.805	97.968	131.946	-	131.946
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	506.375	97.805	97.968	131.946	-	131.946

(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)	21.888	24.037	16.667	13.358	-	13.358

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
AN/PSQ-20 (ENVG II) ^(f)	13.490	29,505	398.014	11.560	2,419	27.963	-	-	-	-	-	-	-	-	-	-	-	-
I2 Tubes	-	-	-	-	-	8.582	-	-	10.759	-	-	17.499	-	-	-	-	-	17.499
AN/PSQ-20 (ENVG III) Qual Systems	28.943	1,420	41.099	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AN/PSQ-20 (ENVG III) ^(f)	-	-	-	11.940	1,650	19.701	11.546	5,878	67.867	9.322	9,878	92.078	-	-	-	9.322	9,878	92.078
Engineering Change (Interoperability)	-	-	-	-	-	7.215	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Support	-	-	13.516	-	-	5.141	-	-	3.933	-	-	1.580	-	-	-	-	-	1.580
Project Management Admin	-	-	25.879	-	-	1.545	-	-	4.219	-	-	7.294	-	-	-	-	-	7.294
Fielding	-	-	14.084	-	-	9.402	-	-	9.594	-	-	10.000	-	-	-	-	-	10.000
Ancillary Support	-	-	13.692	-	-	2.414	-	-	1.596	-	-	3.490	-	-	-	-	-	3.490
Contract Data Requirements Lists	-	-	0.082	-	-	5.842	-	-	-	-	-	-	-	-	-	-	-	-
HAC-D Rescission	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	506.375	-	-	97.806	-	-	97.968	-	-	131.946	-	-	-	-	-	131.946
<i>Subtotal: Flyaway Cost</i>	-	-	506.375	-	-	97.806	-	-	97.968	-	-	131.946	-	-	-	-	-	131.946
Gross/Weapon System Cost	21.888	23,135	506.375	24.037	4,069	97.805	16.667	5,878	97.968	13.358	9,878	131.946	-	-	-	13.358	9,878	131.946

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:				
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,546	4,692	7,409	-	7,409
	Total Obligation Authority	43.366	78.201	98.717	-	98.717
ANG	Quantity	1,872	1,186	2,469	-	2,469
	Total Obligation Authority	40.391	19.767	33.229	-	33.229
AR	Quantity	651	-	-	-	-
	Total Obligation Authority	14.048	-	-	-	-
Total:	Quantity	4,069	5,878	9,878	-	9,878
Secondary Distribution	Total Obligation Authority	97.805	97.968	131.946	-	131.946

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: KA3500 / Night Vision Devices				Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AN/PSQ-20 (ENVG II) ^(†)		2015	L3 Comm. Corp / Londonderry	C / IDIQ	ACC-APG	Mar 2015	Mar 2016	2,419	11.560	Y		
AN/PSQ-20 (ENVG III) ^(†)		2015	TBS (AN/PSQ-20) ENVG III / TBD	C / IDIQ	ACC-APG	Jun 2016	Dec 2016	1,650	11.940	Y		
AN/PSQ-20 (ENVG III) ^(†)		2016	TBS (AN/PSQ-20) ENVG III / TBD	C / IDIQ	ACC-APG	Jun 2016	Dec 2016	5,878	11.546	Y		
AN/PSQ-20 (ENVG III) ^(†)		2017	TBS (AN/PSQ-20) ENVG III / TBD	C / IDIQ	ACC-APG	Jan 2017	Dec 2017	9,878	9.322	Y		

^(†) indicates the presence of a P-21

Remarks:

The May 2014 ENVG III contracts, awarded to BAE Systems and DRS, RSTA, Inc, were protested. A subsequent reconvened Source Selection upheld the original awards in December 2014. A protest was again levied by Raytheon and a stop work order was issued, on both contracts, until resolution. On 13 January 2015, the stay was lifted on the DRS contract.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: KA3500 / Night Vision Devices										Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017														Fiscal Year 2018														BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
AN/PSQ-20 (ENVG II)																																			
Prior Years Deliveries: 29505																																			
	1	2015	ARMY	2,419	1,412	1,007	403	403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
AN/PSQ-20 (ENVG III)																																			
	2	2015	ARMY	1,650	-	1,650	-	-	200	200	200	200	200	200	225	225																			
	2	2016	ARMY	5,878	-	5,878	-	-	490	490	490	490	490	490	490	490	490	490	488																
	2	2017	ARMY	9,878	-	9,878			A	-	-	-	-	-	-	-	-	-	-	823	823	823	823	823	823	823	823	823	823	1,648					
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: KA3500 / Night Vision Devices
Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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 Comm. Corp - Londonderry	50	500	1,300	1	5	7	12	1	5	7	12
2	TBS (AN/PSQ-20) ENVG III - TBD	200	500	1,432	1	8	4	12	1	6	6	12

"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 2017 Army **Date:** February 2016

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: K35110 / 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	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	4,215	1,904	1,644	1,134	-	1,134	2,064	2,133	2,473	2,182	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	98.706	18.520	23.216	15.885	-	15.885	22.979	23.846	27.633	24.216	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	98.706	18.520	23.216	15.885	-	15.885	22.979	23.846	27.633	24.216	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	98.706	18.520	23.216	15.885	-	15.885	22.979	23.846	27.633	24.216	Continuing	Continuing

(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>)	23.418	9.727	14.122	14.008	-	14.008	11.133	11.180	11.174	11.098	Continuing	Continuing

Description:

The AN/PSQ-23 Small Tactical Optical Rifle Mounted (STORM) Micro-Laser Range Finder (MLRF) is a weapon-mounted multi-function laser system. It provides an eye safe laser range finder, 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. When connected to a Precision Lightweight Global Receiver/Defense Advanced GPS Receiver (PLGR/DAGR), the AN/PSQ-23 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 STORM system provides a stand-alone capability for small unit leaders and Snipers. In FY15, a production Engineering Change Proposal (ECP) reduced size, weight, power consumption, and cost; designated as STORM AN/PSQ-23C.

The Army Acquisition Objective (AAO) for STORM is 23,860.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	1,030	1,132	825	-	825	1,306	1,994	2,473	2,182
	Total Obligation Authority	10.020	15.986	11.524	-	11.524	14.506	22.293	27.633	24.216
ANG	Quantity	874	512	309	-	309	758	139	-	-
	Total Obligation Authority	8.500	7.230	4.361	-	4.361	8.473	1.553	-	-
Total:	Quantity	1,904	1,644	1,134	-	1,134	2,064	2,133	2,473	2,182
Secondary Distribution	Total Obligation Authority	18.520	23.216	15.885	-	15.885	22.979	23.846	27.633	24.216

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 K35110 / 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 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	4,215 / 98.706	1,904 / 18.520	1,644 / 23.216	1,134 / 15.885	- / -	1,134 / 15.885
P-40	Total Gross/Weapon System Cost			4,215 / 98.706	1,904 / 18.520	1,644 / 23.216	1,134 / 15.885	- / -	1,134 / 15.885

*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 2017 Base procurement dollars in the amount of \$15.885 million supports the procurement of 1,134 AN/PSQ-23C systems for fielding to small unit leaders and Snipers.

The FY 2017 funding request was reduced by \$3.101 million to account for the availability of prior year execution balances.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: K35110 / Small Tactical Optical Rifle Mounted MLRF
		Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	4,215	1,904	1,644	1,134	-	1,134
Gross/Weapon System Cost (\$ in Millions)	98.706	18.520	23.216	15.885	-	15.885
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	98.706	18.520	23.216	15.885	-	15.885
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	98.706	18.520	23.216	15.885	-	15.885

(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)	23.418	9.727	14.122	14.008	-	14.008

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
STORM - AN/PSQ-23 Hardware ^(t)	19.830	4,215	83.584	12.541	701	8.791	-	-	-	-	-	-	-	-	-	-	-	-
STORM - AN/PSQ-23C Hardware ^(t)	-	-	-	15.355	423	6.495	12.200	1,644	20.057	9.700	1,134	11.000	-	-	-	9.700	1,134	11.000
Program Management	-	-	10.863	-	-	2.540	-	-	2.234	-	-	2.271	-	-	-	-	-	2.271
Systems Engineering Support	-	-	3.930	-	-	0.640	-	-	0.877	-	-	0.895	-	-	-	-	-	0.895
Production Qualification Testing	-	-	-	-	-	-	-	-	-	-	-	1.679	-	-	-	-	-	1.679
Fielding	-	-	0.330	-	-	0.054	-	-	0.048	-	-	0.040	-	-	-	-	-	0.040
<i>Subtotal: Recurring Cost</i>	-	-	98.706	-	-	18.520	-	-	23.216	-	-	15.885	-	-	-	-	-	15.885
<i>Subtotal: Hardware Cost</i>	-	-	98.706	-	-	18.520	-	-	23.216	-	-	15.885	-	-	-	-	-	15.885
Gross/Weapon System Cost	23.418	4,215	98.706	9.727	1,904	18.520	14.122	1,644	23.216	14.008	1,134	15.885	-	-	-	14.008	1,134	15.885

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,030	1,132	825	-	825
	Total Obligation Authority	10.020	15.986	11.524	-	11.524
ANG	Quantity	874	512	309	-	309

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K35110 / Small Tactical Optical Rifle Mounted MLRF	Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	8.500	7.230	4.361	-	4.361
Total:	Quantity	1,904	1,644	1,134	-	1,134
Secondary Distribution	Total Obligation Authority	18.520	23.216	15.885	-	15.885

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: K35110 / Small Tactical Optical Rifle Mounted MLRF					Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
STORM - AN/PSQ-23 Hardware ^(†)		2015	L3 Insight / Londonderry, NH	C / IDIQ	ACC APG	Mar 2015	Jan 2016	701	12.541	Y		
STORM - AN/PSQ-23C Hardware ^(†)		2015	L3 Insight / Londonderry, NH	C / IDIQ	ACC APG	May 2016	Oct 2016	423	15.355	Y		
STORM - AN/PSQ-23C Hardware		2016	L3 Insight / Londonderry, NH	C / IDIQ	ACC APG	May 2016	Oct 2016	1,644	12.200	Y		
STORM - AN/PSQ-23C Hardware ^(†)		2017	TBD / TBS	C / IDIQ	ACC APG	May 2017	Oct 2017	1,134	9.700	Y		

^(†) indicates the presence of a P-21

Remarks:
June 2011 award to L3 Communications was a 5 year IDIQ contract.

New contract expected 3rd quarter FY17.

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: K35110 / Small Tactical Optical Rifle Mounted MLRF
		Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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 Insight - Londonderry, NH	50	200	450	2	10	6	16	1	7	5	12
2	L3 Insight - Londonderry, NH	50	200	450	2	10	6	16	1	7	5	12
3	TBD - TBS	50	200	450	2	7	5	12	1	7	5	12

"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 2017 Army **Date:** February 2016

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: BZ0501 / Indirect Fire Protection Family Of Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	292	184	312	193	87	280	-	-	-	-	-	1,068
Gross/Weapon System Cost (<i>\$ in Millions</i>)	82.699	68.296	60.679	48.427	4.270	52.697	11.380	3.472	-	-	-	279.223
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	82.699	68.296	60.679	48.427	4.270	52.697	11.380	3.472	-	-	-	279.223
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	82.699	68.296	60.679	48.427	4.270	52.697	11.380	3.472	-	-	-	279.223

(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>)	283.216	371.174	194.484	250.917	49.080	188.204	-	-	-	-	-	261.445

Description:

The Rocket, Artillery, Mortar (RAM) Warn program evolved from the Counter-Rocket, Artillery, Mortar (C-RAM) program and is a horizontal technology insertion, using current C-RAM warning capability to provide 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 devices, controllers, and dedicated communications devices between the existing radars, ADAM Cell, and warning systems. Integration of this equipment provides a Warn capability to the BCTs for detection of threat IDF rounds and transmission of the detection data to the C2 element for correlation and determination of a predicted point of impact (POI). Based on the POI, the C2 then determines which warning nodes should send "Incoming" warning alarms and transmits this information to the appropriate warning nodes. In addition to the representative RAM Warn capability fielded to each BCT, Army Pre-positioned Stocks (APS) equipment sets are being procured 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. The Capability Production Document (CPD) was approved in August 2010, and an update was approved in May 2012, to reflect the name change to RAM Warn. An initial operational test (IOT) was conducted during November 2012 as part of Network Integration Evaluation (NIE) 13.1, and the RAM Warn Milestone C Low Rate Initial Production (LRIP) decision occurred on 19 December 2012. In April 2014, RAM Warn was approved for entry into the Full Rate Production (FRP) acquisition phase based on successful completion of LRIP exit criteria, including Full Materiel Release.

The C-RAM Intercept program provides a counter-RAM capability to the Indirect Fire Protection Capability (IFPC)/Avenger battalions, 5-5 and 2-44 Air Defense Artillery (ADA), to defend against and defeat the enduring indirect fire threat. This capability is provided by fielding existing Land-based Phalanx Weapon System (LPWS) guns previously produced as a part of the C-RAM quick reaction capability for theater operations; the guns undergo reset prior to fielding. C-RAM Intercept transitioned to an acquisition program with the approval of the C-RAM Intercept CPD on 22 Aug 2013 and the Army Acquisition Executive's approval of an Acquisition Decision Memorandum (ADM) on 23 Aug 2013, authorizing the program's entry into the acquisition management system as a post-Milestone C, Acquisition Category (ACAT) III program under the management of the Program Executive Officer, Missiles and Space. Initial issue of LPWS assets to the IFPC/Avenger battalions is ongoing, with Materiel Release projected for 2QFY16.

FY 2014 and 2015 includes funding for directed enhancements to the C-RAM system-of-systems capability (i.e., use of Army tactical communications rather than commercial systems and integration of Warn functionality into the C2 workstation to reduce complexity and footprint).

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	184	136	72	87	159	-	-	-	-
	Total Obligation Authority	68.296	36.729	32.434	4.270	36.704	2.097	0.002	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ0501 / Indirect Fire Protection Family Of Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
ANG	Quantity	-	176	121	-	121	-	-	-	-
	Total Obligation Authority	-	23.950	15.993	-	15.993	9.283	3.470	-	-
Total: Secondary Distribution	Quantity	184	312	193	87	280	-	-	-	-
	Total Obligation Authority	68.296	60.679	48.427	4.270	52.697	11.380	3.472	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ0501 / Indirect Fire Protection Family Of Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	H30503 / Rocket, Artillery, Mortar (RAM) Warn	P-5a		223 / 39.274	184 / 27.652	312 / 42.458	193 / 25.410	87 / 4.270	280 / 29.680
P-5	H30504 / C-RAM Enhancements			69 / 43.425	- / 40.644	- / 18.221	- / 23.017	- / -	- / 23.017
P-40	Total Gross/Weapon System Cost			292 / 82.699	184 / 68.296	312 / 60.679	193 / 48.427	87 / 4.270	280 / 52.697

*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 2017 Base procurement dollars in the amount of \$48.427 million provide for the procurement and fielding of the RAM Warn capability to 11 BCTs and 8 APS equipment sets, continues the fielding of LPWS Intercept assets and associated support equipment to the 5-5 and 2-44 ADA battalions, and provides C-RAM Intercept Interim Contractor Logistics Support (ICLS) until the units transition to organic sustainment.

The FY 2017 OCO includes \$4.270 million to support the Combatant Command (COCOM) requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include RAM Warn prepositioned European equipment sets.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30503 / Rocket, Artillery, Mortar (RAM) Warn

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	223	184	312	193	87	280
Gross/Weapon System Cost (\$ in Millions)	39.274	27.652	42.458	25.410	4.270	29.680
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	39.274	27.652	42.458	25.410	4.270	29.680
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	39.274	27.652	42.458	25.410	4.270	29.680

(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)	176.117	150.283	136.083	131.658	49.080	106.000

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 & Integration ^(†)	142.018	223	31.670	123.054	184	22.642	110.599	312	34.507	104.699	193	20.207	49.080	87	4.270	87.418	280	24.477
Program Management	-	-	3.693	-	-	1.938	-	-	1.975	-	-	2.013	-	-	-	-	-	2.013
Subtotal: Recurring Cost	-	-	35.363	-	-	24.580	-	-	36.482	-	-	22.220	-	-	4.270	-	-	26.490
Subtotal: Flyaway Cost	-	-	35.363	-	-	24.580	-	-	36.482	-	-	22.220	-	-	4.270	-	-	26.490
Support - Fielding Cost																		
Fielding	-	-	3.911	-	-	3.072	-	-	5.976	-	-	3.190	-	-	-	-	-	3.190
Subtotal: Support - Fielding Cost	-	-	3.911	-	-	3.072	-	-	5.976	-	-	3.190	-	-	-	-	-	3.190
Gross/Weapon System Cost	176.117	223	39.274	150.283	184	27.652	136.083	312	42.458	131.658	193	25.410	49.080	87	4.270	106.000	280	29.680

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	184	136	72	87	159
Total Obligation Authority	27.652	18.508	9.417	4.270	13.687
ANG	-	176	121	-	121
Total Obligation Authority	-	23.950	15.993	-	15.993
Total:	184	312	193	87	280

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30503 / Rocket, Artillery, Mortar (RAM) Warn

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	27.652	42.458	25.410	4.270	29.680

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: BZ0501 / Indirect Fire Protection Family Of Systems				Item Number / Title [DODIC]: H30503 / Rocket, Artillery, Mortar (RAM) Warn					

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 & Integration		2015	Northrop Grumman / Huntsville	SS / IDIQ	AMCOM	Jun 2015	Feb 2016	184	123.054			
Hardware & Integration		2016	Northrop Grumman / Huntsville	SS / IDIQ	AMCOM	Feb 2016	Sep 2016	312	110.599			
Hardware & Integration		2017	Northrop Grumman / Huntsville	SS / IDIQ	AMCOM	Dec 2016	Jul 2017	280	87.418			

Remarks:
RAM Warn is a hardware integration effort employing COTS and existing GOTS hardware.

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30504 / C-RAM Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	69	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	43.425	40.644	18.221	23.017	-	23.017
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	43.425	40.644	18.221	23.017	-	23.017
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	43.425	40.644	18.221	23.017	-	23.017

(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)	629.348	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 & Integration	115.725	69	7.985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management	-	-	3.850	-	-	3.634	-	-	3.703	-	-	3.773	-	-	-	-	-	3.773
<i>Subtotal: Recurring Cost</i>	-	-	11.835	-	-	3.634	-	-	3.703	-	-	3.773	-	-	-	-	-	3.773
<i>Subtotal: Flyaway Cost</i>	-	-	11.835	-	-	3.634	-	-	3.703	-	-	3.773	-	-	-	-	-	3.773
Support - Fielding Cost																		
Fielding	-	-	31.590	-	-	37.010	-	-	14.518	-	-	19.244	-	-	-	-	-	19.244
<i>Subtotal: Support - Fielding Cost</i>	-	-	31.590	-	-	37.010	-	-	14.518	-	-	19.244	-	-	-	-	-	19.244
Gross/Weapon System Cost	629.348	69	43.425	-	-	40.644	-	-	18.221	-	-	23.017	-	-	-	-	-	23.017

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Total Obligation Authority	40.644	18.221	23.017	-	23.017
Total: Secondary Distribution	40.644	18.221	23.017	-	23.017

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K22001 / FAMILY OF WEAPON SIGHTS (FWS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603774A, 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	3,420	4,760	-	4,760	7,404	13,609	20,043	6,448	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,680.902	2.000	53.453	55.536	-	55.536	103.914	165.644	215.338	119.851	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,680.902	2.000	53.453	55.536	-	55.536	103.914	165.644	215.338	119.851	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,680.902	2.000	53.453	55.536	-	55.536	103.914	165.644	215.338	119.851	Continuing	Continuing

(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>)	-	-	15.630	11.667	-	11.667	14.035	12.172	10.744	18.587	Continuing	Continuing

Description:

Family of Weapons Sights (FWS) consist of Individual (I), Crew-Served (CS), Sniper (S) variants, and the Thermal Weapon Sight (TWS). The AAO for the TWS was completed with the FY12 procurement. The FWS variant family will increase lethality and improve situational awareness by extending the range a Warfighter can recognize potential targets. The FWS-I (Milestone C is FY16) reduces target engagement time in both day and night conditions through Rapid Target Acquisition (RTA). The FWS-CS (Milestone C is FY18) will enable a crew served weapon gunner to more accurately engage targets in less time by utilizing a Head Mounted Display and disturbed reticle that adjusts the aim point. The FWS-S (Milestone C is FY18) will provide greater detection, recognition and aiding in identification at greater ranges during periods of darkness and limited visibility.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	-	2,713	3,808	-	3,808	5,804	11,281	17,156	6,448
	Total Obligation Authority	2.000	42.409	44.345	-	44.345	88.862	147.956	193.485	119.851
ANG	Quantity	-	707	952	-	952	1,600	2,328	2,725	-
	Total Obligation Authority	-	11.044	11.191	-	11.191	15.052	17.688	20.548	-
AR	Quantity	-	-	-	-	-	-	-	162	-
	Total Obligation Authority	-	-	-	-	-	-	-	1.305	-
Total: Secondary Distribution	Quantity	-	3,420	4,760	-	4,760	7,404	13,609	20,043	6,448
	Total Obligation Authority	2.000	53.453	55.536	-	55.536	103.914	165.644	215.338	119.851

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K22001 / FAMILY OF WEAPON SIGHTS (FWS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603774A, 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		- / -	- / 2.000	3,420 / 53.453	4,760 / 55.536	- / -	4,760 / 55.536
P-40	Total Gross/Weapon System Cost			- / 2,680.902	- / 2.000	3,420 / 53.453	4,760 / 55.536	- / -	4,760 / 55.536

*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 2017 Base procurement dollars in the amount of \$55.536 million supports the procurement of 4,760 FWS-I systems for Low Rate Initial Production (LRIP).

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)		-	-	3,420	4,760	-	4,760
Gross/Weapon System Cost (<i>\$ in Millions</i>)		-	2.000	53.453	55.536	-	55.536
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		-	2.000	53.453	55.536	-	55.536
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		-	2.000	53.453	55.536	-	55.536
<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>)		-	-	15.630	11.667	-	11.667

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
FWS - I Hardware (Test Assets) ^(f)	-	-	-	-	-	-	66.861	208	13.907	-	-	-	-	-	-	-	-	-
FWS - I Hardware (LRIP Assets) ^(f)	-	-	-	-	-	-	8.420	3,212	27.044	7.500	4,760	35.698	-	-	-	7.500	4,760	35.698
Program Management Support	-	-	-	-	-	2.000	-	-	1.897	-	-	3.107	-	-	-	-	-	3.107
Government Engineering Support	-	-	-	-	-	-	-	-	0.826	-	-	1.942	-	-	-	-	-	1.942
Fielding	-	-	-	-	-	-	-	-	2.208	-	-	8.405	-	-	-	-	-	8.405
Engineering Change Proposal	-	-	-	-	-	-	-	-	-	-	-	1.072	-	-	-	-	-	1.072
Testing	-	-	-	-	-	-	-	-	-	-	-	1.071	-	-	-	-	-	1.071
Ancillary Support	-	-	-	-	-	-	-	-	3.084	-	-	2.241	-	-	-	-	-	2.241
Documentation	-	-	-	-	-	-	-	-	4.487	-	-	2.000	-	-	-	-	-	2.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.000	-	-	53.454	-	-	55.538	-	-	-	-	-	55.538
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	2.000	-	-	53.454	-	-	55.538	-	-	-	-	-	55.538
Gross/Weapon System Cost	-	-	-	-	-	2.000	15.630	3,420	53.453	11.667	4,760	55.536	-	-	-	11.667	4,760	55.536

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	2,713	3,808	-	3,808
	Total Obligation Authority	2.000	42.410	44.345	-	44.345
ANG	Quantity	-	707	952	-	952
	Total Obligation Authority	-	11.043	11.191	-	11.191
Total: Secondary Distribution	Quantity	-	3,420	4,760	-	4,760
	Total Obligation Authority	2.000	53.453	55.536	-	55.536

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
--	--	--

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
FWS - I Hardware (Test Assets) ^(†)		2016	BAE Systems / Nashua, NH	C / IDIQ	ACC-APG	Jul 2016	Oct 2016	104	66.861	Y		
FWS - I Hardware (Test Assets) ^(†)		2016	DRS,RSTA, Inc. / Dallas, TX	C / IDIQ	ACC-APG	Jul 2016	Oct 2016	104	66.681	Y		
FWS - I Hardware (LRIP Assets) ^(†)		2016	BAE Systems / Nashua, NH	C / IDIQ	ACC-APG	May 2017	Jul 2017	1,606	5.301	Y		
FWS - I Hardware (LRIP Assets) ^(†)		2016	DRS,RSTA, Inc. / Dallas, TX	C / IDIQ	ACC-APG	May 2017	Jul 2017	1,606	5.301	Y		
FWS - I Hardware (LRIP Assets) ^(†)		2017	BAE Systems / Nashua, NH	C / IDIQ	ACC-APG	May 2017	Jul 2017	2,380	7.500	Y		
FWS - I Hardware (LRIP Assets) ^(†)		2017	DRS,RSTA, Inc. / Dallas, TX	C / IDIQ	ACC-APG	May 2017	Jul 2017	2,380	7.500	Y		

^(†) indicates the presence of a P-21

Remarks:

The May 2014 FWS-I Engineering and Manufacturing Development/ Low Rate Initial Production contracts, awarded to BAE Systems and DRS, RSTA, Inc, were protested by Raytheon. A subsequent reconvened Source Selection upheld the original awards in December 2014. A protest was again levied by Raytheon and a stop work order was issued, on both contracts, until resolution. On 13 January 2015, the stop work order was lifted on the DRS contract. As a result of the ten (10) month stop work period, the scheduled MS C slipped to July 2016. Majority of the FY 2015 funding was returned to the Army Budget Office.

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS) **Item Number / Title [DODIC]:** K22002 / FWS-INDIVIDUAL

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
FWS - I Hardware (Test Assets)																																	
1		2016	ARMY ^(X)	104	104	-																								-			
2		2016	ARMY ^(XI)	104	104	-																								-			
FWS - I Hardware (LRIP Assets)																																	
3		2016	ARMY ^(XII)	1,606	402	1,204	134	134	134	134	134	134	134	132	134															-			
4		2016	ARMY ^(XIV)	1,606	402	1,204	134	134	134	134	134	134	134	132	134															-			
3		2017	ARMY ^(XIII)	2,380	591	1,789	199	199	199	199	199	199	199	199	197															-			
4		2017	ARMY ^(XV)	2,380	591	1,789	199	199	199	199	199	199	199	197																-			
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	BAE Systems - Nashua, NH	10	580	1,000	2	9	3	12	2	7	2	9
2	DRS,RSTA, Inc. - Dallas, TX	7	580	1,000	2	9	3	12	2	7	2	9
3	BAE Systems - Nashua, NH	10	580	1,000	2	9	3	12	2	7	2	9
4	DRS,RSTA, Inc. - Dallas, TX	7	580	1,000	2	9	3	12	2	7	2	9

"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).

Service/Agency Suffixes:

- (X) BASE
- (XI) BASE
- (XII) BASE
- (XIII) BASE
- (XIV) BASE
- (XV) BASE

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: AD3200 / Artillery Accuracy Equip
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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	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	68	30	56	57	-	57	-	-	-	-	-	211
Gross/Weapon System Cost (<i>\$ in Millions</i>)	245.582	5.875	3.338	4.187	-	4.187	2.129	-	-	-	-	261.111
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	245.582	5.875	3.338	4.187	-	4.187	2.129	-	-	-	-	261.111
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	245.582	5.875	3.338	4.187	-	4.187	2.129	-	-	-	-	261.111

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	3,611.500	195.833	59.607	73.456	-	73.456	-	-	-	-	-	1,237.493

Description:

The Improved Position and Azimuth Determining System (IPADS) provided common inertial survey control for all U.S. Army and Marine Corps Field Artillery, Mortar, Artillery Meteorological and Radar systems. The IPADS, enhanced with the Global Positioning System (GPS) (IPADS-G), will address deficiencies of the fire support community by providing the ability to maintain the current accuracy of the IPADS without stopping for zero velocity updates, therefore increasing artillery timeliness, availability of fires, lethality, survivability, and force protection on extended convoys or artillery missions. The IPADS-G may be aided by an internal GPS receiver; however, it must also be capable of operating in an inertial fashion independently of GPS aiding.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	16	28	18	-	18	-	-	-	-
	Total Obligation Authority	4.175	1.669	1.434	-	1.434	1.055	-	-	-
ANG	Quantity	14	28	39	-	39	-	-	-	-
	Total Obligation Authority	1.700	1.669	2.753	-	2.753	1.074	-	-	-
Total: Secondary Distribution	Quantity	30	56	57	-	57	-	-	-	-
	Total Obligation Authority	5.875	3.338	4.187	-	4.187	2.129	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: AD3200 / Artillery Accuracy Equip
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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	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	M75700 / POSITION AZIMUTH DETERMINING SYS (PADS)		A	68 / 245.582	30 / 5.875	56 / 3.338	57 / 4.187	- / -	57 / 4.187
P-40	Total Gross/Weapon System Cost			68 / 245.582	30 / 5.875	56 / 3.338	57 / 4.187	- / -	57 / 4.187

*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 2017 Base procurement funds in the amount of \$4.187 million supports the completion of the IPADS-G model conversion and the acquisition of a Control and Display Unit - Replacement (CDU-R). The CDU-R is a hardware refresh effort to address obsolescence of electronic components. The Army previously contracted for the engineering change proposal to provide the GPS upgrade to the 278 IPADS in the inventory, making them the IPADS-G model. The requested funding supports the continued fielding of the IPADS-G, including essential fielding costs such as engineering support, shipping to and from the contractor location, publications, software updates, and new equipment training. IPADS-G with the updated CDU-R provides the capability for common survey enabling safe, accurate, and lethal fires.

"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-40a, Budget Item Justification For Aggregated Items: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** AD3200 / Artillery Accuracy Equip **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
POSITION AZIMUTH DETERMINING SYS (PADS)																				
M75700 / POSITION AZIMUTH DETERMINING SYS (PADS)	A		3,611.500	68	245.582	195.833	30	5.875	59.607	56	3.338	73.456	57	4.187	-	-	-	73.456	57	4.187
<i>Secondary Distribution</i>																				
Army				-	-		16	4.175		28	1.669		18	1.434		-	-		18	1.434
ANG				-	-		14	1.700		28	1.669		39	2.753		-	-		39	2.753
Subtotal: POSITION AZIMUTH DETERMINING SYS (PADS)			-	-	245.582	-	-	5.875	-	-	3.338	-	-	4.187	-	-	-	-	-	4.187
Total			-	-	245.582	-	-	5.875	-	-	3.338	-	-	4.187	-	-	-	-	-	4.187

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 2017 Army **Date:** February 2016

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: K27900 / Profiler
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	272	-	-	-	-	-	-	-	-	-	-	272
Gross/Weapon System Cost (<i>\$ in Millions</i>)	210.872	3.115	4.057	-	-	-	0.375	-	-	-	-	218.419
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	210.872	3.115	4.057	-	-	-	0.375	-	-	-	-	218.419
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	210.872	3.115	4.057	-	-	-	0.375	-	-	-	-	218.419

(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>)	775.265	-	-	-	-	-	-	-	-	-	-	803.011

Description:

The Profiler Virtual Module (PVM) provides meteorological (MET) data that includes wind speed, wind direction, temperature, barometric pressure, and humidity information required for use in the Advanced Field Artillery Tactical Data System (AFATDS). The correctional information is necessary for precise targeting and terminal guidance to Field Artillery assets. PVM improves accuracy of predictive fires solutions and allows for first round effects on target and reduces the risk of fratricide. This capability increases the lethality of indirect fire systems such as the rocket launchers, self-propelled or towed howitzers, and mortars.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.115	4.057	-	-	-	0.375	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.115	4.057	-	-	-	0.375	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K27900 / Profiler
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	K27900 / Profiler			272 / 210.872	- / 3.115	- / 4.057	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			272 / 210.872	- / 3.115	- / 4.057	- / -	- / -	- / -

*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:
 There is no FY 2017 Base procurement funding request.

 The FY 2017 funding request was reduced by \$0.563 million to account for the availability of prior year execution balances.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army											Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: K27900 / Profiler					Item Number / Title [DODIC]: K27900 / Profiler						
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (<i>Units in Each</i>)				272		-		-		-		-		-			
Gross/Weapon System Cost (<i>\$ in Millions</i>)				210.872		3.115		4.057		-		-		-			
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-			
Net Procurement (P-1) (<i>\$ in Millions</i>)				210.872		3.115		4.057		-		-		-			
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-			
Total Obligation Authority (<i>\$ in Millions</i>)				210.872		3.115		4.057		-		-		-			
<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>)				775.265		-		-		-		-		-		-	

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Profiler Block III Hardware - CMD-P	-	-	65.252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	65.252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	65.252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	-	-	-	2.220	-	-	3.100	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	-	-	-	2.220	-	-	3.100	-	-	-	-	-	-	-	-	-
Support - Data Cost																		
Engineering Data	-	-	3.872	-	-	0.042	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	3.872	-	-	0.042	-	-	-	-	-	-	-	-	-	-	-	-
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	7.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	7.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	18.697	-	-	0.300	-	-	0.532	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	18.697	-	-	0.300	-	-	0.532	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: K27900 / Profiler						Item Number / Title [DODIC]: K27900 / Profiler					

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Program Management Cost																		
Government Management	-	-	8.338	-	-	0.160	-	-	0.425	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	8.338	-	-	0.160	-	-	0.425	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	99.056	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	99.056	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	5.586	-	-	0.393	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	5.586	-	-	0.393	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	2.534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	2.534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	775.265	272	210.872	-	-	3.115	-	-	4.057	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.115	4.057	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.115	4.057	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ7325 / Mod Of In-Svc Equip (Firefinder Radars)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,017.662	4.186	-	-	-	-	-	-	-	-	-	1,021.848
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,017.662	4.186	-	-	-	-	-	-	-	-	-	1,021.848
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,017.662	4.186	-	-	-	-	-	-	-	-	-	1,021.848

(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:

Mod of In-Service Equipment (Firefinder Radars) funds the modifications to the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The Firefinder Radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy Rockets, Artillery and Mortar (RAM) with sufficient accuracy, and transmit the target data to appropriate counter fire elements in near real time. The AN/TPQ-36 is phased-array radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) High Mobility Multi-purpose Wheeled Vehicles (HMMWVs) making it highly mobile and transportable. The AN/TPQ-37 is a phased-array radar with a longer target acquisition range allowing it to locate RAM. The system is configured on a M1048A1 6-ton trailer which is towed by a 5-ton prime mover. The system has a spare 5-ton cargo truck and the Operations Central (OC) is mounted on a M1113 HMMWV truck. Operationally-required software enhancements and technology insertions for parts obsolescence are necessary to maintain both radars' ability to locate current and emerging threats such as rockets normally used for direct fire. Both systems will receive a ruggedized laptop computer refresh in order to stay up to date and ensure interoperability. The new ruggedized laptop computer will be interchangeable between the AN/TPQ-36 and AN/TPQ-37.

Army Acquisition Objective (AAO):

AN/TPQ-36 - 116 (1 per Brigade Combat Team (BCT); Armored, Stryker & Light)

AN/TPQ-37 - 70 (1 per Armored and Stryker BCT; 2 per Active Component (AC) Field Artillery Brigade; 1 per AC Division Artillery; 1 per National Guard (NG) Fires Brigade)

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.186	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.186	-	-	-	-	-	-	-

Justification:

There is no FY 2017 Base procurement funding request.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BZ7325 / Mod Of In-Svc Equip (Firefinder Radars)
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		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203759A, 0604805A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	498	1,522	3,204	3,329	-	3,329	3,357	3,244	3,445	3,842	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	415.341	87.892	133.339	137.501	-	137.501	139.088	135.010	143.338	158.706	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	415.341	87.892	133.339	137.501	-	137.501	139.088	135.010	143.338	158.706	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	415.341	87.892	133.339	137.501	-	137.501	139.088	135.010	143.338	158.706	Continuing	Continuing

(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>)	834.018	57.748	41.616	41.304	-	41.304	41.432	41.618	41.608	41.308	Continuing	Continuing

Description:

The Joint Battle Command - Platform (JBC-P) program is the cornerstone of joint forces Command and Control (C2) Situational Awareness (SA) and communications. JBC-P provides secure Blue Force Tracking capability in Platforms and Command Posts, providing soldiers and commanders a map-based Common Operating Picture of the battlefield, as a result, reducing fratricide.

The JBC-P program fields hardware (vehicle platform computer systems, satellite transceivers, encryption devices, and ancillary equipment), software capabilities, and will continue to leverage the Army's previous equipment investments by installing the new JBC-P software on new hardware as well as existing Force XXI Battle Command Brigade and Below (FBCB2) computer systems.

JBC-P serves a primary role as the basis of the Mounted Computing Environment (MCE), one of six (6) environments within the Common Operating Environment (COE) framework. The COE is a standardized set of computing technologies that enable secure and interoperable applications to be rapidly developed and executed across a variety of computing environments. The MCE leverages JBC-P hardware and software to consolidate and integrate multiple warfighting systems in the Platform (Mounted) environment. This integrated MCE, with its open standards, enhanced interoperability, and simplified end-user interface, will speed delivery of the new Mission Command applications to the warfighter while improving the effectiveness and value of current systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	1,119	2,355	2,447	-	2,447	2,467	2,384	2,532	2,823
	Total Obligation Authority	61.951	97.395	100.781	-	100.781	104.178	98.750	103.044	118.706
ANG	Quantity	236	497	516	-	516	521	504	535	597
	Total Obligation Authority	15.173	23.960	24.380	-	24.380	23.240	24.440	26.230	25.000
AR	Quantity	167	352	366	-	366	369	356	378	422
	Total Obligation Authority	10.768	11.984	12.340	-	12.340	11.670	11.820	14.064	15.000
Total: Secondary Distribution	Quantity	1,522	3,204	3,329	-	3,329	3,357	3,244	3,445	3,842
	Total Obligation Authority	87.892	133.339	137.501	-	137.501	139.088	135.010	143.338	158.706

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
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ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203759A, 0604805A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		498 / 415.341	1,522 / 87.892	3,204 / 133.339	3,329 / 137.501	- / -	3,329 / 137.501
P-40	Total Gross/Weapon System Cost			498 / 415.341	1,522 / 87.892	3,204 / 133.339	3,329 / 137.501	- / -	3,329 / 137.501

*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 2017 Base Procurement dollars in the amount of \$137.501 million supports the procurement of 2,896 vehicle platform computer systems, 433 Command Post systems, satellite transceivers, encryption devices, ancillary equipment, program management support, training, fielding, publications, support equipment, and Post Deployment Software and Support (PDSS).

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	498	1,522	3,204	3,329	-	3,329
Gross/Weapon System Cost (\$ in Millions)	415.341	87.892	133.339	137.501	-	137.501
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	415.341	87.892	133.339	137.501	-	137.501
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	415.341	87.892	133.339	137.501	-	137.501

(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)	834.018	57.748	41.616	41.304	-	41.304

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
JBC-P Veh Computer; LIN C05036 ^(t)	9.300	498	4.631	16.205	1,522	24.664	16.205	3,204	51.921	16.205	2,834	45.925	-	-	-	16.205	2,834	45.925
JBC-P Cmd Post; LIN C05037 ^(t)	-	-	-	-	-	-	-	-	-	14.456	165	2.385	-	-	-	14.456	165	2.385
JBC-P Log Mobile; LIN C05055 ^(t)	-	-	-	-	-	-	-	-	-	14.255	62	0.884	-	-	-	14.255	62	0.884
JBC-P Log Cmd Post; LIN C05054 ^(t)	-	-	-	-	-	-	-	-	-	11.446	268	3.068	-	-	-	11.446	268	3.068
Ancillary HW / Iks	-	-	13.699	-	-	2.722	-	-	5.000	-	-	6.000	-	-	-	-	-	6.000
System Engineering	-	-	27.028	-	-	1.500	-	-	2.500	-	-	2.500	-	-	-	-	-	2.500
Engineering Changes	-	-	-	-	-	-	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
Subtotal: Recurring Cost	-	-	45.358	-	-	28.886	-	-	59.921	-	-	61.262	-	-	-	-	-	61.262
Non Recurring Cost																		
Non-Recurring Eng (ABCT)	-	-	12.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	12.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	57.535	-	-	28.886	-	-	59.921	-	-	61.262	-	-	-	-	-	61.262
Support - Fielding Cost																		
Fielding	-	-	22.113	-	-	19.500	-	-	30.000	-	-	33.000	-	-	-	-	-	33.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	22.113	-	-	19.500	-	-	30.000	-	-	33.000	-	-	-	-	-	33.000
Support - Industrial Facilities Cost																		
Equipment Acquisition or Modernization	-	-	253.457	-	-	3.980	-	-	7.918	-	-	9.214	-	-	-	-	-	9.214
<i>Subtotal: Support - Industrial Facilities Cost</i>	-	-	253.457	-	-	3.980	-	-	7.918	-	-	9.214	-	-	-	-	-	9.214
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	0.520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	0.520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Peculiar Support Equipment Cost																		
Support and Handling Equipment	-	-	6.968	-	-	1.750	-	-	2.000	-	-	2.100	-	-	-	-	-	2.100
<i>Subtotal: Support - Peculiar Support Equipment Cost</i>	-	-	6.968	-	-	1.750	-	-	2.000	-	-	2.100	-	-	-	-	-	2.100
Support - Program Management Cost																		
Government Management	-	-	32.873	-	-	12.000	-	-	10.500	-	-	10.500	-	-	-	-	-	10.500
Contractor Management	-	-	20.864	-	-	5.500	-	-	5.000	-	-	5.000	-	-	-	-	-	5.000
<i>Subtotal: Support - Program Management Cost</i>	-	-	53.737	-	-	17.500	-	-	15.500	-	-	15.500	-	-	-	-	-	15.500
Support - System Engineering Cost																		
System Engineering	-	-	6.874	-	-	8.000	-	-	8.000	-	-	6.426	-	-	-	-	-	6.426
<i>Subtotal: Support - System Engineering Cost</i>	-	-	6.874	-	-	8.000	-	-	8.000	-	-	6.426	-	-	-	-	-	6.426
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	5.598	-	-	4.500	-	-	4.000	-	-	4.000	-	-	-	-	-	4.000
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	5.598	-	-	4.500	-	-	4.000	-	-	4.000	-	-	-	-	-	4.000
Support - Training Cost																		
Equipment	-	-	8.539	-	-	3.776	-	-	6.000	-	-	6.000	-	-	-	-	-	6.000
<i>Subtotal: Support - Training Cost</i>	-	-	8.539	-	-	3.776	-	-	6.000	-	-	6.000	-	-	-	-	-	6.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
ID Code (A=Service Ready, B=Not Service Ready) :		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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	834.018	498	415.341	57.748	1,522	87.892	41.616	3,204	133.339	41.304	3,329	137.501	-	-	-	41.304	3,329	137.501

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,119	2,355	2,447	-	2,447
	Total Obligation Authority	61.951	97.395	100.781	-	100.781
ANG	Quantity	236	497	516	-	516
	Total Obligation Authority	15.173	23.960	24.380	-	24.380
AR	Quantity	167	352	366	-	366
	Total Obligation Authority	10.768	11.984	12.340	-	12.340
Total:	Quantity	1,522	3,204	3,329	-	3,329
Secondary Distribution	Total Obligation Authority	87.892	133.339	137.501	-	137.501

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
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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
JBC-P Veh Computer; LIN C05036 ^(†)		2015	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2014	May 2015	1,522	16.205			
JBC-P Veh Computer; LIN C05036 ^(†)		2016	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2015	May 2016	3,204	16.205	Y		Nov 2015
JBC-P Veh Computer; LIN C05036 ^(†)		2017	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2016	May 2017	2,834	16.205			
JBC-P Cmd Post; LIN C05037		2015	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2014	May 2015	-	-	Y		Nov 2014
JBC-P Cmd Post; LIN C05037		2016	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2015	May 2016	-	-	Y		Nov 2015
JBC-P Cmd Post; LIN C05037 ^(†)		2017	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2016	May 2017	165	14.456	Y		Nov 2016
JBC-P Log Mobile; LIN C05055		2016	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2015	May 2016	-	-	Y		Nov 2015
JBC-P Log Mobile; LIN C05055 ^(†)		2017	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2016	May 2017	62	14.255	Y		Nov 2016
JBC-P Log Cmd Post; LIN C05054		2016	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2015	May 2016	-	-	Y		Nov 2015
JBC-P Log Cmd Post; LIN C05054 ^(†)		2017	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2016	May 2017	268	11.446	Y		Nov 2016

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
JBC-P Veh Computer; LIN C05036																																	
Prior Years Deliveries: 498																																	
	1	2015	ARMY	1,522	-	1,522		A	-	-	-	-	-	-	127	127	127	127	127	127	127	127	127	127	127	127	127	125		-			
	1	2016	ARMY	3,204	-	3,204																						267	267	267	267	267	1,869
	1	2017	ARMY	2,834	-	2,834																									2,834		
JBC-P Cmd Post; LIN C05037																																	
	2	2017	ARMY	165	-	165																									165		
JBC-P Log Mobile; LIN C05055																																	
	3	2017	ARMY	62	-	62																									62		
JBC-P Log Cmd Post; LIN C05054																																	
	4	2017	ARMY	268	-	268																									268		
								O C T	N O V	D E C	J A N	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 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)									

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			
JBC-P Veh Computer; LIN C05036																																	
Prior Years Deliveries: 498																																	
1		2015	ARMY	1,522	1,522	-																											
1		2016	ARMY	3,204	1,335	1,869	267	267	267	267	267	267	267																				
1		2017	ARMY	2,834	-	2,834		A -	-	-	-	-	-	236	236	236	236	236	236	236	236	236	236	236	236	236	236	238					
JBC-P Cmd Post; LIN C05037																																	
2		2017	ARMY	165	-	165		A -	-	-	-	-	-	14	14	14	14	14	14	14	14	14	14	14	14	14	14	11					
JBC-P Log Mobile; LIN C05055																																	
3		2017	ARMY	62	-	62		A -	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7					
JBC-P Log Cmd Post; LIN C05054																																	
4		2017	ARMY	268	-	268		A -	-	-	-	-	-	22	22	22	22	22	22	23	23	23	23	23	23	23	20						
								O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	150	220	1,200	1	1	5	6	1	1	5	6
2	DRS Tactical - Melbourne, FL	150	220	1,200	1	1	5	6	1	1	5	6
3	DRS Tactical - Melbourne, FL	150	220	1,200	1	1	5	6	1	1	5	6
4	DRS Tactical - Melbourne, FL	150	220	1,200	1	1	5	6	1	1	5	6

"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 2017 Army **Date:** February 2016

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: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	71	150	-	150	181	175	298	371	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	47.212	50.726	-	50.726	48.664	43.511	73.575	91.566	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	47.212	50.726	-	50.726	48.664	43.511	73.575	91.566	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	47.212	50.726	-	50.726	48.664	43.511	73.575	91.566	Continuing	Continuing

(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>)	-	-	664.958	338.173	-	338.173	268.862	248.634	246.896	246.809	Continuing	Continuing

Description:

The Joint Effects Targeting System (JETS) Target Locator/Designator System (TLDS) provides the individual dismounted observer and the joint terminal attack controller an integrated, lightweight, modular capability to detect, identify, accurately locate targets in three dimensions; mark, and designate targets and provide accurate target location coordinates to a forward entry device for engagement with precision munitions. The JETS TLDS is an Army program with joint information (Air Force and Marine Corps).

JETS will support the Army Fires Center of Excellence Fires sensor strategy to reduce the number of Fires optical targeting systems to two configurations. JETS will satisfy the requirement for the dismounted precision targeting sensor for the individual observer.

The Approved Acquisition Objective for this program is 3,355.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	-	71	90	-	90	109	105	179	223
Total Obligation Authority	-	47.212	30.356	-	30.356	25.823	22.799	43.877	55.144
ANG	-	-	60	-	60	72	70	119	148
Total Obligation Authority	-	-	20.370	-	20.370	22.841	20.712	29.698	36.412
Total: Secondary Distribution	-	71	150	-	150	181	175	298	371
Total Obligation Authority	-	47.212	50.726	-	50.726	48.664	43.511	73.575	91.556

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	P-5a, P-21	A	- / -	- / -	71 / 47.212	150 / 50.726	- / -	150 / 50.726
P-40	Total Gross/Weapon System Cost			- / -	- / -	71 / 47.212	150 / 50.726	- / -	150 / 50.726

*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 2017 Base procurement dollars in the amount of \$50.726 million supports the procurement of 150 JETS.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	71	150	-	150
Gross/Weapon System Cost (\$ in Millions)	-	-	47.212	50.726	-	50.726
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	47.212	50.726	-	50.726
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	47.212	50.726	-	50.726

(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)	-	-	664.958	338.173	-	338.173

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Joint Effects Targeting System ^(†)	-	-	-	-	-	-	258.648	71	18.364	232.783	150	34.917	-	-	-	232.783	150	34.917
Project Management	-	-	-	-	-	-	-	-	2.181	-	-	2.247	-	-	-	-	-	2.247
Systems Engineering Support	-	-	-	-	-	-	-	-	4.429	-	-	4.518	-	-	-	-	-	4.518
Training	-	-	-	-	-	-	-	-	3.009	-	-	5.973	-	-	-	-	-	5.973
Fielding	-	-	-	-	-	-	-	-	0.341	-	-	0.720	-	-	-	-	-	0.720
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	28.324	-	-	48.375	-	-	-	-	-	48.375
Non Recurring Cost																		
Initial Non-Recurring Engineering	-	-	-	-	-	-	-	-	14.955	-	-	2.351	-	-	-	-	-	2.351
System Test and Evaluation	-	-	-	-	-	-	-	-	3.933	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	18.888	-	-	2.351	-	-	-	-	-	2.351
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	47.212	-	-	50.726	-	-	-	-	-	50.726
Gross/Weapon System Cost	-	-	-	-	-	-	664.958	71	47.212	338.173	150	50.726	-	-	-	338.173	150	50.726

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	71	90	-	90
	Total Obligation Authority	-	47.212	30.356	-	30.356
ANG	Quantity	-	-	60	-	60
	Total Obligation Authority	-	-	20.370	-	20.370
Total: Secondary Distribution	Quantity	-	71	150	-	150
	Total Obligation Authority	-	47.212	50.726	-	50.726

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)				Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Joint Effects Targeting System ^(†)		2016	TBS / TBS	C / FFP	ACC APG	Sep 2016	Sep 2017	71	258.648	N	Jun 2016	
Joint Effects Targeting System ^(†)		2017	TBS / TBS	C / FFP	ACC APG	Mar 2017	Mar 2018	150	232.783	N		

^(†) indicates the presence of a P-21

Remarks:

JETS is currently in the Engineering and Manufacturing Development (EMD) phase of the acquisition lifecycle, scheduled to achieve Milestone C (Low Rate Initial Production (LRIP)) in May 2016. Contractor has not been selected. Program is still in development. Contractor will be selected after MS C.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)										Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018										Fiscal Year 2019										B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G
Joint Effects Targeting System																														
1		2016	ARMY	71	2	69	6	7	9	9	9	9	10	10																-
1		2017	ARMY	150	-	150	-	-	-	-	-	10	10	10	10	10	10	12	12	12	14	14	14	12						-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
		Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	TBS - TBS	5	40	50	3	12	12	24	3	6	15	21

"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 2017 Army **Date:** February 2016

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: KA3100 / Mod Of In-Svc Equip (LLDR)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	596	83	59	74	-	74	64	83	134	114	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	200.611	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	200.611	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	200.611	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271	Continuing	Continuing

(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>)	336.596	203.434	378.203	379.162	-	379.162	406.219	378.735	344.866	353.254	Continuing	Continuing

Description:

MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR, AN/PED-1 and AN/PED-1A) to incorporate target location improvements. The upgraded LLDR system is type classified as an AN/PED-1B (referred to as LLDR 2H). The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) guided and laser guided precision munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal night vision sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements, resulting in lower sustainment costs. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams. FY 2015 and FY 2016 funded Engineering Change Proposal (ECP) will provide 24/7 all-weather precision targeting, increased target acquisition range, support mounted operations, improve reliability, durability, and power consumption and integrate with Fires C4I systems to increase Warfighter effectiveness.

The LLDR with target location improvements will support the Army Fires Center of Excellence Fires sensor strategy to reduce the number of Fires optical targeting systems to two configurations. LLDR will continue to fill its role as a crew-served, dismounted precision targeting system and will in the future integrate with Fire Support vehicle mission equipment packages to also serve as the mounted Fires targeting system. Funding in this program supports upgrade of LLDR for increased target location accuracy to facilitate employment of currently fielded GPS guided Precision Munitions by dismounted fire support teams.

The Army Acquisition Objective (AAO) for this program is 2,700. Only 200 of the AAO were built in the 2H configuration, the remaining 2,500 require retrofit.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	51	35	44	-	44	38	50	80	68
	Total Obligation Authority	10.373	13.237	16.683	-	16.683	14.946	18.651	26.306	24.047
ANG	Quantity	32	24	30	-	30	26	33	54	46
	Total Obligation Authority	6.512	9.077	11.375	-	11.375	11.052	12.784	19.906	16.224
Total:	Quantity	83	59	74	-	74	64	83	134	114

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: KA3100 / Mod Of In-Svc Equip (LLDR)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: KA3100 / Mod Of In-Svc Equip (LLDR)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	KA3100 / LLDR Target Location Improvement (Unclassified)			596 / 200.611	83 / 16.885	59 / 22.314	74 / 28.058	- / -	74 / 28.058
P-40	Total Gross/Weapon System Cost			596 / 200.611	83 / 16.885	59 / 22.314	74 / 28.058	- / -	74 / 28.058

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	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	KA3100 / LLDR Target Location Improvement (Unclassified)			64 / 25.998	83 / 31.435	134 / 46.212	114 / 40.271	Continuing	Continuing
P-40	Total Gross/Weapon System Cost			64 / 25.998	83 / 31.435	134 / 46.212	114 / 40.271	Continuing	Continuing

*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 2017 Base procurement dollars in the amount of \$28.058 million supports the retrofit of 74 existing LLDR systems with target location improvement.

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-3a, Individual Modification: PB 2017 Army										Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: KA3100 / Mod Of In-Svc Equip (LLDR)						Modification Number / Title: KA3100 / LLDR Target Location Improvement	

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	596	83	59	74	-	74	64	83	134	114	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	200.611	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	200.611	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	200.611	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271	Continuing	Continuing
<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>)	336.596	203.434	378.203	379.162	-	379.162	406.219	378.735	344.866	353.254	Continuing	Continuing

Description:

MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR, AN/PED-1 and AN/PED-1A) to incorporate target location improvements. The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) precision and laser guided munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal night vision sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements, resulting in lower sustainment costs. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	51	35	44	-	44	38	50	80	68
	Total Obligation Authority	10.373	13.237	16.683	-	16.683	14.946	18.651	26.306	24.047
ANG	Quantity	32	24	30	-	30	26	33	54	46
	Total Obligation Authority	6.512	9.077	11.375	-	11.375	11.052	12.784	19.906	16.224
Total:	Quantity	83	59	74	-	74	64	83	134	114
Secondary Distribution	Total Obligation Authority	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: KA3100 / Mod Of In-Svc Equip (LLDR)					Modification Number / Title: KA3100 / LLDR Target Location Improvement			
Models of Systems Affected: AN/PED-1 and AN/PED-1A				Modification Type: Unclassified				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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)	
Procurement													
<i>Modification Item 1 of 1: LLDR Target Location Improvement</i>													
A Kits													
Recurring													
AN/PED-1 and AN/PED-1A Retrofits	596 / 166.642	83 / 10.495	59 / 18.547	74 / 23.236	- / -	74 / 23.236	64 / 22.272	83 / 27.722	134 / 42.344	114 / 36.174	Continuing	Continuing	
Project Management/Engineering Support	0 / 17.811	- / 0.850	- / 0.860	- / 0.877	- / -	- / 0.877	- / 0.895	- / 0.913	- / 0.931	- / 0.995	Continuing	Continuing	
Systems Engineering Support	0 / 7.470	- / 2.051	- / 2.446	- / 2.462	- / -	- / 2.462	- / 2.045	- / 2.112	- / 2.077	- / 2.119	Continuing	Continuing	
Production Qualification Testing	0 / 0.309	- / -	- / -	- / 0.893	- / -	- / 0.893	- / 0.266	- / -	- / -	- / -	Continuing	Continuing	
Fielding	0 / 8.379	- / 0.452	- / 0.461	- / 0.590	- / -	- / 0.590	- / 0.520	- / 0.688	- / 0.860	- / 0.983	Continuing	Continuing	
<i>Subtotal: Recurring</i>	<i>- / 200.611</i>	<i>- / 13.848</i>	<i>- / 22.314</i>	<i>- / 28.058</i>	<i>- / -</i>	<i>- / 28.058</i>	<i>- / 25.998</i>	<i>- / 31.435</i>	<i>- / 46.212</i>	<i>- / 40.271</i>	<i>Continuing</i>	<i>Continuing</i>	
Non-Recurring													
Engineering Change Proposal	- / -	- / 3.037	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	<i>- / -</i>	<i>- / 3.037</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: LLDR Target Location Improvement</i>	<i>596 / 200.611</i>	<i>83 / 16.885</i>	<i>59 / 22.314</i>	<i>74 / 28.058</i>	<i>- / -</i>	<i>74 / 28.058</i>	<i>64 / 25.998</i>	<i>83 / 31.435</i>	<i>134 / 46.212</i>	<i>114 / 40.271</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>596 / 200.611</i>	<i>83 / 16.885</i>	<i>59 / 22.314</i>	<i>74 / 28.058</i>	<i>- / -</i>	<i>74 / 28.058</i>	<i>64 / 25.998</i>	<i>83 / 31.435</i>	<i>134 / 46.212</i>	<i>114 / 40.271</i>	<i>Continuing</i>	<i>Continuing</i>	
Installation													
<i>Modification Item 1 of 1: LLDR Target Location Improvement</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<i>Subtotal: Installation</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	200.611	16.885	22.314	28.058	-	28.058	25.998	31.435	46.212	40.271	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: KA3100 / Mod Of In-Svc Equip (LLDR)	Modification Number / Title: KA3100 / LLDR Target Location Improvement

Modification Item 1 of 1: LLDR Target Location Improvement

Manufacturer Information

Manufacturer Name: NGLS	Manufacturer Location: Apopka, FL
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022

Installation Information

Method of Implementation: Retrofit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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	596	21	21	21	20	15	15	15	14	18	18	19	19	16	16	16	16	21	21	21	20	34	34	33	33	29	29	28	28	1,293	2,500
Out	564	32	16	21	21	21	20	15	15	15	14	18	18	19	19	16	16	16	16	21	21	21	20	34	34	33	33	29	29	1,333	2,500

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K99200 / Computer Ballistics: LHMBC XM32
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	763	345	-	345	315	335	370	790	-	2,918
Gross/Weapon System Cost (<i>\$ in Millions</i>)	107.912	-	14.732	5.924	-	5.924	6.026	6.157	11.744	16.084	-	168.579
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	107.912	-	14.732	5.924	-	5.924	6.026	6.157	11.744	16.084	-	168.579
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.912	-	14.732	5.924	-	5.924	6.026	6.157	11.744	16.084	-	168.579

(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>)	-	-	19.308	17.171	-	17.171	19.130	18.379	31.741	20.359	-	57.772

Description:

The M32A1 and M32A2 Lightweight Handheld Mortar Ballistic Computer (LHMBC) calculates ballistic solutions that give the mortar user data to aim mortar weapon, set the charge, and serve as the Fire Direction Center for all mortar platforms. The M32A1 LHMBC communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS). The M32A2 communicates digitally on the newly fielded Soldier Radio Waveform (SRW) Fire Support Network. Both the M32A1 and M32A2 LHMBC versions provide firing computations for all calibers of mortars as well as digital messaging capability. The M32A1 LHMBC will utilize the Ruggedized Tactical Handheld Device (RTHD) platform and will be compatible with COE 1.0 compliance. The M32A2 LHMBC will utilize Nett Warrior (NW) Mobile/Handheld (M/HH) platform and will be compatible with Common Operating Environment (COE) 2.0 compliance.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	763	345	-	345	315	335	370	790
Total Obligation Authority	-	14.732	5.924	-	5.924	6.026	6.157	11.744	16.084
Total:									
Secondary Distribution									
Quantity	-	763	345	-	345	315	335	370	790
Total Obligation Authority	-	14.732	5.924	-	5.924	6.026	6.157	11.744	16.084

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K99200 / Computer Ballistics: LHMBC XM32
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	K99200 / Computer Ballistics: LHMBC XM32	P-5a, P-21	B	- / 107.912	- / -	763 / 14.732	345 / 5.924	- / -	345 / 5.924
P-40	Total Gross/Weapon System Cost			- / 107.912	- / -	763 / 14.732	345 / 5.924	- / -	345 / 5.924

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

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

Justification:
 FY 2017 Base procurement dollars in the amount of \$5.924 million supports the procurement of 345 each M32A2 LHMBC NW computers. The M32A2 LHMBC NW with the latest software are urgently needed to replace the obsolete M32 Ruggedized Personal Digital Assistance (RPDA) computers in the field. LHMBC eliminates the need of paper firing table, improves the accuracy of mortar ballistic calculation, and increases survivability of mortar crews by digitally connecting to Fire Support network to receive fire missions and Fire Support Coordination Measures to conduct fratricide check.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K99200 / Computer Ballistics: LHMBC XM32	Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMBC XM32

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	763	345	-	345
Gross/Weapon System Cost (\$ in Millions)	107.912	-	14.732	5.924	-	5.924
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	107.912	-	14.732	5.924	-	5.924
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	107.912	-	14.732	5.924	-	5.924

(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)	-	-	19.308	17.171	-	17.171

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
LHMBC M32A2 ⁽¹⁾	-	-	-	-	-	-	7.153	653	4.671	7.304	345	2.520	-	-	-	7.304	345	2.520
LHMBC M32A1 ⁽¹⁾	-	-	-	-	-	-	20.000	110	2.200	-	-	-	-	-	-	-	-	-
Production Engineering	-	-	107.912	-	-	-	-	-	1.724	-	-	1.854	-	-	-	-	-	1.854
Software Support	-	-	-	-	-	-	-	-	-	-	-	0.540	-	-	-	-	-	0.540
Fielding, Installation & New Equip Training	-	-	-	-	-	-	-	-	0.737	-	-	1.010	-	-	-	-	-	1.010
M32A2 COE SW	-	-	-	-	-	-	-	-	5.400	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	107.912	-	-	-	-	-	14.732	-	-	5.924	-	-	-	-	-	5.924
<i>Subtotal: Flyaway Cost</i>	-	-	107.912	-	-	-	-	-	14.732	-	-	5.924	-	-	-	-	-	5.924
Gross/Weapon System Cost	-	-	107.912	-	-	-	19.308	763	14.732	17.171	345	5.924	-	-	-	17.171	345	5.924

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	763	345	-	345
Total Obligation Authority	-	14.732	5.924	-	5.924
Total:					
Quantity	-	763	345	-	345

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K99200 / Computer Ballistics: LHMBC XM32	Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMBC XM32

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	-	14.732	5.924	-	5.924

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: K99200 / Computer Ballistics: LHMBC XM32					Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMBC XM32				
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
LHMBC M32A2 ^(t)		2016	TBS / TBD	C / FP	PM Soldier Warrior, Ft Belvoir	Mar 2016	Sep 2017	653	7.153	Y		
LHMBC M32A2 ^(t)		2017	TBS / TBD	C / FP	PM Soldier Warrior, Ft Belvoir	Mar 2017	May 2018	345	7.304	Y		
LHMBC M32A1 ^(t)		2016	TBS / TBD	C / FP	CECOM, Aberdeen	May 2016	Jul 2017	110	20.000	Y		

^(t) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army			Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: K99200 / Computer Ballistics: LHMBc XM32	Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMBc XM32

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016														Fiscal Year 2017												B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017												
							O C T	N O V	D E C	J A N	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			
LHMBc M32A2																																	
1		2016	ARMY	653	-	653																							80	573			
1		2017	ARMY	345	-	345																							345				
LHMBc M32A1																																	
2		2016	ARMY	110	-	110																							-				
							O C T	N O V	D E C	J A N	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			
																												40	70				

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: K99200 / Computer Ballistics: LHMCB XM32										Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMCB XM32									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LHMCB M32A2																																	
	1	2016	ARMY	653	80	573	80	80	80	80	80	80	80	80	13															-			
	1	2017	ARMY	345	-	345	-	-	-	-	-	-	-	-	67	80	80	80	38											-			
LHMCB M32A1																																	
	2	2016	ARMY	110	110	-																								-			
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: K99200 / Computer Ballistics: LHMBC XM32
Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMBC XM32		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	TBS - TBD	40	80	120	3	8	18	26	3	6	14	20
2	TBS - TBD	40	80	120	3	8	14	22	3	6	12	18

"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 2017 Army **Date:** February 2016

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: K99300 / Mortar Fire Control System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	178	236	413	17	430	502	333	105	-	-	1,784
Gross/Weapon System Cost (<i>\$ in Millions</i>)	369.596	29.040	10.075	22.331	2.572	24.903	22.839	12.412	8.923	-	-	477.788
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	369.596	29.040	10.075	22.331	2.572	24.903	22.839	12.412	8.923	-	-	477.788
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	369.596	29.040	10.075	22.331	2.572	24.903	22.839	12.412	8.923	-	-	477.788

(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>)	-	163.146	42.691	54.070	151.294	57.914	45.496	37.273	84.981	-	-	267.818

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) and the newly fielded Soldier Radio Waveform (SRW) fire support net. The MFCS consists of the M95/M96 version that is used on mounted 120mm mortars in Armored and Stryker Brigade Combat Teams, and the M150/M151 version used on the M120A1 120mm Towed Mortar that is fielded throughout all Infantry Brigade Combat Teams (IBCT). 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 M150 is used on the M120A1 120mm Towed Mortar that is mounted on the M1101 Trailer. The M151 is used on the M1097 HWMV that serves as the IBCT Mortar FDC. Both the M95 and M150 consist of five main components: 1) The Commander's Interface (CI) (M95) or Fire Control Computer (FCC)(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, shows weapon's azimuth and elevation, and the 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 (M96) or FCC (M151), installed in the FDC vehicle.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	36	236	413	17	430	502	333	105	-
	Total Obligation Authority	4.593	10.075	22.331	2.572	24.903	22.839	12.412	8.923	-
ANG	Quantity	142	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.447	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	178	236	413	17	430	502	333	105	-
	Total Obligation Authority	29.040	10.075	22.331	2.572	24.903	22.839	12.412	8.923	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: K99300 / Mortar Fire Control System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K99300 / Mortar Fire Control System	P-5a, P-21	A	- / 369.596	178 / 29.040	236 / 10.075	413 / 22.331	17 / 2.572	430 / 24.903
P-40	Total Gross/Weapon System Cost			- / 369.596	178 / 29.040	236 / 10.075	413 / 22.331	17 / 2.572	430 / 24.903

*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 2017 Base procurement dollars in the amount of \$22.331 million supports the procurement of 160 each M150 Tactical Radio Hardware Upgrade kits for Infantry Brigade Combat Teams (IBCTs); 72 each M95 Stryker Fire Control Computer (FCC) replacements for Stryker Brigade Combat Teams; 96 each M95 and 16 each M96 Fire Direction Center (FDC) computer replacements for Armored Brigade Combat Teams (ABCT). These upgrades are urgently required for fielding to 4 Infantry Brigade Combat Teams (IBCTs), 2 Stryker Brigade Combat Teams (SBCT) and 5 Armor Brigade Combat Teams (ABCT) to retain their Mortar Fire Control Systems (MFCS) Authority to Operate (ATO) in accordance with Information Assurance requirements. In addition, without these upgrades or replacements, the Mortar Fire Control Systems within the IBCTs, ABCTs, and SBCTs will not be able to maintain interoperability with the Fire Support Network software in phase with the Army's Common Operating Environment (COE) requirements. Funds will also support the procurement of 27ea M151 Stryker FDC kits to fill current Basis of Issue Plan (BOIP) shortages as well as procure 39 each M95 and 6 each M96 complete systems to support the Armored Multipurpose Vehicle (AMPV) IOTE and LRIP efforts. The MFCS improves the accuracy of the M120 towed 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, and MFCS also adds digital connectivity to the Fire Support network and connectivity to SINCGARS and Force XXI Battle Command Brigade and Below (FBCB2) situational awareness blue data.

Army Acquisition Objective for M150 totals 700
 Army Acquisition Objective for TALIN totals 700
 Army Acquisition Objective for M151 totals 138

FY17 OCO in the amount of \$2.572 million will replace 14 each M95 Mortar Fire Control Systems provided as Theater Provided Equipment (TPE) and 3 each M96 Mortar Fire Control System provided for European Reassurance Initiative (ERI) - Army Pre-Positioned Stock (APS). The 14 each M95 mortar fire control system assets in TPE are unservicable due to battle loss and battle damage from combat operations in Afghanistan. Replacement systems are required by deployed units to fight and defend. The 3 each M96 Mortar Fire Control System provided for European Reassurance Initiative supports the establishment of one ABCT for ERI.

The FY 2017 funding request was reduced by \$2.869 million to account for the availability of prior year execution balances.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army					Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: K99300 / Mortar Fire Control System			Item Number / Title [DODIC]: K99300 / Mortar Fire Control System		
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:			
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)			-	178	236	413	17	430
Gross/Weapon System Cost (\$ in Millions)			369.596	29.040	10.075	22.331	2.572	24.903
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			369.596	29.040	10.075	22.331	2.572	24.903
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			369.596	29.040	10.075	22.331	2.572	24.903
<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)			-	163.146	42.691	54.070	151.294	57.914

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
MFCS-D (M150/M151) ^(†)	-	-	-	106.563	142	15.132	-	-	-	-	-	-	-	-	-	-	-	-
M95 M1064 MFCS-M ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	162.950	14	2.281	162.950	14	2.281
M96 M577 MFCS-M ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	65.000	3	0.195	65.000	3	0.195
TALIN - Dependant of M150/M95 ^(†)	-	-	-	52.833	141	7.450	-	-	-	57.000	39	2.223	-	-	-	57.000	39	2.223
MFCS (M150)- SRW Radio Hardware Upgrade ^(†)	-	-	-	-	-	-	17.500	92	1.610	-	-	-	-	-	-	-	-	-
M95 M1064 FCC ^(†)	-	-	-	-	-	-	-	-	-	36.000	96	3.456	-	-	-	36.000	96	3.456
M96 M1064 FCC ^(†)	-	-	-	-	-	-	-	-	-	65.000	16	1.040	-	-	-	65.000	16	1.040
M95 AMPV ^(†)	-	-	-	-	-	-	-	-	-	165.000	39	6.435	-	-	-	165.000	39	6.435
M96 AMPV ^(†)	-	-	-	-	-	-	-	-	-	65.000	6	0.390	-	-	-	65.000	6	0.390
M95 Stryker FCC ^(†)	-	-	-	34.000	36	1.224	35.000	144	5.040	36.000	72	2.592	-	-	-	36.000	72	2.592
M151 Stryker FDC Kit ^(†)	-	-	-	-	-	-	-	-	-	60.000	27	1.620	-	-	-	60.000	27	1.620
Government ILS	-	-	0.559	-	-	0.110	-	-	0.510	-	-	0.485	-	-	-	-	-	0.485
Production Engineering	-	-	369.037	-	-	2.550	-	-	2.040	-	-	2.300	-	-	-	-	-	2.300

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: K99300 / Mortar Fire Control System
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Support	-	-	-	-	-	0.858	-	-	0.875	-	-	0.678	-	-	-	-	-	0.678
Fielding, Installation & New Equip Trng	-	-	-	-	-	1.112	-	-	-	-	-	1.112	-	-	0.096	-	-	1.208
First Article Testing	-	-	-	-	-	0.454	-	-	-	-	-	-	-	-	-	-	-	-
Manuals	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	369.596	-	-	29.040	-	-	10.075	-	-	22.331	-	-	2.572	-	-	24.903
<i>Subtotal: Flyaway Cost</i>	-	-	369.596	-	-	29.040	-	-	10.075	-	-	22.331	-	-	2.572	-	-	24.903
Gross/Weapon System Cost	-	-	369.596	163.146	178	29.040	42.691	236	10.075	54.070	413	22.331	151.294	17	2.572	57.914	430	24.903

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	36	236	413	17	430
	Total Obligation Authority	4.593	10.075	22.331	2.572	24.903
ANG	Quantity	142	-	-	-	-
	Total Obligation Authority	24.447	-	-	-	-
Total: Secondary Distribution	Quantity	178	236	413	17	430
	Total Obligation Authority	29.040	10.075	22.331	2.572	24.903

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MFCS-D (M150/M151) ^(†)		2015	ESW, Inc / Fort Worth, Texas	SS / FFP	Picatinny, NJ	Sep 2015	Jun 2016	142	106.563	Y		
M95 M1064 MFCS-M ^(†)	✓	2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Nov 2018	14	162.950	Y		
M96 M577 MFCS-M ^(†)	✓	2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Nov 2018	3	65.000	Y		
TALIN - Dependant of M150/M95 ^(†)		2015	Honeywell Sensor and Guidance / Clearwater, FL	C / FFP	Warren, MI	Apr 2015	Jan 2016	141	52.833	Y		
TALIN - Dependant of M150/M95 ^(†)		2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Oct 2018	39	57.000	Y		
MFCS (M150)- SRW Radio Hardware Upgrade ^(†)		2016	TBS / TBD	C / FFP	Picatinny, NJ	Jun 2016	Jul 2017	92	17.500	Y		
M95 M1064 FCC ^(†)		2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	May 2018	96	36.000	Y		
M96 M1064 FCC ^(†)		2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Jul 2018	16	65.000	Y		
M95 AMPV ^(†)		2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Apr 2018	39	165.000	Y		
M96 AMPV ^(†)		2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Jul 2018	6	65.000	Y		
M95 Stryker FCC ^(†)		2015	ESW, Inc / Fort Worth, Texas	SS / FFP	Picatinny, NJ	Aug 2015	May 2016	36	34.000	Y		
M95 Stryker FCC ^(†)		2016	TBS / TBD	C / FFP	Picatinny, NJ	Jun 2016	Jul 2017	144	35.000	Y		
M95 Stryker FCC ^(†)		2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Jun 2018	72	36.000	Y		
M151 Stryker FDC Kit ^(†)		2017	TBS / TBD	C / FFP	Picatinny, NJ	Mar 2017	Apr 2018	27	60.000	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 P-1 Line Item Number / Title: K99300 / Mortar Fire Control System Item Number / Title [DODIC]: K99300 / Mortar Fire Control System

Cost Elements (Units in Each)				Fiscal Year 2015														Fiscal Year 2016												BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
MFCS-D (M150/M151)																																	
	1	2015	ARMY	142	-	142													A	-	-	-	-	-	-	-	30	30	30	30	22		
M95 M1064 MFCS-M																																	
✓	2	2017	ARMY	14	-	14																								14			
M96 M577 MFCS-M																																	
✓	3	2017	ARMY	3	-	3																								3			
TALIN - Dependant of M150/M95																																	
	4	2015	ARMY	141	-	141																				30	30	30	30	21		-	
	5	2017	ARMY	39	-	39																									39		
MFCS (M150)- SRW Radio Hardware Upgrade																																	
	6	2016	ARMY	92	-	92																									92		
M95 M1064 FCC																																	
	7	2017	ARMY	96	-	96																									96		
M96 M1064 FCC																																	
	8	2017	ARMY	16	-	16																									16		
M95 AMPV																																	
	9	2017	ARMY	39	-	39																									39		
M96 AMPV																																	
	10	2017	ARMY	6	-	6																									6		
M95 Stryker FCC																																	
	11	2015	ARMY	36	-	36																									-		
	12	2016	ARMY	144	-	144																									144		
	12	2017	ARMY	72	-	72																									72		
M151 Stryker FDC Kit																																	
	13	2017	ARMY	27	-	27																									27		
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL D U E A S O F 1 O C T	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			
MFCS-D (M150/M151)																																	
	1	2015	ARMY	142	120	22	22																						-				
M95 M1064 MFCS-M																																	
✓	2	2017	ARMY	14	-	14																							14				
M96 M577 MFCS-M																																	
✓	3	2017	ARMY	3	-	3																							3				
TALIN - Dependant of M150/M95																																	
	4	2015	ARMY	141	141	-																							-				
	5	2017	ARMY	39	-	39																							39				
MFCS (M150)- SRW Radio Hardware Upgrade																																	
	6	2016	ARMY	92	-	92	-	-	-	-	-	-	-	-	-	30	30	32												-			
M95 M1064 FCC																																	
	7	2017	ARMY	96	-	96																				54	42		-				
M96 M1064 FCC																																	
	8	2017	ARMY	16	-	16																					10	6		-			
M95 AMPV																																	
	9	2017	ARMY	39	-	39																					28	11		-			
M96 AMPV																																	
	10	2017	ARMY	6	-	6																						6		-			
M95 Stryker FCC																																	
	11	2015	ARMY	36	36	-																								-			
	12	2016	ARMY	144	-	144	-	-	-	-	-	-	-	-	35	35	33	41												-			
	12	2017	ARMY	72	-	72																					23	49		-			
M151 Stryker FDC Kit																																	
	13	2017	ARMY	27	-	27																					27			-			
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 8	BAL D U E A S O F 1 O C T	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			
MFCS-D (M150/M151)																																	
	1	2015	ARMY	142	142	-																											
M95 M1064 MFCS-M																																	
✓	2	2017	ARMY	14	-	14	-	14																									
M96 M577 MFCS-M																																	
✓	3	2017	ARMY	3	-	3	-	3																									
TALIN - Dependant of M150/M95																																	
	4	2015	ARMY	141	141	-																											
	5	2017	ARMY	39	-	39	29	10																									
MFCS (M150)- SRW Radio Hardware Upgrade																																	
	6	2016	ARMY	92	-																												
M95 M1064 FCC																																	
	7	2017	ARMY	96	96	-																											
M96 M1064 FCC																																	
	8	2017	ARMY	16	16	-																											
M95 AMPV																																	
	9	2017	ARMY	39	39	-																											
M96 AMPV																																	
	10	2017	ARMY	6	6	-																											
M95 Stryker FCC																																	
	11	2015	ARMY	36	36	-																											
	12	2016	ARMY	144	144	-																											
	12	2017	ARMY	72	72	-																											
M151 Stryker FDC Kit																																	
	13	2017	ARMY	27	27	-																											
							O C T	N O V	D E C	J A N	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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: K99300 / Mortar Fire Control System
		Item Number / Title [DODIC]: K99300 / Mortar Fire Control System

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	ESW, Inc - Fort Worth, Texas	10	65	130	13	8	13	21	3	6	9	15
2	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
3	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
4	Honeywell Sensor and Guidance - Clearwater, FL	5	30	70	13	9	13	22	3	7	9	16
5	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
6	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
7	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
8	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
9	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
10	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
11	ESW, Inc - Fort Worth, Texas	10	65	130	13	8	13	21	3	6	9	15
12	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15
13	TBS - TBD	10	65	130	13	8	13	21	3	6	9	15

"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 2017 Army **Date:** February 2016

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: BA5500 / Counterfire Radars
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	104	9	13	23	-	23	15	6	4	-	-	174
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,750.942	154.520	198.379	314.509	-	314.509	214.357	98.940	86.986	14.893	-	2,833.526
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,750.942	154.520	198.379	314.509	-	314.509	214.357	98.940	86.986	14.893	-	2,833.526
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,750.942	154.520	198.379	314.509	-	314.509	214.357	98.940	86.986	14.893	-	2,833.526

(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>)	16,835.981	17,168.889	15,259.923	13,674.304	-	13,674.304	14,290.467	16,490.000	21,746.500	-	-	16,284.632

Description:

The AN/TPQ-53 Counterfire Target Acquisition Radar System is a highly mobile radar set that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems with sufficient accuracy for first round fire for effect. It mitigates close combat radar coverage gaps by providing a 90 degree search sector (stare mode) as well as 360 degree coverage (rotating) and will ultimately replace the current AN/TPQ-36 and AN/TPQ-37 Firefinder Radars. The AN/TPQ-53 system interoperates with battle command systems (BCSs) 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 will be fielded to multiple Continental United States (CONUS) and Outside Continental United States (OCONUS) locations to include support to Operation Inherent Resolve (OIR).

Army Acquisition Objective (AAO): 174

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	4	9	-	9	8	3	2	-
	Total Obligation Authority	-	56.680	122.200	-	122.200	114.244	49.490	57.986	8.893
ANG	Quantity	9	9	14	-	14	7	3	2	-
	Total Obligation Authority	154.520	141.699	192.309	-	192.309	100.113	49.450	29.000	6.000
Total: Secondary Distribution	Quantity	9	13	23	-	23	15	6	4	-
	Total Obligation Authority	154.520	198.379	314.509	-	314.509	214.357	98.940	86.986	14.893

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA5500 / Counterfire Radars
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	B05310 / ENHANCED AN/TPQ 36	P-5a, P-21		104 / 1,750.942	9 / 154.520	13 / 198.379	23 / 314.509	- / -	23 / 314.509
P-40	Total Gross/Weapon System Cost			104 / 1,750.942	9 / 154.520	13 / 198.379	23 / 314.509	- / -	23 / 314.509

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

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

Justification:
 The Fiscal Year (FY) 2017 procurement dollars in the amount of \$314.509 million supports the procurement of 23 AN/TPQ-53 radars.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	104	9	13	23	-	23
Gross/Weapon System Cost (\$ in Millions)	1,750.942	154.520	198.379	314.509	-	314.509
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,750.942	154.520	198.379	314.509	-	314.509
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,750.942	154.520	198.379	314.509	-	314.509

(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)	16,835.981	17,168.889	15,259.923	13,674.304	-	13,674.304

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware (AN/TPQ-53) ^(†)	10,566.000	104	1,098.864	11,235.000	9	101.115	11,235.000	13	146.055	11,235.000	23	258.405	-	-	-	11,235.000	23	258.405
Ancillary Equipment	-	-	170.327	-	-	12.203	-	-	9.267	-	-	18.397	-	-	-	-	-	18.397
Non-Recurring Engineering	-	-	99.218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	2.300	-	-	-	-	-	3.000	-	-	4.264	-	-	-	-	-	4.264
Acceptance and Live Fire Testing	-	-	31.338	-	-	1.650	-	-	1.950	-	-	3.450	-	-	-	-	-	3.450
Interim Contractor Support	-	-	125.161	-	-	14.122	-	-	19.990	-	-	7.057	-	-	-	-	-	7.057
Training Devices	-	-	9.182	-	-	0.574	-	-	1.019	-	-	2.673	-	-	-	-	-	2.673
Fielding	-	-	105.959	-	-	11.806	-	-	1.258	-	-	2.036	-	-	-	-	-	2.036
Post Deployment Software Support	-	-	4.912	-	-	0.867	-	-	2.201	-	-	3.536	-	-	-	-	-	3.536
Program Management Support	-	-	103.681	-	-	12.183	-	-	13.639	-	-	14.691	-	-	-	-	-	14.691
<i>Subtotal: Recurring Cost</i>	-	-	1,750.942	-	-	154.520	-	-	198.379	-	-	314.509	-	-	-	-	-	314.509
<i>Subtotal: Flyaway Cost</i>	-	-	1,750.942	-	-	154.520	-	-	198.379	-	-	314.509	-	-	-	-	-	314.509
Gross/Weapon System Cost	16,835.981	104	1,750.942	17,168.889	9	154.520	15,259.923	13	198.379	13,674.304	23	314.509	-	-	-	13,674.304	23	314.509

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	4	9	-	9
	Total Obligation Authority	-	56.680	122.200	-	122.200
ANG	Quantity	9	9	14	-	14
	Total Obligation Authority	154.520	141.699	192.309	-	192.309
Total:	Quantity	9	13	23	-	23
Secondary Distribution	Total Obligation Authority	154.520	198.379	314.509	-	314.509

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36
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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
Hardware (AN/TPQ-53) ^(†)		2015	Lockheed Martin / Syracuse, NY	SS / FPIF	CECOM	Sep 2016	Mar 2018	9	11,235.000	Y		Feb 2015
Hardware (AN/TPQ-53) ^(†)		2016	Lockheed Martin / Syracuse, NY.	SS / FPIF	CECOM	Sep 2016	Mar 2018	13	11,235.000	Y		Feb 2015
Hardware (AN/TPQ-53) ^(†)		2017	Lockheed Martin / Syracuse, NY	SS / FPIF	CECOM	Mar 2017	Aug 2018	23	11,235.000	Y		Feb 2015

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36
--	---	--

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												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 1 5	BAL D U E A S O F 1 O C T	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	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: 104																															
	1	2015	ARMY	9	-	9																						9			
	2	2016	ARMY ^(XVI)	13	-	13																						13			
	3	2017	ARMY	23	-	23																						23			
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Hardware (AN/TPQ-53)																															
Prior Years Deliveries: 104																															
	1	2015	ARMY	9	-	9	-	-	-	-	-	-	1	2	2	2	2													-	
	2	2016	ARMY ^(XVI)	13	-	13	-	-	-	-	-	-	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1		-	
	3	2017	ARMY	23	-	23	-	-	-	-	-	-	-	-	-	-	1	2	2	2	2	2	2	2	2	2	2	2		-	
							O C T	N O V	D E C	J A N	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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36
--	---	--

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	60	-	11	18	29	-	-	-	-
2	Lockheed Martin - Syracuse, NY.	12	24	60	-	11	18	29	-	-	-	-
3	Lockheed Martin - Syracuse, NY	12	24	60	-	-	-	-	-	5	17	22

"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).

Service/Agency Suffixes:

(XVI) FRP Lot 1

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	2	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost (<i>\$ in Millions</i>)	666.809	13.823	1.238	8.660	-	8.660	8.684	14.737	22.629	16.208	-	752.788
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	666.809	13.823	1.238	8.660	-	8.660	8.684	14.737	22.629	16.208	-	752.788
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	666.809	13.823	1.238	8.660	-	8.660	8.684	14.737	22.629	16.208	-	752.788

(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>)	-	-	619.000	-	-	-	-	-	-	-	-	376,394.000

Description:

Fire Support Command and Control (FSC2) systems automate the planning and execution of fire support operations so that a suitable weapon or group of weapons adequately covers targets. Fire support is the effects of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. FSC2 family consists of Gun Display Unit -Replacement (GDU-R), Ruggedized Handheld Computer (RHC), Advanced Field Artillery Tactical Data System (AFATDS), Light Weight Technical Fire Direction System (LWTFDS), and Pocket-sized Forward Entry Device (PFED).

The Gun Display Unit-Replacement (GDU-R) system allows non-digitized howitzer firing sections to receive and display firing data and firing commands transmitted by the Advanced Field Artillery Tactical Data System (AFATDS) at the platoon Fire Direction Center, and transmit the status of the gun to the AFATDS as the fire mission progresses. The GDU-R is fully fielded and will be retired when the last M119A2 towed howitzer is digitized.

The Ruggedized Handheld Computer (RHC) is hardware used to host the Forward Observer System (FOS) software, combined are known as the Lightweight Forward Entry Device (LFED). The LFED is a handheld device used by mounted forward observers and fire support teams to transmit and receive fire support messages over standard military radios. They provide a digitized connection between the fire support teams and the Advanced Field Artillery Tactical Data System (AFATDS), and provide a vital sensor-to-shooter link. LFED/RHC enables mounted forward observers and fire support officers to plan, control and execute fire support operations at maneuver platoon, company, battalion, and brigade levels.

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint and Coalition targeting, coordination mission management software application. It links Command and Control (C2), Intelligence, and Air operations information with execution systems using real time collaborative targeting managers, customized for each service or specific functional area. JADOCS is used to significantly enhance the Joint Force and Component Command's capability to simultaneously develop, coordinate and execute Dynamic and Time Sensitive targets and fire missions, as well as battle space coordination, search and rescue, and disaster relief/recover operations worldwide. JADOCS provides coordination and de-confliction of targeting information at all levels of command structure for the military. JADOCS system-to- system interfaces enables automated communications with Joint and Coalition systems to minimize targeting process time and increase dynamic targeting accuracy.

The Advanced Field Artillery Tactical Data System (AFATDS) provides the Army, Navy, and Marine Corps automated fire support command, control and communications. AFATDS is used to plan, execute, and deliver lethal and non-lethal effects. AFATDS provides Joint/Coalition Situational Awareness for fires execution and mission management. The system interoperates and integrates with over 80 different battlefield systems, including Navy and Air Force command and control weapons systems. As a member of the Artillery System Cooperation Agreement (ASCA), AFATDS is interoperable with the German,

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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French, Turkish, and Italian fire support systems. AFATDS 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).

The Pocket-sized Forward Entry Device (PFED) (Inc I) is a handheld hardware device that enables rapid precision Sensor-to-Shooter and Surveillance capabilities. PFED is fully interoperable with AFATDS and current fire support systems. PFED Increment II is a software application that operates on the Nett Warrior (NW) End User Device (EUD). It will provide the dismounted Forward Observer (FO) and Fire Support Team (FISTs) the capability to accurately and rapidly locate ground targets and enable the NW ensemble to digitally process a Call For Fire. PFED Inc II aligns with the Army's Fires and Effects Concept of Operation and contributes to Networked Fires as part of the combined arms teams in Army, Special Operations Forces (SOF), and Joint operations. PFED Inc II supports the Mobile Handheld Computing Environment requirement that all handheld applications reside on the NW EUD. PFED Inc II software will be deployed by NW IAW the NW fielding schedule.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	2	-	-	-	-	-	-	-
	Total Obligation Authority	11.270	1.238	7.023	-	7.023	7.005	13.342	21.007	14.679
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.553	-	1.637	-	1.637	1.679	1.395	1.622	1.529
Total: Secondary Distribution	Quantity	-	2	-	-	-	-	-	-	-
	Total Obligation Authority	13.823	1.238	8.660	-	8.660	8.684	14.737	22.629	16.208

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B28503 / Ruggedized Handheld Computer (RHC)			- / 99.191	- / 3.371	- / -	- / -	- / -	- / -
P-5	B28504 / JADOCs			- / -	- / -	- / -	- / 1.969	- / -	- / 1.969
P-5	B28620 / MOD OF IN-SVC EQUIP, AFATDS	P-5a		- / 239.078	- / 8.163	2 / 0.048	- / 2.598	- / -	- / 2.598
P-5	BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)			- / 328.540	- / 2.289	- / 1.190	- / 4.093	- / -	- / 4.093
P-40	Total Gross/Weapon System Cost			- / 666.809	- / 13.823	2 / 1.238	- / 8.660	- / -	- / 8.660

*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:

FY17 Base procurement dollars in the amount of \$1.969 million will be used to initiate fielding and training efforts for JADOCs V1.0.5.3.

FY17 Base procurement dollars in the amount of \$2.598 million will be used to complete fielding, integration and New Equipment Training (NET) of AFATDS V6.8.1.1.

FY17 Base procurement dollars in the amount of \$4.093 million funds procurement of fielding services, ancillary items required for initial fielding, and New Equipment Training (NET) support for PFED Inc II software. Ancillary equipment includes TACLINKs, cables, and hubs.

The FY 2017 funding request was reduced for \$.212 million to account for the availability of prior year execution balances.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28503 / Ruggedized Handheld Computer (RHC)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	99.191	3.371	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	99.191	3.371	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	99.191	3.371	-	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	38.901	1,785	69.439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	69.438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	69.438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	7.391	-	-	0.871	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	7.391	-	-	0.871	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	5.800	-	-	0.400	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	5.800	-	-	0.400	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	8.401	-	-	0.900	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	8.401	-	-	0.900	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Equipment	-	-	8.162	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Training Cost</i>	-	-	8.162	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28503 / Ruggedized Handheld Computer (RHC)
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	99.191	-	-	3.371	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.371	-	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.371	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89						P-1 Line Item Number / Title: B28501 / Fire Support C2 Family						Item Number / Title [DODIC]: B28504 / JADOCs						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO		FY 2017 Total	
Procurement Quantity (<i>Units in Each</i>)				-		-			-			-			-		-	
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-			-			1.969			-		1.969	
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-			-			1.969			-		1.969	
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Total Obligation Authority (<i>\$ in Millions</i>)				-		-			-			1.969			-		1.969	
<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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	0.850	-	-	-	-	-	0.850
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.850	-	-	-	-	-	0.850
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	0.530	-	-	-	-	-	0.530
Contractor Management	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.630	-	-	-	-	-	0.630
Support - Training Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	0.489	-	-	-	-	-	0.489
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.489	-	-	-	-	-	0.489
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	1.969	-	-	-	-	-	1.969
Secondary Distribution						FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO		FY 2017 Total	
Army						Quantity			-			-			-		-	
						Total Obligation Authority			-			1.969			-		1.969	
Total: Secondary Distribution						Quantity			-			-			-		-	
						Total Obligation Authority			-			1.969			-		1.969	

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	2	-	-	-
Gross/Weapon System Cost (\$ in Millions)	239.078	8.163	0.048	2.598	-	2.598
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	239.078	8.163	0.048	2.598	-	2.598
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	239.078	8.163	0.048	2.598	-	2.598

(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)	-	-	24.000	-	-	-

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 & MC Workstations ^(†)	98.071	2,099	205.850	-	-	-	24.000	2	0.048	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	205.851	-	-	-	-	-	0.048	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	205.851	-	-	-	-	-	0.048	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	10.517	-	-	1.425	-	-	-	-	-	0.943	-	-	-	-	-	0.943
Subtotal: Support - Fielding Cost	-	-	10.517	-	-	1.425	-	-	-	-	-	0.943	-	-	-	-	-	0.943
Support - Program Management Cost																		
Government Management	-	-	5.961	-	-	1.131	-	-	-	-	-	0.368	-	-	-	-	-	0.368
Subtotal: Support - Program Management Cost	-	-	5.961	-	-	1.131	-	-	-	-	-	0.368	-	-	-	-	-	0.368
Support - System Engineering Cost																		
System Engineering	-	-	7.266	-	-	1.876	-	-	-	-	-	0.599	-	-	-	-	-	0.599
Subtotal: Support - System Engineering Cost	-	-	7.266	-	-	1.876	-	-	-	-	-	0.599	-	-	-	-	-	0.599
Support - Training Cost																		
Equipment	-	-	9.483	-	-	3.731	-	-	-	-	-	0.688	-	-	-	-	-	0.688
Subtotal: Support - Training Cost	-	-	9.483	-	-	3.731	-	-	-	-	-	0.688	-	-	-	-	-	0.688

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	239.078	-	-	8.163	24.000	2	0.048	-	-	2.598	-	-	-	-	-	2.598

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	2	-	-	-
	Total Obligation Authority	5.610	0.048	2.598	-	2.598
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	2.553	-	-	-	-
Total: Secondary Distribution	Quantity	-	2	-	-	-
	Total Obligation Authority	8.163	0.048	2.598	-	2.598

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: B28501 / Fire Support C2 Family				Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware - AFATDS & MC Workstations		2016	General Dynamics / Tauton, MA	C / FFP	CECOM, APG, MD	Feb 2016	Jul 2016	2	24.000	Y		

Remarks:
Items are Commercial Off The Shelf (COTS).

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	328.540	2.289	1.190	4.093	-	4.093
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	328.540	2.289	1.190	4.093	-	4.093
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	328.540	2.289	1.190	4.093	-	4.093

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	86.697	386	33.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	33.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	33.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	8.329	-	-	0.266	-	-	0.530	-	-	0.689	-	-	-	-	-	0.689
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	8.329	-	-	0.266	-	-	0.530	-	-	0.689	-	-	-	-	-	0.689
Support - Fielding Cost																		
Fielding	-	-	54.650	-	-	0.789	-	-	0.150	-	-	0.820	-	-	-	-	-	0.820
<i>Subtotal: Support - Fielding Cost</i>	-	-	54.650	-	-	0.789	-	-	0.150	-	-	0.820	-	-	-	-	-	0.820
Support - Production Engineering Cost																		
Production Engineering	-	-	56.337	-	-	0.285	-	-	0.210	-	-	0.644	-	-	-	-	-	0.644
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	56.337	-	-	0.285	-	-	0.210	-	-	0.644	-	-	-	-	-	0.644
Support - Program Management Cost																		
Government Management	-	-	35.393	-	-	0.200	-	-	0.150	-	-	0.650	-	-	-	-	-	0.650
<i>Subtotal: Support - Program Management Cost</i>	-	-	35.393	-	-	0.200	-	-	0.150	-	-	0.650	-	-	-	-	-	0.650

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Engineering Cost																		
System Engineering	-	-	32.831	-	-	0.194	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	32.831	-	-	0.194	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Development Test and Evaluation	-	-	29.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	29.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Equipment	-	-	77.835	-	-	0.555	-	-	0.150	-	-	1.290	-	-	-	-	-	1.290
<i>Subtotal: Support - Training Cost</i>	-	-	77.835	-	-	0.555	-	-	0.150	-	-	1.290	-	-	-	-	-	1.290
Gross/Weapon System Cost	-	-	328.540	-	-	2.289	-	-	1.190	-	-	4.093	-	-	-	-	-	4.093

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.289	1.190	2.456	-	2.456
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	1.637	-	1.637
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	2.289	1.190	4.093	-	4.093

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: AD5070 / AIR & MSL Defense Planning & Control Sys
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	193	5	6	9	31	40	2	2	1	1	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	768.039	27.374	28.176	54.376	69.958	124.334	17.005	17.960	6.366	6.951	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	768.039	27.374	28.176	54.376	69.958	124.334	17.005	17.960	6.366	6.951	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	768.039	27.374	28.176	54.376	69.958	124.334	17.005	17.960	6.366	6.951	Continuing	Continuing

(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>)	3,979.477	5,474.800	4,696.000	6,041.778	2,256.710	3,108.350	8,502.500	8,980.000	6,366.000	6,951.000	Continuing	Continuing

Description:

The Air and Missile Defense Planning and Control System (AMDPCS) is an Army Objective Force System that provides integration of Air and Missile Defense (AMD) operations at all echelons. AMDPCS systems are deployed with Air Defense Artillery (ADA) Brigades (Bdes), Army Air Missile Defense Commands (AAMDCs), and Air Defense and Airspace Management (ADAM) Cells at the Brigade Combat Teams (BCTs), Multi-Functional Support Brigades, Corps and Divisions. AMDPCS systems also provide air defense capabilities to Homeland Defense systems. The fielding of ADAM Cells is essential in fulfilling the Army's Campaign Plan requirement. ADAM Cells provide the Commander at BCTs, Bdes and Divisions with air defense situational awareness and airspace management capabilities. They also provide the interoperability link with Joint, multinational and coalition forces. AMDPCS components are vital in the transformation of ADA units. AMDPCS provides these organizations with shelters, automated data processing equipment, tactical communications, standard vehicles and tactical power, and the two major software systems used in air defense force operations/engagement operations: The Air and Missile Defense Workstation (AMDWS) and the Air Defense System Integrator (ADSI). The AMDWS is a staff planning and battlespace situational awareness tool that provides commanders at all echelons with a common tactical and operational air picture. The AMDWS is being fielded to all AMDPCS units, including the ADA Bdes, the AAMDCs and the ADAM Cells, as well as to the Maneuver Air and Missile Defense Battalions and Batteries. AMDWS provides the Mission Command (MC) capabilities imbedded within the Warfighter Mission area. AMDWS is the Net-centric interface to MC for all components of the AMD force. AMDPCS also provides the ADA Brigades, AAMDCs and ADAM Cells with the ADSI, which is a communications data link processor and an additional display system. AMDWS and ADSIs are vital components of the ADAM Cells that are deployed in Afghanistan. AMDWS is a critical component in the integration and fielding of the Counter-Rocket, Artillery and Mortar (C-RAM) capability to Operating Bases in Afghanistan.

Approved Acquisition Objective (AAO) for AMDPCS shelter systems is 225.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	1	1	3	31	34	2	2	1	1
Total Obligation Authority	6.045	6.170	17.216	69.958	87.174	16.005	16.860	5.266	6.951
ANG	3	3	6	-	6	-	-	-	-
Total Obligation Authority	15.886	13.110	37.160	-	37.160	1.000	1.100	1.100	-
AR	1	2	-	-	-	-	-	-	-
Total Obligation Authority	5.443	8.896	-	-	-	-	-	-	-
Total:	5	6	9	31	40	2	2	1	1

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: AD5070 / AIR & MSL Defense Planning & Control Sys
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	27.374	28.176	54.376	69.958	124.334	17.005	17.960	6.366	6.951

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: AD5070 / AIR & MSL Defense Planning & Control Sys
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		193 / 768.039	5 / 27.374	6 / 28.176	9 / 54.376	31 / 69.958	40 / 124.334
P-40	Total Gross/Weapon System Cost			193 / 768.039	5 / 27.374	6 / 28.176	9 / 54.376	31 / 69.958	40 / 124.334

*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 2017 Base procurement dollars in the amount of \$54.376 million procures 1 AMDPCS-A and 2 AMDPCS-B shelters for 263rd AAMDC, 1 AMDPCS-A and 1 AMDPCS-B for 678th ADA Bde, 1 ADAM Cell for a Maneuver Enhancement Brigade (MEB), and 3 AMDPCS-B shelters for Test Detachment. The FY17 OCO includes \$69.958 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include 2 AMDPCS-B shelters, 9 Battery Command Post (CP) shelters, 18 Sensor Command and Control (C2) shelters and 2 ADSIs.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: AD5070 / AIR & MSL Defense Planning & Control Sys	Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	193	5	6	9	31	40
Gross/Weapon System Cost (\$ in Millions)	768.039	27.374	28.176	54.376	69.958	124.334
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	768.039	27.374	28.176	54.376	69.958	124.334
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	768.039	27.374	28.176	54.376	69.958	124.334

(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)	3,979.477	5,474.800	4,696.000	6,041.778	2,256.710	3,108.350

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	2,750.150	193	530.778	3,626.000	5	18.130	3,032.170	6	18.193	4,611.890	9	41.507	1,604.260	31	49.732	2,280.980	40	91.239
2. Project Management Administration	-	-	44.099	-	-	2.997	-	-	3.010	-	-	3.054	-	-	-	-	-	3.054
3. New Equipment Training (NET)	-	-	86.889	-	-	1.458	-	-	1.714	-	-	3.125	-	-	7.773	-	-	10.898
4. Total Package Fielding (TPF)	-	-	77.061	-	-	2.370	-	-	2.828	-	-	4.264	-	-	12.453	-	-	16.717
5. Software Modifications	-	-	29.212	-	-	2.419	-	-	2.431	-	-	2.426	-	-	-	-	-	2.426
<i>Subtotal: Recurring Cost</i>	-	-	<i>768.040</i>	-	-	<i>27.374</i>	-	-	<i>28.176</i>	-	-	<i>54.376</i>	-	-	<i>69.958</i>	-	-	<i>124.334</i>
<i>Subtotal: Flyaway Cost</i>	-	-	768.040	-	-	27.374	-	-	28.176	-	-	54.376	-	-	69.958	-	-	124.334
Gross/Weapon System Cost	3,979.477	193	768.039	5,474.800	5	27.374	4,696.000	6	28.176	6,041.778	9	54.376	2,256.710	31	69.958	3,108.350	40	124.334

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1	1	3	31	34
	Total Obligation Authority	6.045	6.170	17.216	69.958	87.174
ANG	Quantity	3	3	6	-	6

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: AD5070 / AIR & MSL Defense Planning & Control Sys	Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	15.886	13.110	37.160	-	37.160
AR	Quantity	1	2	-	-	-
	Total Obligation Authority	5.443	8.896	-	-	-
Total:	Quantity	5	6	9	31	40
Secondary Distribution	Total Obligation Authority	27.374	28.176	54.376	69.958	124.334

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: AD5070 / AIR & MSL Defense Planning & Control Sys	Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control 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
1. System Integration/Hardware		2015	Tobyhanna Army Depot / Tobyhanna, PA	MIPR	Redstone Arsenal, AL	Oct 2014	May 2015	5	3,626.000	N		
1. System Integration/Hardware		2016	Tobyhanna Army Depot / Tobyhanna, PA	MIPR	Redstone Arsenal, AL	Oct 2015	May 2016	6	3,032.170	N		
1. System Integration/Hardware		2017	Tobyhanna Army Depot / Tobyhanna, PA	MIPR	Redstone Arsenal, AL	Oct 2016	May 2017	9	4,611.890	N		
1. System Integration/Hardware - 2		2017	Tobyhanna Army Depot / Tobyhanna, PA	MIPR	Redstone Arsenal, AL	Oct 2016	May 2017	31	1,604.260	N		

Remarks:
AMDPCS is a COTS program. COTS and Government Furnished Equipment (GFE) are integrated by the Army Depot.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ5075 / IAMD Battle Command System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603327A, 0605457A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 205
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	20.917	204.969	-	204.969	287.220	372.916	440.567	439.780	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	20.917	204.969	-	204.969	287.220	372.916	440.567	439.780	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	20.917	204.969	-	204.969	287.220	372.916	440.567	439.780	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	4,658.386	-	4,658.386	-	-	-	-	Continuing	Continuing

Description:

The Army Integrated Air and Missile Defense (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 Army Integrated Air and Missile Defense System of Systems (SoS) Capabilities Development Document (CDD) and the new Air and Missile Defense 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) 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 Air and Missile Defense (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 plagued AMD defense design in the past. The AIAMD program will provide the user with the ability to train on a single C2 system 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 interfaces allowing them to "connect" to the IFC network alleviating the cost of procuring total system capabilities in the future.

The FY 2018 Initial Operational Capability is delivered through the fielding of the IBCS EOC-based AIAMD architecture including the IBCS EOC, Sentinel and Patriot components connected via an IFCN, working in an integrated manner. Additional capabilities include the incorporation of IBCS functionality into Air Defense Airspace Management (ADAM) Cells, ADA Brigade Headquarters and Army Air and Missile Defense Command (AAMDC) Headquarters. Future additional capabilities include incorporation of Terminal High Altitude Air Defense (THAAD) batteries and Indirect Fire Protection Capability (IFPC) components into the AIAMD architecture.

AIAMD is a designated Major Defense Acquisition Program (MDAP).

FY 2017 funding goes to the Active Component. Army National Guard funding starts in FY2020.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ5075 / IAMD Battle Command System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603327A, 0605457A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 205
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	20.917	204.969	-	204.969	287.220	372.916	345.430	325.780
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	95.137	114.000
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	20.917	204.969	-	204.969	287.220	372.916	440.567	439.780

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ5075 / IAMD Battle Command System
--	---

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603327A, 0605457A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 205
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ5075 / IAMD Battle Command System	P-5a, P-21		- / -	- / -	- / 20.917	- / 204.969	- / -	- / 204.969
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / 20.917	- / 204.969	- / -	- / 204.969

*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 2017 Base procurement dollars in the amount of \$204.969 million funds the procurement of 12 EOCs. This funding will provide IBCS conversion for 2 Patriot Battalions. Additionally, funding provides for the procurement of 16 IFCN Relay Towers, 8 Radar Interface Units, 48 Launcher Interface Network Boxes, and 11 conversion kits for Sentinel Radars.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army						Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: BZ5075 / IAMD Battle Command System			Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code: 205				
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	-	20.917	204.969	-	204.969
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	-	20.917	204.969	-	204.969
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	-	20.917	204.969	-	204.969
<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>)			-	-	-	4,658.386	-	4,658.386

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 Operations Center ^(†)	-	-	-	-	-	-	-	-	-	10,155.833	12	121.870	-	-	-	10,155.833	12	121.870
Plug and Fight Kits	-	-	-	-	-	-	-	-	-	-	-	48.331	-	-	-	-	-	48.331
Software and Systems Engineering	-	-	-	-	-	-	-	-	-	-	-	14.313	-	-	-	-	-	14.313
Government Program Management	-	-	-	-	-	-	-	-	-	-	-	2.674	-	-	-	-	-	2.674
Spares and Repair Parts	-	-	-	-	-	-	-	-	-	-	-	3.841	-	-	-	-	-	3.841
Logistics Support	-	-	-	-	-	-	-	-	-	-	-	13.940	-	-	-	-	-	13.940
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	204.969	-	-	-	-	-	204.969
Non Recurring Cost																		
Long Lead Materials	-	-	-	-	-	-	-	-	12.920	-	-	-	-	-	-	-	-	-
Initial Production Facilities	-	-	-	-	-	-	-	-	7.997	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	20.917	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	20.917	-	-	204.969	-	-	-	-	-	204.969
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	20.917	4,658.386	-	204.969	-	-	-	4,658.386	-	204.969

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BZ5075 / IAMD Battle Command System	Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 205

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	20.917	204.969	-	204.969
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	20.917	204.969	-	204.969

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BZ5075 / IAMD Battle Command System	Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Engagement Operations Center ^(†)		2017	Northrop Grumman / Huntsville	C / CPIF	ACC-R	Oct 2016	Nov 2016	12	10,155.833			

^(†) indicates the presence of a P-21

Remarks:
Delivery in the first year includes retrofit of EOC Prototypes.

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BZ5075 / IAMD Battle Command System	Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													BALANCE	
O C 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			
Engagement Operations Center																																	
	1	2017	ARMY	12	-	12	A	-	2	1	2	2	1	-	-	-	1	1	1	1										-			
							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	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	G	P			

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Exhibit P-21, Production Schedule: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BZ5075 / IAMD Battle Command System	Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Northrop Grumman - Huntsville	9	12	18	-	-	-	-	-	-	-	-

"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 2017 Army **Date:** February 2016

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: BD3955 / Life Cycle Software Support (LCSS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	94.754	2.508	5.850	4.718	-	4.718	3.985	4.003	4.000	3.971	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	94.754	2.508	5.850	4.718	-	4.718	3.985	4.003	4.000	3.971	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	94.754	2.508	5.850	4.718	-	4.718	3.985	4.003	4.000	3.971	Continuing	Continuing

(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:

Life Cycle Software Engineering (LCSE) support, by the Software Engineering Center (SEC), provides the essential equipment needed to maintain Communications-Electronics Life Cycle Management Command (C-E LCMC) managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. Approximately 100 BASs in Post Production Software Support (PPSS) directly depend on LCSE support to maintain a posture of mission critical readiness. LCSE system support and services are essential to maintain BASs in the state of operational readiness. Policy for Post Production Software Support (PPSS) requires that system managers provide initial host capabilities for new systems and that the Life Cycle Software Engineering Centers (LCSEC) 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 BASs. 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 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.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.508	5.850	4.718	-	4.718	3.985	4.003	4.000	3.971
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.508	5.850	4.718	-	4.718	3.985	4.003	4.000	3.971

Justification:

FY 2017 Base Procurement dollars in the amount of \$4.718 million procures the following Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) lab equipments:

- 1) Computer Equipment: (1) E-J Band RF channel with 5-port Direction-of-Arrival (DoA) capability, (1) K-L Band RF channel (mmW) with 5-port Direction-of-Arrival (DoA) capability, RF Simulator Spare Parts Package (a. AC-to-DC Power Supplies, b. Various circuit card assemblies (CCAs); i.e. FiberOptic Interface, Digital Pulse Generation Modules, Digital-to-RF Interface, etc., c. Various RF discrete components; i.e.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BD3955 / Life Cycle Software Support (LCSS)
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>Frequency Locked Oscillators(FLO) C thru L bands, RF Amplifiers (C thru L bands), RF Attenuators (C thru L bands) and a 5-port Direction-of-Arrival (DoA) Modules (C thru L bands), Quad-Phase Modulators (C thru L bands), RF Pulse Modulation Switch (C thru L bands), etc).</p> <p>Requirement Description: The RF simulator will be supporting the increase of Radio Frequency (RF) simulation requirements due to the complexity of threats to Force Protection systems such as Counter Radio-Controlled Improvised Explosive Device (RCIED) Electronic Warfare (CREW) Duke, Radar Warning receivers APR-39A(V)1, APR-39B(V)2, and APR-48 Radio Frequency Interferometer(RFIS) and future systems. Failure to provide effective support for threat simulation using the most effective simulator covering all threat Radio Frequency (RF) bands can cause unreliable mission software for CREW and all Aircraft Survivability Equipment (ASE) systems supported by SEC. In addition, the current RF simulators being used are well beyond their expected Operational Life Cycle, and are likely to become inoperable within the next 6-18 months</p> <p>2) Computer Equipment: NetApp F2240A-4-24X2TB-CL-10G-R5 (FAS2240-4,CL,HA,24x2TB,10GbE,Dual CTL), (2) Dell Blade computer (8 blades - 6 1/10gb switches), (2) Dell EqualLogic storage for blade computer (24 TB), (45) Surrogate computers - HP Compaq 6300 Microtower (Core i5, 250GB HDD, 4GB RAM, 1 DVD RW), 18 ServSwitch Octet Basic User Station(KV1711A-R2), 20 ServSwitch Octet KVM Switch, 4 Users x 16 Servers (KV1703A0, 50 Updated monitors for Surrogate computers - 22" and 144 ServSwitch Octet Server Access Module (SAMs) for USB</p> <p>Requirement Description: The majority of existing Force XXI Battle Command, Brigade and Below (FBCB2) software integration and test hardware is 8-10 years old and is no longer supported by the vendor. In the case of the Blue Force Tracking Network Operations Center (BGN), the test bed hardware is not a representative of the deployed equipment and thus limits SEC's ability to truly replicate, troubleshoot, and assess performance and operational behavior on the fielded target hardware. The BFT/NOC hardware is 2 generations of hardware behind the deployed configuration. In addition, test bed network equipment, such as switching equipment, requires replacement due to obsolescence and lack of vendor support. Failure to fund the hardware upgrade and allow the test bed become partially and/or completely inoperable due to equipment obsolescence and vendor support, this will render SEC incapable of performing the FBCB2 PPSS mission.</p> <p>3) Computer Equipment: Qty 5 Dell PowerEdge R910 - 4-2.4Ghz 10C processor, 1 TB memory, Esxi 5 OS, 8-300 15K SAS drives, 2 Intel X520Da 10GB Dual port SFP+ , Integrated Nexuss 5548P Layer 3 License with daughter card, Vmware View 5 Premier Add on for Lab consolidation</p> <p>Requirement Description: The Ft. Sill server farm for the Fires programs under sustainment are reaching their end of life. These machines serve up compilers and provide a data repository for all source code, and documentation at Ft. Sill. Today we have roughly 20 machines that are about 3-5 years old. This purchase would replace them with 5 more powerful machines utilizing VMWare to virtualize the environment reducing the needed for as many machines. The new machines will increase the server reliability and assist in consolidation. Loss of one machine will begin to impact the Compilation schedules for all Fires program under sustainment at Ft. Sill. Loss of more will increase that effect. These machines are roughly 3-5 years old on average and are approaching end of life, which will soon render them unserviceable.</p> <p>The FY 2017 funding request was reduced for \$.046 million to account for the availability of prior year execution balances.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	272.105	21.524	12.738	11.063	-	11.063	15.179	14.751	14.265	12.765	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	272.105	21.524	12.738	11.063	-	11.063	15.179	14.751	14.265	12.765	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	272.105	21.524	12.738	11.063	-	11.063	15.179	14.751	14.265	12.765	Continuing	Continuing

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

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

Description:

The Network Management Initialization and Services (NMIS) program supports the Army's objectives of an integrated Network Operations capability. There are two components to the program:

The Network Management System (NMS) project funds the Network Operations (NetOps) Trail Boss systems engineering support to converge NetOps and Cyber capabilities across the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA(ALT)) in order to enable improved network security and delivery of network operations services to the Generating Forces and Operating Forces of the Army. Integrated Cyber and NetOps capabilities support distributed operational NetOps responsibilities across the tactical and strategic components of the US Army enterprise network (LANDWARNET), simplify the network management environment for the tactical commander and the G6/S6 staff, and eliminate both functional and material redundancies in order to achieve efficiencies in fielding.

Data Products are required to initialize Army Tactical Mission Command Systems. Data Products are a collection of information/data required to plan and initialize Mission Command Systems like Joint Battle Command - Platform (JBC-P), Command Post of the Future (CPOF) and other Army Mission Command Systems. Information/Data includes: JBC-P database, Network Operation Center (NOC) databases, and Active Directory initialization files (e.g., Lightweight Directory Interchange Format (LDIFs)). Data Products enable end-to-end network centric connectivity and interoperability across the tactical internet. AAO is N/A.

	Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.388	8.953	7.595	-	7.595	10.195	10.017	9.791	9.075
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.313	2.472	2.265	-	2.265	3.255	3.092	2.922	2.410
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.823	1.313	1.203	-	1.203	1.729	1.642	1.552	1.280
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	21.524	12.738	11.063	-	11.063	15.179	14.751	14.265	12.765

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BA9312 / NETWORK MANAGEMENT SYSTEM			- / 22.390	- / 4.920	- / 5.014	- / 3.985	- / -	- / 3.985
P-5	BA9315 / DATA PRODUCTS			- / 249.715	- / 16.604	- / 7.724	- / 7.078	- / -	- / 7.078
P-40	Total Gross/Weapon System Cost			- / 272.105	- / 21.524	- / 12.738	- / 11.063	- / -	- / 11.063

*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 FY2017, the NetOps Trail Boss will complete a 5 year roadmap for Public Key Infrastructure implementation. This roadmap will align the efforts of multiple Program efforts to enable this critical component of the Cyber Defensive Posture. The Trail Boss will also work integration of NetOps and Cyber program functionality with the Command Post Computing Environment to support version 3 deployment in FY19-20 timeframe.

FY 2017 Base procurement dollars, in the amount of \$3.985 million, provides Government, Federally Funded Research and Development Center (FFRDC), and contractor systems engineering support to execute the duties as an integration/interoperability/convergence manager for the Army's NetOps portfolio in accordance with the ASA(ALT) Integrated NetOps Trail Boss designation memo, dated 26 July 2012, in order to integrate and converge NetOps capabilities and provide more effective network capability to the Warfighter. These duties include conducting and documenting technical assessments of Cyber and NetOps capabilities and gaps; developing and coordinating NetOps capability roadmaps across key Army stakeholders; developing interoperability specifications, supporting development of Cyber and NetOps requirement documents and program strategies, recommending realignment of resources to execute Army NetOps priorities; and updating and maintaining the Army NetOps Capability Configuration Management process. These duties include developing system engineering products and guiding program strategy alignment between emerging Defensive Cyber Operations efforts and existing NetOps programs.

FY17 Base Procurement dollars in the amount of \$7.078 million procure 6.5 non-Enhanced Position Location Reporting System (EPLRS), Software Block (SWB) 2, SWB 11-12, and Capability Set (CS) 13 and newer (e.g., CS14/15) Data Product Networking Initialization databases that support the Army Forces Generation (ARFORGEN) model for deployment, training and reset; the fielding and support of the Initialization Tool Suite (includes Warfighter Initialization Tool - Platform (WIT-P), Warfighter Initialization Tool - Server (WIT-S), and Warfighter Initialization Tool - Manager (WIT-M)), and utilization of the Automated Initialization Manager (AIM). FY17 Funding will support a shift from static data production to initialization being managed at the unit level, however, static data products are still required for the large majority of FY17 planned unit upgrades. Data Products are essential for Blue Force Tracker (BFT) Situational Awareness data, for tactical digital messaging (e.g., Improved Explosive Device (IED) awareness, Medical Evacuation (MEDEVAC), Call for Fire, etc.) and automated Command and Control (C2) to function.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9312 / NETWORK MANAGEMENT SYSTEM

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	22.390	4.920	5.014	3.985	-	3.985
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	22.390	4.920	5.014	3.985	-	3.985
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	22.390	4.920	5.014	3.985	-	3.985

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	22.390	-	-	0.827	-	-	0.808	-	-	0.807	-	-	-	-	-	0.807
Systems Engineering	-	-	-	-	-	3.601	-	-	3.700	-	-	2.672	-	-	-	-	-	2.672
Integration & Testing	-	-	-	-	-	0.492	-	-	0.506	-	-	0.506	-	-	-	-	-	0.506
<i>Subtotal: Recurring Cost</i>	-	-	22.390	-	-	4.920	-	-	5.014	-	-	3.985	-	-	-	-	-	3.985
<i>Subtotal: Flyaway Cost</i>	-	-	22.390	-	-	4.920	-	-	5.014	-	-	3.985	-	-	-	-	-	3.985
Gross/Weapon System Cost	-	-	22.390	-	-	4.920	-	-	5.014	-	-	3.985	-	-	-	-	-	3.985

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	4.920	5.014	3.985	-	3.985
Total: Secondary Distribution	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	4.920	5.014	3.985	-	3.985

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9315 / DATA PRODUCTS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	249.715	16.604	7.724	7.078	-	7.078
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	249.715	16.604	7.724	7.078	-	7.078
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	249.715	16.604	7.724	7.078	-	7.078

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Data Products Production	-	-	169.159	-	-	12.620	-	-	5.871	-	-	3.868	-	-	-	-	-	3.868
Test	-	-	12.631	-	-	0.830	-	-	0.386	-	-	0.356	-	-	-	-	-	0.356
Government Engineering/ Management	-	-	51.879	-	-	2.822	-	-	1.313	-	-	1.214	-	-	-	-	-	1.214
Training/Fielding	-	-	16.046	-	-	0.332	-	-	0.154	-	-	1.640	-	-	-	-	-	1.640
<i>Subtotal: Recurring Cost</i>	-	-	<i>249.715</i>	-	-	<i>16.604</i>	-	-	<i>7.724</i>	-	-	<i>7.078</i>	-	-	-	-	-	<i>7.078</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>249.715</i>	-	-	<i>16.604</i>	-	-	<i>7.724</i>	-	-	<i>7.078</i>	-	-	-	-	-	<i>7.078</i>
Gross/Weapon System Cost	-	-	249.715	-	-	16.604	-	-	7.724	-	-	7.078	-	-	-	-	-	7.078

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	8.468	3.939	3.610	-	3.610
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	5.313	2.472	2.265	-	2.265
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	2.823	1.313	1.203	-	1.203
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: BA9301 / Network Management Initialization and Services		Item Number / Title [DODIC]: BA9315 / DATA PRODUCTS		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	16.604	7.724	7.078	-	7.078

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA9320 / Maneuver Control System (MCS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0203740A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	18,514	3,748	5,637	6,612	-	6,612	4,208	2,669	1,174	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,510.312	103.056	125.657	151.318	-	151.318	152.338	104.749	75.436	9.928	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,510.312	103.056	125.657	151.318	-	151.318	152.338	104.749	75.436	9.928	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,510.312	103.056	125.657	151.318	-	151.318	152.338	104.749	75.436	9.928	Continuing	Continuing

(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>)	81.577	27.496	22.291	22.885	-	22.885	36.202	39.247	64.256	-	Continuing	Continuing

Description:

Tactical Mission Command (TMC), a Major Automation Information System funded by the Maneuver Control System (MCS) line, consists of products and services that provide commanders and their staff situational awareness and executive decision making capability in a collaborative environment above platform level. The TMC portfolio includes Tactical Applications (TacApps), Command Post of the Future (CPOF), Battle Command Sustainment Support System (BCS3), Command Web, and Wave VoIP. The TMC suite is the implementation of essential warfighting functions (e.g., maneuver, fires, engineering, logistics, common maps, and VOIP) that incorporate a common look and feel, to application based capabilities leveraging common services and infrastructure which are Common Operating Environment (COE) compliant. In support of Command Post Computing Environment (CPCE) and Operations/Intelligence Convergence, TMC is also developing and procuring the Tactical Server Infrastructure (TSI), which replaces legacy Battlefield Command and Control System (BCCS) and Intelligence Fusion Server (IFS) infrastructure solutions, thereby supporting all warfighting functions on a single server solution. The TSI server solution streamlines training and support across the signal and intelligence communities.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	1,984	2,071	2,633	-	2,633	2,280	1,247	395	-
	Total Obligation Authority	54.554	46.326	70.124	-	70.124	122.471	49.625	24.935	3.310
ANG	Quantity	1,401	2,403	2,532	-	2,532	1,399	1,046	549	-
	Total Obligation Authority	38.522	53.459	35.740	-	35.740	23.067	40.795	35.833	3.309
AR	Quantity	363	1,163	1,447	-	1,447	529	376	230	-
	Total Obligation Authority	9.980	25.872	45.454	-	45.454	6.800	14.329	14.668	3.309
Total:	Quantity	3,748	5,637	6,612	-	6,612	4,208	2,669	1,174	-
Secondary Distribution	Total Obligation Authority	103.056	125.657	151.318	-	151.318	152.338	104.749	75.436	9.928

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BA9320 / Maneuver Control System (MCS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0203740A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BA9320 / Maneuver Control System (MCS)	P-5a	B	18,514 / 1,510.312	3,748 / 103.056	5,637 / 125.657	6,612 / 151.318	- / -	6,612 / 151.318
P-40	Total Gross/Weapon System Cost			18,514 / 1,510.312	3,748 / 103.056	5,637 / 125.657	6,612 / 151.318	- / -	6,612 / 151.318

*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 2017 Base procurement in the amount of \$151.318 million supports purchase of 6,612 TMC Clients/laptops, other hardware (Battlefield Command and Control System (BCCS)/Tactical Server Infrastructure (TSI) servers, Server Management Consoles, and Gateways), and associated fielding support.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: BA9320 / Maneuver Control System (MCS)
		Item Number / Title [DODIC]: BA9320 / Maneuver Control System (MCS)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	18,514	3,748	5,637	6,612	-	6,612
Gross/Weapon System Cost (\$ in Millions)	1,510.312	103.056	125.657	151.318	-	151.318
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,510.312	103.056	125.657	151.318	-	151.318
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,510.312	103.056	125.657	151.318	-	151.318

(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)	81.577	27.496	22.291	22.885	-	22.885

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Workstation (Initial Procurement) ^(f)	8.300	17,008	141.158	3.895	693	2.699	3.569	1,691	6.036	3.570	964	3.441	-	-	-	3.570	964	3.441
Workstation (Tech Refresh) ^(f)	5.000	1,506	7.530	3.896	3,055	11.902	3.570	3,970	14.173	3.570	5,648	20.163	-	-	-	3.570	5,648	20.163
Other Hardware	-	-	372.084	-	-	26.341	-	-	33.370	-	-	61.229	-	-	-	-	-	61.229
Peripherals	-	-	32.166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training Base	-	-	25.751	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>578.697</i>	-	-	<i>40.943</i>	-	-	<i>53.578</i>	-	-	<i>84.834</i>	-	-	-	-	-	<i>84.834</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>578.697</i>	-	-	<i>40.943</i>	-	-	<i>53.578</i>	-	-	<i>84.834</i>	-	-	-	-	-	<i>84.834</i>
Software Cost																		
Recurring Cost																		
Software Licenses	-	-	261.091	-	-	20.176	-	-	29.850	-	-	23.612	-	-	-	-	-	23.612
PDSS	-	-	145.000	-	-	1.300	-	-	3.635	-	-	2.801	-	-	-	-	-	2.801
<i>Subtotal: Recurring Cost</i>	-	-	<i>406.091</i>	-	-	<i>21.476</i>	-	-	<i>33.485</i>	-	-	<i>26.413</i>	-	-	-	-	-	<i>26.413</i>
<i>Subtotal: Software Cost</i>	-	-	<i>406.091</i>	-	-	<i>21.476</i>	-	-	<i>33.485</i>	-	-	<i>26.413</i>	-	-	-	-	-	<i>26.413</i>
Support - Common Support Equipment Cost																		
Test and Measurement Equipment	-	-	3.881	-	-	0.337	-	-	2.400	-	-	1.299	-	-	-	-	-	1.299
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	<i>3.881</i>	-	-	<i>0.337</i>	-	-	<i>2.400</i>	-	-	<i>1.299</i>	-	-	-	-	-	<i>1.299</i>

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89						P-1 Line Item Number / Title: BA9320 / Maneuver Control System (MCS)						Item Number / Title [DODIC]: BA9320 / Maneuver Control System (MCS)						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	58.222	-	-	3.881	-	-	4.576	-	-	4.667	-	-	-	-	-	4.667
<i>Subtotal: Support - Data Cost</i>	-	-	58.222	-	-	3.881	-	-	4.576	-	-	4.667	-	-	-	-	-	4.667
Support - Fielding Cost																		
Fielding	-	-	326.045	-	-	29.408	-	-	24.396	-	-	26.740	-	-	-	-	-	26.740
<i>Subtotal: Support - Fielding Cost</i>	-	-	326.045	-	-	29.408	-	-	24.396	-	-	26.740	-	-	-	-	-	26.740
Support - Program Management Cost																		
Government Management	-	-	43.091	-	-	2.805	-	-	2.889	-	-	2.946	-	-	-	-	-	2.946
Contractor Management	-	-	64.637	-	-	4.207	-	-	4.333	-	-	4.420	-	-	-	-	-	4.420
<i>Subtotal: Support - Program Management Cost</i>	-	-	107.728	-	-	7.012	-	-	7.222	-	-	7.366	-	-	-	-	-	7.366
Support - System Engineering Cost																		
System Engineering	-	-	29.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	29.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	81.577	18,514	1,510.312	27.496	3,748	103.056	22.291	5,637	125.657	22.885	6,612	151.318	-	-	-	22.885	6,612	151.318

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,984	2,071	2,633	-	2,633
	Total Obligation Authority	54.554	46.326	70.124	-	70.124
ANG	Quantity	1,401	2,403	2,532	-	2,532
	Total Obligation Authority	38.522	53.459	35.740	-	35.740
AR	Quantity	363	1,163	1,447	-	1,447
	Total Obligation Authority	9.980	25.872	45.454	-	45.454
Total: Secondary Distribution	Quantity	3,748	5,637	6,612	-	6,612
	Total Obligation Authority	103.056	125.657	151.318	-	151.318

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: BA9320 / Maneuver Control System (MCS)				Item Number / Title [DODIC]: BA9320 / Maneuver Control System (MCS)				

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
Workstation (Initial Procurement)		2016	CHS / Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Jan 2016	Jul 2016	1,691	3.569	Y		
Workstation (Initial Procurement)		2017	CHS / Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Jan 2017	Jul 2017	964	3.570	Y		
Workstation (Tech Refresh)		2016	CHS / Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Jan 2016	Jul 2016	3,970	3.570	Y		
Workstation (Tech Refresh)		2017	CHS / Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Jan 2017	Jul 2017	5,648	3.570	Y		

Remarks:
Items are COTS/GOTS.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: W30001 / Global Combat Support System-Army (GCSS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,539.179	118.600	146.654	155.660	-	155.660	33.334	10.757	39.053	63.090	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,539.179	118.600	146.654	155.660	-	155.660	33.334	10.757	39.053	63.090	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,539.179	118.600	146.654	155.660	-	155.660	33.334	10.757	39.053	63.090	Continuing	Continuing

(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 Combat Support System-Army (GCSS-A) consists of two funding subcomponents; Standard Army Management Information Systems (STAMIS) Tactical Computers (STACOMP) and Army Enterprise System Integration Program (AESIP).

GCSS-Army will modernize tactical logistics by implementing a web based and commercial best business practices system to streamline supply and maintenance, property accountability, and logistics management and integration procedures in all tactical units of the Army. GCSS-Army will provide a comprehensive solution for meeting the day-to-day needs of tactical level logistics, logistics finance operations and statutory auditability requirements. GCSS-Army will enable Commanders to obtain an integrated, interoperable view of the sustainment situation in the battle-space in sufficient time to support decisions that will affect the outcome of combat operations, combat power and planning for future operations.

The Army Enterprise Systems Integration Program (AESIP), mission is to integrate Army business processes by providing a single source for enterprise hub services, centralized master data management, and business intelligence and analytics. AESIP will support the Army's federated approach and enable the integration of end-to-end logistical and financial processes. The AESIP solution establishes a framework for a fully integrated ERP centric environment that will ultimately provide Commanders Total Asset Visibility from Factory to Battlefield thereby ensuring delivery of the right equipment to the right unit at the right time, while reducing backlogs of material on the battlefield.

GCSS-A is a designated Major Automation Information System (MAIS) program.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	55.062	70.350	82.952	-	82.952	19.563	10.757	39.053
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.726	33.201	31.555	-	31.555	6.016	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	35.812	43.103	41.153	-	41.153	7.755	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: W30001 / Global Combat Support System-Army (GCSS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	118.600	146.654	155.660	-	155.660	33.334	10.757	39.053	63.090

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: W30001 / Global Combat Support System-Army (GCSS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	W00800 / GCSS-A Increment 1	P-5a		- / 1,490.000	- / 117.524	- / 143.262	- / 152.965	- / -	- / 152.965
P-5	W11001 / AESIP Increment 1	P-5a		- / 49.179	- / 1.076	- / 3.392	- / 2.695	- / -	- / 2.695
P-40	Total Gross/Weapon System Cost			- / 1,539.179	- / 118.600	- / 146.654	- / 155.660	- / -	- / 155.660

*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 17 Base procurement dollars in the amount of \$152.965 million supports GCSS-Army Wave 2 fielding and training support for the deployment of the system to the remaining Wave 2 units in the Army via fielding groups. The GCSS-Army funding also procures SAP software user licenses for the additional users acquired from fielding the Army units.

FY 17 Base procurement dollars in the amount of \$2.695 million supports procurement of hardware and software required for the implementation of an Enterprise Business Intelligence solution and a Database Management System; 1000 SAP software user licenses; standard hardware refresh for the Program Management Office as well as allows for the replacement of out-of-warranty hardware; built out of the ERP enclave in support of the Army's Common Operating Environment (COE) initiatives and the implementation of the SAP High-Performance Analytic Appliance (HANA). SAP HANA begets the acceleration of replication and ingestion of structured data from SAP and non-SAP relational databases, applications, and other systems quickly.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1

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

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,490.000	117.524	143.262	152.965	-	152.965
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,490.000	117.524	143.262	152.965	-	152.965
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,490.000	117.524	143.262	152.965	-	152.965

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
System Integrator Fielding/Training ^(†)	1,490,000.000	1	1,490.000	-	-	60.528	-	-	66.024	-	-	89.753	-	-	-	-	-	89.753
Software Licenses	-	-	-	-	-	21.696	-	-	29.401	-	-	37.215	-	-	-	-	-	37.215
ERP Deployment Support	-	-	-	-	-	20.777	-	-	28.156	-	-	15.960	-	-	-	-	-	15.960
Matrix and Other Support	-	-	-	-	-	14.523	-	-	19.681	-	-	10.037	-	-	-	-	-	10.037
<i>Subtotal: Non Recurring Cost</i>	-	-	1,490.000	-	-	117.524	-	-	143.262	-	-	152.965	-	-	-	-	-	152.965
<i>Subtotal: Flyaway Cost</i>	-	-	1,490.000	-	-	117.524	-	-	143.262	-	-	152.965	-	-	-	-	-	152.965
Gross/Weapon System Cost	-	-	1,490.000	-	-	117.524	-	-	143.262	-	-	152.965	-	-	-	-	-	152.965

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	53.986	66.958	80.257	-	80.257
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	27.726	33.201	31.555	-	31.555
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	35.812	43.103	41.153	-	41.153

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Exhibit P-5, Cost Analysis: PB 2017 Army			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)		Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	117.524	143.262	152.965	-	152.965

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1
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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
System Integrator Fielding/Training		2014	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Oct 2013	Oct 2013	-	-	Y		
System Integrator Fielding/Training		2015	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Oct 2014	Oct 2014	-	-	Y		
System Integrator Fielding/Training		2016	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Dec 2015	Dec 2015	-	-	Y		
System Integrator Fielding/Training		2017	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Dec 2016	Dec 2016	-	-			

Remarks:

All COTS items. FY17 OPA funding will be used for the following contracting actions: Fielding and training effort to be completed by the Program's Lead Systems Integrator (LSI) Northrop Grumman to 365 units (39% of total units), the procurement of 57,150 SAP software licenses for the user community, additional fielding and training support to supplement the LSI's fielding team will be awarded to a contractor in FY17, and other requirements that are currently being refined. FY17 will incur other noncontract related costs such as matrix support for fielding/training activities.

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W11001 / AESIP Increment 1
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	49.179	1.076	3.392	2.695	-	2.695
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	49.179	1.076	3.392	2.695	-	2.695
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	49.179	1.076	3.392	2.695	-	2.695

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
AESIP Hardware & Software ^(†)	-	-	49.179	1,076.000	1	1.076	3,392.000	1	3.392	2,695.000	1	2.695	-	-	-	2,695.000	1	2.695
<i>Subtotal: Recurring Cost</i>	-	-	49.179	-	-	1.076	-	-	3.392	-	-	2.695	-	-	-	-	-	2.695
<i>Subtotal: Flyaway Cost</i>	-	-	49.179	-	-	1.076	-	-	3.392	-	-	2.695	-	-	-	-	-	2.695
Gross/Weapon System Cost	-	-	49.179	-	-	1.076	-	-	3.392	-	-	2.695	-	-	-	-	-	2.695

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	1.076	3.392	2.695	-	2.695
Total:					
Quantity	-	-	-	-	-
Total Obligation Authority	1.076	3.392	2.695	-	2.695

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W11001 / AESIP Increment 1
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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
AESIP Hardware & Software		2015	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Dec 2014	Jan 2015	1	1,076.000	Y		
AESIP Hardware & Software		2016	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Jan 2016	Feb 2016	1	3,392.000	N		
AESIP Hardware & Software		2017	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Dec 2016	Jan 2017	1	2,695.000	N		

Remarks:
All COTS items. FY17 OPA funding will be used for the following contracting actions: PMO standard hardware refresh, procurement of 1,000 SAP Software user licenses, build out of the ERP enclave in accordance with the Army's Common Operating Environment initiatives, and other requirements that are currently being defined.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B66701 / Integrated Personnel and Pay System-Army (IPPS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	16.970	4.446	4.214	-	4.214	16.077	46.378	9.503	9.625	-	107.213
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	16.970	4.446	4.214	-	4.214	16.077	46.378	9.503	9.625	-	107.213
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	16.970	4.446	4.214	-	4.214	16.077	46.378	9.503	9.625	-	107.213

(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 IPPS-A provides the Army with an integrated, multi-component, military personnel and pay system which streamlines Army Human Resources (HR), enhances the efficiency and accuracy of Army personnel and pay procedures, and supports Soldiers and their families. The IPPS-A will subsume approximately 50 Army legacy systems across the Army, Army Reserve, and National Guard, into an integrated system. The IPPS-A is a web-based tool, available 24 hours a day, accessible to HR professionals, combatant commanders, personnel and pay managers, and other authorized users throughout the Army. IPPS-A addresses major deficiencies in the delivery of military personnel and pay services and also provides internal controls and audit procedures that prevent erroneous payments and loss of funds.

IPPS-A Increment II will deliver full integrated personnel and pay services for all Army Components, building on the trusted database delivered by the IPPS-A Increment I program. Increment II will be able to link the personnel and pay functions for all Army personnel, eliminating duplicate data entry, reducing complex system maintenance, and minimizing pay discrepancies. IPPS-A Increment II will account for status changes between Active, Reserve, and National Guard components to ensure accurate service time minimizing impact on individual pay, credit for service, and other benefits as well as enable disciplined human resource management.

IPPS-A Increment I and Increment II are both designated Major Automation Information System (MAIS) programs.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.970	4.446	4.214	-	4.214	16.077	46.378	9.503
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.970	4.446	4.214	-	4.214	16.077	46.378	9.503

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 B66701 / 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:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		- / -	- / 16.970	- / 4.446	- / 4.214	- / -	- / 4.214
P-40	Total Gross/Weapon System Cost			- / -	- / 16.970	- / 4.446	- / 4.214	- / -	- / 4.214

*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 2017 Base procurement dollars in the amount of \$4.214 million support IPPS-A Increment II Release 2.0 deployment activities which includes training planning, training curriculum development, and training implementation planning on New Equipment Training (NET). The training curriculum includes both Web-based Self Service Training and Instructor-led Training Support Package which will deploy to approximately 355,396 Army Reserve National Guard Soldiers in FY18.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	Item Number / Title [DODIC]: B66706 / IPPS-A INC 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	16.970	4.446	4.214	-	4.214
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	16.970	4.446	4.214	-	4.214
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	16.970	4.446	4.214	-	4.214

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 NonRecurring ^(f)	-	-	-	13,187.000	1	13.187	4,446.000	1	4.446	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	13.187	-	-	4.446	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	13.187	-	-	4.446	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Non Recurring Cost																		
System Infrastructure Hardware ^(f)	-	-	-	3,783.000	1	3.783	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	3.783	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	3.783	-	-	-	-	-	-	-	-	-	-	-	-
Package Fielding Cost																		
Recurring Cost																		
Initial New Equipment Training (NET) ^(f)	-	-	-	-	-	-	-	-	-	4,214.000	1	4.214	-	-	-	4,214.000	1	4.214
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.214	-	-	-	-	-	4.214
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.214	-	-	-	-	-	4.214
Gross/Weapon System Cost	-	-	-	-	-	16.970	-	-	4.446	-	-	4.214	-	-	-	-	-	4.214

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	Item Number / Title [DODIC]: B66706 / IPPS-A INC 2

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	16.970	4.446	4.214	-	4.214
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	16.970	4.446	4.214	-	4.214

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: B66701 / Integrated Personnel and Pay System-Army (IPPS-A)				Item Number / Title [DODIC]: 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
Software NonRecurring		2015	TBS / TBS	C / FFP	ACC-NJ	May 2015	Jun 2015	1	13,187.000			
Software NonRecurring		2016	TBS / TBS	C / FFP	ACC-NJ	Feb 2016	Mar 2016	1	4,446.000			
System Infrastructure Hardware		2015	TBS / TBS	C / FFP	DISA-DECC	Jan 2015	Sep 2015	1	3,783.000			
Initial New Equipment Training (NET)		2017	TBS / TBS	C / CPIF	ACC-NJ	Mar 2017	Nov 2017	1	4,214.000			

Remarks:
All hardware and software procurements are COTS items.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ9966 / Reconnaissance and Surveying Instrument Set
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	444	190	190	191	-	191	213	190	194	268	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	75.955	10.113	16.218	16.185	-	16.185	18.261	16.363	16.515	22.877	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	75.955	10.113	16.218	16.185	-	16.185	18.261	16.363	16.515	22.877	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	75.955	10.113	16.218	16.185	-	16.185	18.261	16.363	16.515	22.877	Continuing	Continuing

(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>)	171.070	53.226	85.358	84.738	-	84.738	85.732	86.121	85.129	85.362	Continuing	Continuing

Description:

The Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) is a tactical engineering tool set designed to modernize the collection and dissemination of engineer related information while minimizing exposure to enemy observation. ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the 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) systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate the Engineer Rapid Airfield Construction Capability Type 1 software solution.

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 ArcMap 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 quick dissemination enabling the "Every Soldier as a Sensor" concept.

ENFIRE also offers agile and adaptive tools to help construction and facilities engineers effectively plan and efficiently undertake projects. ENFIRE's construction site-planning software supports structure design, cut and fills requirements, material needs, and personnel and time requirement calculations. ENFIRE's project management tools can create Gantt charts to track project progress and

milestones. ENFIRE provides a bar code scanning capability which makes inventory management faster and more accurate. ENFIRE Army Acquisition Objective (AAO) = 2864

ENFIRE Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	35	32	50	-	50	48	47	42	52
Total Obligation Authority	0.924	2.608	4.185	-	4.185	4.428	4.363	3.755	4.877

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ9966 / Reconnaissance and Surveying Instrument Set
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
ANG	Quantity	155	88	95	-	95	110	96	110	108
	Total Obligation Authority	9.189	7.562	8.000	-	8.000	9.168	8.000	9.000	9.000
AR	Quantity	-	70	46	-	46	55	47	42	108
	Total Obligation Authority	-	6.048	4.000	-	4.000	4.665	4.000	3.760	9.000
Total: Secondary Distribution	Quantity	190	190	191	-	191	213	190	194	268
	Total Obligation Authority	10.113	16.218	16.185	-	16.185	18.261	16.363	16.515	22.877

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BZ9966 / Reconnaissance and Surveying Instrument Set
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BZ9966 / Reconnaissance and Surveying Instrument Set	P-5a		444 / 75.955	190 / 10.113	190 / 16.218	191 / 16.185	- / -	191 / 16.185
P-40	Total Gross/Weapon System Cost			444 / 75.955	190 / 10.113	190 / 16.218	191 / 16.185	- / -	191 / 16.185

*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 2017 Base procurement dollars in the amount of \$16.185 million supports procurement of 191 ENFIRE systems for Active Duty, National Guard and Army Reserve Engineer units.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BZ9966 / Reconnaissance and Surveying Instrument Set	Item Number / Title [DODIC]: BZ9966 / Reconnaissance and Surveying Instrument Set

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	444	190	190	191	-	191
Gross/Weapon System Cost (\$ in Millions)	75.955	10.113	16.218	16.185	-	16.185
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	75.955	10.113	16.218	16.185	-	16.185
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	75.955	10.113	16.218	16.185	-	16.185

(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)	171.070	53.226	85.358	84.738	-	84.738

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
ENFIRE Systems ^(†)	-	-	52.170	60.000	56	3.360	60.000	190	11.400	60.000	191	11.460	-	-	-	60.000	191	11.460
Project Management and Administration	-	-	7.224	-	-	0.974	-	-	1.229	-	-	1.229	-	-	-	-	-	1.229
Fielding / New Equipment Training	-	-	2.490	-	-	1.376	-	-	1.376	-	-	1.376	-	-	-	-	-	1.376
Engineering and Integration and ILS	-	-	13.417	-	-	3.169	-	-	2.165	-	-	2.072	-	-	-	-	-	2.072
Spares	-	-	0.404	-	-	0.026	-	-	0.048	-	-	0.048	-	-	-	-	-	0.048
Tech Refresh Systems	-	-	0.250	-	-	1.208	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	75.955	-	-	10.113	-	-	16.218	-	-	16.185	-	-	-	-	-	16.185
Subtotal: Flyaway Cost	-	-	75.955	-	-	10.113	-	-	16.218	-	-	16.185	-	-	-	-	-	16.185
Gross/Weapon System Cost	171.070	444	75.955	53.226	190	10.113	85.358	190	16.218	84.738	191	16.185	-	-	-	84.738	191	16.185

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	35	32	50	-	50
	Total Obligation Authority	0.924	2.608	4.185	-	4.185
ANG	Quantity	155	88	95	-	95
	Total Obligation Authority	9.189	7.562	8.000	-	8.000

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: BZ9966 / Reconnaissance and Surveying Instrument Set	Item Number / Title [DODIC]: BZ9966 / Reconnaissance and Surveying Instrument Set

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
AR	Quantity	-	70	46	-	46
	Total Obligation Authority	-	6.048	4.000	-	4.000
Total: Secondary Distribution	Quantity	190	190	191	-	191
	Total Obligation Authority	10.113	16.218	16.185	-	16.185

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: BZ9966 / Reconnaissance and Surveying Instrument Set				Item Number / Title [DODIC]: BZ9966 / Reconnaissance and Surveying Instrument Set					

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
ENFIRE Systems		2015	Chenega Technical Innovations / Lorton, VA	C / FFP	US Army Geospatial Center	Mar 2015	Jun 2015	56	60.000	N		Feb 2015
ENFIRE Systems		2016	Chenega Technical Innovations / Dumfries, VA	C / CPFF	US Army Geospatial Center	Mar 2016	May 2016	190	60.000	N		Feb 2015
ENFIRE Systems		2017	Chenega Technical Innovations / Dumfries, VA	C / CPFF	US Army Geospatial Center	Jun 2017	Nov 2017	191	60.000	Y		Feb 2016

Remarks:
ENFIRE Hardware and Software are 100% COTS/GOTS procurements.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B99901 / MOD of In-Svc Equipment (ENFIRE)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	137	-	-	-	137	144	239	241	-	898
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	1.138	1.565	-	1.565	1.134	1.191	1.984	1.986	-	8.998
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	1.138	1.565	-	1.565	1.134	1.191	1.984	1.986	-	8.998
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	1.138	1.565	-	1.565	1.134	1.191	1.984	1.986	-	8.998

(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>)	-	-	8.307	8.237	-	8.237	8.277	8.271	8.301	8.241	-	10.020

Description:

Mod of In-Svc Equipment Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) supports tech refresh of fielded systems. Tech Refresh of ENFIRE is on a five year cycle and is the replacement of the laptop and selected peripherals.

ENFIRE is a tactical engineering tool set designed to modernize the collection and dissemination of engineer related information while minimizing exposure to enemy observation. ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the 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 Mission Command systems and tactical communications devices to other ENFIRE sets and to other Mission Command (MC) systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate the Engineer Rapid Airfield Construction Capability (ERACC) Type 1 software solution.

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 GPS Receiver (DAGR) and ArcMap 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 quick dissemination enabling the "Every Soldier as a Sensor" concept.

ENFIRE also offers agile and adaptive tools to help construction and facilities engineers effectively plan and efficiently undertake projects. ENFIRE's construction site-planning software supports structure design, cut and fills requirements, material needs, and personnel and time requirement calculations. ENFIRE's project management tools can create Gantt charts to track project progress and milestones. ENFIRE provides a bar code scanning capability which makes inventory management faster and more accurate.

ENFIRE Army Acquisition Objective (AAO) = 2864 (Department of the Army AAO increase based on a revised Army Force structure of 450,000)

ENFIRE Hardware and Software are 100% Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B99901 / MOD of In-Svc Equipment (ENFIRE)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	137	190	-	190	137	144	239	241
	Total Obligation Authority	-	1.138	1.565	-	1.565	1.134	1.191	1.984	1.986
Total: Secondary Distribution	Quantity	-	137	190	-	190	137	144	239	241
	Total Obligation Authority	-	1.138	1.565	-	1.565	1.134	1.191	1.984	1.986

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B99901 / MOD of In-Svc Equipment (ENFIRE)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B99902 / Mod of Reconnaissance and Survey Set			- / -	- / -	137 / 1.138	190 / 1.565	- / -	190 / 1.565
P-40	Total Gross/Weapon System Cost			- / -	- / -	137 / 1.138	- / 1.565	- / -	- / 1.565

*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 2017 Base procurement dollars in the amount of \$1.565 million supports tech refresh of 190 ENFIRE 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-40a, Budget Item Justification For Aggregated Items: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89 **P-1 Line Item Number / Title:** B99901 / MOD of In-Svc Equipment (ENFIRE) **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Mod of Reconnaissance and Survey Set																				
B99902 / Mod of Reconnaissance and Survey Set			-	-	-	-	-	-	8.307	137	1.138	8.237	190	1.565	-	-	-	8.237	190	1.565
<i>Secondary Distribution</i>																				
Army				-	-		-	-		137	1.138		190	1.565		-	-		190	1.565
Subtotal: Mod of Reconnaissance and Survey Set			-	-	-	-	-	-	-	-	1.138	-	-	1.565	-	-	-	-	-	1.565
Total			-	-	-	-	-	-	-	-	1.138	-	-	1.565	-	-	-	-	-	1.565

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 2017 Army **Date:** February 2016

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: BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	304.890	9.015	12.089	17.693	-	17.693	19.121	14.952	16.512	16.570	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	304.890	9.015	12.089	17.693	-	17.693	19.121	14.952	16.512	16.570	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	304.890	9.015	12.089	17.693	-	17.693	19.121	14.952	16.512	16.570	Continuing	Continuing

(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) includes three related efforts 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.

Specific initiatives include Distributive Training Technology Project (DTTP), Other Training Modernization, and the Distributed Learning System (DLS). DTTP 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 31 Deployed Digital Training Campus (DDTC) to allow training while units are deployed. 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. 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, hence 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 and Department of the Army Civilians (DAC). The DTTP/DLS provide infrastructure for Soldiers to train at or near their assigned station in lieu of resident training at Army schools.

Other Training Modernization supports the National Technical Nuclear Forensics need for a recurring equipment requirement associated with a radiation sensor capability, including the need to upgrade evolving commercial off the shelf detection assets and supporting equipment. This equipment is required at the institution in order to meet an evolving training requirement associated with the National Technical Nuclear Forensics-Ground Sampling Mission (NTNF-GSM). The NTNF-GSM is a supporting mission to the strategic national task 9.1.7 (Support Chemical, Biological, Radiological, and Nuclear (CBRN) Forensics and Attribution). The NTNF-GSM requires the Army to support an interagency incident investigation; in support of the FBI or lead federal agency (LFA), by performing ground sampling of radiological and nuclear material as directed. Additionally, this supports the Army Career Tracker (ACT). ACT is a leader development tool which provides Army personnel the ability to manage their professional development and to monitor progress toward training, education, and career goals. ACT supports the following Strategic Alignments: The Army Leader Development Strategy; Army Learning Model; The Army Transition Program; The Army Sponsorship Program; Annex O, Army Campaign Plan: Civilian Workforce Transformation; and HQDA EXORD 054-12 ISO Army Transition mandates that leaders utilize roles in ACT to promote life-long learning and development opportunities throughout the Soldier's lifecycle of service (hire to retire).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
	Total Obligation Authority	9.015	12.089	17.693	-	17.693	19.121	14.952	16.512	16.570
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	9.015	12.089	17.693	-	17.693	19.121	14.952	16.512	16.570

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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			- / 55.881	- / 2.867	- / 2.454	- / 4.066	- / -	- / 4.066
P-5	BE4172 / OTHER TRAINING MODERNIZATION	P-5a		- / 68.201	- / 0.779	- / 0.038	- / -	- / -	- / -
P-5	BE4173 / Distributed Learning System (DLS)	P-5a		- / 180.808	- / 5.369	- / 9.597	- / 13.627	- / -	- / 13.627
P-40	Total Gross/Weapon System Cost			- / 304.890	- / 9.015	- / 12.089	- / 17.693	- / -	- / 17.693

*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 2017 (BE4171) Base procurement dollars in the amount of \$4.066 million supports system integration and technical refresh for 18 of the Program's 334 DL Classrooms. Many of the DL Classrooms have workstations, audio/video equipment, and printers that are well past their end of life and need technical refresh to comply with heightened Cybersecurity standards and new network infrastructure to ensure their continued availability and capability to meet current and emerging training and readiness requirements for the ARNG's State and Federal missions.

FY 2017 (BE4173) Base procurement dollars in the amount of \$13.627 million funds the DLS Enterprise Technology Refreshment (Tech Refresh) program in support of all increments (DTF, EMC, ALMS, and 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, it is critical that Tech Refresh be maintained to assure continued supportability of the DLS Enterprise and to avoid disruption of Army Training. Funds are also needed for software and engineering changes required to enhance the ALMS assessment capabilities. This will expand the automated capability for the creation, storage, management, and administration of online testing and course product evaluations (including surveys) to support Army Soldier and civilian training and education.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BE4169 / Army Training Modernization	Item Number / Title [DODIC]: BE4171 / DISTRIBUTIVE TRAINING TECHNOLOGY

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	55.881	2.867	2.454	4.066	-	4.066
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	55.881	2.867	2.454	4.066	-	4.066
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	55.881	2.867	2.454	4.066	-	4.066

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	55.881.000	1	55.881	2,867.000	1	2.867	2,454.000	1	2.454	4,066.000	1	4.066	-	-	-	4,066.000	1	4.066
<i>Subtotal: Recurring Cost</i>	-	-	55.881	-	-	2.867	-	-	2.454	-	-	4.066	-	-	-	-	-	4.066
<i>Subtotal: Flyaway Cost</i>	-	-	55.881	-	-	2.867	-	-	2.454	-	-	4.066	-	-	-	-	-	4.066
Gross/Weapon System Cost	-	-	55.881	-	-	2.867	-	-	2.454	-	-	4.066	-	-	-	-	-	4.066

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.867	2.454	4.066	-	4.066
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.867	2.454	4.066	-	4.066

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: BE4169 / Army Training Modernization
		Item Number / Title [DODIC]: BE4172 / OTHER TRAINING MODERNIZATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	68.201	0.779	0.038	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	68.201	0.779	0.038	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	68.201	0.779	0.038	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	68,201.000	1	68.201	40.000	1	0.040	-	-	0.038	-	-	-	-	-	-	-	-	-
Army Career Tracker ^(†)	-	-	-	739.000	1	0.739	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	68.201	-	-	0.779	-	-	0.038	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	68.201	-	-	0.779	-	-	0.038	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	68.201	-	-	0.779	-	-	0.038	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.779	0.038	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.779	0.038	-	-	-

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BE4169 / Army Training Modernization					Item Number / Title [DODIC]: BE4172 / OTHER TRAINING MODERNIZATION				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
NTNF		2015	GCSS Army Supply System / Fort Leonard Wood	Reqn	Fort Leonard Wood, MO	Jan 2015	Feb 2015	1	40.000	Y		
NTNF		2016	GCSS Army Supply System / Fort Leonard Wood	Reqn	Fort Leonard Wood, MO	Nov 2015	Dec 2015	-	-	Y		
Army Career Tracker		2015	IMMIX Technology Inc / McLean VA	C / FP	MICC Fort Eustis, VA	Sep 2015	Sep 2015	1	739.000	Y		

Remarks:

NTNF: Equipment is required at the institution in order to meet the training 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.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BE4169 / Army Training Modernization	Item Number / Title [DODIC]: BE4173 / Distributed Learning System (DLS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	180.808	5.369	9.597	13.627	-	13.627
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	180.808	5.369	9.597	13.627	-	13.627
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	180.808	5.369	9.597	13.627	-	13.627

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	58,720.000	1	58.720	1,093.500	1	1.094	1,406.000	1	1.406	1,468.000	1	1.468	-	-	-	1,468.000	1	1.468
Army Learning Management System ^(†)	20,301.000	1	20.301	1,254.000	1	1.254	4,949.000	1	4.949	7,459.000	1	7.459	-	-	-	7,459.000	1	7.459
Enterprise Technology Refreshment ^(†)	101,787.000	1	101.787	3,021.500	1	3.022	3,242.000	1	3.242	4,700.000	1	4.700	-	-	-	4,700.000	1	4.700
<i>Subtotal: Recurring Cost</i>	-	-	<i>180.808</i>	-	-	<i>5.369</i>	-	-	<i>9.597</i>	-	-	<i>13.627</i>	-	-	-	-	-	<i>13.627</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>180.808</i>	-	-	<i>5.369</i>	-	-	<i>9.597</i>	-	-	<i>13.627</i>	-	-	-	-	-	<i>13.627</i>
Gross/Weapon System Cost	-	-	180.808	-	-	5.369	-	-	9.597	-	-	13.627	-	-	-	-	-	13.627

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	5.369	9.597	13.627	-	13.627
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	5.369	9.597	13.627	-	13.627

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BE4169 / 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		2015	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2014	Oct 2014	1	1,093.500	Y		
System Fielding & Implementation		2016	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2015	Oct 2015	1	1,406.000	N		
System Fielding & Implementation		2017	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2016	Oct 2016	1	1,468.000	N		
Army Learning Management System		2015	ActioNet / Vienna, VA	C / FFP	MICC, Ft Eustis, VA	Apr 2015	Apr 2015	1	1,254.000	Y		
Army Learning Management System		2016	Various Vendors ** / Various Locations	C / FFP	MICC, Ft Eustis, VA	Mar 2016	Mar 2016	1	4,949.000	N		
Army Learning Management System		2017	Various Vendors ** / Various Locations	C / FFP	MICC, Ft Eustis, VA	Apr 2017	Apr 2017	1	7,459.000	N		
EnterpriseTechnology Refreshment		2015	CDW Government LLC / Vernon Hills, IL	C / FFP	MICC, Ft Eustis, VA	May 2015	May 2015	1	3,021.500	Y		
EnterpriseTechnology Refreshment		2016	Various Vendors ** / Various Locations	C / FFP	MICC, Ft Eustis, VA	Apr 2016	Apr 2016	1	3,242.000	N		
EnterpriseTechnology Refreshment		2017	Various Vendors ** / Various Locations	C / FFP	MICC, Ft Eustis, VA	Apr 2017	Apr 2017	1	4,700.000	N		

Remarks:
 Various Vendors: vendors servicing aspects of the Army Learning Management Systems (ALMS) enhancements and the DLS Enterprise Technology Refreshment are GTSI Corp, Chantilly, VA; CDW Government, Inc., Vernon Hills, IL; Sprint, Reston, VA; and Spiritech, Inc., Warren, MI, Betis Group, Arlington, VA. The Distributive Learning System (DLS) Enterprise Technology Refreshment addresses replacement or upgrading of critical information technology components throughout the DLS enterprise system. It is anticipated that this continuing requirement will be serviced by a variety of contractor entities in the future. Items are COTS/GOTS.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BD3000 / Automated Data Processing Equip
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,373.225	134.782	106.427	107.960	9.900	117.860	76.799	68.970	97.998	103.829	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,373.225	134.782	106.427	107.960	9.900	117.860	76.799	68.970	97.998	103.829	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,373.225	134.782	106.427	107.960	9.900	117.860	76.799	68.970	97.998	103.829	Continuing	Continuing

(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 and site.

The Automated Data Processing Equipment (ADPE) program supports the Army's sustaining base automation systems. 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, home station and modularity capabilities, focused logistics, 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, logistics, personnel, and other sustaining base functions.

ITA RESOURCES (B01002):

PENTAGON INFORMATION TECHNOLOGY INFRASTRUCTURE (PITI): The PITI provides network transport for all Services and Agencies in the Pentagon at all security classification levels. This program includes comprehensive network security, computer network defense, and intrusion detection at the DoD Information Networks Pentagon edge. It also provides the Pentagon Installation Processing Node (IPN) with full spectrum computing and data management, data storage, replication, recovery, and back-up. The PITI also provides the organizational messaging node for DoD and replaces existing firewalls with the joint computer network defense architecture for the Pentagon node. Life Cycle Replacement of the Pentagon's core network infrastructure is critical; it replaces aging equipment from the Pentagon infrastructure renovation 6 to 10 years ago and will minimize the risk for increased occurrences/durations of widespread network outages and higher maintenance costs. The program also provides the capacity needed to meet the Joint Information Environment bandwidth requirements based on the virtualization and continuing alignment of Enterprise services at DoD Core Data Centers. This is not a new start, beginning in FY 2017 PITI funds were realigned from Standard Study Number BE4161, HQ Management Information Systems, to B01002, ITA Resources, for more efficient, effective program management in accordance with the Information Technology Agency (ITA) transition to the Joint Information Technology Service Provider Pentagon.

ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP) (B33010):

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BD3000 / 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: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP): The ADCCP executes the Presidential, Office of Management and Budget Federal Data Center Consolidation Initiative, DoD directives, and the Army Execute Order for data center consolidation. The ADCCP will decrease the Army's information technology infrastructure and application inventory to gain fiscal efficiencies, reduce exposure to cyber exploitation, streamline information operations, and achieve centralized hosting services while migrating to a discrete number of Operating Environments. The ADCCP implements the Common Operating Environments for fixed-site Core Data Centers that allow for standardized Network Operations (NetOps) and functional commands' virtualization and migration of applications to support such initiatives as the Joint Information Environment (JIE). This establishes the Data Center Computing Environment, standardized local NetOps environments, and associated server environments necessary for the phased closure of 534 geographically dispersed data centers and migration of myriad Army applications to Defense Information Systems Agency Core Data Centers. In 2016, funds were realigned from Standard Study Number B33010, Army Data Center Consolidation Program, to the Army Computing Infrastructure program in BE4162, MACOM Automation, for more efficient, effective program management.</p> <p>OPTICAL DIGITAL EQUIP (BD3956): ARMY RECORDS INFORMATION MANAGEMENT SYSTEM (ARIMS): The ARIMS is the Department of the Army's enterprise record keeping system. It is used to identify, collect, preserve, and retrieve electronic record information and index hard copy records with retention periods ranging from 7 to 150 years in 130 Army-owned Records Holding Areas and 16 Federal Records Centers. With over 68,000 users, ARIMS provides the central capability for sharing information that documents the conduct of the Army's business, contingency and war-time operations, and ensures economy and efficiency in documenting Army policies, decisions, and operations. The ARIMS web-based tools reduce the administrative burden of the Warfighter, ensure that the Army's official and historical records are preserved, improve and sustain legitimate access to Army records, and promote compliance with governing statutes. The ARIMS supports Army-wide record management activities, including those addressing Department of Army responsibilities under the Freedom of Information Act (FOIA), the Privacy Act, Executive Order 13526 Declassification requirements, and the Army's combat records research role as the Department of Defense Executive Agent for Post-Traumatic Stress Disorder (PTSD) and other health related claims filed by Veterans. Specialized record collections include Gulf War Declassification, Operation Enduring Freedom, Operation Iraqi Freedom, Operation New Dawn, and other contingency operations. Technology refresh ensures the Army's records comply with statutory and regulatory requirements, preserves individual record integrity, mitigates the risk of historical information loss, and ensures official Army records are available for Congressional, Government Accountability Office, Executive Branch, and FOIA requirements. Under the Army Data Center Consolidation Plan (ADCCP) initiative, ARIMS is identified as an Army application pending data center 'hosting' disposition.</p> <p>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 160 million 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, 6.7 million personnel files are supported by iPERMS and the number of files increases each year; the system also supports other activities such as the Department of Veteran Affairs, Department of Labor, and Federal, State, and local Law Enforcement agencies. The iPERMS will interface directly with, but not be subsumed by, the Integrated Personnel and Pay System-Army (IPPS-A). This program is linked to RDTE Program Element 0605013A, Project Number T05, Project Title Army Business System Modernization Initiatives.</p> <p>STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000): LOGISTICS TECHNOLOGY ASSESSMENT (LTA): LTA invests in innovative information technology solutions that improve Army logistics processes by reducing demand and/or creating logistics efficiencies. LTA procures GOTS/COTS products and integrates them in a field-based system of systems assessment environment for use and implementation planning. Solutions include mobile applications to automate the capture and processing of fuel and ammunition consumption and delivery, mobile and head-worn devices to automate maintenance operations, and Condition Based Maintenance (CBM) solutions that wirelessly transmit health and usage data off of Army platforms. LTA will ensure that targeted tactical solutions interoperate with the logistics applications maintained at Army Data Centers, such as the Army's Enterprise Resources Planning (ERP) environment, and that they communicate over standard Army Networks. This program directly supports Army Operating Concept requirements to create logistics efficiencies and reduce demand, thus enabling the Army to maintain equipment readiness with reduced logistics footprint and costs.</p> <p>HQ MANAGEMENT INFORMATION SYSTEMS (BE4161): HEADQUARTERS, DEPARTMENT OF THE ARMY AUTOMATED DATA PROCESSING EQUIPMENT (HQDA ADPE): The HQDA ADPE provides the Headquarters Enterprise Network (HEN) end user computing, application, and Video Teleconferencing environments. The HEN supports more than 14,000 users in over 80 Army directorates and agencies in the Pentagon and National Capital Region including both classified and unclassified end user device support. Systems provide the back-end server and data storage to support the virtualized desktop as a service infrastructure. This converged and virtualized platform enables Army to avoid costly maintenance of individual desktops by deploying a reduced number of disparate user images directly from the server for better management of security patching, improved</p>		

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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>software license and version control, and ability of HQDA staff to work from remote locations. The HEN also supports Internet Protocol(IP)-based Video Teleconferencing (VTC) systems, which offer a significant improvement in reliability and availability for remote collaboration. The robust IP-based VTC environment helps eliminate costly dedicated Integrated Services Digital Network (ISDN) lines and unreliable ISDN-based systems, and also enables a significant reduction in local and temporary duty travel costs.</p> <p>PENTAGON INFORMATION TECHNOLOGY INFRASTRUCTURE (PITI): The PITI provides network transport for all Services and Agencies in the Pentagon at all security classification levels. This program includes comprehensive network security, computer network defense, and intrusion detection at the DoD Information Networks Pentagon edge. It also provides the Pentagon Installation Processing Node (IPN) with full spectrum computing and data management, data storage, replication, recovery, and back-up. The PITI also provides the organizational messaging node for DoD and replaces existing firewalls with the joint computer network defense architecture for the Pentagon node. Life Cycle Replacement of the Pentagon's core network infrastructure is critical; it replaces aging equipment from the Pentagon infrastructure renovation 6 to 10 years ago and will minimize the risk for increased occurrences/durations of widespread network outages and higher maintenance costs. The program also provides the capacity needed to meet the Joint Information Environment bandwidth requirements based on the virtualization and continuing alignment of Enterprise services at DoD Core Data Centers.</p> <p>STRATEGIC COMMAND CENTERS (SCC): The SCC provides core Command, Control, Communications, and Computers (C4) infrastructure for Joint, Coalition and Interagency C4 capabilities at Army and Army supported command centers. These include European Command (EUCOM), US Africa Command (AFRICOM), US Forces Korea (USFK), Joint Special Operations Command (JSOC), 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, and other sites on peninsula, with both classified and unclassified computing capabilities for US and alliance 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. These networks support US and Alliance planning and C4 tools such as Theater Operational Planning Assessment System (TOPAS) and Theater Effects Base Operations (TEBO). These tools 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. Tools provide advanced concept technology demonstration as well as communications, computing and intelligence capabilities, tailored to peninsula operational requirements. Network infrastructure supports 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.</p> <p>LEGAL AUTOMATION ARMY-WIDE SYSTEM (LAAWS): The LAAWS is the Army Judge Advocate General's Corps (JAGC) Knowledge Management System that provides critical strategic communications, legal resources, and mission support for garrison and deployed legal operations, Active and Reserve legal personnel, and mission planning and execution. The LAAWS consists of web-enabled legal databases and applications accessible worldwide on JAGCNet (the Army JAGC web portal). It also provides legal resources and research capabilities for the full range of functional areas (international law, military justice, claims, administrative law, and litigation) for off-line and stand-alone legal support requirements. The Judge Advocate Warfighting System (JAWS) provides remote access to JAGCNet. LAAWS/JAWS is the single system that provides critical legal resources to deployed Army JAGC personnel when advising commanders and activities on statutory and regulatory requirements. Sensitive information resides in LAAWS including Health Insurance Portability and Accountability Act (HIPAA) information concerning medical care recovery and other tort/claims actions; personally identifiable information (PII); For Official Use Only (FOUO); and Law Enforcement Sensitive information. Operational support provided by LAAWS/JAWS includes lawful targeting, compliance with the Law of War, negotiation and preparation of international agreements and treaties, conduct of legal tribunals, claims processing, and preparation of soldier documents such as wills and powers of attorney.</p> <p>3RD ARMY VIDEO TELECONFERENCE (VTC)/VOICE CROSS DOMAIN AND VTC BRIDGE: Provides VTC capability in support of 3rd Army Operation Inherent Resolve (OIR) operations. System will provide theater-specific equipment consisting of a VTC Cross Domain capability that will provide highly reliable, secure video and VTC capabilities for US and Coalition Partner Nation commanders and senior leaders for the Combined Joint Task Force (CJTF)-OIR. The intent is to link multiple classified enclaves and/or sites into one VTC Session to support, in real time, the CJTF's operational needs and enhance Mission Command with a Voice and Video Cross Domain Solution (V2CDS). System provides a bridge solution or Multi-point Control Unit (MCU) capable of, at minimum, 100 endpoints. It also modernizes 30 existing VTC suites in the CJTF staff directorates to be compatible with new system for optimal VTC service and performance.</p>		

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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	

MACOM AUTOMATION SYSTEMS (BE4162):

ARMY COMPUTING INFRASTRUCTURE (ACI): The ACI resources equipment that provides for Joint Information Environment (JIE)-defined Installation Service Nodes (ISNs) at Army installations in the Continental United States (CONUS) and Outside Continental United States (OCONUS). The infrastructure that ACI procures is comprised of the Network Operations tools, ancillary equipment, and software vital to standardizing, managing, maintaining, and securing local ISNs and networks in a Common Operating Environment. This program supports the ongoing Army Data Center Consolidation Program (ADCCP), which is an approved data center/Information Technology (IT) inventory reduction and standardization program sanctioned by Army governance bodies in accordance with Federal and DoD CIO guidelines. The ACI also supports the Army Home Station Mission Command Center (HSMCC) initiative to ensure that Corps, Division, and theater-level Army headquarters have the appropriate and secure Video Conferencing (VTC) equipment to conduct Mission Command (MC) during all phases of operations. It leverages available network assets while preserving expensive satellite air time during periods of normal home-station operations and advances the level of service for vital Command and Control (C2) video communications. In addition, these enduring MC centers require common, standardized, and fixed operational capabilities that enable reach back and forward support, tactical MC suite availability, coalition communications, training, logistics, and lifecycle support.

BATTLE LAB COLLABORATIVE SIMULATION ENVIRONMENT (BLCSE): The BLCSE is a deliberate program for developing and evaluating new warfighting concepts and capabilities prior to committing resources. The principal method used by BLCSE is experimentation, placing Soldiers and Leaders in situations representing complex future operational environments. The BLCSE is the key modeling and simulation technical architecture; it uses approved scenarios, authoritative performance data, and validated simulations to ensure quantifiable, efficient analyses to help validate concepts and to support Army decisions. The BLCSE is a secure data network and a federation of proven constructive and virtual simulations that provide a persistent, coherent, and integrated synthetic experimentation environment. It provides collaborative and distributed capability and network connectivity to Army and Training and Doctrine Command (TRADOC) Battle Labs and the TRADOC Analysis Center. The BLCSE provides substantial cost avoidance by providing an enterprise solution that consolidates network capabilities while reducing travel, shipping, equipment, and facility costs required to support the Army Experimentation Program. The BLCSE network will be a key enabler as part of the Army Experimentation of Force 2025 Maneuvers in developing the concepts that will ultimately lead to the determination and fielding of the required capabilities to deliver Force 2025 and Beyond.

US ARMY TRAINING AND DOCTRINE COMMAND (TRADOC) INSTITUTIONAL ARMY BATTLE COMMAND SYSTEM (ABCS) TRAINING BASE (TIABCSTB): The Army approved Mission Command Training Strategy (MCTS) is focused at the Doctrine, Organization, Training, Material, Leadership and Education, Personnel, and Facilities (DOTMLPF) implication of the Army Battle Command Systems (ABCS) which are the principal digital Command and Control (C2) system for battlefield commanders from battalion to corps. The ABCS consists of the Global Command and Control System Army (GCCS-A), Advanced Field Artillery Tactical Data System (AFATDS), All Source Analysis System (ASAS), Battle Command Sustainment Support System (BCS3), Army Missile Defense Warning System (AMDWS), Maneuver Control System (MCS), Force XXI Battle Command Brigade and Below (FBCB2), and Tactical Airspace Information System (TAIS). This program enables commanders, battle staff, and Soldiers to exploit new digital command and control capabilities on the battlefield. The institutional Battle Command Training and Distributed System (BCT&DS) is integral to the MCTS while supporting the operational forces Active Army, National Guard, and Army Reserve digital training requirements in real time within a networked Army Battle Command (ABC) learning environment. It is designed, developed, and engineered to support institutional operational adaptation. It enables the TRADOC institutional training domain to accomplish 24 hours a day/7 days a week training in support of the Army Campaign Plan. This infrastructure can demonstrate and exercise digital battle command and staff functions, integrate live, virtual, constructive multi-media educational assets, and conduct robust individual and collective training events exercises. The BCT&DS is a subset of the institutional Mission Command Art & Sciences Program (MCASP) and supports the Army Mission Command Training Strategy. This BCT&DS capability is provided at specified TRADOC schools.

ARMY TRAINING INFORMATION ARCHITECTURE (ATIA): The ATIA infrastructure provides the operational environment supporting the Army's learning management systems, the Central Army Registry (CAR), Training Development Capability (TDC), and system interfaces to the Army Training Requirements and Resources System (ATRRS). These systems are the official repository of Army training products and services in accordance with Army Regulation 25-30 and TRADOC Regulation 350-70. The ATIA facilitates mission information infrastructure critical to all Army training development and management. It is used by over 480,000 Active, Guard, and Reserve Soldiers and trainers in residence and is available to deployed Soldiers via distance learning.

ACADEMIC NETWORK VIRTUALIZATION (ANV): The Defense Language Institute Foreign Language Center (DLIFLC) academic network provides high-speed access to authentic language materials accelerating language acquisition for DoD linguists. The network provides virtualized desktop capability on mobile computing platforms to improve efficiency and security. The ANV leverages mobile computing technology to improve time on task for the DLIFLC student population. The DLIFLC has directly correlated both the speed of language acquisition and proficiency levels reached by students to the amount of exposure students have to authentic language content. The intent is to recapitalize the investment to ensure the continued functionality of the current mobile technology fleet by delivering virtual desktop capability through the student mobile devices. This will be accomplished through the replacement of end-of-life equipment to provide better virtual learning opportunities to the total force through immersive training events delivered via the web and mobile applications as well as language training detachments.

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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>ACQUISITION, LOGISTICS, AND TECHNOLOGY ENTERPRISE SYSTEMS AND SERVICES (ALTESS): ALTESS provides enterprise-class, core data center services including hosting and support for approved Army and DoD systems. In addition to hosting, ALTESS provides information management, technology, and assurance to Army and DoD Joint Services organizations. ALTESS performs full life cycle support and services for enterprise solutions and hosting services in secure environments; it is a cornerstone of the Army's Data Center Computing Environment (DCCE). The ALTESS facility is equipped to host state-of-the-art, high density computing environments. Technical refresh of core infrastructure components are completed annually on different parts of the hosting infrastructure to maintain current support as required by Information Assurance regulations. Strategic investments in the ALTESS highly efficient and manageable infrastructure will provide the baseline capability required to satisfy the mission of the DCCE initiatives.</p> <p>U.S. AFRICA COMMAND (AFRICOM) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The AFRICOM HQ ADPE provides the end user computing services and application environments for AFRICOM. It supports users at Kelly Barracks, Germany, and Molesworth, United Kingdom, with both classified and unclassified computing capabilities as well as the hardware supporting these services within the various AFRICOM offices. The systems and services include cyber protection and physical security measures to further automate infrastructure scanning and patching to identify security vulnerabilities, investigate security incidents, and take corrective actions. It provides unified communications servers integrating voice, teleconferencing, video teleconferencing, collaboration, and messaging services to enhance mission success throughout the area of operation. The video infrastructure supports increasing requirements for high definition video. It provides centralized management and control of physical and virtual servers to enhance computing capabilities and reduce the physical footprint of the hardware infrastructure that supports directory, file, and print services; web servers processing; storage and switching; data replication for Continuity of Operations Planning (COOP); and data recovery.</p> <p>ARMY ONE SOURCE (AOS): The AOS portal, located at www.myarmyonesource.com, compiles important, credible, up-to-date information in a single location for Army Soldiers and Family members to access at any time of day, regardless of component or physical location. It is the public face of the HQDA Family Programs Directorate and serves as the official portal to Army Families worldwide. It organizes articles, videos and resources in the following major categories: Family Programs and Services; Healthcare; Soldier and Family Housing; Child, Youth and School Services; Education, Careers and Libraries; Recreation, Travel, and Better Opportunity for Single Soldiers (BOSS); and Communities and Marketplace. It's also a tool that is used by Army Community Service staff members for recordkeeping as well as a commander's tool to communicate in a virtual Family Readiness Group.</p> <p>THE JUDGE ADVOCATE GENERAL'S LEGAL CENTER AND SCHOOL (TJAGLCS) INFRASTRUCTURE: The Judge Advocate General's Legal Center & School (TJAGLCS) trains over 6,000 students annually. The existing visual information systems in the Decker Auditorium is over 25 years old and at high risk for system failure. The outdated technology severely impedes the instructional capabilities of TJAGLCS's staff and faculty in both resident and Distributed Learning courses. The new system will replace outdated analog equipment with more reliable digital equipment in Decker Auditorium and classrooms.</p> <p>COMBINED OPERATIONS AND INTELLIGENCE CENTER (COIC) WALL ENGINE REPLACEMENT. The COIC wall supports Operation Inherent Resolve (OIR) at the ARCENT Operations Center, Camp Arifjan. The COIC wall provides 24 hours a day/7 days a week situational awareness of theater assets to include ARCENT, subordinate Army/land force units in the ARCENT Area of Responsibility, Special Operations Forces, and air assets supporting or supplementing air operations. It monitors feeds from Top Secret/Sensitive Compartmented Information down to coalition secure information feeds (secure networks). Information is displayed graphically, including a Common Operating Picture, and can support live video/secure video teleconference feeds.</p> <p>PERSONNEL AUTOMATION SYSTEMS (BE4164): PERSONNEL ENTERPRISE SUPPORT-AUTOMATION (PES-A): The PES-A is an Information Technology (IT) Enterprise infrastructure acquisition program that provides integrated support to the Army Human Resources (HR) community. This program 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. The PES-A provides the hardware, network, and connectivity capabilities that serve as the technical foundation for core Army HR systems, applications, and services supporting the Warfighter. These systems include the Enlisted, Officer, and General Officer Selection Boards, the Soldier's Management System (SMS), the Wounded Warrior System, and the Defense Casualty Information Processing System (DCIPS). The PES-A supports the readiness and well-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.</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,</p>		

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<p>commercial and DoD drug laboratories, the recruiting services, the Defense Manpower Data Center, and many other DoD systems. The USMIRS processes approximately 926.8 thousand individual records annually through its Data Services. This program is linked to RDTE Program Element 0605013A, Project Number T04, Project Title USMEPCOM Transformation – IT Modernization.</p> <p>ARMY CENTRALIZED CIVILIAN HUMAN RESOURCES (ACCHR): The ACCHR supports Army-unique interfaces with the Defense Civilian Personnel Database System (DCPDS), which is the Human Resources (HR) system of record for the entire DoD civilian workforce. The DCPDS provides civilian employees access to the My Biz/My Workplace applications, HR professionals and supervisors worldwide secure access to Army Civilian Personnel information, and trains/deploys civilian employees in theater in support of the Warfighter. The Army Component instance of DCPDS migrated to the Defense Information Systems Agency Defense Enterprise Computing Center in Denver, Colorado, in 2014, but the requirement for lifecycle replacement of workstations and printers to access the DCPDS data from Army Civilian Personnel Advisory Centers (CPACs) and Civilian Human Resources Agency (CHRA) regions remains with the Army. Other enduring Army-unique requirements include life cycle replacement of scanners for input of Civilian Official Personnel File documents into Office of Personnel Management (OPM) Electronic Official Personnel Folder (eOPF) system and automation of the Extract, Transform and Load (ETL) process used to manage the flow of data obtained from DCPDS to Army-unique Civilian HR (CHR) applications such as the Civilian Personnel Online (CPOL) portal and the Fully Automated System for Classification (FASCLASS).</p> <p>ARMY ACCESSIONING-INTEGRATED AUTOMATION ARCHITECTURE (AA-IAA): The AA-IAA encompasses the entire automation support for the Army recruiting, accessioning, and Reserve Officers' Training Corps commissioning missions, which satisfy Army manning and force strength requirements supporting the Warfighter. The AA-IAA 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 AA-IAA 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 AA-IAA 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 AA-IAA also provides the overarching support structure for cyber recruiting and applicant self-processing.</p> <p>KEYSTONE: KEYSTONE is an interactive, on-line automated personnel system which supports all components (Active, Reserve, and National Guard) of the Army. It provides critical support to accession, training, re-enlistment and assignment processes in peace and war. It supports over 20,000 users worldwide, tracks over 300,000 training seats and maintains military occupational specialty (MOS) skill qualifications, enlistment programs, and assignment/enlistment guarantees. It maintains historical production data, produces management reports, supports the presentation of Army opportunities, is a source for delivering leads to recruiters, and is the sole information source of reclassification for career counselors. KEYSTONE also provides Continuity of Operations and disaster recovery for Primary Mission Essential Function applications and databases. KEYSTONE systems have a direct and visible impact on the Total Army's Personnel End Strength. This program is linked to RDTE Program Element 0605013A, Project Number T05, Project Title Army Business System Modernization Initiatives.</p> <p>US MILITARY ACADEMY (USMA) INFORMATION TECHNOLOGY (IT): The USMA is an accredited institution of higher learning graduating approximately 1,100 Second Lieutenants to support the Army each year. The USMA IT sustains the mission of the Academy as it maintains pace with Army transformation, remains a competitive Tier 1 university, and supports 4,400 Cadets in accordance with Title 10 USC 4342. Many non-DoD affiliations affect USMA IT mission requirements, specifically, the Accreditation Board of Engineering and Technology (ABET), Middle States Accreditation Board, and Computer Science Accreditation Board (CSAB). These accreditation efforts look at future plans for IT. To maintain its accreditation standards and to instruct and prepare future Army leaders to operate in the sophisticated high-tech warfare of Joint and Army Visions for 2020 and beyond, USMA must employ technology unique to the cadet education and development mission in spaces where cadets, staff, and faculty congregate and collaborate to include cadet barracks, administrative buildings, academic classrooms, and laboratories. The USMA IT is essential to every aspect of education, training, and Command and Control (C2) of the USMA and West Point Garrison. The USMA IT procurement directly supports the Army's core competency to train and equip Soldiers and to grow and develop our future leaders. In 2016, USMA IT funds were realigned from Standard Study Number BE4164, Personnel Automation Systems, to BE4175, Personnel Automation Systems-West Point, for more efficient, effective program management.</p> <p>PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175): US MILITARY ACADEMY (USMA) INFORMATION TECHNOLOGY (IT): The USMA is an accredited institution of higher learning graduating approximately 1,100 Second Lieutenants to support the Army each year. The USMA IT sustains the mission of the Academy as it maintains pace with Army transformation, remains a competitive Tier 1 university, and supports 4,400 Cadets in accordance with Title 10 USC 4342. 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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	134.782	106.427	107.960	9.900	117.860	76.799	68.970	97.998	103.829
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	134.782	106.427	107.960	9.900	117.860	76.799	68.970	97.998	103.829

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BD3000 / Automated Data Processing Equip
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B01002 / ITA Resources	P-5a		- / -	- / -	- / -	- / 41.219	- / -	- / 41.219
P-5	B33010 / ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP)	P-5a		- / 8.346	- / 8.400	- / -	- / -	- / -	- / -
P-5	BD3956 / OPTICAL DIGITAL EQUIP	P-5a		- / 96.222	- / 2.423	- / 1.761	- / 2.103	- / -	- / 2.103
P-5	BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP)	P-5a		- / 381.426	- / 1.406	- / 0.978	- / 0.992	- / -	- / 0.992
P-5	BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS	P-5a		- / 823.916	- / 53.510	- / 44.877	- / 11.656	- / 9.900	- / 21.556
P-5	BE4162 / MACOM AUTOMATION SYSTEMS	P-5a		- / 1,286.931	- / 39.525	- / 24.119	- / 29.797	- / -	- / 29.797
P-5	BE4164 / PERSONNEL AUTOMATION SYSTEMS	P-5a		- / 776.382	- / 29.518	- / 31.373	- / 19.332	- / -	- / 19.332
P-5	BE4175 / Personnel Automation Systems - West Point	P-5a		- / -	- / -	- / 3.319	- / 2.861	- / -	- / 2.861
P-40	Total Gross/Weapon System Cost			- / 3,373.225	- / 134.782	- / 106.427	- / 107.960	- / 9.900	- / 117.860

*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:

ITA RESOURCES (B01002):

FY 2017 Base procurement dollars in the amount of \$41.219 million support PITI storage management and performance management devices to ensure data storage and replication processes are operating correctly to minimize risk of data loss. The PITI program procures replacements and additional capacity for Storage Area Network devices as they are modernized and integrated with virtualized storage infrastructure. It replaces switches and routers in the distribution portion of the Pentagon network in order to ensure aging devices in the various Pentagon wedges are replaced before hardware failure; this includes virtual routing and forwarding devices to support the Communities of Interest within the Pentagon. The PITI also replaces legacy computing devices with servers that can provide virtual workloads for all local applications and user processing for the Pentagon. It replaces firewalls and security management systems at each external Network Access Point for the Pentagon in order to provide standard network security architecture. This is not a new start, beginning in FY 2017 PITI funds were realigned from Standard Study Number BE4161, HQ Management Information Systems, to B01002, ITA Resources, for more efficient, effective program management in accordance with the Information Technology Agency (ITA) transition to the Joint Information Technology Service Provider Pentagon.

ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP) (B33010):

FY 2017 ADCCP has no Base or OCO procurement request.

OPTICAL DIGITAL EQUIP (BD3956):

FY 2017 Base procurement dollars in the amount of \$1.354 million support ARIMS infrastructure components to include servers, storage, routers, firewalls, and telecommunications equipment. These components are required to maintain ARIMS baseline and increase records storage capability, which is necessary for the capture of large volumes of Contingency Operations and official Army records. Technology refreshment will significantly improve research and response time in support of Veterans' PTSD claims and FOIA inquiries, reduce the data center foot print, and reduce overall maintenance costs.

FY 2017 Base procurement dollars in the amount of \$0.749 million support initial iPERMS Enterprise Application Migration and life cycle replacement of hardware to include Network Area Storage, optical storage libraries, servers, system components, and related peripherals. Storage requirements grow with each year due to 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.

STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000):

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BD3000 / 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: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>FY 2017 Base procurement dollars in the amount of \$0.992 million support LTA COTS/GOTS solutions that can be leveraged to create logistics efficiencies and reduce demand. These assets will be deployed at operationally relevant assessment environments to automate logistics supply, maintenance and distribution processes. Investments entail GOTS mobile devices and applications for fuel and ammunition distribution tracking; software to integrate automated feeds of fuel, ammunition and Class IX consumption/supply status into a common logistics portal; mechanics aids such as wearable technology (e.g. goggles) and augmented reality applications; and wireless communication devices to transmit the health/usage of assets to Army standard networks. FY17 funds will enable LTA to meet the objectives of the Deputy Chief of Staff G-4 to establish a connected logistics enterprise and establishes an enduring "sense and respond" logistics environment to identify opportunities to reduce Soldier touch points and decrease logistics demand through the integration of existing technologies.</p> <p>HQ MANAGEMENT INFORMATION SYSTEMS (BE4161): FY 2017 Base procurement dollars in the amount of \$2.479 million support HQDA ADPE replacement of aged Video Conferencing (VTC) systems. The VTC systems include high definition monitors, cameras, integrated microphones, and Internet Protocol-based connectivity. Overall, Total Cost of Ownership (TCO) will be lowered for the Pentagon's Videoconferencing system. The HQDA ADPE also provides for increased capacity for the HQDA virtual desktop environment with scalar devices that consolidate the server and storage into a single, integrated appliance rather than separate infrastructures for computing (servers) and data storage.</p> <p>FY 2017 PITI IT funds were realigned from Standard Study Number BE4161, HQ Management Information Systems, to B01002, ITA Resources, for more efficient, effective program management.</p> <p>FY 2017 Base procurement dollars in the amount of \$7.687 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 with the upgrades and modernization of integrated C4 capabilities and applications.</p> <p>FY 2017 Base procurement dollars in the amount of \$1.490 million support USFK HQ C4IT network requirements including Lifecycle Replacement of critical network support equipment (servers, switches, routers, etc.) for Theater Mission Command networks supporting the alliance.</p> <p>FY 2017 LAAWS has no Base or OCO procurement request.</p> <p>FY 2017 OCO procurement dollars in the amount of \$9.900 million procures VTC and MCU equipment to support a minimum of 100 endpoints and modernize 30 VTC suites at the CJTF.</p> <p>MACOM AUTOMATION SYSTEMS (BE4162): FY 2017 Base procurement dollars in the amount of \$18.567 million supports ACI procurement of Network Operations tools, ancillary equipment, and software required to achieve a common operating environment for Army ISNs. It also provides network management, security hardware/software, servers, VTC equipment, and display systems needed for C2 oversight of deployed formations for four HSMCC implementations. FY2017 Base procurement dollars in the amount of \$1.439 million support the BLCSE with routers, switches and video teleconferencing IT equipment.</p> <p>FY2017 Base procurement dollars in the amount of \$1.140 million support TIABCSTB infrastructure and control tools including servers, virtualization hardware, switches, and blade server kits.</p> <p>FY2017 Base procurement dollars in the amount of \$0.771 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>FY2017 Base procurement dollars in the amount of \$1.112 million support ANV with network equipment including servers, routers, switches, firewalls, Storage Area Network (SAN), and fiber optic cable.</p> <p>FY2017 ALTESS has no Base or OCO procurement request.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
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: BD3000 / 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: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>FY 2017 Base procurement dollars in the amount of \$4.369 million support AFRICOM ADPE network devices, storage, computer hardware, and power supplies. It also procures Ethernet switches, servers (database, application, and/or web), and computing capabilities.</p> <p>FY2017 Base procurement dollars in the amount of \$0.408 million support AOS hardware procurements.</p> <p>FY2017 Base procurement dollars in the amount of \$1.991 million support TJAGLCS infrastructure with replacement of visual information systems in the Decker Auditorium and classrooms. Funds enable life cycle replacement (LCR) of legacy analog videotape production equipment with modern digital video server-based systems. Procurements will replace old analog video cameras, production equipment, and projector displays with new digital camera systems and modular direct view OLED digital video displays (video walls).</p> <p>FY2017 COIC has no Base or OCO procurement request.</p> <p>PERSONNEL AUTOMATION SYSTEMS (BE4164): FY 2017 Base procurement dollars in the amount of 3.223 million support PES-A initial start-up costs for Enterprise Application Migration and local application lifecycle replacement of the Human Resources Center of Excellence (HRCoE) Datacenter Information Technology (IT) infrastructure, to include: mainframe, server, network, backup/recovery, storage, telephony, and disaster recovery equipment.</p> <p>FY 2017 Base procurement dollars in the amount of \$12.858 million support USMIRS lifecycle of applicant testing workstations, servers, network, backup/recovery, storage, telephony equipment, disaster recovery, and other system components to maintain security and operational support for USMIRS and administrative systems. Items identified for replacement will have exceeded manufacturer or third-party support, product life, or are unable to meet mandated security and/or certification requirements. Approximately \$6 million will procure hardware and software required to establish a Continuity of Operations capability for MIRS and its associated applicant processing applications.</p> <p>FY 2017 ACCHR has no Base or OCO procurement request.</p> <p>FY 2017 Base procurement dollars in the amount of \$3.251 million support AA-IAA initial start-up costs for Enterprise Application Migration, lifecycle replacement of hardware for local applications, Information Assurance compliance, and data center/architecture consolidation requirements. Hardware includes web and blade servers, Storage Area Network (SAN), routers, switches, and load balance appliances; the replaced equipment will be leveraged and integrated into a single architecture supporting the Accessioning Missions from the Human Resources Center of Excellence (HRCoE) Datacenter Fort Knox, KY.</p> <p>FY 2017 KEYSTONE has no Base or OCO procurement request.</p> <p>FY 2017 USMA IT has no Base or OCO procurement request. Funds were realigned from Standard Study Number BE4164, Personnel Automation Systems, to BE4175, Personnel Automation Systems-West Point, in 2016 for more efficient, effective program management.</p> <p>PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175) FY 2017 Base procurement dollars in the amount of \$2.861 million support USMA IT academic audio/visual equipment and computing capabilities for academic facilities and computer lab infrastructure; modernization to DA standards of the Academy Management System (Enterprise Resource Planning (ERP) for grades and class scheduling); Academy Management System (AMS) Modernization - Phase I, Assessment of System and Critical Mission Functions; Distributed Antenna System (DAS) Phase III; Campus Wireless Expansion; Internet Content Filtering/Management System; Continuity of Operations Planning (COOP) services and storage; and the Defense Research and Engineering Network (DREN) network infrastructure.</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: B01002 / ITA Resources
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	41.219	-	41.219
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	41.219	-	41.219
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	41.219	-	41.219

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
PITI Hardware ^(†)	-	-	-	-	-	-	-	-	-	36,219.000	1	36.219	-	-	-	36,219.000	1	36.219
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	36.219	-	-	-	-	-	36.219
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	36.219	-	-	-	-	-	36.219
Software Cost																		
Recurring Cost																		
PITI Software ^(†)	-	-	-	-	-	-	-	-	-	5,000.000	1	5.000	-	-	-	5,000.000	1	5.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.000	-	-	-	-	-	5.000
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.000	-	-	-	-	-	5.000
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	41.219	-	-	-	-	-	41.219

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	41.219	-	41.219
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	41.219	-	41.219

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: B01002 / ITA Resources
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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
PITI Hardware		2017	TBS / TBS	C / FFP	TBS	Jun 2017	Aug 2017	1	36,219.000	Y		
PITI Software		2017	TBS / TBS	C / FFP	TBS	Jun 2017	Aug 2017	1	5,000.000	Y		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: B33010 / ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.346	8.400	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8.346	8.400	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.346	8.400	-	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Installation Processing Node HW	4,173.000	1	4.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Network Operations Tools HW ^(†)	-	-	-	1,000.000	1	1.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	4.173	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	4.173	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-
Software Cost																		
Recurring Cost																		
Network Operations Tools SW ^(†)	4,173.000	1	4.173	7,400.000	1	7.400	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	4.173	-	-	7.400	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Software Cost	-	-	4.173	-	-	7.400	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	8.346	-	-	8.400	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	8.400	-	-	-	-
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip		Item Number / Title [DODIC]: B33010 / ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP)		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	8.400	-	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: B33010 / ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP)				

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
Network Operations Tools HW		2015	CDW Government LLC / Vernon Hills, IL	C / FP	ACC, Rock Island, IL	Jul 2015	Aug 2015	1	1,000.000	Y		
Network Operations Tools SW		2015	CDW Government LLC / Vernon Hills, IL	C / FP	ACC, Rock Island, IL	Jul 2015	Aug 2015	1	2,200.000	Y		
Network Operations Tools SW		2015	TBS / TBS	C / FP	TBS	Apr 2016	May 2016	-	5,200.000	Y		

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. ACC - Army Contracting Command.

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Exhibit P-5, Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	96.222	2.423	1.761	2.103	-	2.103
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	96.222	2.423	1.761	2.103	-	2.103
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	96.222	2.423	1.761	2.103	-	2.103

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ARIMS) ^(t)	8,847.000	1	8.847	736.000	1	0.736	991.000	1	0.991	1,354.000	1	1.354	-	-	-	1,354.000	1	1.354
<i>Subtotal: Recurring Cost</i>	-	-	8.847	-	-	0.736	-	-	0.991	-	-	1.354	-	-	-	-	-	1.354
Non Recurring Cost																		
(iPERMS) ^(t)	87,375.000	1	87.375	1,687.000	1	1.687	770.000	1	0.770	749.000	1	0.749	-	-	-	749.000	1	0.749
<i>Subtotal: Non Recurring Cost</i>	-	-	87.375	-	-	1.687	-	-	0.770	-	-	0.749	-	-	-	-	-	0.749
<i>Subtotal: Hardware Cost</i>	-	-	96.222	-	-	2.423	-	-	1.761	-	-	2.103	-	-	-	-	-	2.103
Gross/Weapon System Cost	-	-	96.222	-	-	2.423	-	-	1.761	-	-	2.103	-	-	-	-	-	2.103

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Total Obligation Authority	2.423	1.761	2.103	-	2.103
Total: Secondary Distribution	2.423	1.761	2.103	-	2.103

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
(ARIMS)		2015	Intergraph Corp / Huntsville, AL	C / FFP	NAVAIR, Patuxent River, MD	Jul 2015	Aug 2015	1	736.000	Y		
(ARIMS)		2016	TBS / TBS	C / FFP	NAVAIR, Patuxent River, MD	Jun 2016	Aug 2016	1	991.000	Y		
(ARIMS)		2017	TBS / TBS	C / FFP	NAVAIR, Patuxent River, MD	Jun 2017	Aug 2017	1	1,354.000	N		
(iPERMS)		2015	World Wide Technology, Inc. / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Sep 2015	Oct 2015	1	1,357.000	Y		
(iPERMS)		2015	UNICOM Government / Herndon, VA	C / FFP	MICC, Ft. Knox, KY	Sep 2015	Oct 2015	-	176.000	Y		
(iPERMS)		2015	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jun 2016	Jul 2016	-	154.000	Y		
(iPERMS)		2016	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jun 2016	Jul 2016	1	770.000	N		
(iPERMS)		2017	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2017	Jul 2017	1	749.000	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; NAVAIR - U.S. Navy Naval Air Systems Command.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip
		Item Number / Title [DODIC]: BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	381.426	1.406	0.978	0.992	-	0.992
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	381.426	1.406	0.978	0.992	-	0.992
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	381.426	1.406	0.978	0.992	-	0.992

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Logistics Technology Assessment (LTA) HW ^(†)	298,014.000	1	298.014	356.000	1	0.356	250.000	1	0.250	150.000	1	0.150	-	-	-	150.000	1	0.150
<i>Subtotal: Non Recurring Cost</i>	-	-	298.014	-	-	0.356	-	-	0.250	-	-	0.150	-	-	-	-	-	0.150
Subtotal: Hardware Cost	-	-	298.014	-	-	0.356	-	-	0.250	-	-	0.150	-	-	-	-	-	0.150
Software Cost																		
Non Recurring Cost																		
Logistics Technology Assessment (LTA) SW ^(†)	83,412.000	1	83.412	1,050.000	1	1.050	728.000	1	0.728	842.000	1	0.842	-	-	-	842.000	1	0.842
<i>Subtotal: Non Recurring Cost</i>	-	-	83.412	-	-	1.050	-	-	0.728	-	-	0.842	-	-	-	-	-	0.842
Subtotal: Software Cost	-	-	83.412	-	-	1.050	-	-	0.728	-	-	0.842	-	-	-	-	-	0.842
Gross/Weapon System Cost	-	-	381.426	-	-	1.406	-	-	0.978	-	-	0.992	-	-	-	-	-	0.992

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.406	0.978	0.992	-	0.992

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP)

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.406	0.978	0.992	-	0.992

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP)				

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
Logistics Technology Assessment (LTA) HW		2015	Leidos / McLean, VA	C / FP	AMCOM EC, Huntsville, AL	Jun 2015	Jul 2015	1	356.000	Y		
Logistics Technology Assessment (LTA) HW		2016	TBS / TBS	C / FP	AMCOM EC, Huntsville, AL	May 2016	Jul 2016	1	250.000	N		
Logistics Technology Assessment (LTA) HW		2017	TBS / TBS	C / FP	AMCOM EC, Huntsville, AL	Apr 2017	Jun 2017	1	150.000	N		
Logistics Technology Assessment (LTA) SW		2015	Leidos / McLean, VA	C / FP	AMCOM EC, Huntsville, AL	Jun 2015	Jul 2015	1	1,050.000	Y		
Logistics Technology Assessment (LTA) SW		2016	TBS / TBS	C / FP	AMCOM EC, Huntsville, AL	Apr 2016	Jun 2016	1	728.000	N		
Logistics Technology Assessment (LTA) SW		2017	TBS / TBS	C / FP	AMCOM EC, Huntsville, AL	Apr 2017	Jun 2017	1	842.000	N		

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. AMCOM EC - Aviation & Missile Command Express Contracting.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip
		Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	823.916	53.510	44.877	11.656	9.900	21.556
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	823.916	53.510	44.877	11.656	9.900	21.556
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	823.916	53.510	44.877	11.656	9.900	21.556

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
(HQDA ADPE) Hardware ^(†)	16,552.000	1	16.552	3,883.000	1	3.883	2,000.000	1	2.000	2,000.000	1	2.000	-	-	-	2,000.000	1	2.000
(PITI) Hardware ^(†)	717,489.000	1	717.489	34,632.000	1	34.632	29,391.000	1	29.391	-	-	-	-	-	-	-	-	-
(DCIN/PCIS) Hardware	11,212.000	1	11.212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCC Hardware ^(†)	7,489.000	1	7.489	6,512.000	1	6.512	6,438.000	1	6.438	6,434.000	1	6.434	-	-	-	6,434.000	1	6.434
-Army Operations Center (AOC) (Pentagon)	2,053.000	1	2.053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-Joint Special Operations Center (JSOC)	843.000	1	0.843	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USFK Hardware ^(†)	-	-	-	-	-	-	-	-	-	1,490.000	1	1.490	-	-	-	1,490.000	1	1.490
Domain and VTC Bridge ^(†)	-	-	-	500.000	1	0.500	-	-	-	-	-	-	9,900.000	1	9.900	9,900.000	1	9.900
<i>Subtotal: Non Recurring Cost</i>	-	-	755.638	-	-	45.527	-	-	37.829	-	-	9.924	-	-	9.900	-	-	19.824
Subtotal: Hardware Cost	-	-	755.638	-	-	45.527	-	-	37.829	-	-	9.924	-	-	9.900	-	-	19.824
Software Cost																		
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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) Software ^(t)	1,838.000	1	1.838	1,700.000	1	1.700	660.000	1	0.660	479.000	1	0.479	-	-	-	479.000	1	0.479
(PITI) Software ^(t)	66,440.000	1	66.440	5,040.000	1	5.040	5,000.000	1	5.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	68.278	-	-	6.740	-	-	5.660	-	-	0.479	-	-	-	-	-	0.479
Subtotal: Software Cost	-	-	68.278	-	-	6.740	-	-	5.660	-	-	0.479	-	-	-	-	-	0.479
Support - Program Management Cost																		
Contractor Management ^(t)	-	-	-	1,243.000	1	1.243	1,388.000	1	1.388	1,253.000	1	1.253	-	-	-	1,253.000	1	1.253
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	1.243	-	-	1.388	-	-	1.253	-	-	-	-	-	1.253
Gross/Weapon System Cost	-	-	823.916	-	-	53.510	-	-	44.877	-	-	11.656	-	-	9.900	-	-	21.556

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	53.510	44.877	11.656	9.900	21.556
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	53.510	44.877	11.656	9.900	21.556

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: 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
(HQDA ADPE) Hardware		2015	Defense Engineering, Inc / Arlington, VA	C / FFP	ACC-RI, Rock Island, IL	May 2015	Jul 2015	1	3,883.000	Y		
(HQDA ADPE) Hardware		2016	LGS Innovations / Herndon, VA	C / FFP	TBS	Apr 2016	Jul 2016	1	2,000.000	N		
(HQDA ADPE) Hardware		2017	TBS / TBS	C / FFP	TBS	Apr 2017	Jul 2017	1	2,000.000	N		
(PITI) Hardware		2015	Defense Engineering, Inc / Arlington, VA	C / FFP	ACC-RI, Rock Island, IL	May 2015	Jul 2015	1	34,632.000	Y		
(PITI) Hardware		2016	TBS / TBS	C / FFP	TBS	Mar 2016	May 2016	1	29,391.000	N		
SCC Hardware		2015	Professional Software Eng, Inc / Virginia Beach, VA	C / FFP	ACC-RI, Rock Island, IL	Jun 2015	Sep 2015	1	6,512.000	Y		
SCC Hardware		2016	LGS Innovations / Herndon, VA	C / FP	ACC-RI, Rock Island, IL	Oct 2015	Oct 2015	1	1,201.000	Y		
SCC Hardware		2016	TBS / TBS	C / FP	TBS	Mar 2016	Jul 2016	-	5,237.000	N		
SCC Hardware		2017	TBS / TBS	C / FP	TBS	Mar 2017	Jun 2017	1	6,434.000	N		
USFK Hardware		2017	TBS / TBS	C / FFP	TBS	Apr 2017	Jul 2017	1	1,490.000	N		
Domain and VTC Bridge		2015	TBS / TBS	C / FP	TBS	Apr 2016	Jul 2016	1	500.000	N		
(HQDA ADPE) Software		2015	Defense Engineering, Inc / Arlington, VA	C / FFP	ACC-RI, Rock Island, IL	Jun 2015	Aug 2015	1	700.000	Y		
(HQDA ADPE) Software		2015	TBS / TBS	C / FFP	TBS	Apr 2016	Jul 2016	-	1,000.000	Y		
(HQDA ADPE) Software		2016	TBS / TBS	C / FFP	TBS	Apr 2016	Jul 2016	1	660.000	N		
(HQDA ADPE) Software		2017	TBS / TBS	C / FFP	TBS	Apr 2017	Jul 2017	1	479.000	N		
(PITI) Software		2015	Defense Engineering, Inc / Arlington, VA	C / FFP	ACC-RI, Rock Island, IL	Apr 2015	Jul 2015	1	2,893.000	Y		
(PITI) Software		2015	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Feb 2016	May 2016	-	2,147.000	N		
Contractor Management		2015	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2014	Sep 2015	1	1,243.000	Y		
Contractor Management		2016	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2015	Sep 2016	1	1,388.000	N		
Contractor Management		2017	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2016	Sep 2017	1	1,253.000	N		

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. ACC-RI - Army Contracting Command-Rock Island; PM I3C2 - Product Manager, Installation Information Infrastructure-Communications and Capabilities; PEO EIS - Program Executive Office, Enterprise Information Systems.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,286.931	39.525	24.119	29.797	-	29.797
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,286.931	39.525	24.119	29.797	-	29.797
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,286.931	39.525	24.119	29.797	-	29.797

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ATIA) Hardware ^(†)	525.000	1	0.525	701.000	1	0.701	446.000	1	0.446	624.000	1	0.624	-	-	-	624.000	1	0.624
(ANV) Hardware ^(†)	-	-	-	1,389.000	1	1.389	1,528.000	1	1.528	1,112.000	1	1.112	-	-	-	1,112.000	1	1.112
(AOS) Hardware ^(†)	-	-	-	1,688.000	1	1.688	337.000	1	0.337	408.000	1	0.408	-	-	-	408.000	1	0.408
<i>Subtotal: Recurring Cost</i>	-	-	0.525	-	-	3.778	-	-	2.311	-	-	2.144	-	-	-	-	-	2.144
Non Recurring Cost																		
(ACI) Army-wide Hardware ^(†)	226,910.000	1	226.910	32,524.000	1	32.524	11,655.000	1	11.655	10,091.000	1	10.091	-	-	-	10,091.000	1	10.091
(BLCSE) Hardware ^(†)	8,678.000	1	8.678	628.000	1	0.628	1,426.000	1	1.426	1,439.000	1	1.439	-	-	-	1,439.000	1	1.439
(TIABCSTB) Hardware ^(†)	1,149.000	1	1.149	658.000	1	0.658	1,125.000	1	1.125	1,140.000	1	1.140	-	-	-	1,140.000	1	1.140
(SPS) Hardware	2,373.000	1	2.373	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ALTESS) Hardware ^(†)	44,456.000	1	44.456	702.000	1	0.702	-	-	-	-	-	-	-	-	-	-	-	-
(AcqBiz) Hardware	4,825.000	1	4.825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AFRICOM HQ ADPE) Hardware ^(†)	485.000	1	0.485	-	-	-	4,402.000	1	4.402	4,369.000	1	4.369	-	-	-	4,369.000	1	4.369
(KT) Hardware	109,515.000	1	109.515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(DRSN) Hardware	9,653.000	1	9.653	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AKO) Hardware	70,534.000	1	70.534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip
		Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
(EKR) Hardware	1,570.000	1	1.570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TJAGLCS Infrastructure) Hardware ^(†)	-	-	-	-	-	-	741.000	1	0.741	1,493.000	1	1.493	-	-	-	1,493.000	1	1.493
(COIC) Hardware ^(†)	-	-	-	-	-	-	652.000	1	0.652	-	-	-	-	-	-	-	-	-
Mission Command Facility (MCF) XVIII ABN Corp ^(†)	-	-	-	752.000	1	0.752	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	480.148	-	-	35.264	-	-	20.001	-	-	18.532	-	-	-	-	-	18.532
<i>Subtotal: Hardware Cost</i>	-	-	480.673	-	-	39.042	-	-	22.312	-	-	20.676	-	-	-	-	-	20.676
Software Cost																		
Recurring Cost																		
(ACI) Army-wide Software	743,844.000	1	743.844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	743.844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
(ACI) Army-wide Software ^(†)	42,374.000	1	42.374	-	-	-	-	-	-	6,605.000	1	6.605	-	-	-	6,605.000	1	6.605
(BLSCE) Software	523.000	1	0.523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TIABCSTB) Software ^(†)	-	-	-	434.000	1	0.434	-	-	-	-	-	-	-	-	-	-	-	-
(ATIA) Software ^(†)	119.000	1	0.119	49.000	1	0.049	151.000	1	0.151	147.000	1	0.147	-	-	-	147.000	1	0.147
(SPS) Software	804.000	1	0.804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AcqBiz) Software	710.000	1	0.710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ISM) Software	835.000	1	0.835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(KT) Software	17,049.000	1	17.049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TJAGLCS Infrastructure) Software ^(†)	-	-	-	-	-	-	350.000	1	0.350	498.000	1	0.498	-	-	-	498.000	1	0.498
<i>Subtotal: Non Recurring Cost</i>	-	-	62.414	-	-	0.483	-	-	0.501	-	-	7.250	-	-	-	-	-	7.250
<i>Subtotal: Software Cost</i>	-	-	806.258	-	-	0.483	-	-	0.501	-	-	7.250	-	-	-	-	-	7.250
Support - Program Management Cost																		
Contractor Management ^(†)	-	-	-	-	-	-	1,306.000	1	1.306	1,871.000	1	1.871	-	-	-	1,871.000	1	1.871

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	-	-	-	-	-	-	1.306	-	-	1.871	-	-	-	-	-	1.871
Gross/Weapon System Cost	-	-	1,286.931	-	-	39.525	-	-	24.119	-	-	29.797	-	-	-	-	-	29.797

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	39.525	24.119	29.797	-	29.797
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	39.525	24.119	29.797	-	29.797

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92				P-1 Line Item Number / Title: BD3000 / 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		2015	Dell Federal Systems LP / Rock Round, TX	C / FP	MICC, Ft. Eustis, VA	Jul 2015	Sep 2015	1	701.000	Y		
(ATIA) Hardware		2016	TBS / TBS	C / FP	TBS	Jul 2016	Sep 2016	1	446.000	N		
(ATIA) Hardware		2017	TBS / TBS	C / FP	TBS	Jul 2017	Sep 2017	1	624.000	N		
(ANV) Hardware		2015	Iron Bow Technologies / Chantilly, VA	C / FP	MICC, Ft. Sill, OK	Jul 2015	Sep 2015	1	1,389.000	Y		
(ANV) Hardware		2016	TBS / TBS	C / FP	TBS	Feb 2016	Mar 2016	1	1,528.000	N		
(ANV) Hardware		2017	TBS / TBS	C / FP	TBS	Jun 2017	Aug 2017	1	1,112.000	N		
(AOS) Hardware		2015	TBS / TBS	C / FP	TBS	Mar 2016	Jun 2016	1	1,688.000	N		
(AOS) Hardware		2016	TBS / TBS	C / FP	TBS	May 2016	Sep 2016	1	337.000	N		
(AOS) Hardware		2017	TBS / TBS	C / FP	TBS	Apr 2017	Jul 2017	1	408.000	N		
(ACI) Army-wide Hardware		2015	TBS / TBS	C / FP	TBS	Jul 2016	Sep 2016	1	15,164.000	Y		
(ACI) Army-wide Hardware		2015	DISA / Scott Air Force Base, IL	MIPR	PM I3C2/PEO EIS	May 2015	Sep 2015	-	17,360.000	Y		
(ACI) Army-wide Hardware		2016	TBS / TBS	C / FP	TBS	Mar 2016	Apr 2016	1	11,655.000	N		
(ACI) Army-wide Hardware		2017	TBS / TBS	C / FP	TBS	Mar 2017	Apr 2017	1	10,091.000	N		
(BLCSE) Hardware		2015	UNICOM Government / Herndon, VA	C / FP	MICC, Ft. Gordon, GA	Jun 2015	Aug 2015	1	479.000	Y		
(BLCSE) Hardware		2015	World Wide Technology / Maryland Heights, MO	C / FP	MICC, Ft. Gordon, GA	Jun 2015	Aug 2015	-	149.000	Y		
(BLCSE) Hardware		2016	TBS / TBS	C / FP	TBS	Feb 2016	Mar 2016	1	1,426.000	N		
(BLCSE) Hardware		2017	TBS / TBS	C / FP	TBS	Jun 2017	Aug 2017	1	1,439.000	N		
(TIABCSTB) Hardware		2015	Lintech Global, Inc. / Farmington Hills, MI	SS / FP	MICC, Ft. Eustis, VA	May 2015	Jun 2015	1	658.000	Y		
(TIABCSTB) Hardware		2016	TBS / TBS	SS / FP	MICC, Ft. Eustis, VA	May 2016	Jun 2016	1	1,125.000	N		
(TIABCSTB) Hardware		2017	TBS / TBS	SS / FP	MICC, Ft. Eustis, VA	May 2017	Jun 2017	1	1,140.000	N		
(ALTESS) Hardware		2015	TBS / TBS	C / FP	TBS	Mar 2016	Mar 2016	1	702.000	N		
(AFRICOM HQ ADPE) Hardware		2016	TBS / TBS	C / FP	TBS	Apr 2016	Jul 2016	1	4,402.000	N		
(AFRICOM HQ ADPE) Hardware		2017	TBS / TBS	C / FP	TBS	Apr 2017	Jul 2017	1	4,369.000	N		
(TJAGLCS Infrastructure) Hardware		2016	TBS / TBS	C / FP	MICC, Ft. Lee, VA	Feb 2016	Oct 2016	1	741.000	Y		
(TJAGLCS Infrastructure) Hardware		2017	TBS / TBS	C / FP	TBS	Nov 2016	Jan 2017	1	1,493.000	N		
(COIC) Hardware		2016	TBS / TBS	C / FP	TBS	Apr 2016	Jul 2016	1	652.000	N		
Mission Command Facility (MCF) XVIII ABN Corp		2015	CDW-Government / Vernon Hills, IL	C / FP	MICC, Ft. Bragg, NC	Jan 2016	Feb 2016	1	752.000	Y		
(ACI) Army-wide Software		2017	TBS / TBS	C / FP	TBS	Apr 2017	Jul 2017	1	6,605.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BD3000 / 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
(TIABCSTB) Software		2015	Lintech Global, Inc. / Farmington Hills, MI	SS / FP	MICC, Ft. Eustis, VA	May 2015	Jun 2015	1	434.000	Y		
(ATIA) Software		2015	Dell Federal Systems LP / Rock Round, TX	C / FP	MICC, Ft. Eustis, VA	Jul 2015	Sep 2015	1	49.000	Y		
(ATIA) Software		2016	TBS / TBS	C / FP	TBS	Jul 2016	Sep 2016	1	151.000	N		
(ATIA) Software		2017	TBS / TBS	C / FP	TBS	Jul 2017	Sep 2017	1	147.000	N		
(TJAGLCS Infrastructure) Software		2016	TBS / TBS	C / FP	MICC, Ft. Lee, VA	Feb 2016	Aug 2016	1	350.000	N		
(TJAGLCS Infrastructure) Software		2017	TBS / TBS	C / FP	TBS	Feb 2017	May 2017	1	498.000	N		
Contractor Management		2016	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2015	May 2016	1	1,306.000	N		
Contractor Management		2017	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2016	Jul 2017	1	1,871.000	N		

Remarks:

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission Installation Contracting Center; DISA - Defense Information Systems Agency; PM I3C2 - Product Manager Installation Information Infrastructure-Communications and Capabilities; PEO EIS - Program Executive Office, Enterprise Information Systems.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	776.382	29.518	31.373	19.332	-	19.332
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	776.382	29.518	31.373	19.332	-	19.332
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	776.382	29.518	31.373	19.332	-	19.332

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ACCHR) Recurring Hardware ^(†)	-	-	-	-	-	-	4,143.000	1	4.143	-	-	-	-	-	-	-	-	-
(USMA) Hardware ^(†)	10,351.000	1	10.351	3,131.000	1	3.131	-	-	-	-	-	-	-	-	-	-	-	-
(AA-IAA) Hardware ^(†)	53,856.000	1	53.856	9,562.000	1	9.562	7,882.000	1	7.882	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	64.207	-	-	12.693	-	-	12.025	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
(AA-IAA) Hardware ^(†)	-	-	-	-	-	-	-	-	-	3,251.000	1	3.251	-	-	-	3,251.000	1	3.251
(PES-A) Hardware ^(†)	680,605.000	1	680.605	11,464.000	1	11.464	10,194.000	1	10.194	3,223.000	1	3.223	-	-	-	3,223.000	1	3.223
(MIRS) Hardware ^(†)	23,228.000	1	23.228	5,361.000	1	5.361	6,721.000	1	6.721	12,858.000	1	12.858	-	-	-	12,858.000	1	12.858
(ACCHR) NonRecurring Hardware	6,331.000	1	6.331	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Keystone Hardware ^(†)	-	-	-	-	-	-	2,433.000	1	2.433	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	710.164	-	-	16.825	-	-	19.348	-	-	19.332	-	-	-	-	-	19.332
Subtotal: Hardware Cost	-	-	774.371	-	-	29.518	-	-	31.373	-	-	19.332	-	-	-	-	-	19.332
Software Cost																		
Non Recurring Cost																		
(ACCHR) Software	2,011.000	1	2.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Non Recurring Cost</i>	-	-	2.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	2.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	776.382	-	-	29.518	-	-	31.373	-	-	19.332	-	-	-	-	-	19.332

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	29.518	31.373	19.332	-	19.332
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	29.518	31.373	19.332	-	19.332

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(ACCHR) Recurring Hardware		2016	TBS / TBS	C / FP	TBS	May 2016	Aug 2016	1	4,143.000	N		
(USMA) Hardware		2015	Microtech / Vienna, VA	C / FP	MICC, West Point, NY	May 2015	May 2015	1	1,300.000	Y		
(USMA) Hardware		2015	World Wide Technology / Maryland Heights, MO	C / FP	MICC, West Point, NY	Aug 2015	Sep 2015	-	669.000	Y		
(USMA) Hardware		2015	Iron Bow Technologies / Chantilly, VA	C / FP	MICC, West Point, NY	Sep 2015	Sep 2015	-	100.000	Y		
(USMA) Hardware		2015	TBS / TBS	C / FP	MICC, West Point, NY	May 2016	Jun 2016	-	1,062.000	Y		
(AA-IAA) Hardware		2015	Dell Marketing, LP / Round Rock, TX	C / FFP	MICC, Ft. Knox, KY	Aug 2015	Sep 2015	1	888.000	Y		
(AA-IAA) Hardware		2015	immixTechnology, Inc. / McLean, VA	C / FFP	MICC, Ft. Knox, KY	May 2015	Jul 2015	-	197.000	Y		
(AA-IAA) Hardware		2015	Carahsoft Tech Corp / Reston, VA	C / FFP	MICC, Ft. Knox, KY	Jul 2015	Sep 2015	-	641.000	Y		
(AA-IAA) Hardware		2015	Iron Bow Technologies / Chantilly, VA	C / FFP	MICC, Ft. Knox, KY	Jun 2015	Jul 2015	-	358.000	Y		
(AA-IAA) Hardware		2015	World Wide Technology / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Sep 2015	Oct 2015	-	5,788.000	Y		
(AA-IAA) Hardware		2015	Insight / Tempe, AZ	C / FFP	MICC, Ft. Knox, KY	Jul 2015	Jul 2015	-	594.000	Y		
(AA-IAA) Hardware		2015	CDW Government, LLC / Vernon Hills, IL	C / FFP	MICC, Ft. Knox, KY	Jun 2015	Jul 2015	-	171.000	Y		
(AA-IAA) Hardware		2015	TBS / TBS	C / FFP	TBS	Mar 2016	Jun 2016	-	925.000	Y		
(AA-IAA) Hardware		2016	TBS / TBS	C / FFP	TBS	Feb 2016	May 2016	1	7,882.000	N		
(AA-IAA) Hardware		2017	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2017	Jun 2017	1	3,251.000	N		
(PES-A) Hardware		2015	World Wide Technology / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Feb 2015	Mar 2015	-	5,589.000	Y		
(PES-A) Hardware		2015	CDW Government, LLC / Vernon Hills, IL	C / FFP	MICC, Ft. Knox, KY	Apr 2015	May 2015	-	221.000	Y		
(PES-A) Hardware		2015	immixTechnology, Inc. / McLean, VA	C / FFP	MICC, Ft. Knox, KY	Mar 2015	May 2015	-	2,650.000	Y		
(PES-A) Hardware		2015	IBM / Bethesda, MD	C / FFP	MICC, Ft. Knox, KY	Sep 2015	Oct 2015	-	1,325.000	Y		
(PES-A) Hardware		2015	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Aug 2015	Sep 2015	1	1,679.000	Y		
(PES-A) Hardware		2016	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Mar 2016	Jun 2016	1	10,194.000	N		
(PES-A) Hardware		2017	TBS / TBS	C / FFP	TBS	Mar 2017	Jul 2017	1	3,223.000			
(MIRS) Hardware		2015	World Wide Technology / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Apr 2015	May 2015	1	1,534.000	Y		
(MIRS) Hardware		2015	Oracle America, Inc / Reston, VA	C / FFP	MICC, Ft. Knox, KY	May 2015	May 2015	-	1,800.000	Y		
(MIRS) Hardware		2015	UNICOM Government / Herndon, VA	C / FFP	MICC, Ft. Knox, KY	May 2015	May 2015	-	481.000	Y		
(MIRS) Hardware		2015	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2016	Jun 2016	-	1,546.000	Y		
(MIRS) Hardware		2016	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Aug 2016	Sep 2016	1	6,721.000	Y		
(MIRS) Hardware		2017	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2017	Jun 2017	1	12,858.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Keystone Hardware		2016	TBS / TBS	C / FFP	TBS	May 2016	Jul 2016	1	2,433.000	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.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4175 / Personnel Automation Systems - West Point

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	3.319	2.861	-	2.861
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	3.319	2.861	-	2.861
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	3.319	2.861	-	2.861

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	-	-	-	-	-	-	3,319.000	1	3.319	2,861.000	1	2.861	-	-	-	2,861.000	1	2.861
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	3.319	-	-	2.861	-	-	-	-	-	2.861
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	3.319	-	-	2.861	-	-	-	-	-	2.861
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	3.319	-	-	2.861	-	-	-	-	-	2.861

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Total:	-	-	-	-	-
Secondary Distribution	-	-	-	-	-
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	3.319	2.861	-
Total Obligation Authority	-	-	3.319	2.861	2.861

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4175 / Personnel Automation Systems - West Point				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
U. S. Military Academy (USMA) Hardware		2016	Dell Federal Systems / Round Rock, TX	C / FP	MICC, West Point, NY	Dec 2015	Jan 2016	1	1,073.000	Y		
U. S. Military Academy (USMA) Hardware		2016	TBS / TBS	C / FP	TBS	Mar 2016	Apr 2016	-	2,246.000	N		
U. S. Military Academy (USMA) Hardware		2017	TBS / TBS	C / FP	TBS	Jan 2017	Jun 2017	1	2,861.000	N		

Remarks:
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.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B55500 / General Fund Enterprise Business Systems Fam
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	249.947	11.081	13.540	6.416	-	6.416	4.225	4.322	4.401	4.453	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	249.947	11.081	13.540	6.416	-	6.416	4.225	4.322	4.401	4.453	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	249.947	11.081	13.540	6.416	-	6.416	4.225	4.322	4.401	4.453	Continuing	Continuing

(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 General Fund Enterprise Business System (GFEBS) is a Major Automated Information System (MAIS) (ACAT-IAC) project that replaced antiquated financial systems including the Standard Finance Systems (STANFINS), Standard Operations and Maintenance, and Army R&D System (SOMARDS). GFEBS is the Department of the Army's enterprise financial and asset management system. GFEBS is a commercial off-the-shelf (COTS) Enterprise Resource Planning (ERP) System certified by the Chief Financial Officers Council (CFOC). GFEBS is fielded to more than 53,000 trained users at over 227 installations worldwide and is the Army's enterprise solution in accounting and financial management. GFEBS provides improved functionality in general fund core financial functions including: general ledger management; financial reporting; real property, plant, and equipment accountability; reimbursable, revenue, and accounts receivable; cost management; funds control and budgetary accounting; accounts payable; and audit trails and system controls and meets legislative mandates to develop an auditable financial system. The primary objectives for the GFEBS financial management system are to provide an integrated off the shelf capability for general fund management for the Army that meets requirements for auditability, and to improve performance, standardize business processes, ensure capability exists to meet future needs, and provide Army's decision makers with relevant, reliable, and timely information.

GFEBS-Sensitive Activities (SA) provides a classified version of the GFEBS program developed to process data in a secure environment to protect and manage classified data. GFEBS-SA will integrate seamlessly with GFEBS and provide a secure, web-based, financial asset and accounting management system to Army classified, intelligence, and special access programs.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.081	13.540	6.416	-	6.416	4.225	4.322	4.401
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.081	13.540	6.416	-	6.416	4.225	4.322	4.401

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B55500 / General Fund Enterprise Business Systems Fam
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B55511 / GFEBS SENSITIVE ACTIVITIES	P-5a		- / -	- / 8.228	- / -	- / -	- / -	- / -
P-5	BE4168 / General Fund Enterprise Business System	P-5a		- / 249.947	- / 2.853	- / 13.540	- / 6.416	- / -	- / 6.416
P-40	Total Gross/Weapon System Cost			- / 249.947	- / 11.081	- / 13.540	- / 6.416	- / -	- / 6.416

*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 2017 Base procurement dollars in the amount of \$6.416 million supports software and hardware infrastructure upgrades, to bring GFEBS reporting and analytics in line with processing performance thresholds established in the GFEBS Capabilities Production Document(CPD); to support auditability and compliancy requirements.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: B55500 / General Fund Enterprise Business Systems Fam	Item Number / Title [DODIC]: B55511 / GFEBS SENSITIVE ACTIVITIES

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	8.228	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	8.228	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	8.228	-	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
GFEBS SA Fielding ^(†)	-	-	-	8,228.000	1	8.228	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	8.228	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	-	-	-	8.228	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	8.228	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	8.228	-	-	-	-
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	8.228	-	-	-	-

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: B55500 / General Fund Enterprise Business Systems Fam				Item Number / Title [DODIC]: B55511 / GFEBS SENSITIVE ACTIVITIES					
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
GFEBs SA Fielding		2015	EDC / McLean	C / CPIF	ACC-Rock Island, IL	Jan 2015	Mar 2015	1	8,228.000			

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: B55500 / General Fund Enterprise Business Systems Fam	Item Number / Title [DODIC]: BE4168 / General Fund Enterprise Business System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	249.947	2.853	13.540	6.416	-	6.416
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	249.947	2.853	13.540	6.416	-	6.416
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	249.947	2.853	13.540	6.416	-	6.416

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Hardware NonRecurring ^(†)	-	-	-	-	-	-	7,515.000	1	7.515	3,100.000	1	3.100	-	-	-	3,100.000	1	3.100
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	7.515	-	-	3.100	-	-	-	-	-	3.100
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	7.515	-	-	3.100	-	-	-	-	-	3.100
Software Cost																		
Recurring Cost																		
Software Recurring ^(†)	-	-	249.947	2,853.000	1	2.853	6,025.000	1	6.025	3,316.000	1	3.316	-	-	-	3,316.000	1	3.316
Subtotal: Recurring Cost	-	-	249.947	-	-	2.853	-	-	6.025	-	-	3.316	-	-	-	-	-	3.316
Subtotal: Software Cost	-	-	249.947	-	-	2.853	-	-	6.025	-	-	3.316	-	-	-	-	-	3.316
Gross/Weapon System Cost	-	-	249.947	-	-	2.853	-	-	13.540	-	-	6.416	-	-	-	-	-	6.416

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.853	13.540	6.416	-	6.416
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: B55500 / General Fund Enterprise Business Systems Fam	Item Number / Title [DODIC]: BE4168 / General Fund Enterprise Business System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	2.853	13.540	6.416	-	6.416

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: B55500 / General Fund Enterprise Business Systems Fam				Item Number / Title [DODIC]: BE4168 / General Fund Enterprise Business System				

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 NonRecurring		2016	Accenture / Kingstowne	C / FFP	ACC-Rock Island, IL	Oct 2015	Dec 2015	1	7,515.000			
Hardware NonRecurring		2017	TBD / TBD	C / TBD	ACC-Rock Island, IL	Oct 2016	Dec 2016	1	3,100.000			
Software Recurring		2015	Accenture / Kingstowne	C / FFP	ACC-Rock Island, IL	Oct 2014	Dec 2014	1	2,853.000			
Software Recurring		2016	Accenture / Kingstowne	C / FFP	ACC-Rock Island, IL	Oct 2015	Dec 2015	1	6,025.000			
Software Recurring		2017	TBD / TBD	C / FFP	ACC-Rock Island, IL	Oct 2016	Dec 2016	1	3,316.000			

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B66501 / High Perf Computing Mod Pgm (HPCMP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	62.683	65.252	62.319	58.614	-	58.614	66.363	67.147	68.445	69.328	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	62.683	65.252	62.319	58.614	-	58.614	66.363	67.147	68.445	69.328	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	62.683	65.252	62.319	58.614	-	58.614	66.363	67.147	68.445	69.328	Continuing	Continuing

(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 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) community is able to resolve critical scientific and engineering problems quickly and with more precision. The results of these efforts feed directly into the acquisition process by improving weapons system designs through an increased fundamental 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) and Test and Evaluation (T&E) programs. The program deploys supercomputers to provide world-class high performance computing (HPC) capability to a nation-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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	65.252	62.319	58.614	-	58.614	66.363	67.147	68.445	69.328
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	65.252	62.319	58.614	-	58.614	66.363	67.147	68.445	69.328

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B66501 / High Perf Computing Mod Pgm (HPCMP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		- / 62.683	- / 65.252	- / 62.319	- / 58.614	- / -	- / 58.614
P-40	Total Gross/Weapon System Cost			- / 62.683	- / 65.252	- / 62.319	- / 58.614	- / -	- / 58.614

*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 2017 Base procurement dollars in the amount of \$54.056 million supports two large supercomputers for two DoD Supercomputing Resource Center (DSRC) locations, Navy located in Stennis, Mississippi and Air Force Research Lab (AFRL) located at Wright Patterson Air Force Base(WPAFB), Ohio.

FY 2017 Base procurement dollars in the amount of \$4.558 million will support DoD HPC Project Investments for Army, Navy, and Air Force initiatives requiring unique specifications or computing classification above SECRET.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: B66501 / High Perf Computing Mod Pgm (HPCMP)	Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	62.683	65.252	62.319	58.614	-	58.614
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	62.683	65.252	62.319	58.614	-	58.614
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	62.683	65.252	62.319	58.614	-	58.614

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(t)	1,366.700	3	4.100	1,257.100	2	2.514	1,159.500	2	2.319	1,519.300	3	4.558	-	-	-	1,519.300	3	4.558
Defense Supercomputing Resource Centers ^(t)	29,291.500	2	58.583	31,368.900	2	62.738	30,000.000	2	60.000	27,028.000	2	54.056	-	-	-	27,028.000	2	54.056
<i>Subtotal: Non Recurring Cost</i>	-	-	62.683	-	-	65.252	-	-	62.319	-	-	58.614	-	-	-	-	-	58.614
<i>Subtotal: Hardware Cost</i>	-	-	62.683	-	-	65.252	-	-	62.319	-	-	58.614	-	-	-	-	-	58.614
Gross/Weapon System Cost	-	-	62.683	-	-	65.252	-	-	62.319	-	-	58.614	-	-	-	-	-	58.614

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Total:	65.252	62.319	58.614	-	58.614
Quantity	-	-	-	-	-
Total Obligation Authority	65.252	62.319	58.614	-	58.614

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: B66501 / High Perf Computing Mod Pgm (HPCMP)	Item Number / Title [DODIC]: 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		2015	TBD / TBD	TBD	DTRA-TS(SCI)	Nov 2015	Mar 2016	1	1,734.000	Y		May 2015
Dedicated HPC Project Investments		2015	SGI, Silicon Graphics, Inc / Silver Spring, MD	TBD	AMC-ARL, Aberdeen	Jun 2015	Jun 2015	1	780.000	Y		May 2015
Dedicated HPC Project Investments		2016	TBD / TBD	TBD	TBD	May 2016	Aug 2016	2	1,159.500	N		
Dedicated HPC Project Investments		2017	TBD / TBD	TBD	TBD	Dec 2016	Mar 2017	3	1,519.300	N		
Defense Supercomputing Resource Centers		2015	SGI, Silicon Graphics, Inc / Silver Spring, MD	C / BOA	AFRL, Wright Patterson AFB	Dec 2014	May 2015	1	30,987.700	Y		May 2014
Defense Supercomputing Resource Centers		2015	Cray, Inc. / Seattle, WA	C / BOA	Navy DSRC Stennis Space Ctr	Dec 2014	Apr 2015	1	31,750.000	Y		May 2014
Defense Supercomputing Resource Centers		2016	TBD / TBD	C / BOA	Army ERDC DSRC Vicksburg	Dec 2015	Mar 2016	1	30,000.000	N		Feb 2015
Defense Supercomputing Resource Centers - 2		2016	TBD / TBD	C / BOA	Army ARL DSRC Aberdeen, MD	Dec 2015	Mar 2016	1	30,000.000	N		Feb 2015
Defense Supercomputing Resource Centers		2017	TBD / TBD	C / BOA	AFRL, Wright Patterson AFB	Dec 2016	Mar 2017	1	27,028.000	N		Feb 2016
Defense Supercomputing Resource Centers - 2		2017	TBD / TBD	C / BOA	Navy DSCR Stennis Space Ctr	Dec 2016	Mar 2017	1	27,028.000	N		Feb 2016

Remarks:
The High Performance Computing Modernization Program (HPCMP) has a five year basic ordering agreement (BOA) arrangement through Huntsville Engineering Support Center (Army Corps of Engineers), increasing speed to award and acceptance. All procurements are commercial off the shelf or government off the shelf (COTS/GOTS).

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B66001 / Contract Writing System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	0.986	-	0.986	4.941	8.299	5.874	5.885	-	25.985
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	0.986	-	0.986	4.941	8.299	5.874	5.885	-	25.985
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	0.986	-	0.986	4.941	8.299	5.874	5.885	-	25.985

(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 CONTRACT WRITING SYSTEM (ACWS): 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 ERP systems. As a financial feeder system, ACWS will meet the compliance requirements of the Federal Financial Management Improvement Act of 1996 (FFMIA). The system will meet the full scope of Army Contracting requirements, including those in secure and non-secure locations, those supporting combat or non-combat contingencies, those within or outside the borders of the Continental United States, those supporting grants and assistance agreements, and those performing weapons systems, construction, installation, and other specialized contracting activities. This program is linked to RDTE Program Element 0605013A, Project Number T05, Project Title Army Business System Modernization Initiatives.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.986	-	0.986	4.941	8.299	5.874
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.986	-	0.986	4.941	8.299	5.874

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: B66001 / Contract Writing System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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			- / -	- / -	- / -	- / 0.986	- / -	- / 0.986
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 0.986	- / -	- / 0.986

*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:
 FY2017 Base procurement dollars in the amount of \$0.986 million support ACWS software license and change management activities throughout the Risk Reduction phase.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: B66001 / Contract Writing System	Item Number / Title [DODIC]: B66002 / Army Contract Writing System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	0.986	-	0.986
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	0.986	-	0.986
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	0.986	-	0.986

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Recurring Cost																		
Software Licenses	-	-	-	-	-	-	-	-	-	-	-	0.986	-	-	-	-	-	0.986
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.986</i>	-	-	-	-	-	<i>0.986</i>
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.986</i>	-	-	-	-	-	<i>0.986</i>
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	0.986	-	-	-	-	-	0.986

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	0.986	-	0.986
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	0.986	-	0.986

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,873.665	17.631	17.894	23.828	-	23.828	26.183	28.240	28.224	28.211	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,873.665	17.631	17.894	23.828	-	23.828	26.183	28.240	28.224	28.211	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,873.665	17.631	17.894	23.828	-	23.828	26.183	28.240	28.224	28.211	Continuing	Continuing

(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 an automated information system that provides the capability to administer, manage, and mobilize the Army's Reserve Component (RC) forces more effectively. Specifically, RCAS supports the mobilization planning and unit administration functions of the Army National Guard and Army Reserve by integrating commercial off-the-shelf (COTS) hardware and office automation software, Government off-the-shelf (GOTS) software, and developed functional software applications into a common operating environment, personal computer based architecture. Since completion of the infrastructure and functional capabilities, system acquisition has been focused on the effective and efficient sustainment of the fielded system and software applications. The RCAS hardware infrastructure is refreshed on a five year cycle, replacing approximately 20% of the fielded infrastructure per year.

The program supports the Army and DoD objectives of network convergence to Unified Capabilities and is aligned with the Joint Information Environment initiative by providing the transport infrastructure.

RCAS is the Army's system of choice and record for all RC Commands mobilizing their citizen soldiers for disaster response, homeland security tasking, 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, and equip their citizen soldiers, mobilize forces in half the historical time required, and provides resource visibility to state and federal agencies of all forces at home and abroad. 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.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.631	17.894	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	14.297	-	14.297	15.710	16.944	16.934
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	9.531	-	9.531	10.473	11.296	11.290
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	17.631	17.894	23.828	-	23.828	26.183	28.240	28.224	28.211

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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:
 BE4167 / Reserve Component Automation Sys (RCAS)

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 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BE4167 / Reserve Component Automation Sys (RCAS)	P-5a		- / 1,873.665	- / 17.631	- / 17.894	- / 23.828	- / -	- / 23.828
P-40	Total Gross/Weapon System Cost			- / 1,873.665	- / 17.631	- / 17.894	- / 23.828	- / -	- / 23.828

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

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

Justification:
 FY 2017 Base procurement dollars in the amount of \$23.828 million will support refreshment of approximately 15 percent of the RCAS hardware infrastructure, placing the information technology infrastructure refresh on a 8 year cycle. The program will support hardware and software refresh to Army National Guard and U.S. Army Reserve 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.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BE4167 / Reserve Component Automation Sys (RCAS)	Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,873.665	17.631	17.894	23.828	-	23.828
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,873.665	17.631	17.894	23.828	-	23.828
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,873.665	17.631	17.894	23.828	-	23.828

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Life Cycle Replacement Hardware ⁽¹⁾	1,873.665.000	1	1,873.665	17,631.000	1	17.631	17,894.000	1	17.894	23,828.000	1	23.828	-	-	-	23,828.000	1	23.828
Subtotal: Recurring Cost	-	-	1,873.665	-	-	17.631	-	-	17.894	-	-	23.828	-	-	-	-	-	23.828
Subtotal: Hardware Cost	-	-	1,873.665	-	-	17.631	-	-	17.894	-	-	23.828	-	-	-	-	-	23.828
Gross/Weapon System Cost	-	-	1,873.665	-	-	17.631	-	-	17.894	-	-	23.828	-	-	-	-	-	23.828

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	17.631	17.894	-	-	-
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	14.297	-	14.297
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	9.531	-	9.531
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	17.631	17.894	23.828	-	23.828

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: BE4167 / Reserve Component Automation Sys (RCAS)	Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
(†) indicates the presence of a P-5a		

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: BE4167 / Reserve Component Automation Sys (RCAS)				Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Life Cycle Replacement Hardware		2015	L3 National Security Svc / Reston, VA	C / IDDQ	Washington, DC	Mar 2015	Apr 2015	1	17,631.000	Y		
Life Cycle Replacement Hardware		2016	L3 National Security Svc / Reston, VA	C / IDDQ	Washington, DC	Mar 2016	Apr 2016	1	17,894.000	Y		
Life Cycle Replacement Hardware		2017	L3 National Security Svc / Reston, VA	C / IDIQ	Washington, DC	Mar 2017	Apr 2017	1	23,828.000	Y		

Remarks:
L3 National Security Services is the prime contractor for PD RCAS. All items are COTS/GOTS solutions.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: B68501 / TACTICAL DIGITAL MEDIA
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	40	-	40	150	167	170	173	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	1.191	-	1.191	4.441	4.958	5.055	5.156	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	1.191	-	1.191	4.441	4.958	5.055	5.156	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	1.191	-	1.191	4.441	4.958	5.055	5.156	Continuing	Continuing

(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>)	-	-	-	29.775	-	29.775	29.607	29.689	29.735	29.803	Continuing	Continuing

Description:

Tactical Digital Media (TDM) systems are comprised of photo, video and audio recording and editing equipment that will be assembled and issued as variant kits tailored to unit mission requirements. TDM kits support Combat Camera (COMCAM) units, Military Information Support Operations (MISO) units, and Tactical Public Affairs units.

TDM Provides essential imagery, multimedia products, and live interview capabilities that directly contribute to successful execution of a Commander's strategic engagement & communications strategy across the full range of military operations. TDM also provides specific imagery, video, & multimedia support to commanders through to the National Command Authority (NCA) level to assist with operational planning, decision-making, combat adversary misinformation/ disinformation, alter perceptions regarding coalition efforts, and provide accurate and timely information to national & international audiences. All equipment is Commercial-Off-The-Shelf (COTS).

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	40	-	40	82	77	86	89
	Total Obligation Authority	-	-	1.191	-	1.191	2.441	2.302	2.555	2.656
ANG	Quantity	-	-	-	-	-	34	45	42	42
	Total Obligation Authority	-	-	-	-	-	1.000	1.328	1.250	1.250
AR	Quantity	-	-	-	-	-	34	45	42	42
	Total Obligation Authority	-	-	-	-	-	1.000	1.328	1.250	1.250
Total:	Quantity	-	-	40	-	40	150	167	170	173
Secondary Distribution	Total Obligation Authority	-	-	1.191	-	1.191	4.441	4.958	5.055	5.156

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: B68501 / TACTICAL DIGITAL MEDIA
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	B68501 / TACTICAL DIGITAL MEDIA	P-5a		- / -	- / -	- / -	40 / 1.191	- / -	40 / 1.191
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	40 / 1.191	- / -	40 / 1.191

*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:
 FY17 Base procurement funding in the amount of \$1.191 million procures and fields a quantity of 40 TDM kits. Kits to be procured and fielded will be a combination of Tactical Media Acquisition Kits (TMAK), Digital Video Acquisition Kits (DVAK), Media Production Kits (MPK), and Advance Acquisition Kits (AAK). FY17 funding also provides core Program Management Office support.

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 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 95	P-1 Line Item Number / Title: B68501 / TACTICAL DIGITAL MEDIA	Item Number / Title [DODIC]: B68501 / TACTICAL DIGITAL MEDIA

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	40	-	40
Gross/Weapon System Cost (\$ in Millions)	-	-	-	1.191	-	1.191
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	1.191	-	1.191
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	1.191	-	1.191

(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)	-	-	-	29.775	-	29.775

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
TDM Kit (avg) ^(†)	-	-	-	-	-	-	-	-	-	27.275	40	1.091	-	-	-	27.275	40	1.091
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.091	-	-	-	-	-	1.091
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.091	-	-	-	-	-	1.091
Support Cost																		
Program Management Support	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	29.775	40	1.191	-	-	-	29.775	40	1.191

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	40	-	40
	Total Obligation Authority	-	-	1.191	-	1.191
Total: Secondary Distribution	Quantity	-	-	40	-	40
	Total Obligation Authority	-	-	1.191	-	1.191

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 95	P-1 Line Item Number / Title: B68501 / TACTICAL DIGITAL MEDIA	Item Number / Title [DODIC]: B68501 / TACTICAL DIGITAL MEDIA
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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
TDM Kit (avg)		2017	General Dynamics / Tauton	C / FFP	Aberdeen Proving Ground	Feb 2017	Aug 2017	40	27.275	Y		

Remarks:
Items being procured are commercial off the shelf (COTS) products.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: BL5300 / Items Less Than \$5M (Surveying Equipment)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	282	51	33	13	1	14	24	12	6	41	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.369	5.437	4.242	1.995	0.096	2.091	3.414	1.994	1.408	4.687	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.369	5.437	4.242	1.995	0.096	2.091	3.414	1.994	1.408	4.687	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.369	5.437	4.242	1.995	0.096	2.091	3.414	1.994	1.408	4.687	Continuing	Continuing

(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>)	26.131	106.608	128.545	153.462	96.000	149.357	142.250	166.167	234.667	114.317	Continuing	Continuing

Description:

This budget line supports the procurement and upgrade of the Automated Integrated Survey Instrument (AIS), Digital Levels 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 to support Artillery (e.g., placement of weapons platforms), Aviation (e.g., aircraft registration, safety surveys) and Topographic support. 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, 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-Survey Army Acquisition Objective (AAO) = 356
GPS-S Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	19	17	4	1	5	6	3	2	13
	Total Obligation Authority	2.701	2.218	0.653	0.096	0.749	1.414	0.640	0.469	1.540
ANG	Quantity	19	9	4	-	4	9	4	2	15
	Total Obligation Authority	1.704	1.128	0.682	-	0.682	1.000	0.677	0.470	1.574
AR	Quantity	13	7	5	-	5	9	5	2	13
	Total Obligation Authority	1.032	0.896	0.660	-	0.660	1.000	0.677	0.469	1.573
Total: Secondary Distribution	Quantity	51	33	13	1	14	24	12	6	41
	Total Obligation Authority	5.437	4.242	1.995	0.096	2.091	3.414	1.994	1.408	4.687

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: BL5300 / Items Less Than \$5M (Surveying Equipment)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BL5300 / Items Less Than \$5M (Surveying Equipment)	P-5a		282 / 7.369	51 / 5.437	33 / 4.242	13 / 1.995	1 / 0.096	14 / 2.091
P-40	Total Gross/Weapon System Cost			282 / 7.369	51 / 5.437	33 / 4.242	13 / 1.995	1 / 0.096	14 / 2.091

*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 2017 Base procurement dollars in the amount of \$1.995 million supports the procurement of up to 12 Global Positioning System - Survey (GPS-S) for Active Duty, National Guard and Army Reserve units to meet Army Force Generation (ARFORGEN) requirements.

FY17 Other Contingency Operations (OCO) procurement dollars in the amount of \$.096 million supports the establishment of one Armored Brigade Combat Team (ABCT) for the European Reassurance Initiative (ERI). Procurement is necessary to outfit the Pre-Positioned equipment set. There is no excess inventory or viable substitute available to support the ERI requirement.

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

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 95	P-1 Line Item Number / Title: BL5300 / Items Less Than \$5M (Surveying Equipment)	Item Number / Title [DODIC]: BL5300 / Items Less Than \$5M (Surveying Equipment)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	282	51	33	13	1	14
Gross/Weapon System Cost (\$ in Millions)	7.369	5.437	4.242	1.995	0.096	2.091
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	7.369	5.437	4.242	1.995	0.096	2.091
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	7.369	5.437	4.242	1.995	0.096	2.091

(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)	26.131	106.608	128.545	153.462	96.000	149.357

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
GPS-S Systems ^(†)	-	-	7.369	73.000	51	3.723	76.000	33	2.508	79.000	13	1.027	79.000	1	0.079	79.000	14	1.106
Design Engineering	-	-	-	-	-	0.578	-	-	0.598	-	-	0.193	-	-	-	-	-	0.193
Total Package Fielding	-	-	-	-	-	0.405	-	-	0.405	-	-	0.176	-	-	0.017	-	-	0.193
Project Management and Administration	-	-	-	-	-	0.440	-	-	0.440	-	-	0.440	-	-	-	-	-	0.440
Matrix Support	-	-	-	-	-	0.159	-	-	0.159	-	-	0.159	-	-	-	-	-	0.159
Other	-	-	-	-	-	0.132	-	-	0.132	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	7.369	-	-	5.437	-	-	4.242	-	-	1.995	-	-	0.096	-	-	2.091
<i>Subtotal: Flyaway Cost</i>	-	-	7.369	-	-	5.437	-	-	4.242	-	-	1.995	-	-	0.096	-	-	2.091
Gross/Weapon System Cost	26.131	282	7.369	106.608	51	5.437	128.545	33	4.242	153.462	13	1.995	96.000	1	0.096	149.357	14	2.091

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	19	17	4	1	5
	Total Obligation Authority	2.701	2.218	0.653	0.096	0.749
ANG	Quantity	19	9	4	-	4
	Total Obligation Authority	1.704	1.128	0.682	-	0.682
AR	Quantity	13	7	5	-	5

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 95	P-1 Line Item Number / Title: BL5300 / Items Less Than \$5M (Surveying Equipment)	Item Number / Title [DODIC]: BL5300 / Items Less Than \$5M (Surveying Equipment)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	1.032	0.896	0.660	-	0.660
Total:	Quantity	51	33	13	1	14
Secondary Distribution	Total Obligation Authority	5.437	4.242	1.995	0.096	2.091

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2017 Army							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 95			P-1 Line Item Number / Title: BL5300 / Items Less Than \$5M (Surveying Equipment)				Item Number / Title [DODIC]: BL5300 / Items Less Than \$5M (Surveying Equipment)				

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
GPS-S Systems		2015	TAG Inc / Sterling, VA	C / FFP	AGC, Alexandria VA	Jan 2015	Jan 2016	51	73.000			
GPS-S Systems		2016	TAG Inc / Sterling, VA	C / FFP	AGC, Alexandria VA	Jan 2016	Jan 2017	33	76.000			
GPS-S Systems		2017	TAG Inc / Sterling, VA	C / FFP	AGC, Alexandria VA	Jan 2017	Jun 2018	14	79.000			

Remarks:

GPS-S Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

GPS-S is Selected Availability Anti-Spoofing Module enabled to support military operations.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	P-1 Line Item Number / Title: BF5400 / Production Base Support (C-E)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	114.916	0.426	0.425	0.403	-	0.403	0.499	0.512	0.522	0.532	-	118.235
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	114.916	0.426	0.425	0.403	-	0.403	0.499	0.512	0.522	0.532	-	118.235
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	114.916	0.426	0.425	0.403	-	0.403	0.499	0.512	0.522	0.532	-	118.235

(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 funding to the Army Test and Evaluation Command (ATEC) to establish, modernize, expand or replace test facilities used in production testing of Communications and Electronic equipment. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Electronic Proving Ground (EPG), Fort Huachuca, AZ.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.426	0.425	0.403	-	0.403	0.499	0.512	0.522	0.532
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.426	0.425	0.403	-	0.403	0.499	0.512	0.522	0.532

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	P-1 Line Item Number / Title: BF5400 / Production Base Support (C-E)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	BA5000 / PROVISION OF INDUSTRIAL FACILITIES			- / 114.916	- / 0.426	- / 0.425	- / 0.403	- / -	- / 0.403
P-40	Total Gross/Weapon System Cost			- / 114.916	- / 0.426	- / 0.425	- / 0.403	- / -	- / 0.403

*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 2017 Base procurement dollars in the amount of \$0.403 million acquires modern instrumentation to measure the antenna radiation patterns of antenna systems on all Army vehicles; provides improved measurement capabilities and accuracy for production antenna performance and software modeling of antenna performance. It will acquire modern Microwave receivers and RF components for antenna measurements, develop standardized procedures and high accuracy standards needed for the accreditation process with an improvement in overall system measurement consistency and accuracy. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

The FY 2017 funding request was reduced for \$.025 million to account for the availability of prior year execution balances.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98 **P-1 Line Item Number / Title:** BF5400 / Production Base Support (C-E) **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PROVISION OF INDUSTRIAL FACILITIES																				
BA5000 / PROVISION OF INDUSTRIAL FACILITIES			-	-	114.916	-	-	0.426	-	-	0.425	-	-	0.403	-	-	-	-	-	0.403
<i>Secondary Distribution</i>																				
Army				-	-		-	0.426		-	0.425		-	0.403		-	-		-	0.403
Subtotal: PROVISION OF INDUSTRIAL FACILITIES			-	-	114.916	-	-	0.426	-	-	0.425	-	-	0.403	-	-	-	-	-	0.403
Total			-	-	114.916	-	-	0.426	-	-	0.425	-	-	0.403	-	-	-	-	-	0.403

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 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	P-1 Line Item Number / Title: B88801 / BCT Emerging Technologies
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	7.438	-	-	-	-	-	-	-	-	7.438
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	7.438	-	-	-	-	-	-	-	-	7.438
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	7.438	-	-	-	-	-	-	-	-	7.438

(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:

Brigade Combat Team (BCT) Emerging Technologies provides funding for the procurement of incidental materials and labor needed to integrate evaluated and Army approved Network Systems into a System of Systems Brigade Combat Team Capability Set. Hardware/software products/component include the tested and approved system, vehicle mounting hardware (A-Kits), and ancillary equipment such as power amplifiers/splitters, loudspeakers, and battery isolators, filters, cables, connectors, AC inverters, utility outlets, environmental control units (ECU), fans, thermal & power switches, diplexers, and antennas. These funds may be used for the initial procurement and installation of hardware/software components, which are not a part of a current Program of Record (POR) and have been evaluated through a NIE and approved by the Army for inclusion into the Army's Capability Sets (CS) Synchronized Fielding plan. Additionally procure the initial licenses for 3rd party COE applications in order to support Programs of Record. These funds will be used to integrate technologies that have been evaluated and demonstrated significant application to COE. This includes improvements of technology applications and widgets found in the commercial marketplace.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.438	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.438	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	P-1 Line Item Number / Title: B88801 / BCT Emerging Technologies
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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		- / -	- / -	- / 7.438	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / 7.438	- / -	- / -	- / -

*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:
 This program does not have an FY 2017 request.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98	P-1 Line Item Number / Title: B88801 / BCT Emerging Technologies	Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	7.438	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	7.438	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	7.438	-	-	-

(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
CS 16 & 17 Request ^(t)	-	-	-	-	-	-	7,438.000	1	7.438	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	7.438	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	7.438	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	7.438	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	7.438	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	7.438	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98	P-1 Line Item Number / Title: B88801 / BCT Emerging Technologies	Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CS 16 &17 Request		2016	TBD by Gatekeepers / Location TBD	Various	TBD	Mar 2017	May 2017	1	7,438.000			

Remarks:
These hardware/software products will be acquired either through existing Army contracts and/or production options that are established as part of the NIE/AWA DP3 approval process. (NIE DP3 AUG 2016, AWA DP3 MAR 2017)

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army **Date:** February 2016

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: BD3910 / Classified
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.001	-	-	-	-	-	-	-	-	-	-	0.001
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.001	-	-	-	-	-	-	-	-	-	-	0.001
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.001	-	-	-	-	-	-	-	-	-	-	0.001

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

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

Description:

INFORMATION IDENTIFIED IN VOL II OF THE JOINT MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

