

UNCLASSIFIED

**Department of Defense  
Fiscal Year (FY) 2017 Amended Budget Estimates**

November 2016



**Army**

*Justification Book of*

***Other Procurement, Army***

**Communications and Electronics Equipment, Budget Activity 2**

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Department of the Army  
 Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO)  
 Exhibit P-1 Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO)  
 Total Obligational Authority  
 (Dollars in Thousands)

04 Nov 2016

Appropriation -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
Other Procurement, Army	5,655,672	5,718,811	1,175,596	6,894,407
Total Department of the Army	5,655,672	5,718,811	1,175,596	6,894,407

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 Total Obligational Authority  
 (Dollars in Thousands)

04 Nov 2016

Appropriation -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 OCO Amendment -----	FY 2017 Total -----
Other Procurement, Army	5,873,949	1,373,010	98,500	7,345,459
Total Department of the Army	5,873,949	1,373,010	98,500	7,345,459

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 Total Obligational Authority  
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04 Nov 2016

## Appropriation: Other Procurement, Army

Budget Activity -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
01. Tactical and Support Vehicles	1,300,871	850,910	960,374	1,811,284
02. Communications and Electronics Equipment	3,070,418	3,257,663	137,701	3,395,364
03. Other Support Equipment	1,250,151	1,561,727	77,521	1,639,248
04. Spare and Repair Parts	34,232	48,511		48,511
Total Other Procurement, Army	5,655,672	5,718,811	1,175,596	6,894,407

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04 Nov 2016

## Appropriation: Other Procurement, Army

Budget Activity -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 OCO Amendment -----	FY 2017 Total -----
01. Tactical and Support Vehicles	842,481	876,512		1,718,993
02. Communications and Electronics Equipment	3,632,369	254,988	98,500	3,985,857
03. Other Support Equipment	1,371,856	241,510		1,613,366
04. Spare and Repair Parts	27,243			27,243
Total Other Procurement, Army	5,873,949	1,373,010	98,500	7,345,459

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04 Nov 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	
18	Nontactical Vehicles, Other	A		11,101		9,614				9,614	U
Total Tactical and Support Vehicles				1,300,871		850,910		960,374		1,811,284	
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

P-1C1A: Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO), as of November 4, 2016 at 16:00:11

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04 Nov 2016

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Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 OCO Amendment		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
18	Nontactical Vehicles, Other	A		1,755						1,755	U
Total Tactical and Support Vehicles				842,481		876,512				1,718,993	
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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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	
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 Comm - Intelligence Comm	A		22,614		24,388				24,388	U
47	CI Automation Architecture	A		3,371		1,349				1,349	U
48	Army CA/MISO GPF Equipment Information Security	A		5,124		3,695				3,695	U
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 OCO Amendment		FY 2017 Total		S e c
			Quantity	Cost	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				26,500		41,632	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

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			Quantity	Cost	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)											
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

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			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: LHMBC 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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			Quantity	Cost	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		72,000		124,697	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

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			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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			Quantity	Cost	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-1C1A: Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO), as of November 4, 2016 at 16:00:11

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Department of the Army  
 Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO)  
 Exhibit P-1 Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO)  
 Total Obligational Authority  
 (Dollars in Thousands)

04 Nov 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	
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	
Budget Activity 03: Other Support Equipment											
Chemical Defensive Equipment											
111	Protective Systems	A				248				248	U
112	Family of Non-Lethal Equipment (FNLE)	A		937		1,487				1,487	U
113	Base Defense Systems (BDS)	A		21,296				4,035		4,035	U
114	CBRN Defense	A		17,468		26,302				26,302	U
Bridging Equipment											
115	Tactical Bridging					9,822				9,822	U
116	Tactical Bridge, Float-Ribbon			5,442		21,516				21,516	U
117	Bridge Supplemental Set	A				4,959				4,959	U
118	Common Bridge Transporter (CBT) Recap	A		11,013		52,546				52,546	U
Engineer (Non-Construction) Equipment											
119	Grnd Standoff Mine Detectn Systm (GSTAMIDS)			37,649		58,682				58,682	U
120	Area Mine Detection System (AMDS)	A									U
121	Husky Mounted Detection System (HMDS)	A		18,545		13,565				13,565	U
122	Robotic Combat Support System (RCSS)			4,701		2,136				2,136	U

P-1C1A: Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO), as of November 4, 2016 at 16:00:11

## UNCLASSIFIED

Department of the Army  
 Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO)  
 Exhibit P-1 Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO)  
 Total Obligational Authority  
 (Dollars in Thousands)

04 Nov 2016

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 OCO Amendment		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
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		98,500		3,985,857	
Budget Activity 03: Other Support Equipment											
-----											
Chemical Defensive Equipment											
111	Protective Systems	A		2,966						2,966	U
112	Family of Non-Lethal Equipment (FNLE)	A		9,795						9,795	U
113	Base Defense Systems (BDS)	A									U
114	CBRN Defense	A		17,922		1,841				19,763	U
Bridging Equipment											
115	Tactical Bridging			13,553		26,000				39,553	U
116	Tactical Bridge, Float-Ribbon			25,244						25,244	U
117	Bridge Supplemental Set	A		983						983	U
118	Common Bridge Transporter (CBT) Recap	A		25,176						25,176	U
Engineer (Non-Construction) Equipment											
119	Grnd Standoff Mine Detectn Systm (GSTAMIDS)			39,350						39,350	U
120	Area Mine Detection System (AMDS)	A		10,500						10,500	U
121	Husky Mounted Detection System (HMDS)	A		274						274	U
122	Robotic Combat Support System (RCSS)			2,951						2,951	U

P-1C1A: Budget Amendment to the FY 2017 President's Budget Request for Overseas Contingency Operations (OCO), as of November 4, 2016 at 16:00:11

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Army • Amended Budget Estimates FY 2017 • Procurement

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**Line Item Table of Contents (by Appropriation then Line Number)**

*Appropriation 2035A: Other Procurement, Army*

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<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
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Army • Amended Budget Estimates FY 2017 • Procurement

**Line Item Table of Contents (Alphabetically by Line Item Title)**

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
Defensive CYBER Operations	B63000	52	02	64.....	1
Indirect Fire Protection Family Of Systems	BZ0501	80	02	86.....	7

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

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

Resource Summary	Prior Years	FY 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	26.500	41.632	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	26.500	41.632	25.836	37.203	44.898	48.995	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	-	-	<b>15.132</b>	<b>26.500</b>	<b>41.632</b>	<b>25.836</b>	<b>37.203</b>	<b>44.898</b>	<b>48.995</b>	<b>Continuing</b>	<b>Continuing</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	3,026.400	-	8,326.400	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	26.500	41.632	25.836	37.203	44.898	48.995

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

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

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
<b>Total:</b>	Quantity	-	-	5	-	5	5	15	15	15
<b>Secondary Distribution</b>	Total Obligation Authority	-	-	-	26.500	-	-	-	-	-

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

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

Exhibits Schedule					Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B63103 / DEFENSIVE CYBER TOOLS	P-5a			- / -	- / -	- / -	5 / 15.132	- / 26.500	5 / 41.632
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>5 / 15.132</b>	<b>- / 26.500</b>	<b>5 / 41.632</b>

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

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

**Justification:**  
 FY 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.

FY17 OCO Amendment funding in the amount of \$26.5 million supports JUONS ST-007. Details are classified. Effort is executing \$20.98 million OMA OCO via Rapid Acquisition Authority properly identified under this program line.

TOTAL CYBER JUONS FY17 OCO Amendment is \$87.0 million, arrayed into three lines of effort: this line, RDTE BLIN 119 Defense Cyber Operations 0605041A, and RDTE BLIN 114 Tractor Tire 06005032A. Total Rapid Acquisition Authority (RAA) being executed against this effort in OPA/RDTE lines is \$37.96 million. An additional \$.5 million is for OMA requirements, for a total RAA effort of \$38.46 million. RAA was sourced with OMA OCO.

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

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<b>Exhibit P-5, Cost Analysis: PB Amended 2017 Army</b>		<b>Date:</b> November 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> B63000 / Defensive CYBER Operations	<b>Item Number / Title [DODIC]:</b> B63103 / DEFENSIVE CYBER TOOLS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 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	26.500	41.632
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	15.132	26.500	41.632
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	-	<b>15.132</b>	<b>26.500</b>	<b>41.632</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	3,026.400	-	8,326.400

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 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	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 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1,608.800	5	8.044	-	-	-	1,608.800	5	8.044
CPT SOFTWARE <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	775.800	5	3.879	-	-	-	775.800	5	3.879
WEB VULNERABILITY SOFTWARE <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	160.000	5	0.800	-	-	-	160.000	5	0.800
CLASSIFIED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.500	-	-	26.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	15.132	-	-	26.500	-	-	41.632
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	15.132	-	-	26.500	-	-	41.632
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	3,026.400	5	15.132	-	-	26.500	8,326.400	5	41.632

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	5	-	5
	Total Obligation Authority	-	-	15.132	26.500	41.632
<b>Total:</b>	<b>Quantity</b>	-	-	5	-	5

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<b>Exhibit P-5, Cost Analysis:</b> PB Amended 2017 Army			<b>Date:</b> November 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64		<b>P-1 Line Item Number / Title:</b> B63000 / Defensive CYBER Operations		<b>Item Number / Title [DODIC]:</b> B63103 / DEFENSIVE CYBER TOOLS		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	15.132	26.500	41.632

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

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 64	<b>P-1 Line Item Number / Title:</b> B63000 / Defensive CYBER Operations	<b>Item Number / Title [DODIC]:</b> 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 Amended 2017 Army **Date:** November 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604741A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 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	76.270	124.697	11.380	3.472	-	-	-	351.223
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	82.699	68.296	60.679	48.427	76.270	124.697	11.380	3.472	-	-	-	351.223
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>82.699</b>	<b>68.296</b>	<b>60.679</b>	<b>48.427</b>	<b>76.270</b>	<b>124.697</b>	<b>11.380</b>	<b>3.472</b>	-	-	-	<b>351.223</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	283.216	371.174	194.484	250.917	876.667	445.346	-	-	-	-	-	328.860

**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	76.270	108.704	2.097	0.002	-	-

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604741A
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**Line Item MDAP/MAIS Code:** N/A

Secondary Distribution		FY 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	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>184</b>	<b>312</b>	<b>193</b>	<b>87</b>	<b>280</b>	-	-	-	-
	<b>Total Obligation Authority</b>	-	-	-	<b>76.270</b>	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB Amended 2017 Army **Date:** November 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

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604741A

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

Exhibits Schedule					Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	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-5	H30505 / Counter Aerial Unmanned Systems (CUAS)				- / -	- / -	- / -	- / -	- / 72.000	- / 72.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>292 / 82.699</b>	<b>184 / 68.296</b>	<b>312 / 60.679</b>	<b>193 / 48.427</b>	<b>87 / 76.270</b>	<b>280 / 124.697</b>

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

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

**Justification:**

FY 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 funding in the amount of \$4.270 million supports the Combatant Command (COCOM) requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include RAM Warn repositioned European equipment sets.

FY 2017 Overseas Contingency Operations (OCO) Amendment in the amount of \$72.000 million supports Joint Urgent Operational Needs Statement (JUONS) CC-0558 addressing Counter Unmanned Aerial Systems (CUAS) emerging threats in the operational environment posed by enemy UAS.

The total estimated cost of the CUAS Baseline effort is \$278.000 million. Rapid Acquisition Authority (RAA) was approved for the first quarter FY 2017 research and development efforts in the amount of \$65.500 million and was sourced by FY 2017 OCO Operations and Maintenance, Army (OMA) funds.

Funding for Research, Development, Test and Evaluation (RDT&E) efforts are requested in Line #91 Air Defense Command, Control and Intelligence - Eng. Dev. program element 0604741A, project FG5 Counter Unmanned Aerial Systems.

An additional RAA package in the amount of \$76.000 million will be provided to support the CUAS Acceleration plan which fields existing capability and provides immediate protection to the most at risk sites in the shortest time frame and in accordance with Office of the Secretary of Defense (OSD) direction.

For transparency and in support of the Counter Unmanned Aerial System (UAS) Joint Operational Needs for Statement (JUONS) CC-0558, Project FG5 was created to support the identification, development, testing, evaluation and integration of technologies to provide an overall evolutionary capability to defeat small Unmanned Aerial systems (UAS) threats. The CUAS effort will provide the capability for the warfighter to comprehensively detect, identify and defeat enemy Group 1 and 2 light weight, low altitude UAS.

The CUAS effort involves a four phased development and testing approach of Counter UAS systems:

- Phase 0: Deploys available/interim capabilities to three high priority sites, conducts Operational Assessment in Theater. Systems will be stand-alone with full system characterization, operational and spectrum impacts evaluated in Phase 1. Phase 0 efforts have been funded by Joint Improvised-Threat Defeat Agency (JIDA).

- Phase 1: Limited Test at Yuma Proving Ground (YPG) takes an initial look at available systems on the network, development for sensors and other mature systems, experimental segment for emerging technology and initial fielding of selected sites.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB Amended 2017 Army		<b>Date:</b> November 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)		<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604741A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>- Phase 1a: Test multiple systems on the network, tests mature solutions and down selects the best solutions that will participate in Phase 2 (full JUON capability) and fielding to identified locations.</p> <p>- Phase 2: Test fully networked, fixed/mobile capability, sustainable solution and deploy full JUON capability to all locations.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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<b>Exhibit P-5, Cost Analysis: PB Amended 2017 Army</b>		<b>Date:</b> November 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems	<b>Item Number / Title [DODIC]:</b> H30503 / Rocket, Artillery, Mortar (RAM) Warn

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 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)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>39.274</b>	<b>27.652</b>	<b>42.458</b>	<b>25.410</b>	<b>4.270</b>	<b>29.680</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	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 <sup>(†)</sup>	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
<i>Subtotal: Recurring Cost</i>	-	-	35.363	-	-	24.580	-	-	36.482	-	-	22.220	-	-	4.270	-	-	26.490
<i>Subtotal: Flyaway Cost</i>	-	-	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
<i>Subtotal: Support - Fielding Cost</i>	-	-	3.911	-	-	3.072	-	-	5.976	-	-	3.190	-	-	-	-	-	3.190
<b>Gross/Weapon System Cost</b>	<b>176.117</b>	<b>223</b>	<b>39.274</b>	<b>150.283</b>	<b>184</b>	<b>27.652</b>	<b>136.083</b>	<b>312</b>	<b>42.458</b>	<b>131.658</b>	<b>193</b>	<b>25.410</b>	<b>49.080</b>	<b>87</b>	<b>4.270</b>	<b>106.000</b>	<b>280</b>	<b>29.680</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	184	136	72	87	159
	Total Obligation Authority	27.652	18.508	9.417	4.270	13.687
ANG	Quantity	-	176	121	-	121
	Total Obligation Authority	-	23.950	15.993	-	15.993
<b>Total:</b>	<b>Quantity</b>	<b>184</b>	<b>312</b>	<b>193</b>	<b>87</b>	<b>280</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB Amended 2017 Army				<b>Date:</b> November 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86		<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems		<b>Item Number / Title [DODIC]:</b> H30503 / Rocket, Artillery, Mortar (RAM) Warn		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	27.652	42.458	25.410	4.270	29.680

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB Amended 2017 Army							<b>Date:</b> November 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86			<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems				<b>Item Number / Title [DODIC]:</b> H30503 / Rocket, Artillery, Mortar (RAM) Warn					

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Hardware & 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 Amended 2017 Army** **Date:** November 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems	<b>Item Number / Title [DODIC]:</b> 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)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>43.425</b>	<b>40.644</b>	<b>18.221</b>	<b>23.017</b>	<b>-</b>	<b>23.017</b>

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	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
<b>Gross/Weapon System Cost</b>	<b>629.348</b>	<b>69</b>	<b>43.425</b>	<b>-</b>	<b>-</b>	<b>40.644</b>	<b>-</b>	<b>-</b>	<b>18.221</b>	<b>-</b>	<b>-</b>	<b>23.017</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>23.017</b>

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
<b>Total: Secondary Distribution</b>	<b>40.644</b>	<b>18.221</b>	<b>23.017</b>	<b>-</b>	<b>23.017</b>

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<b>Exhibit P-5, Cost Analysis: PB Amended 2017 Army</b>		<b>Date:</b> November 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 02 / 86	<b>P-1 Line Item Number / Title:</b> BZ0501 / Indirect Fire Protection Family Of Systems	<b>Item Number / Title [DODIC]:</b> H30505 / Counter Aerial Unmanned Systems (CUAS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	-	72.000	72.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	-	72.000	72.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	-	-	<b>72.000</b>	<b>72.000</b>

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

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

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

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware, Kits, Spares and Repair Parts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.120	-	-	54.120
Fielding Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.380	-	-	10.380
Project Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.500	-	-	7.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72.000	-	-	72.000
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72.000	-	-	72.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>72.000</b>	-	-	<b>72.000</b>

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	-	72.000	72.000
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	-	72.000	72.000