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**Department of Defense
Fiscal Year (FY) 2019 Budget Estimates**

February 2018



Army

Justification Book of

Other Procurement, Army

Communications and Electronics Equipment, Budget Activity 2

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Army • Budget Estimates FY 2019 • Procurement

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PROCUREMENT OF OTHER PROCUREMENT, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of Other Procurement, Army, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$9,381,576 to remain available for obligation until September 30, 2021.

COST STATEMENT

The following Justification Books were prepared at a cost of \$226,413: 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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Department of the Army
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

23 Jan 2018

<u>Appropriation</u>	<u>FY 2017 (Base + OCO)</u>	<u>FY 2018 PB Request with CR Adj Base</u>	<u>FY 2018 Total PB Requests* with CR Adj Base</u>	<u>FY 2018 PB Request with CR Adj OCO</u>
Other Procurement, Army	7,867,971	6,022,053	6,022,053	1,827,119
Total Department of the Army	7,867,971	6,022,053	6,022,053	1,827,119

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23 Jan 2018

Appropriation	FY 2018 Total PB Requests+ with CR Adj OCO	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req Emergency
Other Procurement, Army	1,827,119			
Total Department of the Army	1,827,119			

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23 Jan 2018

<u>Appropriation</u>	<u>FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**</u>	<u>FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs</u>	<u>FY 2018 Remaining Req with CR Adj Base + OCO + Emergency</u>
Other Procurement, Army	7,849,172		7,849,172
Total Department of the Army	7,849,172		7,849,172

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Department of the Army
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 (Dollars in Thousands)

23 Jan 2018

<u>Appropriation</u>	<u>FY 2019 Base</u>	<u>FY 2019 OCO</u>	<u>FY 2019 Total</u>
Other Procurement, Army	7,999,529	1,382,047	9,381,576
Total Department of the Army	7,999,529	1,382,047	9,381,576

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Department of the Army
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23 Jan 2018

Appropriation: Other Procurement, Army

Budget Activity	FY 2017 (Base + OCO)	FY 2018 PB Request with CR Adj Base	FY 2018 Total PB Requests* with CR Adj Base	FY 2018 PB Request with CR Adj OCO
01. Tactical and Support Vehicles	1,905,158	1,245,581	1,245,581	146,657
02. Communications and Electronics Equipment	4,255,899	3,826,384	3,826,384	200,932
03. Other Support Equipment	1,680,264	1,359,097	1,359,097	57,986
04. Spare and Repair Parts	26,650	38,269	38,269	
20. Undistributed		-447,278	-447,278	1,421,544
Total Other Procurement, Army	7,867,971	6,022,053	6,022,053	1,827,119

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 (Dollars in Thousands)

23 Jan 2018

Appropriation: Other Procurement, Army

Budget Activity	FY 2018 Total PB Requests+ with CR Adj OCO	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req Emergency
01. Tactical and Support Vehicles	146,657			
02. Communications and Electronics Equipment	200,932			
03. Other Support Equipment	57,986			
04. Spare and Repair Parts				
20. Undistributed	1,421,544			
Total Other Procurement, Army	1,827,119			

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Appropriation: Other Procurement, Army

Budget Activity -----	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** -----	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency -----
01. Tactical and Support Vehicles	1,392,238		1,392,238
02. Communications and Electronics Equipment	4,027,316		4,027,316
03. Other Support Equipment	1,417,083		1,417,083
04. Spare and Repair Parts	38,269		38,269
20. Undistributed	974,266		974,266
Total Other Procurement, Army	7,849,172		7,849,172

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 (Dollars in Thousands)

23 Jan 2018

Appropriation: Other Procurement, Army

Budget Activity	FY 2019 Base	FY 2019 OCO	FY 2019 Total
01. Tactical and Support Vehicles	1,908,441	387,229	2,295,670
02. Communications and Electronics Equipment	4,155,165	748,240	4,903,405
03. Other Support Equipment	1,926,106	246,578	2,172,684
04. Spare and Repair Parts	9,817		9,817
20. Undistributed			
Total Other Procurement, Army	7,999,529	1,382,047	9,381,576

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23 Jan 2018

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tactical and Support Vehicles											
Tactical Vehicles											
1	Tactical Trailers/Dolly Sets	A		2,578		9,716		9,716			U
2	Semitrailers, Flatbed:	A		26,386		14,151		14,151			U
3	Ambulance, 4 LITTER, 5/4 TON, 4x4			50,000		53,000		53,000			U
4	Ground Mobility Vehicles (GMV)	A		4,907		40,935		40,935			U
5	ARNG HMMWV Modernization Program	A		160,000							U
6	Joint Light Tactical Vehicle	A	1591	587,514	2110	804,440	2110	804,440			U
7	Truck, Dump, 20t (CCE)			3,927		967		967			U
8	Family of Medium Tactical Veh (FMTV)		1675	352,769		78,650		78,650			U
9	Firetrucks & Associated Firefighting Equip			7,460		19,404		19,404			U
10	Family of Heavy Tactical Vehicles (FHTV)		423	39,716		81,656		81,656	25,874		U
11	Pls Esp	A		118,214		7,129		7,129			U
12	Hvy Expanded Mobile Tactical Truck Ext Serv			203,766					38,628		U
13	Tactical Wheeled Vehicle Protection Kits	A		145,705		43,040		43,040			U
14	Modification of In Svc Equip			189,456		83,940		83,940	64,647		U
15	Mine-Resistant Ambush-Protected (MRAP) Mods	A		10,611					17,508		U
Non-Tactical Vehicles											
16	Heavy Armored Vehicle			394		269		269			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 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tactical and Support Vehicles											
Tactical Vehicles											
1	Tactical Trailers/Dolly Sets	A									U
2	Semitrailers, Flatbed:	A									U
3	Ambulance, 4 LITTER, 5/4 TON, 4x4										U
4	Ground Mobility Vehicles (GMV)	A									U
5	ARNG HMMWV Modernization Program	A									U
6	Joint Light Tactical Vehicle	A									U
7	Truck, Dump, 20t (CCE)										U
8	Family of Medium Tactical Veh (FMTV)										U
9	Firetrucks & Associated Firefighting Equip										U
10	Family of Heavy Tactical Vehicles (FHTV)			25,874							U
11	Pls Esp	A									U
12	Hvy Expanded Mobile Tactical Truck Ext Serv			38,628							U
13	Tactical Wheeled Vehicle Protection Kits	A									U
14	Modification of In Svc Equip			64,647							U
15	Mine-Resistant Ambush-Protected (MRAP) Mods	A		17,508							U
Non-Tactical Vehicles											
16	Heavy Armored Vehicle										U

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Tactical and Support Vehicles									
Tactical Vehicles									
1	Tactical Trailers/Dolly Sets	A		9,716			9,716		U
2	Semitrailers, Flatbed:	A		14,151			14,151		U
3	Ambulance, 4 LITTER, 5/4 TON, 4x4			53,000			53,000		U
4	Ground Mobility Vehicles (GMV)	A		40,935			40,935		U
5	ARNG HMMWV Modernization Program	A							U
6	Joint Light Tactical Vehicle	A	2110	804,440			2110	804,440	U
7	Truck, Dump, 20t (CCE)			967			967		U
8	Family of Medium Tactical Veh (FMTV)			78,650			78,650		U
9	Firetrucks & Associated Firefighting Equip			19,404			19,404		U
10	Family of Heavy Tactical Vehicles (FHTV)			107,530			107,530		U
11	Pls Esp	A		7,129			7,129		U
12	Hvy Expanded Mobile Tactical Truck Ext Serv			38,628			38,628		U
13	Tactical Wheeled Vehicle Protection Kits	A		43,040			43,040		U
14	Modification of In Svc Equip			148,587			148,587		U
15	Mine-Resistant Ambush-Protected (MRAP) Mods	A		17,508			17,508		U
Non-Tactical Vehicles									
16	Heavy Armored Vehicle			269			269		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budget Activity 01: Tactical and Support Vehicles										
Tactical Vehicles										
1	Tactical Trailers/Dolly Sets	A		16,512				16,512	U	
2	Semitrailers, Flatbed:	A		16,951		8,000		24,951	U	
3	Ambulance, 4 LITTER, 5/4 TON, 4x4			50,123		20,770		70,893	U	
4	Ground Mobility Vehicles (GMV)	A		46,988				46,988	U	
5	ARNG HMMWV Modernization Program	A							U	
6	Joint Light Tactical Vehicle	A		1,319,436				1,319,436	U	
7	Truck, Dump, 20t (CCE)			6,480				6,480	U	
8	Family of Medium Tactical Veh (FMTV)			132,882				132,882	U	
9	Firetrucks & Associated Firefighting Equip			14,842				14,842	U	
10	Family of Heavy Tactical Vehicles (FHTV)			138,105		596	115,400	596	253,505	U
11	Pls Esp	A							U	
12	Hvy Expanded Mobile Tactical Truck Ext Serv			31,892			6,682	38,574	U	
13	Tactical Wheeled Vehicle Protection Kits	A		38,128			50,000	88,128	U	
14	Modification of In Svc Equip			78,507			186,377	264,884	U	
15	Mine-Resistant Ambush-Protected (MRAP) Mods	A							U	
Non-Tactical Vehicles										
16	Heavy Armored Vehicle			790				790	U	

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
17	Passenger Carrying Vehicles					1,320		1,320			U
18	Nontactical Vehicles, Other	A		1,755		6,964		6,964			U
Total Tactical and Support Vehicles				1,905,158		1,245,581		1,245,581		146,657	
<u>Budget Activity 02: Communications and Electronics Equipment</u>											
Comm - Joint Communications											
19	Win-T - Ground Forces Tactical Network	A		551,170		420,492		420,492			U
20	Signal Modernization Program	A		58,250		92,718		92,718		4,900	U
21	Tactical Network Technology Mod In Svc	A				150,497		150,497			U
22	SITUATION INFORMATION TRANSPORT	A									U
23	Joint Incident Site Communications Capability	A		5,749		6,065		6,065			U
24	JCSE Equipment (USREDCOM)			5,068		5,051		5,051			U
Comm - Satellite Communications											
25	Spectrum METSAT	A		1,626							U
26	Spectrum Portal	A		55							U
27	Defense Enterprise Wideband Satcom Systems			143,805		161,383		161,383			U
28	Transportable Tactical Command Communications	A		36,580		62,600		62,600			U
29	SHF Term			26,381		11,622		11,622			U
30	Smart-T (SPACE)			8,769		6,799		6,799			U
31	Global Brdcst Svc - GBS					7,065		7,065			U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
17	Passenger Carrying Vehicles										U
18	Nontactical Vehicles, Other	A									U
Total Tactical and Support Vehicles				146,657							
Budget Activity 02: Communications and Electronics Equipment											
Comm - Joint Communications											
19	Win-T - Ground Forces Tactical Network	A									U
20	Signal Modernization Program	A		4,900							U
21	Tactical Network Technology Mod In Svc	A									U
22	SITUATION INFORMATION TRANSPORT	A									U
23	Joint Incident Site Communications Capability	A									U
24	JCSE Equipment (USREDCOM)										U
Comm - Satellite Communications											
25	Spectrum METSAT	A									U
26	Spectrum Portal	A									U
27	Defense Enterprise Wideband Satcom Systems										U
28	Transportable Tactical Command Communications	A									U
29	SHF Term										U
30	Smart-T (SPACE)										U
31	Global Brdcst Svc - GBS										U

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 (Dollars in Thousands)

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
17	Passenger Carrying Vehicles			1,320				1,320	U	
18	Nontactical Vehicles, Other	A		6,964				6,964	U	
Total Tactical and Support Vehicles				1,392,238				1,392,238		
Budget Activity 02: Communications and Electronics Equipment										
Comm - Joint Communications										
19	Win-T - Ground Forces Tactical Network	A		420,492				420,492	U	
20	Signal Modernization Program	A		97,618				97,618	U	
21	Tactical Network Technology Mod In Svc	A		150,497				150,497	U	
22	SITUATION INFORMATION TRANSPORT	A							U	
23	Joint Incident Site Communications Capability	A		6,065				6,065	U	
24	JCSE Equipment (USREDCOM)			5,051				5,051	U	
Comm - Satellite Communications										
25	Spectrum METSAT	A							U	
26	Spectrum Portal	A							U	
27	Defense Enterprise Wideband Satcom Systems			161,383				161,383	U	
28	Transportable Tactical Command Communications	A		62,600				62,600	U	
29	SHF Term			11,622				11,622	U	
30	Smart-T (SPACE)			6,799				6,799	U	
31	Global Brdcst Svc - GBS			7,065				7,065	U	

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
17	Passenger Carrying Vehicles			1,390				1,390	U
18	Nontactical Vehicles, Other	A		15,415				15,415	U
Total Tactical and Support Vehicles				1,908,441		387,229		2,295,670	
Budget Activity 02: Communications and Electronics Equipment									
Comm - Joint Communications									
19	Win-T - Ground Forces Tactical Network	A							U
20	Signal Modernization Program	A		150,777				150,777	U
21	Tactical Network Technology Mod In Svc	A		469,117				469,117	U
22	SITUATION INFORMATION TRANSPORT	A		62,727				62,727	U
23	Joint Incident Site Communications Capability	A		13,895				13,895	U
24	JCSE Equipment (USREDCOM)			4,866				4,866	U
Comm - Satellite Communications									
25	Spectrum METSAT	A							U
26	Spectrum Portal	A							U
27	Defense Enterprise Wideband Satcom Systems			108,133				108,133	U
28	Transportable Tactical Command Communications	A		56,737		7,100		63,837	U
29	SHF Term			13,100				13,100	U
30	Smart-T (SPACE)			9,160				9,160	U
31	Global Brdcst Svc - GBS			25,647				25,647	U

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Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
32	Enroute Mission Command (EMC)	A			21,667		21,667				U
33	Spectrum Microwave			2,299							U
	Comm - Combat Support Comm										
34	Mod-In-Service Profiler	A				70		70			U
	Comm - C3 System										
35	Army Global Cmd & Control Sys (AGCCS)	A		2,530		2,658		2,658			U
36	COE Tactical Server Infrastructure (TSI)	A									U
	Comm - Combat Communications										
37	Joint Tactical Radio System	A									U
38	Handheld Manpack Small Form Fit (HMS)	A		268,122		355,351		355,351			U
39	Mid-Tier Networking Vehicular Radio (MNVR)	A		30,020		25,100		25,100			U
40	Radio Terminal Set, Mids Lvt(2)	A		12,326		11,160		11,160			U
41	Tractor Desk			2,034		2,041		2,041			U
42	Tractor Ride			2,334		5,534		5,534		1,000	U
43	Spider Apla Remote Control Unit	A		1,428		996		996			U
44	Spider Family of Networked Munitions Incr	A		8,796		4,500		4,500			U
45	Tactical Communications and Protective System	A		3,607		4,411		4,411			U
46	Unified Command Suite	A		14,295		15,275		15,275			U
47	COTS Communications Equipment	A									U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
32	Enroute Mission Command (EMC)	A									U
33	Spectrum Microwave Comm - Combat Support Comm										U
34	Mod-In-Service Profiler Comm - C3 System	A									U
35	Army Global Cmd & Control Sys (AGCCS)	A									U
36	COE Tactical Server Infrastructure (TSI) Comm - Combat Communications	A									U
37	Joint Tactical Radio System	A									U
38	Handheld Manpack Small Form Fit (HMS)	A									U
39	Mid-Tier Networking Vehicular Radio (MNVR)	A									U
40	Radio Terminal Set, Mids Lvt(2)	A									U
41	Tractor Desk										U
42	Tractor Ride			1,000							U
43	Spider Apla Remote Control Unit	A									U
44	Spider Family of Networked Munitions Incr	A									U
45	Tactical Communications and Protective System	A									U
46	Unified Command Suite	A									U
47	COTS Communications Equipment	A									U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
32	Enroute Mission Command (EMC)	A		21,667			21,667		U
33	Spectrum Microwave Comm - Combat Support Comm								U
34	Mod-In-Service Profiler Comm - C3 System	A		70			70		U
35	Army Global Cmd & Control Sys (AGCCS)	A		2,658			2,658		U
36	COE Tactical Server Infrastructure (TSI) Comm - Combat Communications	A							U
37	Joint Tactical Radio System	A							U
38	Handheld Manpack Small Form Fit (HMS)	A		355,351			355,351		U
39	Mid-Tier Networking Vehicular Radio (MNVR)	A		25,100			25,100		U
40	Radio Terminal Set, Mids Lvt(2)	A		11,160			11,160		U
41	Tractor Desk			2,041			2,041		U
42	Tractor Ride			6,534			6,534		U
43	Spider Apla Remote Control Unit	A		996			996		U
44	Spider Family of Networked Munitions Incr	A		4,500			4,500		U
45	Tactical Communications and Protective System	A		4,411			4,411		U
46	Unified Command Suite	A		15,275			15,275		U
47	COTS Communications Equipment	A							U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
32	Enroute Mission Command (EMC)	A		37,401			37,401		U
33	Spectrum Microwave Comm - Combat Support Comm								U
34	Mod-In-Service Profiler Comm - C3 System	A							U
35	Army Global Cmd & Control Sys (AGCCS)	A							U
36	COE Tactical Server Infrastructure (TSI) Comm - Combat Communications	A		20,500			20,500		U
37	Joint Tactical Radio System	A				1,560	1,560		U
38	Handheld Manpack Small Form Fit (HMS)	A		351,565			351,565		U
39	Mid-Tier Networking Vehicular Radio (MNVR)	A							U
40	Radio Terminal Set, Mids Lvt(2)	A		4,641			4,641		U
41	Tractor Desk			2,187			2,187		U
42	Tractor Ride			9,411		13,190	22,601		U
43	Spider Apla Remote Control Unit	A							U
44	Spider Family of Networked Munitions Incr	A		17,515			17,515		U
45	Tactical Communications and Protective System	A		819		9,549	10,368		U
46	Unified Command Suite	A		17,807			17,807		U
47	COTS Communications Equipment	A		191,835		22,000	213,835		U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
48	Family of Med Comm for Combat Casualty Care Comm - Intelligence Comm	A		19,893		15,964		15,964			U
50	CI Automation Architecture (MIP)	A		11,438		9,560		9,560			U
51	Defense Military Deception Initiative	A				4,030		4,030			U
52	Army CA/MISO GPF Equipment Information Security	A		5,494							U
53	Family of Biometrics	A		2,978							U
54	Information System Security Program-ISSP	A									U
55	Communications Security (COMSEC)	A		133,284		107,804		107,804			U
56	Defensive CYBER Operations	A		19,329		53,436		53,436			U
57	Insider Threat Program - Unit Activity Monito	A				690		690			U
58	Persistent Cyber Training Environment Comm - Long Haul Communications	A				4,000		4,000			U
59	Base Support Communications Comm - Base Communications			32,852		43,751		43,751			U
60	Information Systems			114,555		118,101		118,101			U
61	Emergency Management Modernization Program	A		4,286		4,490		4,490			U
62	Home Station Mission Command Centers (HSMCC)	A				20,050		20,050			U
63	Installation Info Infrastructure Mod Program	A		147,304		186,251		186,251		2,500	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
48	Family of Med Comm for Combat Casualty Care	A									U
	Comm - Intelligence Comm										
50	CI Automation Architecture (MIP)	A									U
51	Defense Military Deception Initiative	A									U
52	Army CA/MISO GPF Equipment	A									U
	Information Security										
53	Family of Biometrics	A									U
54	Information System Security Program-ISSP	A									U
55	Communications Security (COMSEC)	A									U
56	Defensive CYBER Operations	A									U
57	Insider Threat Program - Unit Activity Monito	A									U
58	Persistent Cyber Training Environment	A									U
	Comm - Long Haul Communications										
59	Base Support Communications										U
	Comm - Base Communications										
60	Information Systems										U
61	Emergency Management Modernization Program	A									U
62	Home Station Mission Command Centers (HSMCC)	A									U
63	Installation Info Infrastructure Mod Program	A		2,500							U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
48	Family of Med Comm for Combat Casualty Care	A		15,964			15,964		U
	Comm - Intelligence Comm								
50	CI Automation Architecture (MIP)	A		9,560			9,560		U
51	Defense Military Deception Initiative	A		4,030			4,030		U
52	Army CA/MISO GPF Equipment	A							U
	Information Security								
53	Family of Biometrics	A							U
54	Information System Security Program-ISSP	A							U
55	Communications Security (COMSEC)	A		107,804			107,804		U
56	Defensive CYBER Operations	A		53,436			53,436		U
57	Insider Threat Program - Unit Activity Monito	A		690			690		U
58	Persistent Cyber Training Environment	A		4,000			4,000		U
	Comm - Long Haul Communications								
59	Base Support Communications			43,751			43,751		U
	Comm - Base Communications								
60	Information Systems			118,101			118,101		U
61	Emergency Management Modernization Program	A		4,490			4,490		U
62	Home Station Mission Command Centers (HSMCC)	A		20,050			20,050		U
63	Installation Info Infrastructure Mod Program	A		188,751			188,751		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
48	Family of Med Comm for Combat Casualty Care Comm - Intelligence Comm	A		25,177				25,177	U
50	CI Automation Architecture (MIP)	A		9,740		9,800		19,540	U
51	Defense Military Deception Initiative	A		2,667				2,667	U
52	Army CA/MISO GPF Equipment Information Security	A							U
53	Family of Biometrics	A		8,319				8,319	U
54	Information System Security Program-ISSP	A		2,000				2,000	U
55	Communications Security (COMSEC)	A		88,337		3		88,340	U
56	Defensive CYBER Operations	A		51,343				51,343	U
57	Insider Threat Program - Unit Activity Monito	A		330				330	U
58	Persistent Cyber Training Environment Comm - Long Haul Communications	A		3,000				3,000	U
59	Base Support Communications Comm - Base Communications			34,434		690		35,124	U
60	Information Systems			95,558		8,750		104,308	U
61	Emergency Management Modernization Program	A		4,736				4,736	U
62	Home Station Mission Command Centers (HSMCC)	A		24,479				24,479	U
63	Installation Info Infrastructure Mod Program	A		216,433		60,337		276,770	U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tact Int Rel Act (TIARA)											
66	JTT/CIBS-M (MIP)	B		5,337		12,154		12,154			U
67	Drug Interdiction Program (Dip) (TIARA)			35,972							U
68	DCGS-A (MIP)			273,246		274,782		274,782		39,515	U
69	Joint Tactical Ground Station (JTAGS) (MIP)	A		4,417							U
70	Trojan (MIP)	B		29,680		16,052		16,052		21,310	U
71	Mod of In-Svc Equip (Intel Spt) (MIP)			50,405		51,034		51,034		2,300	U
72	CI HUMINT Auto Reprting & Coll (CHARCS) (MIP)			14,891		7,815		7,815		14,460	U
73	Close Access Target Reconnaissance (CATR)			7,970		8,050		8,050			U
74	Machine Foreign Language Translation System-M	A		545		567		567			U
75	Biometric Tactical Collection Devices (MIP)	A		6,804						5,180	U
76	Items Less Than \$5.0M (MIP)										U
Elect Equip - Electronic Warfare (EW)											
77	Lightweight Counter Mortar Radar	A		125,145		20,459		20,459			U
78	EW Planning & Management Tools (EWPMT)	A		3,235		5,805		5,805			U
79	Air Vigilance (AV) (MIP)	A		733		5,348		5,348			U
80	Crew										U
81	Family of Persistent Surveillance Cap. (MIP)	A		34,541						16,935	U
82	Counterintelligence/Security Countermeasures			24,345		469		469		18,874	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tact Int Rel Act (TIARA)											
66	JTT/CIBS-M (MIP)	B									U
67	Drug Interdiction Program (Dip) (TIARA)										U
68	DCGS-A (MIP)			39,515							U
69	Joint Tactical Ground Station (JTAGS) (MIP)	A									U
70	Trojan (MIP)	B		21,310							U
71	Mod of In-Svc Equip (Intel Spt) (MIP)			2,300							U
72	CI HUMINT Auto Reprting & Coll(CHARCS) (MIP)			14,460							U
73	Close Access Target Reconnaissance (CATR)										U
74	Machine Foreign Language Translation System-M	A									U
75	Biometric Tactical Collection Devices (MIP)	A		5,180							U
76	Items Less Than \$5.0M (MIP)										U
Elect Equip - Electronic Warfare (EW)											
77	Lightweight Counter Mortar Radar	A									U
78	EW Planning & Management Tools (EWPMT)	A									U
79	Air Vigilance (AV) (MIP)	A									U
80	Crew										U
81	Family of Persistent Surveillance Cap. (MIP)	A		16,935							U
82	Counterintelligence/Security Countermeasures			18,874							U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tact Int Rel Act (TIARA)									
66	JTT/CIBS-M (MIP)	B		12,154			12,154		U
67	Drug Interdiction Program (Dip) (TIARA)								U
68	DCGS-A (MIP)			314,297			314,297		U
69	Joint Tactical Ground Station (JTAGS) (MIP)	A							U
70	Trojan (MIP)	B		37,362			37,362		U
71	Mod of In-Svc Equip (Intel Spt) (MIP)			53,334			53,334		U
72	CI HUMINT Auto Reprting & Coll(CHARCS) (MIP)			22,275			22,275		U
73	Close Access Target Reconnaissance (CATR)			8,050			8,050		U
74	Machine Foreign Language Translation System-M	A		567			567		U
75	Biometric Tactical Collection Devices (MIP)	A		5,180			5,180		U
76	Items Less Than \$5.0M (MIP)								U
Elect Equip - Electronic Warfare (EW)									
77	Lightweight Counter Mortar Radar	A		20,459			20,459		U
78	EW Planning & Management Tools (EWPMT)	A		5,805			5,805		U
79	Air Vigilance (AV) (MIP)	A		5,348			5,348		U
80	Crew								U
81	Family of Persistent Surveillance Cap. (MIP)	A		16,935			16,935		U
82	Counterintelligence/Security Countermeasures			19,343			19,343		U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tact Int Rel Act (TIARA)									
66	JTT/CIBS-M (MIP)	B		10,268			10,268		U
67	Drug Interdiction Program (Dip) (TIARA)								U
68	DCGS-A (MIP)			261,863		37,806	299,669		U
69	Joint Tactical Ground Station (JTAGS) (MIP)	A		5,434			5,434		U
70	Trojan (MIP)	B		20,623		6,926	27,549		U
71	Mod of In-Svc Equip (Intel Spt) (MIP)			45,998		2,011	48,009		U
72	CI HUMINT Auto Reprting & Coll(CHARCS) (MIP)			296			296		U
73	Close Access Target Reconnaissance (CATR)								U
74	Machine Foreign Language Translation System-M	A							U
75	Biometric Tactical Collection Devices (MIP)	A				5,370	5,370		U
76	Items Less Than \$5.0M (MIP)			410			410		U
Elect Equip - Electronic Warfare (EW)									
77	Lightweight Counter Mortar Radar	A		9,165			9,165		U
78	EW Planning & Management Tools (EWPMT)	A		5,875			5,875		U
79	Air Vigilance (AV) (MIP)	A		8,497			8,497		U
80	Crew					42,651	42,651		U
81	Family of Persistent Surveillance Cap. (MIP)	A				20,050	20,050		U
82	Counterintelligence/Security Countermeasures					12,974	12,974		U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
83	CI Modernization (MIP)	A		176		285		285			U
	Elect Equip - Tactical Surv. (Tac Surv)										
84	Sentinel Mods			40,171		28,491		28,491			U
85	Night Vision Devices	A		152,170		166,493		166,493		377	U
86	Long Range Advanced Scout Surveillance System										U
87	Small Tactical Optical Rifle Mounted MLRF			18,843		13,947		13,947		60	U
88	Radiation Monitoring Systems										U
89	Base Expeditary Targeting and Surv Sys	A		82,590							U
90	Indirect Fire Protection Family of Systems	A		237,337		21,380		21,380		57,500	U
91	Family of Weapon Sights (FWS)	A		49,536		59,105		59,105			U
92	Artillery Accuracy Equip			4,187		2,129		2,129			U
93	Profiler										U
94	Joint Battle Command - Platform (JBC-P)	A		227,573		282,549		282,549			U
95	Joint Effects Targeting System (JETS)			48,375		48,664		48,664			U
96	Mod of In-Svc Equip (LLDR)	A		28,058		5,198		5,198		3,974	U
97	Computer Ballistics: LHMBC XM32	A		5,924		8,117		8,117			U
98	Mortar Fire Control System			24,903		31,813		31,813		2,947	U
99	Counterfire Radars			297,509		329,057		329,057			U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
83	CI Modernization (MIP)	A									U
	Elect Equip - Tactical Surv. (Tac Surv)										
84	Sentinel Mods										U
85	Night Vision Devices	A		377							U
86	Long Range Advanced Scout Surveillance System										U
87	Small Tactical Optical Rifle Mounted MLRF			60							U
88	Radiation Monitoring Systems										U
89	Base Expeditary Targeting and Surv Sys	A									U
90	Indirect Fire Protection Family of Systems	A		57,500							U
91	Family of Weapon Sights (FWS)	A									U
92	Artillery Accuracy Equip										U
93	Profiler										U
94	Joint Battle Command - Platform (JBC-P)	A									U
95	Joint Effects Targeting System (JETS)										U
96	Mod of In-Svc Equip (LLDR)	A		3,974							U
97	Computer Ballistics: LHMBC XM32	A									U
98	Mortar Fire Control System			2,947							U
99	Counterfire Radars										U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
83	CI Modernization (MIP)	A		285			285		U
	Elect Equip - Tactical Surv. (Tac Surv)								
84	Sentinel Mods			28,491			28,491		U
85	Night Vision Devices	A		166,870			166,870		U
86	Long Range Advanced Scout Surveillance System								U
87	Small Tactical Optical Rifle Mounted MLRF			14,007			14,007		U
88	Radiation Monitoring Systems								U
89	Base Expeditary Targeting and Surv Sys	A							U
90	Indirect Fire Protection Family of Systems	A		78,880			78,880		U
91	Family of Weapon Sights (FWS)	A		59,105			59,105		U
92	Artillery Accuracy Equip			2,129			2,129		U
93	Profiler								U
94	Joint Battle Command - Platform (JBC-P)	A		282,549			282,549		U
95	Joint Effects Targeting System (JETS)			48,664			48,664		U
96	Mod of In-Svc Equip (LLDR)	A		9,172			9,172		U
97	Computer Ballistics: LHMBC XM32	A		8,117			8,117		U
98	Mortar Fire Control System			34,760			34,760		U
99	Counterfire Radars			329,057			329,057		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
83	CI Modernization (MIP)	A		486			486		U
	Elect Equip - Tactical Surv. (Tac Surv)								
84	Sentinel Mods			79,629			79,629		U
85	Night Vision Devices	A		153,180		463	153,643		U
86	Long Range Advanced Scout Surveillance System					2,861	2,861		U
87	Small Tactical Optical Rifle Mounted MLRF			22,882		60	22,942		U
88	Radiation Monitoring Systems			17,393		11	17,404		U
89	Base Expeditary Targeting and Surv Sys	A							U
90	Indirect Fire Protection Family of Systems	A		46,740		251,062	297,802		U
91	Family of Weapon Sights (FWS)	A		140,737		525	141,262		U
92	Artillery Accuracy Equip								U
93	Profiler			171			171		U
94	Joint Battle Command - Platform (JBC-P)	A		405,239		26,146	431,385		U
95	Joint Effects Targeting System (JETS)			66,574			66,574		U
96	Mod of In-Svc Equip (LLDR)	A		20,783		4,050	24,833		U
97	Computer Ballistics: LHMBC XM32	A		8,553		960	9,513		U
98	Mortar Fire Control System			21,489		7,660	29,149		U
99	Counterfire Radars			162,121		165,200	327,321		U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tactical C2 Systems											
100	Army Command Post Integrated Infrastructure (	A									U
101	Fire Support C2 Family	A		8,907		8,700		8,700			U
102	AIR & MSL Defense Planning & Control Sys			126,539		26,635		26,635		9,100	U
103	Life Cycle Software Support (LCSS)			4,718		1,992		1,992			U
104	Network Management Initialization and Service	A		11,063		15,179		15,179			U
105	Maneuver Control System (MCS)	A		151,464		132,572		132,572			U
106	Global Combat Support System-Army (GCSS-A)	A		131,839		37,201		37,201			U
107	Integrated Personnel and Pay System-Army (IPP)	A		4,214		16,140		16,140			U
108	Logistics Automation	A		23,821							U
109	Reconnaissance and Surveying Instrument Set	A		16,185		6,093		6,093			U
110	Mod of In-Svc Equipment (ENFIRE)	A		1,565		1,134		1,134			U
Elect Equip - Automation											
111	Army Training Modernization			17,693		11,575		11,575			U
112	Automated Data Processing Equip			146,480		91,983		91,983			U
113	General Fund Enterprise Business Systems Fam	A		6,416		4,465		4,465			U
114	High Perf Computing Mod Pgm (HPCMP)	A		58,614		66,363		66,363			U
115	Contract Writing System	A		789		1,001		1,001			U
116	Reserve Component Automation Sys (RCAS)			23,828		26,183		26,183			U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tactical C2 Systems											
100	Army Command Post Integrated Infrastructure (	A									U
101	Fire Support C2 Family	A									U
102	AIR & MSL Defense Planning & Control Sys			9,100							U
103	Life Cycle Software Support (LCSS)										U
104	Network Management Initialization and Service	A									U
105	Maneuver Control System (MCS)	A									U
106	Global Combat Support System-Army (GCSS-A)	A									U
107	Integrated Personnel and Pay System-Army (IPP)	A									U
108	Logistics Automation	A									U
109	Reconnaissance and Surveying Instrument Set	A									U
110	Mod of In-Svc Equipment (ENFIRE)	A									U
Elect Equip - Automation											
111	Army Training Modernization										U
112	Automated Data Processing Equip										U
113	General Fund Enterprise Business Systems Fam	A									U
114	High Perf Computing Mod Pgm (HPCMP)	A									U
115	Contract Writing System	A									U
116	Reserve Component Automation Sys (RCAS)										U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tactical C2 Systems									
100	Army Command Post Integrated Infrastructure (	A							U
101	Fire Support C2 Family	A		8,700			8,700		U
102	AIR & MSL Defense Planning & Control Sys			35,735			35,735		U
103	Life Cycle Software Support (LCSS)			1,992			1,992		U
104	Network Management Initialization and Service	A		15,179			15,179		U
105	Maneuver Control System (MCS)	A		132,572			132,572		U
106	Global Combat Support System-Army (GCSS-A)	A		37,201			37,201		U
107	Integrated Personnel and Pay System-Army (IPP)	A		16,140			16,140		U
108	Logistics Automation	A							U
109	Reconnaissance and Surveying Instrument Set	A		6,093			6,093		U
110	Mod of In-Svc Equipment (ENFIRE)	A		1,134			1,134		U
Elect Equip - Automation									
111	Army Training Modernization			11,575			11,575		U
112	Automated Data Processing Equip			91,983			91,983		U
113	General Fund Enterprise Business Systems Fam	A		4,465			4,465		U
114	High Perf Computing Mod Pgm (HPCMP)	A		66,363			66,363		U
115	Contract Writing System	A		1,001			1,001		U
116	Reserve Component Automation Sys (RCAS)			26,183			26,183		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Elect Equip - Tactical C2 Systems									
100	Army Command Post Integrated Infrastructure (	A		2,855				2,855	U
101	Fire Support C2 Family	A		19,153				19,153	U
102	AIR & MSL Defense Planning & Control Sys			33,837				33,837	U
103	Life Cycle Software Support (LCSS)			5,136				5,136	U
104	Network Management Initialization and Service	A		18,329				18,329	U
105	Maneuver Control System (MCS)	A		38,015				38,015	U
106	Global Combat Support System-Army (GCSS-A)	A		15,164				15,164	U
107	Integrated Personnel and Pay System-Army (IPP	A		29,239				29,239	U
108	Logistics Automation	A							U
109	Reconnaissance and Surveying Instrument Set	A		6,823				6,823	U
110	Mod of In-Svc Equipment (ENFIRE)	A		1,177				1,177	U
Elect Equip - Automation									
111	Army Training Modernization			12,265				12,265	U
112	Automated Data Processing Equip			201,875		28,475		230,350	U
113	General Fund Enterprise Business Systems Fam	A		10,976				10,976	U
114	High Perf Computing Mod Pgm (HPCMP)	A		66,330				66,330	U
115	Contract Writing System	A		5,927				5,927	U
116	Reserve Component Automation Sys (RCAS)			27,896				27,896	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
	Elect Equip - Audio Visual Sys (A/V)										
117	Tactical Digital Media	A		1,391		4,441		4,441			U
118	Items Less Than \$5M (Surveying Equipment)			2,509		3,414		3,414			U
	Elect Equip - Support										
119	Production Base Support (C-E)			403		499		499			U
120	BCT Emerging Technologies	A		1,750		25,050		25,050			U
999	Classified Programs			4,436		4,819		4,819			U
	Total Communications and Electronics Equipment			4,255,899		3,826,384		3,826,384		200,932	
	<u>Budget Activity 03: Other Support Equipment</u>										
	Chemical Defensive Equipment										
121	Protective Systems	A		2,966		1,613		1,613			U
122	Family of Non-Lethal Equipment (FNLE)	A		9,795		9,696		9,696			U
123	Base Defense Systems (BDS)	A		26,572						3,726	U
124	CBRN Defense	A		47,743		11,110		11,110			U
	Bridging Equipment										
125	Tactical Bridging			37,500		16,610		16,610			U
126	Tactical Bridge, Float-Ribbon			27,297		21,761		21,761			U
127	Common Bridge Transporter (CBT) Recap	A		25,176		21,046		21,046			U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
	Elect Equip - Audio Visual Sys (A/V)										
117	Tactical Digital Media	A									U
118	Items Less Than \$5M (Surveying Equipment)										U
	Elect Equip - Support										
119	Production Base Support (C-E)										U
120	BCT Emerging Technologies	A									U
999	Classified Programs										U
	Total Communications and Electronics Equipment			200,932							
	Budget Activity 03: Other Support Equipment										
	Chemical Defensive Equipment										
121	Protective Systems	A									U
122	Family of Non-Lethal Equipment (FNLE)	A									U
123	Base Defense Systems (BDS)	A		3,726							U
124	CBRN Defense	A									U
	Bridging Equipment										
125	Tactical Bridging										U
126	Tactical Bridge, Float-Ribbon										U
127	Common Bridge Transporter (CBT) Recap	A									U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
	Elect Equip - Audio Visual Sys (A/V)								
117	Tactical Digital Media	A		4,441			4,441		U
118	Items Less Than \$5M (Surveying Equipment)			3,414			3,414		U
	Elect Equip - Support								
119	Production Base Support (C-E)			499			499		U
120	BCT Emerging Technologies	A		25,050			25,050		U
999	Classified Programs			4,819			4,819		U
	Total Communications and Electronics Equipment			4,027,316			4,027,316		
	Budget Activity 03: Other Support Equipment								
	Chemical Defensive Equipment								
121	Protective Systems	A		1,613			1,613		U
122	Family of Non-Lethal Equipment (FNLE)	A		9,696			9,696		U
123	Base Defense Systems (BDS)	A		3,726			3,726		U
124	CBRN Defense	A		11,110			11,110		U
	Bridging Equipment								
125	Tactical Bridging			16,610			16,610		U
126	Tactical Bridge, Float-Ribbon			21,761			21,761		U
127	Common Bridge Transporter (CBT) Recap	A		21,046			21,046		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
	Elect Equip - Audio Visual Sys (A/V)								
117	Tactical Digital Media	A		4,392			4,392		U
118	Items Less Than \$5M (Surveying Equipment)			1,970			1,970		U
	Elect Equip - Support								
119	Production Base Support (C-E)			506			506		U
120	BCT Emerging Technologies	A							U
999	Classified Programs			4,501			4,501		U
	Total Communications and Electronics Equipment			4,155,165		748,240	4,903,405		
	Budget Activity 03: Other Support Equipment								
	Chemical Defensive Equipment								
121	Protective Systems	A		2,314		27	2,341		U
122	Family of Non-Lethal Equipment (FNLE)	A		7,478		20,200	27,678		U
123	Base Defense Systems (BDS)	A				39,200	39,200		U
124	CBRN Defense	A		173,954		2,317	176,271		U
	Bridging Equipment								
125	Tactical Bridging			98,229			98,229		U
126	Tactical Bridge, Float-Ribbon			64,438			64,438		U
127	Common Bridge Transporter (CBT) Recap	A		79,916			79,916		U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Engineer (Non-Construction) Equipment											
128	Handheld Standoff Minefield Detection Sys-Hst	B			5,000		5,000				U
129	Grnd Standoff Mine Detectn Sysm (GSTAMIDS)			39,350		32,442		32,442			U
130	Area Mine Detection System (AMDS)	A		10,500		10,571		10,571			U
131	Husky Mounted Detection System (HMDS)	A		274		21,695		21,695			U
132	Robotic Combat Support System (RCSS)			3,531		4,516		4,516			U
133	EOD Robotics Systems Recapitalization	A		1,949		10,073		10,073			U
134	Robotics and Applique Systems			5,515		3,000		3,000			U
135	Explosive Ordnance Disposal Eqpmt (EOD EQPMT)			4,547							U
136	Remote Demolition Systems	A		5,238		5,847		5,847			U
137	< \$5m, Countermining Equipment	A		836		1,530		1,530			U
138	Family of Boats and Motors	A		3,567		4,302		4,302			U
Combat Service Support Equipment											
139	Heaters and ECU'S	A		18,601		7,405		7,405		270	U
140	Soldier Enhancement			2,112		1,095		1,095			U
141	Personnel Recovery Support System (PRSS)	A		10,856		5,390		5,390			U
142	Ground Soldier System	A		32,419		38,219		38,219			U
143	Mobile Soldier Power	A		22,014		10,456		10,456			U
144	Force Provider	A		53,800							U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Engineer (Non-Construction) Equipment											
128	Handheld Standoff Minefield Detection Sys-Hst	B									U
129	Grnd Standoff Mine Detectn Sysm (GSTAMIDS)										U
130	Area Mine Detection System (AMDS)	A									U
131	Husky Mounted Detection System (HMDS)	A									U
132	Robotic Combat Support System (RCSS)										U
133	EOD Robotics Systems Recapitalization	A									U
134	Robotics and Applique Systems										U
135	Explosive Ordnance Disposal Eqpmt (EOD EQPMT)										U
136	Remote Demolition Systems	A									U
137	< \$5m, Countermine Equipment	A									U
138	Family of Boats and Motors	A									U
Combat Service Support Equipment											
139	Heaters and ECU'S	A		270							U
140	Soldier Enhancement										U
141	Personnel Recovery Support System (PRSS)	A									U
142	Ground Soldier System	A									U
143	Mobile Soldier Power	A									U
144	Force Provider	A									U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Engineer (Non-Construction) Equipment									
128	Handheld Standoff Minefield Detection Sys-Hst	B		5,000			5,000		U
129	Grnd Standoff Mine Detectn Systm (GSTAMIDS)			32,442			32,442		U
130	Area Mine Detection System (AMDS)	A		10,571			10,571		U
131	Husky Mounted Detection System (HMDS)	A		21,695			21,695		U
132	Robotic Combat Support System (RCSS)			4,516			4,516		U
133	EOD Robotics Systems Recapitalization	A		10,073			10,073		U
134	Robotics and Applique Systems			3,000			3,000		U
135	Explosive Ordnance Disposal Eqpmt (EOD EQPMT)								U
136	Remote Demolition Systems	A		5,847			5,847		U
137	< \$5m, Countermine Equipment	A		1,530			1,530		U
138	Family of Boats and Motors	A		4,302			4,302		U
Combat Service Support Equipment									
139	Heaters and ECU'S	A		7,675			7,675		U
140	Soldier Enhancement			1,095			1,095		U
141	Personnel Recovery Support System (PRSS)	A		5,390			5,390		U
142	Ground Soldier System	A		38,219			38,219		U
143	Mobile Soldier Power	A		10,456			10,456		U
144	Force Provider	A							U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Engineer (Non-Construction) Equipment									
128	Handheld Standoff Minefield Detection Sys-Hst	B		8,471				8,471	U
129	Grnd Standoff Mine Detectn Sysm (GSTAMIDS)			29,883		16,000		45,883	U
130	Area Mine Detection System (AMDS)	A		11,594		1		11,595	U
131	Husky Mounted Detection System (HMDS)	A		40,834				40,834	U
132	Robotic Combat Support System (RCSS)			4,029		4,850		8,879	U
133	EOD Robotics Systems Recapitalization	A		14,208				14,208	U
134	Robotics and Applique Systems			31,456				31,456	U
135	Explosive Ordnance Disposal Eqpmt (EOD EQPMT)								U
136	Remote Demolition Systems	A		1,748		1		1,749	U
137	< \$5m, Countermine Equipment	A		7,829				7,829	U
138	Family of Boats and Motors	A		5,806				5,806	U
Combat Service Support Equipment									
139	Heaters and ECU'S	A		9,852		270		10,122	U
140	Soldier Enhancement			1,103				1,103	U
141	Personnel Recovery Support System (PRSS)	A		5,875		4,300		10,175	U
142	Ground Soldier System	A		92,487		1,725		94,212	U
143	Mobile Soldier Power	A		30,774				30,774	U
144	Force Provider	A				55,800		55,800	U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
145	Field Feeding Equipment			15,209		15,340		15,340		145	U
146	Cargo Aerial Del & Personnel Parachute System			20,909		30,607		30,607		1,980	U
147	Family of Engr Combat and Construction Sets	A		36,809		10,426		10,426			U
148	Items Less Than \$5M (Eng Spt)	A		300							U
	Petroleum Equipment										
149	Quality Surveillance Equipment	A		8,207		6,903		6,903			U
150	Distribution Systems, Petroleum & Water			113,896		47,597		47,597			U
	Medical Equipment										
151	Combat Support Medical			75,524		43,343		43,343		25,690	U
	Maintenance Equipment										
152	Mobile Maintenance Equipment Systems	A		35,159		33,774		33,774		1,124	U
153	Items Less Than \$5.0M (Maint Eq)	A		3,404		2,728		2,728			U
	Construction Equipment										
154	Grader, Road Mtzd, Hvy, 6x4 (CCE)	A		4,789		989		989			U
155	Scrapers, Earthmoving	A		26,233		11,180		11,180			U
156	Hydraulic Excavator	B		1,123						3,850	U
157	Tractor, Full Tracked	A		5,311							U
158	All Terrain Cranes	A		67,790		8,935		8,935			U
159	High Mobility Engineer Excavator (HMEE)	A		20,563		64,339		64,339		1,932	U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
145	Field Feeding Equipment			145							U
146	Cargo Aerial Del & Personnel Parachute System			1,980							U
147	Family of Engr Combat and Construction Sets	A									U
148	Items Less Than \$5M (Eng Spt)	A									U
	Petroleum Equipment										
149	Quality Surveillance Equipment	A									U
150	Distribution Systems, Petroleum & Water										U
	Medical Equipment										
151	Combat Support Medical			25,690							U
	Maintenance Equipment										
152	Mobile Maintenance Equipment Systems	A		1,124							U
153	Items Less Than \$5.0M (Maint Eq)	A									U
	Construction Equipment										
154	Grader, Road Mtzd, Hvy, 6x4 (CCE)	A									U
155	Scrapers, Earthmoving	A									U
156	Hydraulic Excavator	B		3,850							U
157	Tractor, Full Tracked	A									U
158	All Terrain Cranes	A									U
159	High Mobility Engineer Excavator (HMEE)	A		1,932							U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
145	Field Feeding Equipment			15,485			15,485		U
146	Cargo Aerial Del & Personnel Parachute System			32,587			32,587		U
147	Family of Engr Combat and Construction Sets	A		10,426			10,426		U
148	Items Less Than \$5M (Eng Spt)	A							U
	Petroleum Equipment								
149	Quality Surveillance Equipment	A		6,903			6,903		U
150	Distribution Systems, Petroleum & Water			47,597			47,597		U
	Medical Equipment								
151	Combat Support Medical			69,033			69,033		U
	Maintenance Equipment								
152	Mobile Maintenance Equipment Systems	A		34,898			34,898		U
153	Items Less Than \$5.0M (Maint Eq)	A		2,728			2,728		U
	Construction Equipment								
154	Grader, Road Mtzd, Hvy, 6x4 (CCE)	A		989			989		U
155	Scrapers, Earthmoving	A		11,180			11,180		U
156	Hydraulic Excavator	B		3,850			3,850		U
157	Tractor, Full Tracked	A							U
158	All Terrain Cranes	A		8,935			8,935		U
159	High Mobility Engineer Excavator (HMEE)	A		66,271			66,271		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
145	Field Feeding Equipment			17,521		1,035		18,556	U	
146	Cargo Aerial Del & Personnel Parachute System			44,855		1,980		46,835	U	
147	Family of Engr Combat and Construction Sets	A		17,173				17,173	U	
148	Items Less Than \$5M (Eng Spt)	A		2,000				2,000	U	
	Petroleum Equipment									
149	Quality Surveillance Equipment	A		1,770				1,770	U	
150	Distribution Systems, Petroleum & Water			39,730				39,730	U	
	Medical Equipment									
151	Combat Support Medical			57,752		17,527		75,279	U	
	Maintenance Equipment									
152	Mobile Maintenance Equipment Systems	A		37,722				37,722	U	
153	Items Less Than \$5.0M (Maint Eq)	A		4,985		268		5,253	U	
	Construction Equipment									
154	Grader, Road Mtzd, Hvy, 6x4 (CCE)	A							U	
155	Scrapers, Earthmoving	A		7,961				7,961	U	
156	Hydraulic Excavator	B		1,355				1,355	U	
157	Tractor, Full Tracked	A							U	
158	All Terrain Cranes	A		13,031				13,031	U	
159	High Mobility Engineer Excavator (HMEE)	A		46,048		25,700		71,748	U	

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
160	Enhanced Rapid Airfield Construction Capap	B		2,779		2,563		2,563			U
161	Const Equip Esp			15,338		19,032		19,032			U
162	Items Less Than \$5.0M (Const Equip)	A		8,075		6,899		6,899			U
	Rail Float Containerization Equipment										
163	Army Watercraft Esp	A		21,860		20,110		20,110			U
164	Items Less Than \$5.0M (Float/Rail)	A		1,967		2,877		2,877			U
	Generators										
165	Generators and Associated Equip	A		132,391		115,635		115,635		569	U
166	Tactical Electric Power Recapitalization	A		7,867		7,436		7,436			U
	Material Handling Equipment										
167	Family of Forklifts	A		3,153		9,000		9,000			U
	Training Equipment										
168	Combat Training Centers Support			75,359		88,888		88,888			U
169	Training Devices, Nonsystem			253,050		285,989		285,989		2,700	U
170	Close Combat Tactical Trainer	A		47,962		45,718		45,718			U
171	Aviation Combined Arms Tactical Trainer			38,000		30,568		30,568			U
172	Gaming Technology In Support of Army Training			13,852		5,406		5,406			U
	Test Measure and Dig Equipment (TMD)										
173	Calibration Sets Equipment			4,963		5,564		5,564			U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
160	Enhanced Rapid Airfield Construction Capap	B									U
161	Const Equip Esp										U
162	Items Less Than \$5.0M (Const Equip)	A									U
	Rail Float Containerization Equipment										
163	Army Watercraft Esp	A									U
164	Items Less Than \$5.0M (Float/Rail)	A									U
	Generators										
165	Generators and Associated Equip	A		569							U
166	Tactical Electric Power Recapitalization	A									U
	Material Handling Equipment										
167	Family of Forklifts	A									U
	Training Equipment										
168	Combat Training Centers Support										U
169	Training Devices, Nonsystem			2,700							U
170	Close Combat Tactical Trainer	A									U
171	Aviation Combined Arms Tactical Trainer										U
172	Gaming Technology In Support of Army Training										U
	Test Measure and Dig Equipment (TMD)										
173	Calibration Sets Equipment										U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total		FY 2018 Less Enacted		FY 2018 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
160	Enhanced Rapid Airfield Construction Capap	B		2,563			2,563		U
161	Const Equip Esp			19,032			19,032		U
162	Items Less Than \$5.0M (Const Equip)	A		6,899			6,899		U
	Rail Float Containerization Equipment								
163	Army Watercraft Esp	A		20,110			20,110		U
164	Items Less Than \$5.0M (Float/Rail)	A		2,877			2,877		U
	Generators								
165	Generators and Associated Equip	A		116,204			116,204		U
166	Tactical Electric Power Recapitalization	A		7,436			7,436		U
	Material Handling Equipment								
167	Family of Forklifts	A		9,000			9,000		U
	Training Equipment								
168	Combat Training Centers Support			88,888			88,888		U
169	Training Devices, Nonsystem			288,689			288,689		U
170	Close Combat Tactical Trainer	A		45,718			45,718		U
171	Aviation Combined Arms Tactical Trainer			30,568			30,568		U
172	Gaming Technology In Support of Army Training			5,406			5,406		U
	Test Measure and Dig Equipment (TMD)								
173	Calibration Sets Equipment			5,564			5,564		U

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
160	Enhanced Rapid Airfield Construction Capap	B		980			980		U
161	Const Equip Esp			37,017			37,017		U
162	Items Less Than \$5.0M (Const Equip)	A		6,103			6,103		U
	Rail Float Containerization Equipment								
163	Army Watercraft Esp	A		27,711			27,711		U
164	Items Less Than \$5.0M (Float/Rail)	A		8,385			8,385		U
	Generators								
165	Generators and Associated Equip	A		133,772		569	134,341		U
166	Tactical Electric Power Recapitalization	A		8,333			8,333		U
	Material Handling Equipment								
167	Family of Forklifts	A		12,901			12,901		U
	Training Equipment								
168	Combat Training Centers Support			123,228			123,228		U
169	Training Devices, Nonsystem			228,598			228,598		U
170	Close Combat Tactical Trainer	A		33,080			33,080		U
171	Aviation Combined Arms Tactical Trainer			32,700			32,700		U
172	Gaming Technology In Support of Army Training			25,161			25,161		U
	Test Measure and Dig Equipment (TMD)								
173	Calibration Sets Equipment			4,270			4,270		U

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
174	Integrated Family of Test Equipment (IFTE)			35,737		30,144		30,144		7,500	U
175	Test Equipment Modernization (TEMOD)			7,482		7,771		7,771			U
	Other Support Equipment										
176	M25 Stabilized Binocular	A		3,149		3,956		3,956			U
177	Rapid Equipping Soldier Support Equipment	A		30,503		5,000		5,000		8,500	U
178	Physical Security Systems (OPA3)	A		44,082		60,047		60,047			U
179	Base Level Common Equipment			2,168		13,239		13,239			U
180	Modification of In-Svc Equipment (OPA-3)			80,438		60,192		60,192			U
181	Production Base Support (OTH)			1,528		2,271		2,271			U
182	Special Equipment for User Testing			14,289		5,319		5,319			U
183	Tractor Yard			6,888		5,935		5,935			U
	Total Other Support Equipment			1,680,264		1,359,097		1,359,097		57,986	
	<u>Budget Activity 04: Spare and Repair Parts</u>										
	OPA2										
184	Initial Spares - C&E			26,650		38,269		38,269			U
	Total Spare and Repair Parts			26,650		38,269		38,269			

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
174	Integrated Family of Test Equipment (IFTE)			7,500							U
175	Test Equipment Modernization (TEMOD)										U
	Other Support Equipment										
176	M25 Stabilized Binocular	A									U
177	Rapid Equipping Soldier Support Equipment	A		8,500							U
178	Physical Security Systems (OPA3)	A									U
179	Base Level Common Equipment										U
180	Modification of In-Svc Equipment (OPA-3)										U
181	Production Base Support (OTH)										U
182	Special Equipment for User Testing										U
183	Tractor Yard										U
	Total Other Support Equipment			57,986							
	Budget Activity 04: Spare and Repair Parts										
	OPA2										
184	Initial Spares - C&E										U
	Total Spare and Repair Parts										

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
174	Integrated Family of Test Equipment (IFTE)			37,644			37,644		U
175	Test Equipment Modernization (TEMOD)			7,771			7,771		U
	Other Support Equipment								
176	M25 Stabilized Binocular	A		3,956			3,956		U
177	Rapid Equipping Soldier Support Equipment	A		13,500			13,500		U
178	Physical Security Systems (OPA3)	A		60,047			60,047		U
179	Base Level Common Equipment			13,239			13,239		U
180	Modification of In-Svc Equipment (OPA-3)			60,192			60,192		U
181	Production Base Support (OTH)			2,271			2,271		U
182	Special Equipment for User Testing			5,319			5,319		U
183	Tractor Yard			5,935			5,935		U
	Total Other Support Equipment			1,417,083			1,417,083		
	Budget Activity 04: Spare and Repair Parts								
	OPA2								
184	Initial Spares - C&E			38,269			38,269		U
	Total Spare and Repair Parts			38,269			38,269		

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
174	Integrated Family of Test Equipment (IFTE)			76,295		9,495		85,790	U
175	Test Equipment Modernization (TEMOD)			9,806				9,806	U
	Other Support Equipment								
176	M25 Stabilized Binocular	A		4,368		33		4,401	U
177	Rapid Equipping Soldier Support Equipment	A		9,879		18,000		27,879	U
178	Physical Security Systems (OPA3)	A		54,043		6,000		60,043	U
179	Base Level Common Equipment			6,633		2,080		8,713	U
180	Modification of In-Svc Equipment (OPA-3)			49,797		19,200		68,997	U
181	Production Base Support (OTH)			2,301				2,301	U
182	Special Equipment for User Testing			11,608				11,608	U
183	Tractor Yard			4,956				4,956	U
	Total Other Support Equipment			1,926,106		246,578		2,172,684	
	<u>Budget Activity 04: Spare and Repair Parts</u>								
	OPA2								
184	Initial Spares - C&E			9,817				9,817	U
	Total Spare and Repair Parts			9,817				9,817	

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj Base		FY 2018 Total PB Requests* with CR Adj Base		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 20: Undistributed											
Undistributed											
185	Adj to Match Continuing Resolution	A			-447,278		-447,278		1,421,544		U
Total Undistributed					-447,278		-447,278		1,421,544		
Total Other Procurement, Army				7,867,971		6,022,053		6,022,053		1,827,119	

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests**		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 20: Undistributed											
Undistributed											
	185 Adj to Match Continuing Resolution	A	1,421,544								U
	Total Undistributed		1,421,544								
	Total Other Procurement, Army		1,827,119								

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 20: Undistributed									
Undistributed									
185	Adj to Match Continuing Resolution	A		974,266				974,266	U
Total Undistributed				974,266				974,266	
Total Other Procurement, Army				7,849,172				7,849,172	

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Line No	Item Nomenclature	Ident Code	FY 2019 Base		FY 2019 OCO		FY 2019 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 20: Undistributed									
Undistributed									
	185 Adj to Match Continuing Resolution	A							U
Total Undistributed									
Total Other Procurement, Army			7,999,529		1,382,047		9,381,576		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:
1975BW7100 / 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: 349

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	2,407	683	877	-	-	-	-	-	-	-	-	3,967
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,847.236	551.170	420.492	-	-	-	-	-	-	-	-	5,818.898
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,847.236	551.170	420.492	-	-	-	-	-	-	-	-	5,818.898
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,847.236	551.170	420.492	-	-	-	-	-	-	-	-	5,818.898

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2,013.808	806.984	479.466	-	-	-	-	-	-	-	-	1,466.826

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 one of the Army's top priorities, 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 using a wired and wireless backbones for the tactical Network Operations Centers (NOC) The wireless solution leverages the National Security Agency approved Commercial Solution for Classified (CSfC) architecture within the Operations Centers allowing simple and quick deployment of the NOC equipment and C2 applications. 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, building on the Increment 1a capability by adding the Net Centric Waveform (NCW) and the Department of Defense Information Network (DoDIN) compliant Colorless Core Capability. The NCW is essential to provide a meshed satellite network, minimizing latency through multiple hops at the below brigade HQs and the DoDIN compliant Colorless Core Capability allows an efficient transport of multiple classified and unclassified data streams between WIN-T Inc 1 and Inc 2, as well as to reach back hub facilities. The Increment 1 architecture is an integral part of the converged Network Operations (NETOPS) initiative allowing common NETOPS from any WIN-T assemblage. Regional Hub Nodes are the uppermost level of the tactical architecture which provides a sanctuary, overlapping global presence that all WIN-T increments and product lines can leverage for transport services.

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 WIN-T 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 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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 1975BW7100 / 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: 349

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 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 by providing items to modernize the network or tech refresh existing legacy equipment. 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.

WIN-T Inc 2 is currently fielded to sixteen BCTs and nine Divisions. From FY19-23, WIN-T Inc 2 funding is realigned into two separate lines, Situational Information Transport (SIT) (B27201) and Tactical Network Technology Mod in Service (TNT MIS) (B07110) as part of the new Army Network Strategy. The P-forms for B27201 and B07110 provide the description and justification associated with this new strategy.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	553	659	-	-	-	-	-	-	-
	Total Obligation Authority	541.890	312.250	-	-	-	-	-	-	-
ANG	Quantity	119	218	-	-	-	-	-	-	-
	Total Obligation Authority	5.800	108.242	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 1975BW7100 / 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: 349

	Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AR	Quantity	11	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.480	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	683	877	-	-	-	-	-	-	-
	Total Obligation Authority	551.170	420.492	-	-	-	-	-	-	-

Justification:
 Program has no FY 2019 request.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	114	168	220	277	-	277	298	282	261	367	-	1,987
Gross/Weapon System Cost (<i>\$ in Millions</i>)	120.966	58.250	97.618	150.777	-	150.777	127.867	139.682	147.278	176.801	-	1,019.239
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	120.966	58.250	97.618	150.777	-	150.777	127.867	139.682	147.278	176.801	-	1,019.239
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	120.966	58.250	97.618	150.777	-	150.777	127.867	139.682	147.278	176.801	-	1,019.239

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,061.105	346.726	443.718	544.321	-	544.321	429.084	495.326	564.284	481.747	-	512.954

Description:

The Signal Modernization (SIGMOD) funding line will procure new and enhanced capabilities to modernize tactical network components by reducing Size, Weight and Power (SWaP) and providing more expeditionary communications, leveraging the Warfighter Information Network - Tactical (WIN-T) network. Currently, most of the SIGMOD capabilities are planned to be fielded to the Expeditionary Signal Battalions (ESBs) as threshold capability, however, the Army will assess making more of these capabilities organic to the BCTs and Divisions. SIGMOD capabilities will provide upgrades and increase capabilities to units equipped with WIN-T, allowing them to support the full spectrum of operations with Cellular Solution (4G LTE & WIFI), Commercial Coalition Equipment, and Top Secret enclaves. SIGMOD will provide redundancy communications in a satellite denied environment by providing improved Line of Site (Terrestrial Transmission System (TRILOS)) and beyond line of sight (Troposcatter Transmission System (TROPO)) radio systems. Additionally, SIGMOD will provide Secure But Unclassified (SBU) Very Small Aperture Terminal (VSAT) and gateway capabilities.

The following SIGMOD Capabilities/systems are part of this effort:

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

Modular Communications Node - Advanced Enclave (MCN-AE): Provides Top Secret/Sensitive Compartmented Information (TS/SCI) communications to Brigades, Divisions, Corps, and Signal Battalions over the WIN-T network. MCN-AE enables operation/intelligence conversion and reduction in the number of high power Radio Frequency (RF) systems in the Command Post (CP). MCN-AE also supports expeditionary / initial entry operations.

Cellular Solution (4G LTE and WiFi): Expands the Tactical network below battalion, using an expeditionary 4G LTE cellular and wireless (WiFi) network. The 4G LTE network enables Situational Awareness (SA) and Mission Command (MC) capability down to the individual Soldier. The WiFi capability enables untethered Mission Command within the command post for wireless laptops, tablets and phone, dramatically reducing TOC set-up and teardown times.

Terrestrial Transmission System (TRILOS): Enables Mission Command in a satellite denied environment at higher throughput than the current High Capacity Line of Sight System (HCLOS). TRILOS will enable Army units to reduce reliance on costly satellite band-width. TRILOS will extend the network by utilizing a significantly reduced SWaP radio verses the aging HCLOS system. TRILOS will also provide RF path diversity, making the system more resilient to jamming in a contested environment.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Troposcatter Transmission System (TROPO): Enables Mission Command in a satellite denied environment by providing Beyond Line of Site (BLOS) capability over longer ranges and at higher throughput than the current BLOS System. TROPO extends the network by utilizing a significantly reduced SWaP radio versus the current system. TROPO will enable Army units to reduce reliance on costly satellite band-width. TROPO will also provide RF path diversity, making the system more resilient to jamming in a contested environment.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	112	201	236	-	236	286	260	241	337
	Total Obligation Authority	39.164	88.113	134.197	-	134.197	122.504	129.824	139.012	168.833
ANG	Quantity	56	-	41	-	41	-	11	10	15
	Total Obligation Authority	19.086	-	16.580	-	16.580	-	4.929	4.305	4.150
AR	Quantity	-	19	-	-	-	12	11	10	15
	Total Obligation Authority	-	9.505	-	-	-	5.363	4.929	3.961	3.818
Total: Secondary Distribution	Quantity	168	220	277	-	277	298	282	261	367
	Total Obligation Authority	58.250	97.618	150.777	-	150.777	127.867	139.682	147.278	176.801

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B00010 / Signal Modernization Program	P-5a, P-21			114 / 120.966	168 / 58.250	220 / 97.618	277 / 150.777	- / -	277 / 150.777
P-40	Total Gross/Weapon System Cost				114 / 120.966	168 / 58.250	220 / 97.618	277 / 150.777	- / -	277 / 150.777

*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 2019 Base procurement dollars in the amount of \$150.777 million supports procurement of eighteen (18) Commercial Coalition Equipment (CCE), thirty five (35) WiFi systems and forty four (44) Modular Communications Node - Advanced Enclave (MCN-AE) enclaves to support Transport Convergence. In addition, funding procures one hundred and fifty (150) TRILOS and thirty (30) TROPO to support at the halt terrestrial and beyond line of sight communications supporting WIN-T Increment 1 units. Starting in FY19, Cellular Solution is broken in to two distinct capabilities: Secure Wireless (WiFi) and 4G LTE. Secure Wireless (WiFi) is being procured beginning in FY19. 4G LTE beginning in FY21. In addition, equipment will be procured to provide Secure But Unclassified (SBU) Very Small Aperture Terminal (VSAT) and gateway capabilities.

The Engineering / Integration Support increase from FY18 to FY19 is due to increased quantities being procured for TRILOS and WiFi.

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."

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army					Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12			P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program			Item Number / Title [DODIC]: B00010 / Signal Modernization Program				
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:					
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total		
Procurement Quantity (Units in Each)			114	168	220	277	-	277		
Gross/Weapon System Cost (\$ in Millions)			120.966	58.250	97.618	150.777	-	150.777		
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)			120.966	58.250	97.618	150.777	-	150.777		
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)			120.966	58.250	97.618	150.777	-	150.777		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>										
Initial Spares (\$ in Millions)			-	-	-	-	-	-		
Gross/Weapon System Unit Cost (\$ in Thousands)			1,061.105	346.726	443.718	544.321	-	544.321		

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MCN-AE HW-Equipment ^(f)	76.000	94	7.144	76.300	24	1.831	77.000	34	2.618	79.000	44	3.476	-	-	-	79.000	44	3.476
CCE HW-Equipment ^(f)	230.000	24	5.520	238.000	24	5.712	241.000	24	5.784	246.000	18	4.428	-	-	-	246.000	18	4.428
Cellular Solution HW - Equipment ^(f)	880.000	30	26.400	-	-	-	892.000	24	21.408	-	-	-	-	-	-	-	-	-
WiFi HW - Equipment ^(f)	-	-	-	-	-	-	-	-	-	217.000	35	7.595	-	-	-	217.000	35	7.595
TROPO HW-Equipment ^(f)	-	-	-	-	-	-	666.000	18	11.988	679.000	30	20.370	-	-	-	679.000	30	20.370
TRILOS HW - Equipment ^(f)	-	-	-	179.000	120	21.480	183.000	120	21.960	186.000	150	27.900	-	-	-	186.000	150	27.900
SBU VSAT and gateway	-	-	-	-	-	-	-	-	-	-	-	39.700	-	-	-	-	-	39.700
Engineering / Integration Support	-	-	9.065	-	-	6.646	-	-	7.458	-	-	15.825	-	-	-	-	-	15.825
Non- Recurring Engineering	-	-	31.804	-	-	3.757	-	-	3.098	-	-	3.811	-	-	-	-	-	3.811
System Test / Validation	-	-	3.543	-	-	2.203	-	-	3.016	-	-	3.189	-	-	-	-	-	3.189
Training	-	-	8.768	-	-	3.936	-	-	4.231	-	-	3.909	-	-	-	-	-	3.909
Fielding	-	-	8.515	-	-	3.102	-	-	1.502	-	-	3.552	-	-	-	-	-	3.552
Initial Spares	-	-	5.478	-	-	2.878	-	-	3.646	-	-	5.255	-	-	-	-	-	5.255

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12						P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program						Item Number / Title [DODIC]: B00010 / Signal Modernization Program					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	7.178	-	-	3.447	-	-	4.744	-	-	5.371	-	-	-	-	-	5.371
<i>Subtotal: Recurring Cost</i>	-	-	113.415	-	-	54.992	-	-	91.453	-	-	144.381	-	-	-	-	-	144.381
<i>Subtotal: Flyaway Cost</i>	-	-	113.415	-	-	54.992	-	-	91.453	-	-	144.381	-	-	-	-	-	144.381
Support - Program Management Cost																		
Government Management	-	-	4.247	-	-	2.205	-	-	3.096	-	-	3.235	-	-	-	-	-	3.235
Contractor Management	-	-	3.304	-	-	1.053	-	-	3.069	-	-	3.161	-	-	-	-	-	3.161
<i>Subtotal: Support - Program Management Cost</i>	-	-	7.551	-	-	3.258	-	-	6.165	-	-	6.396	-	-	-	-	-	6.396
Gross/Weapon System Cost	1,061.105	114	120.966	346.726	168	58.250	443.718	220	97.618	544.321	277	150.777	-	-	-	544.321	277	150.777

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	112	201	236	-	236
	Total Obligation Authority	39.164	88.113	134.197	-	134.197
ANG	Quantity	56	-	41	-	41
	Total Obligation Authority	19.086	-	16.580	-	16.580
AR	Quantity	-	19	-	-	-
	Total Obligation Authority	-	9.505	-	-	-
Total: Secondary Distribution	Quantity	168	220	277	-	277
	Total Obligation Authority	58.250	97.618	150.777	-	150.777

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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Cost Elements	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
MCN-AE HW-Equipment		2017	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Aug 2017	Jan 2018	24	76.300	Y		
MCN-AE HW-Equipment		2018	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2018	May 2018	34	77.000	Y		
MCN-AE HW-Equipment		2019	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2019	May 2019	44	79.000	Y		
CCE HW-Equipment		2017	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jul 2017	Dec 2017	24	238.000	Y		
CCE HW-Equipment		2018	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Apr 2018	Sep 2018	24	241.000	Y		
CCE HW-Equipment		2019	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2019	May 2019	18	246.000	Y		
Cellular Solution HW - Equipment		2016	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	May 2016	Sep 2016	28	850.000	Y		
Cellular Solution HW - Equipment		2018	GDMS CHS IV / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2018	May 2018	24	892.000	Y		
WiFi HW - Equipment ^(†)		2019	GDMS CHS IV / Taunton, MA	C / IDDQ	Aberdeen Proving Ground, MD	Jan 2019	May 2019	35	217.000	Y		
TROPO HW-Equipment ^(†)		2018	TBD / Aberdeen Proving Ground, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2018	Feb 2019	18	666.000	N		
TROPO HW-Equipment ^(†)		2019	TBD / Aberdeen Proving Ground, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2019	Feb 2020	30	679.000	N		
TRILOS HW - Equipment ^(†)		2017	ADS / Virginia Beach, VA	C / IDIQ	Aberdeen Proving Ground, MD	Aug 2017	Jan 2018	120	179.000	N		
TRILOS HW - Equipment ^(†)		2018	TBD / Aberdeen Proving Ground, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2018	Jan 2019	120	183.000	N		
TRILOS HW - Equipment ^(†)		2019	TBD / Aberdeen Proving Ground, MD	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2019	Jan 2020	150	186.000	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 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					
WiFi HW - Equipment																																			
	1	2019	ARMY	35	0	35																								35					
TROPO HW-Equipment																																			
	2	2018	ARMY	18	0	18																								18					
	2	2019	ARMY	30	0	30																								30					
TRILOS HW - Equipment																																			
	4	2017	ARMY	120	0	120																								120					
	3	2018	ARMY	120	0	120																								120					
	3	2019	ARMY	150	0	150																								150					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 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	S E P																					
WiFi HW - Equipment																																																			
	1	2019	ARMY	35	0	35																							A	-	-	-	-	5	5	5	5	5	5	10											
TROPO HW-Equipment																																																			
	2	2018	ARMY	18	0	18																							A	-	-	-	-	-	-	-	-	-	4	4	4	4	4	2						0	
	2	2019	ARMY	30	0	30																																								A	-	-	-	-	30
TRILOS HW - Equipment																																																			
	4	2017	ARMY	120	0	120	-	-	-	10	10	10	10	10	10	15	15	15	10	5																															0
	3	2018	ARMY	120	0	120																								A	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	30
	3	2019	ARMY	150	0	150																																													150
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12 **P-1 Line Item Number / Title:** 1981B00010 / Signal Modernization Program **Item Number / Title [DODIC]:** B00010 / Signal Modernization Program

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
WiFi HW - Equipment																															
	1	2019	ARMY	35	25	10	5	5																					0		
TROPO HW-Equipment																															
	2	2018	ARMY	18	18	0																							0		
	2	2019	ARMY	30	0	30	-	-	-	-	2	2	2	2	3	3	3	3	3	2	2	3								0	
TRILOS HW - Equipment																															
	4	2017	ARMY	120	120	0																							0		
	3	2018	ARMY	120	90	30	10	10	10																				0		
	3	2019	ARMY	150	0	150	-	-	-	20	20	20	20	30	20	20													0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1981B00010 / Signal Modernization Program	Item Number / Title [DODIC]: B00010 / Signal Modernization Program
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	250	0	4	0	4	0	4	4	8
2	TBD - Aberdeen Proving Ground, MD	1	5	200	0	6	0	6	0	9	7	16
3	TBD - Aberdeen Proving Ground, MD	1	5	200	0	6	0	6	0	9	7	16
4	ADS - Virginia Beach, VA	1	5	200	0	6	0	6	0	9	7	16

Remarks:

Production rates represent monthly values.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	268	-	-	-	-	-	-	-	-	268
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	150.497	469.117	-	469.117	295.571	259.585	322.193	290.541	-	1,787.504
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	150.497	469.117	-	469.117	295.571	259.585	322.193	290.541	-	1,787.504
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	150.497	469.117	-	469.117	295.571	259.585	322.193	290.541	-	1,787.504

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	561.556	-	-	-	-	-	-	-	-	6,669.791

Description:

Tactical Network Technology Modernization in Service (TNT MIS) is a realignment of funding programmed in WIN-T Increment 1 and Increment 2, which comprise the Tactical Network. The Tactical Network provides both Networking At The Halt and Networking On The Move, keeping highly mobile and dispersed forces connected to one another and to the Army's global information network. It connects all users to each other to allow information sharing from theater down to the maneuver battalion, to joint and multinational elements, and the Defense Information System Network (DISN). With essential voice, video and data services, at all levels of security, commanders can make decisions faster than ever before and from anywhere on the battlefield. The Tactical Network employs a combination of terrestrial and satellite-based transport options to provide robust, redundant connectivity with greater network reliability and better end-to-end connectivity than traditional point-to-point networks. Network modernization is the Army's top priority, and the Tactical Network is its cornerstone program.

TNT MIS provides technology refresh of the tactical network and modernization of non-sustainable/end of life commercial technology and other information technology (IT) component end item equipment (switches, routers, servers etc.) procured under tactical networking efforts. Technology refresh and modernization are critical to ensure the Army's tactical network maintains its security posture and compliance with new Information Assurance policies. TNT MIS is executing a technology refresh cycle to counter obsolescence and to sustain Commercial off the Shelf (COTS) IT components. Technology refresh 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 leverages common COTS solutions across various programs.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	268	0	-	0	-	-	-	-
Total Obligation Authority	-	150.497	469.117	-	469.117	295.571	259.585	322.193	290.541
Total:									
Secondary Distribution									
Quantity	-	268	-	-	-	-	-	-	-
Total Obligation Authority	-	150.497	469.117	-	469.117	295.571	259.585	322.193	290.541

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B07110 / Tactical Network Upgrades		A		- / -	- / -	268 / 150.497	- / 469.117	- / -	- / 469.117
P-40	Total Gross/Weapon System Cost				- / -	- / -	268 / 150.497	- / 469.117	- / -	- / 469.117

*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 2019 Base dollars in the amount of \$469.117 million procures and fields Mission Network refresh and modernization of non-sustainable/end of life commercial technology to support variously sized units (Division, Brigade Combat Team (BCT) and Corps), Regional Hub Nodes (RHN), and Tactical Network Management System (TNMS). In FY19 and out, the TNT MIS funding line (B07110) assumes primary responsibility for Post Deployment Software Support (PDSS), procurement and fielding of tech refresh, and overall management costs for Networking On The Move assets previously procured under WIN-T Increment 2 funding line BW7115 (18 BCT's and 9 Divisions).

FY19 funding:

- a. Funds technical refresh and modernization that are critical to ensure the Army's tactical network maintains its security posture and compliance with new Information Assurance policies. TNT MIS is executing a 5-year refresh for Networking On The Move and a 7-year tech refresh cycle for Networking At The Halt to counter obsolescence and inability to sustain COTS IT components. Tech refresh 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. Procures and fields 506 Satellite Transportable Terminals (STT) to address Inc 1 SATCOM obsolescence. This ensures previously fielded baseband configuration items remain interoperable with new capabilities to ensure the network extends to the tactical edge of the battlefield.
- c. Fields technology upgrades to 76 Inc 1 units that did not receive a complete refresh of the previous baseline due to unit availability: 4 ABCT, 3 CAB, 1 CORPS, 5 DIV, 2 DIVARTY, 4 ECAB, 15 ESB, 7 FAB, 11 IBCT, 9 MEB, 12 SB, 3 SBCT.
- d. Supports Post Deployment Software Support (PDSS) and COTS licenses for eighteen (18) previously fielded Networking On The Move BCTs and nine (9) Networking On The Move divisions which is critical for maintaining an Authority to Operate and enabling a low vulnerability of cyber-attack. PDSS costs include contractor furnished software licenses, government furnished software licenses, and the contractor labor portion of trouble ticket fixes and Information Assurance Vulnerability Assessment (IAVA) updates.
- e. Supports Tactical Public Key Infrastructure (PKI), allowing equipment and services on the Army's tactical network to be cryptographically authenticated as genuine.
- f. Supports RHN transport convergence which will collapse disparate intelligence, medical and logistics networks onto the WIN-T network.
- g. Supports modernizing previously procured IBCTs with Tactical Communication Nodes - Lite (TCN-L) and Network Operations and Security Center - Lite (NOSC-L) capabilities; thereby improving deployability, a reduction of signature, and improved network resiliency in contested environments.
- h. Fields a Soldier Network Extension (SNE) reduction/redistribution per current Basis of Issue (BOI) for Networking On The Move capabilities.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications		P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>i. Fields additional Points of Presence (PoP) per the current BOI for Networking On The Move capabilities.</p> <p>j. Technology Refresh: Supports modernization of four (4) Networking On The Move IBCTs, one (1) Networking On The Move SBCT, and two (2) Networking On The Move Divisions.</p> <p>k. Program Management: Assumes responsibility for Tactical Networks' government and contractor manpower support.</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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc	Item Number / Title [DODIC]: B07110 / Tactical Network Upgrades

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)		-	-	268	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	-	150.497	469.117	-	469.117
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		-	-	150.497	469.117	-	469.117
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	-	150.497	469.117	-	469.117
<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)		-	-	561.556	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
JNN Tech Mod Kits	-	-	-	-	-	-	506.000	14	7.084	-	-	-	-	-	-	-	-	-
CPN Tech Mod Kits	-	-	-	-	-	-	172.000	48	8.256	-	-	-	-	-	-	-	-	-
NetOps Components	-	-	-	-	-	-	-	-	13.169	-	-	0.358	-	-	-	-	-	0.358
Lab Assets	-	-	-	-	-	-	-	-	7.499	-	-	7.354	-	-	-	-	-	7.354
RHN Obsolescence	-	-	-	-	-	-	-	-	6.812	-	-	6.948	-	-	-	-	-	6.948
TNMS	-	-	-	-	-	-	-	-	2.208	-	-	3.449	-	-	-	-	-	3.449
Tactical PKI	-	-	-	-	-	-	-	-	1.425	-	-	1.563	-	-	-	-	-	1.563
SATCOM Obsolescence	-	-	-	-	-	-	-	-	4.687	414.891	506	209.935	-	-	-	414.891	506	209.935
Technology Refresh	-	-	-	-	-	-	-	-	-	-	-	41.468	-	-	-	-	-	41.468
Post Deployment Software Support	-	-	-	-	-	-	-	-	-	-	-	56.920	-	-	-	-	-	56.920
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	51.140	-	-	327.995	-	-	-	-	-	327.995
Non Recurring Cost																		
RHN Transport Convergence	-	-	-	-	-	-	-	-	8.389	-	-	14.157	-	-	-	-	-	14.157
Database Migration	-	-	-	-	-	-	-	-	34.617	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	43.006	-	-	14.157	-	-	-	-	-	14.157
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	94.146	-	-	342.152	-	-	-	-	-	342.152
Support - Fielding Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: 1982B07100 / Tactical Network Technology Mod In Svc
		Item Number / Title [DODIC]: B07110 / Tactical Network Upgrades

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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	-	-	-	18.510	-	-	57.506	-	-	-	-	-	57.506
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	18.510	-	-	57.506	-	-	-	-	-	57.506
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	1.097	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	1.097	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	-	-	-	6.087	-	-	13.302	-	-	-	-	-	13.302
Government Management	-	-	-	-	-	-	-	-	10.042	-	-	12.927	-	-	-	-	-	12.927
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	16.129	-	-	26.229	-	-	-	-	-	26.229
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	12.306	-	-	12.550	-	-	-	-	-	12.550
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	12.306	-	-	12.550	-	-	-	-	-	12.550
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	-	-	-	-	-	-	-	-	-	9.230	-	-	-	-	-	9.230
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	9.230	-	-	-	-	-	9.230
Support - Training Cost																		
Equipment	-	-	-	-	-	-	-	-	8.309	-	-	21.450	-	-	-	-	-	21.450
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	8.309	-	-	21.450	-	-	-	-	-	21.450
Gross/Weapon System Cost	-	-	-	-	-	-	561.556	268	150.497	-	-	469.117	-	-	-	-	-	469.117

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	268	0	-	0
	Total Obligation Authority	-	150.497	469.117	-	469.117
Total:	Quantity	-	268	-	-	-
Secondary Distribution	Total Obligation Authority	-	150.497	469.117	-	469.117

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	62.727	-	62.727	46.921	63.807	-	-	-	173.455
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	62.727	-	62.727	46.921	63.807	-	-	-	173.455
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	62.727	-	62.727	46.921	63.807	-	-	-	173.455

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 Situation Information Transport (SIT) funds the fielding of Warfighter Information Network - Tactical Increment 2 to active component Infantry Brigade Combat Teams and Stryker Brigade Combat Teams. SIT also funds the procurement of initial spares and repair parts. SIT and the Tactical Network Technology Modernization in Service (TNT MIS) budget line provide unity of effort to realize the new Army Network Strategy.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	62.727	-	62.727	46.921	63.807	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	62.727	-	62.727	46.921	63.807	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B27201 / Situation Information Transport				- / -	- / -	- / -	- / 62.727	- / -	- / 62.727
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 62.727	- / -	- / 62.727

*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 2019 Base procurement dollars in the amount of \$62.727 million supports WIN-T Increment 2 new equipment fielding to two Infantry Brigade Combat Teams (IBCT) and one Stryker Brigade Combat Team (SBCT) as well as associated initial spares and repair parts. FY 2019 funding also supports the cascade of Tactical Communication Node-Heavy (TCN-Heavy) and Network Operations Support Center-Heavy (NOSC-H) capabilities to 1 SBCT.

SIT (BW7200) is not a new start. This line is the result of a realignment of funds from BW7100 (current WIN-T Inc 2 funding line) to B07100 (TNT MIS) and this line in FY 2019.

SIT will be fielded based on the Army Force Generation cycle.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 1983BW7200 / SITUATION INFORMATION TRANSPORT	Item Number / Title [DODIC]: B27201 / Situation Information Transport

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	62.727	-	62.727
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	62.727	-	62.727
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	62.727	-	62.727

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

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

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	-	-	-	-	-	-	33.200	-	-	-	-	-	33.200
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	33.200	-	-	-	-	-	33.200
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	-	-	-	18.027	-	-	-	-	-	18.027
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	-	-	-	18.027	-	-	-	-	-	18.027
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	11.500	-	-	-	-	-	11.500
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	11.500	-	-	-	-	-	11.500
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	62.727	-	-	-	-	-	62.727

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	62.727	-	62.727
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army			Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: 1983BW7200 / SITUATION INFORMATION TRANSPORT		Item Number / Title [DODIC]: B27201 / Situation Information Transport		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution	Total Obligation Authority	-	-	62.727	-	62.727

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 2101B00009 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	8	5	11	-	11	12	11	4	-	-	51
Gross/Weapon System Cost (<i>\$ in Millions</i>)	19.846	5.749	6.065	13.895	-	13.895	15.366	14.527	3.320	-	-	78.768
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	19.846	5.749	6.065	13.895	-	13.895	15.366	14.527	3.320	-	-	78.768
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	19.846	5.749	6.065	13.895	-	13.895	15.366	14.527	3.320	-	-	78.768

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	718.625	1,213.000	1,263.182	-	1,263.182	1,280.500	1,320.636	830.000	-	-	1,544.471

Description:

The Joint Incident Site Communications Capability (JISCC) funding line procures the Disaster Incident Response Emergency Communications Terminal (DIRECT) capability. DIRECT provides communication to each of the 50 States and 4 Territories to meet the information exchange requirements of the States National Guard (NG) operational commanders while performing Defense Support of Civil Authorities (DSCA) missions. The program leverages Warfighter Information Network-Tactical (WIN-T) Cellular and Commercial Capabilities to provide seamless network connectivity to support first responders and emergency managers.

DIRECT Capabilities consist of:

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

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

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.426	0.468	-	-	-	-	-	-
ANG	Quantity	8	5	11	-	11	12	11	4
	Total Obligation Authority	5.323	5.597	13.895	-	13.895	15.366	14.527	3.320
Total: Secondary Distribution	Quantity	8	5	11	-	11	12	11	4
	Total Obligation Authority	5.749	6.065	13.895	-	13.895	15.366	14.527	3.320

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 2101B00009 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B00009 / Joint Incident Site Communications Capability	P-5a, P-21			- / 19.846	8 / 5.749	5 / 6.065	11 / 13.895	- / -	11 / 13.895
P-40	Total Gross/Weapon System Cost				- / 19.846	8 / 5.749	5 / 6.065	11 / 13.895	- / -	11 / 13.895

*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 2019 Base Procurement dollars in the amount of \$13.895 million supports the procurement of eleven (11) DIRECT systems. A DIRECT system includes: Commercial Coalition Equipment (CCE), Commercial Wireless and 4th Generation Long Term Evolution (4G LTE) that will provide the National Guard with communications capabilities supporting Homeland Defense (HLD) and Defense Support of Civil Authorities (DSCA) missions. Software, Integration and fielding cost increase is due to increased quantities. FY 2019 program growth supports acceleration of fielding prior to obsolescence of legacy JISCC systems.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 2101B00009 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	8	5	11	-	11
Gross/Weapon System Cost (\$ in Millions)	19.846	5.749	6.065	13.895	-	13.895
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	19.846	5.749	6.065	13.895	-	13.895
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	19.846	5.749	6.065	13.895	-	13.895

(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)	-	718.625	1,213.000	1,263.182	-	1,263.182

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	7.632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIRECT Hardware ^(†)	292.750	16	4.684	917.250	4	3.669	917.200	5	4.586	947.364	11	10.421	-	-	-	947.364	11	10.421
Software	-	-	1.608	-	-	0.449	-	-	0.277	-	-	1.236	-	-	-	-	-	1.236
Integration	-	-	0.650	-	-	0.551	-	-	0.310	-	-	0.765	-	-	-	-	-	0.765
Training	-	-	1.365	-	-	0.236	-	-	0.236	-	-	0.415	-	-	-	-	-	0.415
Fielding	-	-	1.326	-	-	0.276	-	-	0.196	-	-	0.555	-	-	-	-	-	0.555
Spares	-	-	0.968	-	-	0.371	-	-	0.326	-	-	0.366	-	-	-	-	-	0.366
<i>Subtotal: Recurring Cost</i>	-	-	<i>18.233</i>	-	-	<i>5.552</i>	-	-	<i>5.931</i>	-	-	<i>13.758</i>	-	-	-	-	-	<i>13.758</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>18.233</i>	-	-	<i>5.552</i>	-	-	<i>5.931</i>	-	-	<i>13.758</i>	-	-	-	-	-	<i>13.758</i>
Support - Program Management Cost																		
Government Management	-	-	0.340	-	-	0.022	-	-	-	-	-	-	-	-	-	-	-	-
Contractor Management	-	-	1.273	-	-	0.175	-	-	0.134	-	-	0.137	-	-	-	-	-	0.137
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>1.613</i>	-	-	<i>0.197</i>	-	-	<i>0.134</i>	-	-	<i>0.137</i>	-	-	-	-	-	<i>0.137</i>
Gross/Weapon System Cost	-	-	19.846	718.625	8	5.749	1,213.000	5	6.065	1,263.182	11	13.895	-	-	-	1,263.182	11	13.895

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12	P-1 Line Item Number / Title: 2101B00009 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.426	0.468	-	-	-
ANG	Quantity	8	5	11	-	11
	Total Obligation Authority	5.323	5.597	13.895	-	13.895
Total: Secondary Distribution	Quantity	8	5	11	-	11
	Total Obligation Authority	5.749	6.065	13.895	-	13.895

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12			P-1 Line Item Number / Title: 2101B00009 / 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
DIRECT Hardware ^(†)		2016	GDMS- CHS IV / Taunton MA	C / IDIQ	Aberdeen Proving Ground, MD	May 2016	Sep 2016	3	750.000			
DIRECT Hardware ^(†)		2017	GDMS- CHS IV / Taunton MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2017	May 2017	4	917.250	Y		
DIRECT Hardware ^(†)		2018	GDMS- CHS IV / Taunton MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2018	May 2018	5	917.200	Y		
DIRECT Hardware ^(†)		2019	GDMS- CHS IV / Taunton MA	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2019	May 2019	11	947.360	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12										P-1 Line Item Number / Title: 2101B00009 / Joint Incident Site Communications Capability										Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability				

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			
DIRECT Hardware																																	
Prior Years Deliveries: 13																																	
1		2016	ARMY	3	3	0																							0				
1		2017	ARMY	4	4	0																							0				
1		2018	ARMY	5	0	5			A	-	-	-	-	1	2	1	1												0				
1		2019	ARMY	11	0	11															A	-	-	-	-	1	1	1	1	6			

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12										P-1 Line Item Number / Title: 2101B00009 / Joint Incident Site Communications Capability										Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
DIRECT Hardware																															
Prior Years Deliveries: 13																															
	1	2016	ARMY	3	3	0																						0			
	1	2017	ARMY	4	4	0																						0			
	1	2018	ARMY	5	5	0																						0			
	1	2019	ARMY	11	5	6	1	1	1	1	1	1																0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12		P-1 Line Item Number / Title: 2101B00009 / 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 2019	1-8-5 For 2019	MAX For 2019	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	0	4	0	4	0	0	0	0	0

Remarks:

Production rates represent monthly values.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications	P-1 Line Item Number / Title: 2930BB5777 / JCSE Equipment (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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	154.158	5.068	5.051	4.866	-	4.866	5.075	5.175	5.307	5.402	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	154.158	5.068	5.051	4.866	-	4.866	5.075	5.175	5.307	5.402	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	154.158	5.068	5.051	4.866	-	4.866	5.075	5.175	5.307	5.402	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 (JECC), US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide Command, Control, Communications and Computers (C4) systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The JCSE mission is to provide, on short notice, those critical communications required to support Joint Task Force support (JTF) and Joint Special Operations Task Force (JSOTF) headquarters. These assets support the warfighter's ability to deploy rapidly and immediately provide the positive command and control required. This support includes contingency and crisis communications for the Joint Chiefs of Staff, Combatant Commands, Services, Defense agencies, non-Defense agencies, and foreign governments. The program's modernization goals include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. Per Defense Planning Guidance (DPG) and Director, Joint Staff Memorandum (DJSM) 0291-14, the Army is mandated to fund 1/3rd of JCSE's validated equipment modernization plan.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.068	5.051	4.866	-	4.866	5.075	5.175	5.307	5.402
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.068	5.051	4.866	-	4.866	5.075	5.175	5.307	5.402

Justification:

FY 2019 Base funding in the amount of \$4.866 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, Forced Entry, single-channel radios, and power generation equipment. Currently employed commercial-off-the-shelf (COTS) equipment is approaching the end of its life cycle and requires replacement, along with technology refresh, to meet the modernization program goals which include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command and Control communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe. ARMY is mandated to fund one-third share of JCSE's validated

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications		P-1 Line Item Number / Title: 2930BB5777 / JCSE Equipment (USREDCOM)
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>equipment modernization plan. JCSE's Modernization Program is based on Combatant Command (CCMD) and Service Components' requirements and emerging technologies. Services influence JCSE's plan through recommendations in concert with Major Defense Acquisition Program (MDAP) schedules, ensuring that Service dollars meet Joint Service requirements.</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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10.262	1.626	-	-	-	-	-	-	-	-	-	11.888
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10.262	1.626	-	-	-	-	-	-	-	-	-	11.888
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.262	1.626	-	-	-	-	-	-	-	-	-	11.888

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

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

Description:

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

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

Justification:

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.370	0.055	-	-	-	-	-	-	-	-	-	0.425
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.370	0.055	-	-	-	-	-	-	-	-	-	0.425
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.370	0.055	-	-	-	-	-	-	-	-	-	0.425

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

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

Description:

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

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

Justification:

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,788.735	143.805	161.383	108.133	-	108.133	111.000	99.480	118.628	108.253	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,788.735	143.805	161.383	108.133	-	108.133	111.000	99.480	118.628	108.253	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,788.735	143.805	161.383	108.133	-	108.133	111.000	99.480	118.628	108.253	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>)	75,371.216	5,991.875	8,965.722	5,149.190	-	5,149.190	5,285.714	6,632.000	5,931.400	6,367.824	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 SATCOM (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. DEWSS is a system of systems composed of various hardware and software components. Requirements vary based on geographic area, terrain, end users, and joint partners.

B08701/GMF Enhancement - The AN/TSC-93E Tactical Satellite Service Life Extension Program (SLEP) provides satellite communications (SATCOM) capability in the SHF (Super High Frequency) range. 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.

B08900/Special Communications Links Program - 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.

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications		P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A
Line Item MDAP/MAIS Code: N/A		
<p>BB8501/Enterprise Wideband Satellite Terminal Digital EQ - The Digital Communications Satellite Subsystem (DCSS) is an array of baseband equipment that is integral to the Defense Enterprise Wideband SATCOM System (DEWSS). DCSS is the interconnection between the 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 Communications System, and other military and commercially available satellite constellations. Provides deployed Warfighters with global connectivity to military command and control systems, reach back to the sustaining base, and access to enterprise information resources and the Defense Information Systems Network. Interfaces with the national strategic communications infrastructure to support Presidential and senior DoD leadership communications.</p> <p>BB8509 - Enterprise Wideband Sat Payload Control System - 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. This system provides reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B08701 / GMF Enhancement				- / 78.131	- / 1.440	- / 1.205	- / 1.000	- / -	- / 1.000
P-5	B08900 / Special Communications Links Program				- / 27.107	- / 6.363	- / 1.355	- / 1.954	- / -	- / 1.954
P-5	BB8416 / Enterprise Wideband Satellite Terminal - (Mod)	P-5a, P-21			- / 805.273	- / 54.798	- / 50.958	- / 23.532	- / -	- / 23.532
P-5	BB8501 / Enterprise Wideband Satellite Terminal Digital EQ				- / 856.740	- / 25.520	- / 46.806	- / 33.361	- / -	- / 33.361
P-5	BB8509 / Enterprise Wideband Sat Payload Control System				- / 1,021.484	- / 55.684	- / 61.059	- / 48.286	- / -	- / 48.286
P-40	Total Gross/Weapon System Cost				- / 2,788.735	- / 143.805	- / 161.383	- / 108.133	- / -	- / 108.133

*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 2019 Base procurement dollars in the amount of \$108.133 million support the following programs:

FY2019 Base procurement dollars in the amount of \$1.000 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 2019 Base procurement dollars in the amount of \$1.954 million supports modernization of the Direct Communications Link (DCL) from serial based circuits to an Internet Protocol architecture. Funding provides installation and training support for hardware and software.

FY 2019 Base procurement dollars in the amount of \$23.532 million support technology refresh of the Modernization of Enterprise Terminals (MET) systems and provides the required engineering, integration, and installation support for terminal fielding.

FY 2019 Base procurement dollars in the amount \$33.361 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 2019 Base procurement dollars in the amount of \$48.286 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.

FY2018 to FY2019 Base procurement dollar decrease due to savings realized from two primary efforts: Modernization of Enterprise Terminals (MET) contract acceleration which bought out new MET procurements originally planned in FY2019. Also, satellite communications anti-jam enhancements funded by the United States Air Force were originally projected as a United States Army bill.

"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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: B08701 / GMF Enhancement

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	78.131	1.440	1.205	1.000	-	1.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	78.131	1.440	1.205	1.000	-	1.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	78.131	1.440	1.205	1.000	-	1.000

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	1,440.000	-	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	1.891	-	-	0.755	-	-	0.505	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal: Recurring Cost</i>	-	-	<i>1.891</i>	-	-	<i>0.755</i>	-	-	<i>0.505</i>	-	-	<i>0.300</i>	-	-	-	-	-	<i>0.300</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>1.891</i>	-	-	<i>0.755</i>	-	-	<i>0.505</i>	-	-	<i>0.300</i>	-	-	-	-	-	<i>0.300</i>
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	1.250	-	-	0.250	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<i>1.250</i>	-	-	<i>0.250</i>	-	-	<i>0.250</i>	-	-	<i>0.250</i>	-	-	-	-	-	<i>0.250</i>
Support - Program Management Cost																		
Government Management	-	-	74.558	-	-	0.035	-	-	0.050	-	-	0.055	-	-	-	-	-	0.055
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>74.558</i>	-	-	<i>0.035</i>	-	-	<i>0.050</i>	-	-	<i>0.055</i>	-	-	-	-	-	<i>0.055</i>
Support - System Engineering Cost																		
System Engineering	-	-	0.432	-	-	0.400	-	-	0.400	-	-	0.395	-	-	-	-	-	0.395
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>0.432</i>	-	-	<i>0.400</i>	-	-	<i>0.400</i>	-	-	<i>0.395</i>	-	-	-	-	-	<i>0.395</i>
Gross/Weapon System Cost	-	-	78.131	1,440.000	-	1.440	-	-	1.205	-	-	1.000	-	-	-	-	-	1.000

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: B08900 / Special Communications Links Program

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.107	6.363	1.355	1.954	-	1.954
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.107	6.363	1.355	1.954	-	1.954
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.107	6.363	1.355	1.954	-	1.954

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	1.502	-	-	0.750	-	-	0.550	-	-	0.500	-	-	-	-	-	0.500
<i>Subtotal: Recurring Cost</i>	-	-	<i>1.502</i>	-	-	<i>0.750</i>	-	-	<i>0.550</i>	-	-	<i>0.500</i>	-	-	-	-	-	<i>0.500</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>1.502</i>	-	-	<i>0.750</i>	-	-	<i>0.550</i>	-	-	<i>0.500</i>	-	-	-	-	-	<i>0.500</i>
Support - Program Management Cost																		
Government Management	-	-	25.605	-	-	5.613	-	-	0.805	-	-	1.454	-	-	-	-	-	1.454
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>25.605</i>	-	-	<i>5.613</i>	-	-	<i>0.805</i>	-	-	<i>1.454</i>	-	-	-	-	-	<i>1.454</i>
Gross/Weapon System Cost	-	-	27.107	-	-	6.363	-	-	1.355	-	-	1.954	-	-	-	-	-	1.954

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	805.273	54.798	50.958	23.532	-	23.532
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	805.273	54.798	50.958	23.532	-	23.532
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	805.273	54.798	50.958	23.532	-	23.532

(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)	80,527.300	7,828.286	10,191.600	4,706.400	-	4,706.400

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	63,411.600	10	634.116	3,524.286	7	24.670	2,901.000	5	14.505	-	-	6.361	-	-	-	-	-	6.361
MET Depot Support	-	-	-	-	-	8.205	-	-	6.000	-	-	4.005	-	-	-	-	-	4.005
MET PDSS	-	-	-	-	-	2.521	-	-	2.030	-	-	2.035	-	-	-	-	-	2.035
<i>Subtotal: Recurring Cost</i>	-	-	634.116	-	-	35.396	-	-	22.535	-	-	12.401	-	-	-	-	-	12.401
<i>Subtotal: Flyaway Cost</i>	-	-	634.116	-	-	35.396	-	-	22.535	-	-	12.401	-	-	-	-	-	12.401
Support - Fielding Cost																		
Fielding	-	-	34.410	-	-	2.400	-	-	15.343	-	-	2.001	-	-	-	-	-	2.001
<i>Subtotal: Support - Fielding Cost</i>	-	-	34.410	-	-	2.400	-	-	15.343	-	-	2.001	-	-	-	-	-	2.001
Support - Program Management Cost																		
Government Management	-	-	107.380	-	-	10.183	-	-	6.967	-	-	5.980	-	-	-	-	-	5.980
<i>Subtotal: Support - Program Management Cost</i>	-	-	107.380	-	-	10.183	-	-	6.967	-	-	5.980	-	-	-	-	-	5.980
Support - System Engineering Cost																		
System Engineering	-	-	29.367	-	-	6.819	-	-	6.113	-	-	3.150	-	-	-	-	-	3.150
<i>Subtotal: Support - System Engineering Cost</i>	-	-	29.367	-	-	6.819	-	-	6.113	-	-	3.150	-	-	-	-	-	3.150
Gross/Weapon System Cost	80,527.300	-	805.273	7,828.286	-	54.798	10,191.600	-	50.958	4,706.400	-	23.532	-	-	-	4,706.400	-	23.532

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems				Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)				

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
MET Hardware ^(†)		2017	Harris / Melbourne Florida	SS / FFP	ACC-RI	May 2017	Jun 2018	7	3,524.290			
MET Hardware ^(†)		2018	Harris / Melbourne Florida	SS / FFP	ACC-RI	May 2018	Jun 2019	5	2,901.000			

^(†) indicates the presence of a P-21

Remarks:

FY2018 to FY2019 Base procurement dollars decrease due to savings realized from two primary efforts: Modernization Enterprise Terminals (MET) contract acceleration which bought out new MET procurements originally planned in FY2019. Also, satellite communications anti-jam enhancements funded by United States Air Force were originally projected as a United States Army bill.

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18										P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems										Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												B A L A N C E	
O C 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
MET Hardware																															
Prior Years Deliveries: 10																															
	1	2017	ARMY	7	7	0																							0		
	1	2018	ARMY	5	0	5	-	-	-	-	-	-	-	-	5														0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems
		Item Number / Title [DODIC]: BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	0	0	0	0	0	0	0	0	0

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

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	856.740	25.520	46.806	33.361	-	33.361
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	856.740	25.520	46.806	33.361	-	33.361
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	856.740	25.520	46.806	33.361	-	33.361

(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)	65,903.077	5,104.000	9,361.200	3,336.100	-	3,336.100

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Baseband Production Support	-	-	-	-	-	6.864	5,100.000	1	5.100	3,105.000	1	3.105	-	-	-	3,105.000	1	3.105
Landstuhl Baseband Installs	45,403.000	6	272.418	849.000	2	1.698	1,781.000	1	1.781	1,703.000	1	1.703	-	-	-	1,703.000	1	1.703
Precision Timing Rack Modification	-	-	-	818.000	1	0.818	1,000.000	1	1.000	1,005.000	1	1.005	-	-	-	1,005.000	1	1.005
Enhanced Bandwidth Efficient Modem (EBEM)	-	-	-	150.000	1	0.150	500.000	1	0.500	551.000	1	0.551	-	-	-	551.000	1	0.551
Transport Convergence	-	-	-	2,301.000	1	2.301	-	-	0.200	-	-	0.205	-	-	-	-	-	0.205
Prototyping, Integration, Test, Training (PITT) Lab	-	-	-	-	-	-	-	-	3.587	2,590.000	1	2.590	-	-	-	2,590.000	1	2.590
Enhanced SATCOM Gateway Modem (ESGM) Implementation	-	-	-	-	-	-	-	-	5.895	1,950.000	2	3.900	-	-	-	1,950.000	2	3.900
SATCOM Unified Net-Centric System (SUNS)	-	-	-	-	-	-	-	-	5.895	1,956.000	2	3.912	-	-	-	1,956.000	2	3.912
Communication Configuration and	-	-	-	-	-	-	7,900.000	1	7.900	5,905.000	1	5.905	-	-	-	5,905.000	1	5.905

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems	Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Asset Management System (CCAMS)																		
<i>Subtotal: Recurring Cost</i>	-	-	272.418	-	-	11.831	-	-	31.858	-	-	22.876	-	-	-	-	-	22.876
<i>Subtotal: Flyaway Cost</i>	-	-	272.418	-	-	11.831	-	-	31.858	-	-	22.876	-	-	-	-	-	22.876
Support - Fielding Cost																		
Fielding	-	-	2.540	-	-	2.436	-	-	2.450	-	-	1.477	-	-	-	-	-	1.477
<i>Subtotal: Support - Fielding Cost</i>	-	-	2.540	-	-	2.436	-	-	2.450	-	-	1.477	-	-	-	-	-	1.477
Support - Production Engineering Cost																		
Production Engineering	-	-	4.621	-	-	4.731	-	-	4.775	-	-	2.824	-	-	-	-	-	2.824
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	4.621	-	-	4.731	-	-	4.775	-	-	2.824	-	-	-	-	-	2.824
Support - Program Management Cost																		
Government Management	-	-	385.989	-	-	3.818	-	-	3.425	-	-	3.610	-	-	-	-	-	3.610
<i>Subtotal: Support - Program Management Cost</i>	-	-	385.989	-	-	3.818	-	-	3.425	-	-	3.610	-	-	-	-	-	3.610
Support - System Engineering Cost																		
System Engineering	-	-	191.172	-	-	2.704	-	-	4.298	-	-	2.574	-	-	-	-	-	2.574
<i>Subtotal: Support - System Engineering Cost</i>	-	-	191.172	-	-	2.704	-	-	4.298	-	-	2.574	-	-	-	-	-	2.574
Gross/Weapon System Cost	65,903.077	-	856.740	5,104.000	-	25.520	9,361.200	-	46.806	3,336.100	-	33.361	-	-	-	3,336.100	-	33.361

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Exhibit P-5, Cost Analysis: PB 2019 Army						Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems			Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System		
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:		
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			1,021.484	55.684	61.059	48.286	-	48.286
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			1,021.484	55.684	61.059	48.286	-	48.286
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			1,021.484	55.684	61.059	48.286	-	48.286
<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)			72,963.143	5,062.182	7,632.375	8,047.667	-	8,047.667

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Wideband Satellite Communications Trend Analysis and Anomaly Resolution Solution (WSTARS)	56,342.500	2	112.685	4,100.000	2	8.200	4,200.000	1	4.200	4,250.000	1	4.250	-	-	-	4,250.000	1	4.250
Wideband Remote Monitoring System (WRMS)	61,926.000	2	123.852	2,028.500	2	4.057	3,000.000	1	3.000	3,050.000	1	3.050	-	-	-	3,050.000	1	3.050
Common Network Planning System (CNPS)	59,850.000	2	119.700	1,889.000	2	3.778	5,964.000	1	5.964	6,000.000	1	6.000	-	-	-	6,000.000	1	6.000
Global Satellite Configuration Control Element (GSCCE)	93,953.500	2	187.907	8,256.000	1	8.256	2,800.000	1	2.800	2,815.000	1	2.815	-	-	-	2,815.000	1	2.815
Wideband SATCOM Operational Management System (WSOMS)	3,750.000	2	7.500	5,507.000	1	5.507	-	-	-	-	-	-	-	-	-	-	-	-
Joint Mngmt. & Ops. System (JMOS)	62,150.000	2	124.300	1,018.000	1	1.018	-	-	-	-	-	-	-	-	-	-	-	-
Remote Monitor Control Equipment (RMCE)	91,019.500	2	182.039	98.000	1	0.098	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: 2948BB8500 / Defense Enterprise Wideband Satcom Systems						Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Wideband Trainer & Certification System (WTCS)	-	-	-	753.000	1	0.753	1,346.000	1	1.346	1,350.000	1	1.350	-	-	-	1,350.000	1	1.350
Radio Frequency Modulated Orderwire (RFMOW)	-	-	141.183	-	-	-	150.000	1	0.150	155.000	1	0.155	-	-	-	155.000	1	0.155
Power Control Management System (PCMS)	-	-	-	-	-	-	10,420.000	1	10.420	10,425.000	1	10.425	-	-	-	10,425.000	1	10.425
Post Gres Enterprise Class Data Management Platform	-	-	-	-	-	-	3,000.000	1	3.000	3,005.000	1	3.005	-	-	-	3,005.000	1	3.005
<i>Subtotal: Recurring Cost</i>	-	-	<i>999.166</i>	-	-	<i>31.667</i>	-	-	<i>30.880</i>	-	-	<i>31.050</i>	-	-	-	-	-	<i>31.050</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>999.166</i>	-	-	<i>31.667</i>	-	-	<i>30.880</i>	-	-	<i>31.050</i>	-	-	-	-	-	<i>31.050</i>
Support - Program Management Cost																		
Government Management	-	-	16.218	-	-	19.784	-	-	24.579	-	-	11.586	-	-	-	-	-	11.586
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>16.218</i>	-	-	<i>19.784</i>	-	-	<i>24.579</i>	-	-	<i>11.586</i>	-	-	-	-	-	<i>11.586</i>
Support - System Engineering Cost																		
System Engineering	-	-	6.100	-	-	4.233	-	-	5.600	-	-	5.650	-	-	-	-	-	5.650
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>6.100</i>	-	-	<i>4.233</i>	-	-	<i>5.600</i>	-	-	<i>5.650</i>	-	-	-	-	-	<i>5.650</i>
Gross/Weapon System Cost	72,963.143	-	1,021.484	5,062.182	-	55.684	7,632.375	-	61.059	8,047.667	-	48.286	-	-	-	8,047.667	-	48.286

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications	P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303142A, 1203142A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	59.971	36.580	62.600	56.737	7.100	63.837	77.680	73.146	74.625	75.551	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	59.971	36.580	62.600	56.737	7.100	63.837	77.680	73.146	74.625	75.551	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	59.971	36.580	62.600	56.737	7.100	63.837	77.680	73.146	74.625	75.551	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>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,052.123	250.548	526.050	578.949	473.333	564.929	592.977	604.512	627.101	1,020.959	Continuing	Continuing

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 supporting a legitimate civil governance in safe and secure environment.

The approved Army Procurement Objective (APO) for Transportable Tactical Command Communications (T2C2) is 424 Lite systems, 390 Heavy systems. The T2C2 Capability Production Document (CPD) was validated in November 2013. T2C2 transitioned into Full Rate Production (FRP) in January 2018 after a successful FRP Decision.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

P-1 Line Item Number / Title:
 2956B85800 / Transportable Tactical Command Communications (T2C)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303142A, 1203142A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B85800 / Transportable Tactical Command Communications (T2C)	P-5a, P-21	A		- / 59.971	- / 36.580	- / 62.600	- / 56.737	- / 7.100	- / 63.837
P-40	Total Gross/Weapon System Cost				- / 59.971	- / 36.580	- / 62.600	- / 56.737	- / 7.100	- / 63.837

*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 2019 base procurement dollars, in the amount of \$56.737 million, supports the procurement and fielding of Full Rate Production (FRP) quantities for T2C2 Light (55) and T2C2 Heavy (33) systems, applicable spares and any approved emerging requirements.

FY 2019 OCO procurement dollars, in the amount of \$7.100 million, supports the procurement and fielding of light-weight small-form modular communications and network packages to remote locations with limited or challenged communications services. The communications and network package will be able to scale from a platoon to battalion size element, include a portable (preferably inflatable) satellite antenna and small-form networking, servers and backup battery equipment. Most importantly, the communications and network package will be transportable by a two-man team to remote locations. Additionally, in order to respond to contingency deployment operations requiring tri-band (X/ Ka/Ku), multiple enclave availability, easily transportable (commercial transport) and scalable communications, funds support 2 scalable and modular systems, each supporting 100 simultaneous users on four enclaves.

"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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)	Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	59.971	36.580	62.600	56.737	7.100	63.837
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	59.971	36.580	62.600	56.737	7.100	63.837
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	59.971	36.580	62.600	56.737	7.100	63.837

(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)	1,052.123	250.548	526.050	578.949	473.333	564.929

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	392.036	28	10.977	402.350	20	8.047	275.921	76	20.970	265.091	55	14.580	-	-	-	265.091	55	14.580
T2C2 Heavy ^(†)	590.286	28	16.528	1,153.667	6	6.922	503.132	38	19.119	466.939	33	15.409	-	-	-	466.939	33	15.409
Software	-	-	2.464	-	-	0.588	-	-	4.396	-	-	4.314	-	-	-	-	-	4.314
System Engineering	-	-	8.938	-	-	5.701	-	-	3.588	-	-	4.303	-	-	-	-	-	4.303
Bridging Capabilities	477.000	12	5.724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	45.171	-	-	21.258	-	-	48.073	-	-	38.606	-	-	-	-	-	38.606
Non Recurring Cost																		
Commercially available systems	-	-	-	-	-	-	-	-	-	-	-	-	546.154	13	7.100	546.154	13	7.100
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	7.100	-	-	7.100
Subtotal: Flyaway Cost	-	-	45.171	-	-	21.258	-	-	48.073	-	-	38.606	-	-	7.100	-	-	45.706
Hardware Cost																		
Non Recurring Cost																		
RHN Upgrades to Support T2C2	-	-	8.349	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	8.349	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)						Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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: Hardware Cost</i>	-	-	8.349	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	1.581	-	-	6.245	-	-	11.861	-	-	12.976	-	-	-	-	-	12.976
<i>Subtotal: Support - Fielding Cost</i>	-	-	1.581	-	-	6.245	-	-	11.861	-	-	12.976	-	-	-	-	-	12.976
Support - Program Management Cost																		
Government Management	-	-	4.870	-	-	4.677	-	-	2.666	-	-	5.155	-	-	-	-	-	5.155
<i>Subtotal: Support - Program Management Cost</i>	-	-	4.870	-	-	4.677	-	-	2.666	-	-	5.155	-	-	-	-	-	5.155
Gross/Weapon System Cost	1,052.123	-	59.971	250.548	-	36.580	526.050	-	62.600	578.949	-	56.737	473.333	-	7.100	564.929	-	63.837

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C				Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
T2C2 Lite ^(t)		2016	GATR Technologies / Huntsville	C / IDIQ	Aberdeen Proving Ground, MD	Jun 2016	Sep 2016	23	375.170	Y		Jun 2013
T2C2 Lite ^(t)		2017	GATR Technologies / Huntsville	C / IDDQ	Aberdeen Proving Ground, MD	Jan 2018	Apr 2018	20	402.350	Y		Jun 2013
T2C2 Lite ^(t)		2018	GATR Technologies / Huntsville	C / IDDQ	Aberdeen Proving Ground, MD	Mar 2018	Jun 2018	76	275.920	Y		Jun 2013
T2C2 Lite ^(t)		2019	GATR Technologies / Huntsville	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2019	Jun 2019	55	265.090	Y		Jun 2013
T2C2 Heavy ^(t)		2016	GATR Technologies / Huntsville	C / IDDQ	Aberdeen Proving Ground, MD	Jun 2016	Sep 2016	23	509.390	Y		Jun 2013
T2C2 Heavy ^(t)		2017	GATR Technologies / Huntsville	C / IDIQ	Aberdeen Proving Ground, MD	Jan 2018	Apr 2018	6	1,153.670	Y		Jun 2013
T2C2 Heavy ^(t)		2018	GATR Technologies / Huntsville	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2018	Jun 2018	38	503.130	Y		Jun 2013
T2C2 Heavy ^(t)		2019	GATR Technologies / Huntsville	C / IDIQ	Aberdeen Proving Ground, MD	Mar 2019	Jun 2019	33	466.940	Y		Jun 2013

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

Remarks:
T2C2 will execute Delivery Orders under an existing Small Business Innovated Research (SBIR) III Indefinite Delivery, Indefinite Quantity (IDIQ) contract to procure system hardware.

FY17 and earlier cost estimates were based on the Program offices pre-Milestone C understanding of the system concept, projected system configuration and projected system costs. Additionally, the high FY17 Unit Cost is driven by the need to procure the spares for systems procured in FY15, FY16 and FY17.
FY18 and beyond cost estimates are based on an updated system concept, actual system configuration and current contract system costs. The current period of performance ends in 4Q FY18, and program is currently working on extending the current contract. System costs beyond the contract ordering period are inflated according to the economic adjustment factor of the current contract.

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18										P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)										Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018														Fiscal Year 2019														BALANCE	
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	S E P					
T2C2 Lite																																			
Prior Years Deliveries: 5																																			
	1	2016	ARMY	23	23	0																							0						
	1	2017	ARMY	20	0	20			A -	-	-	6	7	7															0						
	1	2018	ARMY	76	0	76					A -	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	6		0						
	1	2019	ARMY	55	0	55																				A -	-	-	7	7	7	7	27		
T2C2 Heavy																																			
Prior Years Deliveries: 5																																			
	2	2016	ARMY	23	23	0																								0					
	2	2017	ARMY	6	0	6			A -	-	-	6																		0					
	2	2018	ARMY	38	0	38					A -	-	-	3	7	7	7	7	7											0					
	2	2019	ARMY	33	0	33																				A -	-	-	7	7	7	7	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 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18										P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)										Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020													Fiscal Year 2021													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
T2C2 Lite																																	
Prior Years Deliveries: 5																																	
	1	2016	ARMY	23	23	0																						0					
	1	2017	ARMY	20	20	0																						0					
	1	2018	ARMY	76	76	0																						0					
	1	2019	ARMY	55	28	27	7	7	7	6																		0					
T2C2 Heavy																																	
Prior Years Deliveries: 5																																	
	2	2016	ARMY	23	23	0																						0					
	2	2017	ARMY	6	6	0																						0					
	2	2018	ARMY	38	38	0																						0					
	2	2019	ARMY	33	28	5	5																					0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 2956B85800 / Transportable Tactical Command Communications (T2C)
		Item Number / Title [DODIC]: B85800 / Transportable Tactical Command Communications (T2C)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	1	7	25	0	3	3	6	0	6	3	9
2	GATR Technologies - Huntsville	1	7	25	0	3	3	6	0	6	3	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 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	534.468	26.381	11.622	13.100	-	13.100	16.133	38.687	54.985	22.836	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	534.468	26.381	11.622	13.100	-	13.100	16.133	38.687	54.985	22.836	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	534.468	26.381	11.622	13.100	-	13.100	16.133	38.687	54.985	22.836	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>)	-	-	1,452.750	-	-	-	-	-	-	-	Continuing	Continuing

Description:

The 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, 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. Developing enhancements to the Satellite Communications (SATCOM) modems are ongoing to improve operation in a jamming environment. Specific efforts will include impact and methodology of incorporating the Network Centric Waveform-Resilient (NCW-R) waveform into the Phoenix design baseline so that the Phoenix terminal is postured to implement the NCW-R waveform when it is available. Similarly, as the Air Force develops the Protected Tactical Waveform (PTW), the Phoenix team will keep advised on the progress of this effort in order to implement this waveform. This program is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) for the SHF Terminal is 160. The AAO has been updated to reflect all the Active (112), Reserve (20), National Guard (5), and other special project Army terminals (4) directly funded by the respective programs. All these terminals have been procured by FY2011. In addition, funding for 19 "E" model phoenix terminals are programmed to replace the aging AN/TSC-93 terminals in the Expeditionary Signal Battalions (ESB). Previous reporting had only reflected an AAO of 112, which were directly funded via the Phoenix budget line.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.381	7.622	8.100	-	8.100	9.133	19.687	29.985
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.000	4.000	-	4.000	5.000	16.000	18.000
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.000	1.000	-	1.000	2.000	3.000	7.000
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	26.381	11.622	13.100	-	13.100	16.133	38.687	54.985	22.836

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BA9350 / SHF Term		A		- / 534.468	- / 26.381	- / 11.622	- / 13.100	- / -	- / 13.100
P-40	Total Gross/Weapon System Cost				- / 534.468	- / 26.381	- / 11.622	- / 13.100	- / -	- / 13.100

*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 2019 Base procurement dollars in the amount of \$13.100 million supports implementation of modification work orders (MWOs) to add a standard Internet Protocol (IP) interface and Time Division Multiple Access (TDMA) modems to Phoenix satellite terminals. These modifications will significantly enhance Phoenix interoperability with the Warfighter Information Network - Tactical (WIN-T) terminals. The result of these upgrades will be the E-model Phoenix terminal. These modifications were specified in the Transmission Systems Increment 1 Capabilities Production Document (CPD) 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9810BA9350 / SHF Term	Item Number / Title [DODIC]: BA9350 / SHF Term

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	534.468	26.381	11.622	13.100	-	13.100
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	534.468	26.381	11.622	13.100	-	13.100
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	534.468	26.381	11.622	13.100	-	13.100

(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)	-	-	1,452.750	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	1,650.946	112	184.906	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE	-	-	2.250	-	-	-	-	-	-	-	-	3.213	-	-	-	-	-	3.213
ECP	-	-	17.794	-	-	21.937	-	-	-	-	-	4.834	-	-	-	-	-	4.834
<i>Subtotal: Recurring Cost</i>	-	-	<i>204.950</i>	-	-	<i>21.937</i>	-	-	-	-	-	<i>8.047</i>	-	-	-	-	-	<i>8.047</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>204.950</i>	-	-	<i>21.937</i>	-	-	-	-	-	<i>8.047</i>	-	-	-	-	-	<i>8.047</i>
Logistics Cost																		
Recurring Cost																		
Logistics Services	-	-	76.363	-	-	2.270	-	-	2.315	-	-	2.278	-	-	-	-	-	2.278
Obsolescence Mitigation	-	-	-	-	-	-	-	-	6.882	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>76.363</i>	-	-	<i>2.270</i>	-	-	<i>9.197</i>	-	-	<i>2.278</i>	-	-	-	-	-	<i>2.278</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>76.363</i>	-	-	<i>2.270</i>	-	-	<i>9.197</i>	-	-	<i>2.278</i>	-	-	-	-	-	<i>2.278</i>
Support - Program Management Cost																		
Government Management	-	-	19.319	-	-	0.415	-	-	0.680	-	-	0.694	-	-	-	-	-	0.694
Contractor Management	-	-	17.009	-	-	0.595	-	-	0.750	-	-	1.054	-	-	-	-	-	1.054
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>36.328</i>	-	-	<i>1.010</i>	-	-	<i>1.430</i>	-	-	<i>1.748</i>	-	-	-	-	-	<i>1.748</i>
Support - System Engineering Cost																		
System Engineering	-	-	204.948	-	-	0.610	-	-	0.720	-	-	0.725	-	-	-	-	-	0.725

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18						P-1 Line Item Number / Title: 9810BA9350 / SHF Term						Item Number / Title [DODIC]: BA9350 / SHF Term					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	204.948	-	-	0.610	-	-	0.720	-	-	0.725	-	-	-	-	-	0.725
Support - Training Cost																		
Services	-	-	11.879	-	-	0.554	-	-	0.275	-	-	0.302	-	-	-	-	-	0.302
<i>Subtotal: Support - Training Cost</i>	-	-	11.879	-	-	0.554	-	-	0.275	-	-	0.302	-	-	-	-	-	0.302
Gross/Weapon System Cost	-	-	534.468	-	-	26.381	1,452.750	-	11.622	-	-	13.100	-	-	-	-	-	13.100

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	26.381	7.622	8.100	-	8.100
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	3.000	4.000	-	4.000
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	1.000	1.000	-	1.000
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	26.381	11.622	13.100	-	13.100

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	737.409	8.769	6.799	9.160	-	9.160	2.081	-	-	-	-	764.218
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	737.409	8.769	6.799	9.160	-	9.160	2.081	-	-	-	-	764.218
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	737.409	8.769	6.799	9.160	-	9.160	2.081	-	-	-	-	764.218

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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:

AN/TSC-154A, 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. SMART-T is the Army's only large throughput satellite capability with low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming or eavesdropping. Additionally, 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 have been upgraded to use the Advanced Extremely High Frequency (AEHF) satellite constellation, which provides a four-fold increase in communication capacity over the current MILSTAR system, but retain full backwards compatibility with the Milstar satellites. SMART-T is designated as a DoD Space Program.

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

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.369	5.047	6.160	-	6.160	1.331	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.200	1.502	2.750	-	2.750	0.750	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.200	0.250	0.250	-	0.250	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.769	6.799	9.160	-	9.160	2.081	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BC4002 / SMART-T (SPACE)		A		- / 737.409	- / 8.769	- / 6.799	- / 9.160	- / -	- / 9.160
P-40	Total Gross/Weapon System Cost				- / 737.409	- / 8.769	- / 6.799	- / 9.160	- / -	- / 9.160

*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 2019 Base procurement dollars in the amount of \$9.160 million will be used to implement a modification work order (MWO) to add a standard Internet Protocol (IP) interface to SMART-T terminals and software updates required to continue SMART-T communications with Greater Than Five AEHF Satellites. Upgrading SMART-T with the IP interface will improve the connectivity and interface with WIN-T nodes, support New Equipment Training (NET) Operations, simplify training, and support Army echelons from Corps to Battalion levels. Required software upgrades will enable SMART-T to continue to support networks spanning more than four crosslinks after AEHF Space Vehicle Six is launched in 2019. The MWO meets the requirements in the Transmission Systems Increment 1 Capabilities Production Document (CPD).

 "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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)	Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	737.409	8.769	6.799	9.160	-	9.160
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	737.409	8.769	6.799	9.160	-	9.160
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	737.409	8.769	6.799	9.160	-	9.160

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
EHF SMART-T Terminal Cost	888.198	247	219.385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF Upgrade Mod Kits	637.085	247	157.360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SMART-T Terminal Cost	1,769.667	39	69.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Obsolescence	-	-	2.581	-	-	1.334	-	-	-	-	-	-	-	-	-	-	-	-
Modularity/Army National Guard	-	-	4.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transition to Sustainment	-	-	-	-	-	3.417	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	452.743	-	-	4.751	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Ethernet Repeater Solution	-	-	-	-	-	-	-	-	5.199	-	-	6.108	-	-	-	-	-	6.108
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	5.199	-	-	6.108	-	-	-	-	-	6.108
Subtotal: Flyaway Cost	-	-	452.743	-	-	4.751	-	-	5.199	-	-	6.108	-	-	-	-	-	6.108
Software Cost																		
Non Recurring Cost																		
Software Upgrades for SV6 and Beyond	-	-	-	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)	Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	-	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000
Support - Data Cost																		
Management Data	-	-	1.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	1.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	55.547	-	-	1.160	-	-	0.500	-	-	0.400	-	-	-	-	-	0.400
<i>Subtotal: Support - Fielding Cost</i>	-	-	55.547	-	-	1.160	-	-	0.500	-	-	0.400	-	-	-	-	-	0.400
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	49.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	49.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	80.279	-	-	2.858	-	-	1.100	-	-	0.652	-	-	-	-	-	0.652
<i>Subtotal: Support - Program Management Cost</i>	-	-	80.279	-	-	2.858	-	-	1.100	-	-	0.652	-	-	-	-	-	0.652
Support - System Engineering Cost																		
System Engineering	-	-	66.989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	66.989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Operational Test and Evaluation	-	-	30.845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	30.845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	737.409	-	-	8.769	-	-	6.799	-	-	9.160	-	-	-	-	-	9.160

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.369	5.047	6.160	-	6.160

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9910BC4002 / SMART-T (SPACE)	Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	2.200	1.502	2.750	-	2.750
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	2.200	0.250	0.250	-	0.250
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	8.769	6.799	9.160	-	9.160

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	303.977	-	7.065	25.647	-	25.647	20.301	7.000	-	-	-	363.990
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	303.977	-	7.065	25.647	-	25.647	20.301	7.000	-	-	-	363.990
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	303.977	-	7.065	25.647	-	25.647	20.301	7.000	-	-	-	363.990

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	39.250	170.980	-	170.980	121.563	-	-	-	-	732.374

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. The TGRS is fielded to Battalion, Brigade Combat Teams, Division, Corps and Theater level units in Active, National Guard, and reserve components.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	4.565	21.647	-	21.647	16.301	4.000	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.000	3.000	-	3.000	3.000	2.000	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.500	1.000	-	1.000	1.000	1.000	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.065	25.647	-	25.647	20.301	7.000	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	BC4120 / Global Brdcst Svc - GBS	P-5a	A		- / 303.977	- / -	- / 7.065	- / 25.647	- / -	- / 25.647
P-40	Total Gross/Weapon System Cost				- / 303.977	- / -	- / 7.065	- / 25.647	- / -	- / 25.647

*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 2019 Base funds in the amount of \$25.647M will be used to procure and begin fielding of 85 AN/TSR-11 systems (WIN10), completing the approved Basis of Issue (BOI) of 1,064 systems. AN/TSR-11 non-TRANSEC tech refresh upgrade of 979 AN/TSR-11 (WIN7) to WIN10 will be completed with the purchase of 1,051 laptops. Army Interoperability Testing (AIT) will be conducted.

TRADOC Capability Manager (TCM) is working with the Department of the Army (DA) for approval to increase BOI from 1,064 to 1,407 (expected to be approved in FY 2018). FY 2019 funds will also procure 50 AN/TSR-11 systems (WIN10) towards the BOI increase.

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 2019 Army						Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: 9915BC4120 / Global Brdcst Svc - GBS			Item Number / Title [DODIC]: BC4120 / Global Brdcst Svc - GBS		
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			303.977	-	7.065	25.647	-	25.647
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			303.977	-	7.065	25.647	-	25.647
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			303.977	-	7.065	25.647	-	25.647
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	39.250	170.980	-	170.980

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Tech Refresh (Laptops)	-	-	-	-	-	-	3.904	307	1.199	3.904	1,051	4.103	-	-	-	3.904	1,051	4.103
Other	-	-	9.441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transportable Grnd Rec Suite (AN/TSR-8)	139.508	710	99.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8	27.156	979	26.586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trans Grnd Rec Suite TGRS-11 For Testing	85.000	4	0.340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transportable Ground Receive Suite (TGRS) ^(†)	55.216	365	20.154	-	-	-	-	-	-	116.505	135	15.728	-	-	-	116.505	135	15.728
GFE	-	-	9.664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSBM JIPM Mini Hub	5,600.000	1	5.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Theater Satellite Broadcast Mngr (TSBM)	3,380.000	3	10.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHF Terminal (replaces TTI RF head)	2,218.000	2	4.436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHF Terminal GFE/Fielding/Training	-	-	1.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>186.438</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>1.199</i>	<i>-</i>	<i>-</i>	<i>19.831</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>19.831</i>

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18		P-1 Line Item Number / Title: 9915BC4120 / Global Brdcst Svc - GBS
		Item Number / Title [DODIC]: BC4120 / Global Brdcst Svc - GBS

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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Non Recurring Cost																		
Test	-	-	6.776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	6.776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	193.214	-	-	-	-	-	1.199	-	-	19.831	-	-	-	-	-	19.831
Software Cost																		
Recurring Cost																		
Software Procurement	-	-	-	-	-	-	-	-	0.480	7.000	135	0.945	-	-	-	7.000	135	0.945
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.480	-	-	0.945	-	-	-	-	-	0.945
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	0.480	-	-	0.945	-	-	-	-	-	0.945
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	20.475	-	-	-	-	-	1.328	-	-	1.429	-	-	-	-	-	1.429
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	20.475	-	-	-	-	-	1.328	-	-	1.429	-	-	-	-	-	1.429
Support - Fielding Cost																		
Fielding	-	-	49.117	-	-	-	-	-	3.300	-	-	2.650	-	-	-	-	-	2.650
<i>Subtotal: Support - Fielding Cost</i>	-	-	49.117	-	-	-	-	-	3.300	-	-	2.650	-	-	-	-	-	2.650
Support - Operational/Site Activation Cost																		
Sustainment/Interim Contractor Support	-	-	26.371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	26.371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	14.799	-	-	-	-	-	0.758	-	-	0.792	-	-	-	-	-	0.792
<i>Subtotal: Support - Program Management Cost</i>	-	-	14.799	-	-	-	-	-	0.758	-	-	0.792	-	-	-	-	-	0.792
Gross/Weapon System Cost	-	-	303.977	-	-	-	39.250	-	7.065	170.980	-	25.647	-	-	-	170.980	-	25.647

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	4.565	21.647	-	21.647
ANG	Quantity	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9915BC4120 / 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) : A **MDAP/MAIS Code:**

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
	-	2.000	3.000	-	3.000
AR	-	-	-	-	-
	-	0.500	1.000	-	1.000
Total: Secondary Distribution	-	-	-	-	-
	-	7.065	25.647	-	25.647

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9915BC4120 / 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
Transportable Ground Receive Suite (TGRS)		2019	TBD / TBD	C / FFP	TBD	Mar 2019	Apr 2019	135	116.500			

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	107.116	-	21.667	37.401	-	37.401	8.653	-	-	-	-	174.837
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	107.116	-	21.667	37.401	-	37.401	8.653	-	-	-	-	174.837
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.116	-	21.667	37.401	-	37.401	8.653	-	-	-	-	174.837

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	2,166.700	1,496.040	-	1,496.040	4,326.500	-	-	-	-	4,725.324

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 to support required 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.

No EMC quantities are shown due to only procuring Modification Work Orders (MWO) in FY2018-20. No end items are procured.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	21.667	37.401	-	37.401	8.653	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	21.667	37.401	-	37.401	8.653	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B00015 / Enroute Mission Command (EMC)	P-5a			- / 107.116	- / -	- / 21.667	- / 37.401	- / -	- / 37.401
P-40	Total Gross/Weapon System Cost				- / 107.116	- / -	- / 21.667	- / 37.401	- / -	- / 37.401

*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 2019 Base dollars in the amount of \$37.401 million procures Ka Fixed Satellite Antenna (FISA) Modification Work Order (MWO) hardware, fielding, spares, training, bandwidth, software and program office support. In FY2019 the program continues the procurement of approximately 70% of the Ka MWO to upgrade the existing Ku FISA fleet.

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

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

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

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

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

"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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9922B08400 / 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:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	107.116	-	21.667	37.401	-	37.401
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	107.116	-	21.667	37.401	-	37.401
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	107.116	-	21.667	37.401	-	37.401

(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)	-	-	2,166.700	1,496.040	-	1,496.040

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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)	-	-	6.127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KuKa Fixed Installed Satellite Antenna (FISA)	-	-	18.820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ku Fixed Installed Satellite Antenna (FISA) ^(t)	837.000	30	25.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key Leader En Route Node (KEN)	784.000	8	6.272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dependent Airborne Node (DAN)	133.000	24	3.192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MWO FISA (Ka)	-	-	0.455	-	-	-	-	-	9.190	-	-	26.743	-	-	-	-	-	26.743
MWO KEN (Ka)	-	-	-	-	-	-	-	-	3.413	-	-	2.029	-	-	-	-	-	2.029
Fielding/FSR	-	-	1.665	-	-	-	-	-	1.224	-	-	1.224	-	-	-	-	-	1.224
Spares	-	-	5.690	-	-	-	-	-	0.847	-	-	0.927	-	-	-	-	-	0.927
Training/Bandwidth	-	-	7.032	-	-	-	-	-	2.746	-	-	2.532	-	-	-	-	-	2.532
PDSS	-	-	6.447	-	-	-	-	-	1.534	-	-	1.179	-	-	-	-	-	1.179
Additional Hardware (Screens and Marquees)	-	-	20.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>100.810</i>	-	-	-	-	-	<i>18.954</i>	-	-	<i>34.634</i>	-	-	-	-	-	<i>34.634</i>

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18	P-1 Line Item Number / Title: 9922B08400 / 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:
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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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Flyaway Cost</i>	-	-	100.810	-	-	-	-	-	18.954	-	-	34.634	-	-	-	-	-	34.634
Checkout and Launch Cost																		
Government Management	-	-	2.585	-	-	-	-	-	1.911	-	-	1.950	-	-	-	-	-	1.950
Contractor Management	-	-	3.721	-	-	-	-	-	0.802	-	-	0.817	-	-	-	-	-	0.817
<i>Subtotal: Checkout and Launch Cost</i>	-	-	6.306	-	-	-	-	-	2.713	-	-	2.767	-	-	-	-	-	2.767
Gross/Weapon System Cost	-	-	107.116	-	-	-	2,166.700	-	21.667	1,496.040	-	37.401	-	-	-	1,496.040	-	37.401

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	21.667	37.401	-	37.401
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	21.667	37.401	-	37.401

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18			P-1 Line Item Number / Title: 9922B08400 / 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 (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Ku Fixed Installed Satellite Antenna (FISA)		2015	STS International, Inc / Berkeley Springs, WV	C / FFP	Orlando, FL	Sep 2016	May 2017	30	837.000	Y	Sep 2016	Feb 2016

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.047	2.299	-	-	-	-	-	-	-	-	-	6.346
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.047	2.299	-	-	-	-	-	-	-	-	-	6.346
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.047	2.299	-	-	-	-	-	-	-	-	-	6.346

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

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

Description:

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

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

Justification:

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 20: Comm - Combat Support Comm	P-1 Line Item Number / Title: 0207K27910 / Mod-In-Service 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.902	-	0.070	-	-	-	-	-	-	-	-	1.972
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.902	-	0.070	-	-	-	-	-	-	-	-	1.972
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.902	-	0.070	-	-	-	-	-	-	-	-	1.972

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

Justification:

Program has no FY 2019 requirement, as the program is transitioning to sustainment.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8148BA8250 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	408.607	2.530	2.658	-	-	-	-	-	-	-	-	413.795
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	408.607	2.530	2.658	-	-	-	-	-	-	-	-	413.795
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	408.607	2.530	2.658	-	-	-	-	-	-	-	-	413.795

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 is being 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 / Tactical Server Infrastructure.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.530	2.658	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.530	2.658	-	-	-	-	-	-	-

Justification:

No FY 2019 funding is being requested for this line, as GCCS-A will be transitioning into sustainment.

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 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	436	-	436	-	-	-	-	-	436
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	20.500	-	20.500	31.672	31.085	30.392	49.209	-	162.858
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	20.500	-	20.500	31.672	31.085	30.392	49.209	-	162.858
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	20.500	-	20.500	31.672	31.085	30.392	49.209	-	162.858

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	47.018	-	47.018	-	-	-	-	-	373.528

Description:

The Tactical Server Infrastructure (TSI), line item B7000, is not a new start program. Tactical Server Infrastructure (TSI) was previously procured under the Maneuver Control System (MCS), line item BZ9320.

Tactical Server Infrastructure (TSI) provides the hosting platform for the Command Posts, using an open systems architecture. In support of Common Operating Environment (COE) objectives, the TSI server stack will standardize the specifications of the command post server. It will consist of common standardized server hardware and software (common server capability, data storage, and web/virtualization/widget/application hosting environment), data services, and collaboration services. TSI is intended to converge both mission command and intelligence systems on a common server. The TSI will come in two hardware configurations: a TSI Large server that provides a reduced Size, Weight and Power (SWAP) than the currently fielded servers that will support Brigade and higher formations, and a TSI Small server that will support Battalion level and higher formations for disaster/early entry operations.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	196	-	196	-	-	-	-
	Total Obligation Authority	-	-	9.220	-	9.220	31.672	31.085	30.392	49.209
ANG	Quantity	-	-	153	-	153	-	-	-	-
	Total Obligation Authority	-	-	7.191	-	7.191	-	-	-	-
AR	Quantity	-	-	87	-	87	-	-	-	-
	Total Obligation Authority	-	-	4.089	-	4.089	-	-	-	-
Total:	Quantity	-	-	436	-	436	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	20.500	-	20.500	31.672	31.085	30.392	49.209

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B70005 / Tactical Server Infrastructure (TSI)	P-5a			- / -	- / -	- / -	436 / 20.500	- / -	436 / 20.500
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	436 / 20.500	- / -	436 / 20.500

*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 2019 Base procurement supports the purchase of 61 TSI Large and 375 TSI Small servers, server software and associated fielding/new equipment training support to ensure that the Warfighter will be able to communicate effectively, allowing for increased situational awareness and executive decision making capability in a collaborative 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24		P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)
		Item Number / Title [DODIC]: B70005 / Tactical Server Infrastructure (TSI)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	436	-	436
Gross/Weapon System Cost (\$ in Millions)	-	-	-	20.500	-	20.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	20.500	-	20.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	20.500	-	20.500

(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)	-	-	-	47.018	-	47.018

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Hardware TSI Large Server ^(f)	-	-	-	-	-	-	-	-	-	243.852	61	14.875	-	-	-	243.852	61	14.875
Hardware TSI Small Server ^(f)	-	-	-	-	-	-	-	-	-	7.000	375	2.625	-	-	-	7.000	375	2.625
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	17.500	-	-	-	-	-	17.500
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	17.500	-	-	-	-	-	17.500
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	1.250	-	-	-	-	-	1.250
Subtotal: Support - Fielding Cost	-	-	-	-	-	-	-	-	-	-	-	1.250	-	-	-	-	-	1.250
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	0.750	-	-	-	-	-	0.750
Subtotal: Support - New Equipment Training (NET) Cost	-	-	-	-	-	-	-	-	-	-	-	0.750	-	-	-	-	-	0.750
Support - Program Management Cost																		
Contractor Management	-	-	-	-	-	-	-	-	-	-	-	0.350	-	-	-	-	-	0.350
Subtotal: Support - Program Management Cost	-	-	-	-	-	-	-	-	-	-	-	0.350	-	-	-	-	-	0.350
Support - System Engineering Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24	P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)	Item Number / Title [DODIC]: B70005 / Tactical Server Infrastructure (TSI)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
System Engineering	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.650
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.650
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	47.018	436	20.500	-	-	-	47.018	436	20.500

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24			P-1 Line Item Number / Title: 8151B70000 / COE Tactical Server Infrastructure (TSI)					Item Number / Title [DODIC]: B70005 / Tactical Server Infrastructure (TSI)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardward TSI Large Server		2019	CHS / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Nov 2018	May 2019	61	243.850			
Hardware TSI Small Server		2019	CHS / Taunton, MA	C / IDIQ	Aberdeen Proving Ground, MD	Nov 2018	May 2019	375	7.000			

Remarks:
Procured items are COTS/GOTS.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 6450B90000 / 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: 385

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	201	-	-	-	-	-	-	-	-	-	-	201
Gross/Weapon System Cost (<i>\$ in Millions</i>)	596.568	-	-	-	1.560	1.560	-	-	-	-	-	598.128
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	596.568	-	-	-	1.560	1.560	-	-	-	-	-	598.128
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	596.568	-	-	-	1.560	1.560	-	-	-	-	-	598.128

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2,968.000	-	-	-	-	-	-	-	-	-	-	2,975.761

Description:

B90000 is a summary of Procurement funding for the Handheld Manpack Small Form Fit (HMS) program: B90210 (JTRS HMS - Handheld) and B90215 (JTRS HMS - Manpack); RDTE funding for the 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 transferred from the parent B90000 to the parent B95004. B90210 and B90215 transferred 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.

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a materiel solution meeting requirements for Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government Purpose Rights software waveforms (applications). HMS is an Acquisition Category IC program that encompasses specific requirements to support the U.S. Army, Air Force, Navy, Marine Corps and Special Operations Command communications 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 radio systems are software reprogrammable, networkable, multi-mode systems capable of simultaneous voice and data communications.

HMS encompasses the Handheld (HH) Radios (one-channel Rifleman Radio (RR) and two-channel Leader Radio (LR)), MP, and Small Form Fit (SFF) radios. HMS radios will provide voice and support for data services such as text, control graphics, imagery, video, and telemetry to Warfighters and tactical end user devices including handheld, embedded, and larger computing devices, as well as unmanned systems.

The current HH AAO (Army Acquisition Objective) is 193,279:
-100,000 LR
-93,279 RR

The current MP AAO is 65,622

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 6450B90000 / 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: 385

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	1.560	1.560	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	1.560	1.560	-	-	-	-

Justification:
 FY 2019 OCO funding in the amount of \$1.560 million is requested in this SSN in error. Funds support the Handheld Manpack Small Form Fit (HMS) program, SSN B95004, but were programmed in this line in error. The error was detected too late to make the correction formally. Funds should be appropriated in B95004, specifically to support Handheld Radio, B95006.

All funding previously requested in the JTRS program has been realigned from the parent B90000 to the parent Handheld Manpack Small Form Fit (HMS), 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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	268.122	355.351	351.565	0.000	351.565	516.764	494.978	549.059	598.002	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	268.122	355.351	351.565	0.000	351.565	516.764	494.978	549.059	598.002	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	268.122	355.351	351.565	0.000	351.565	516.764	494.978	549.059	598.002	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>)	-	230.543	102.941	38.280	-	37.876	43.916	48.819	48.883	47.623	Continuing	Continuing

Description:

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution providing software-defined radio systems that are tailorable and scalable to support the "fight tonight". HMS is an Acquisition Category (ACAT) IC Program that encompasses specific requirements to support the US Army, US Marine Corps, US Air Force, US Navy, and Special Forces communication needs.

HMS provides voice and data communications to the expeditionary Warfighter with an on the move, at the halt, and stationary Line of Sight (LOS)/ Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. HMS radio systems are software reprogrammable, networkable multi-mode systems capable of simultaneous voice, data and video communications.

HMS encompasses the Handheld (HH) Radios (one-channel Rifleman Radio (RR) and two-channel Leader Radio (LR), MP, and Small Form Fit (SFF) radios. HMS radios will provide voice and support for data services such as text, control graphics, imagery, video, and telemetry to Warfighters and tactical end user devices including handheld, embedded, and larger computing devices, as well as unmanned systems. The program office will continue with the ongoing competition to procure the newest generation of software defined radios capable of running the threshold waveforms, to include MUOS for MP, and will pursue alternative waveforms to reduce the complexity of Mobile AdHoc Networking waveforms, improve spectral efficiency, and seek Electronic Counter-Countermeasures improvements for operations in contested environment.

The RR is a handheld radio that connects soldiers at the lowest echelon of the Army network. It is a National Security Agency (NSA) certified Type 1 radio used for transmission of up to SECRET information. The RR provides one-channel secure voice and data communications using Soldier Radio Waveform (SRW). It is the primary squad level communication system. The LR is a Multiband two-channel handheld radio to be used at the Team, Squad, and Platoon level. The LR will simultaneously support Single Channel Ground and Airborne Radio System (SINCGARS) voice interoperability, SRW data and voice communications, and other advanced networking waveform communications, in one radio with both handheld and mounted configurations. On 13 September 2016 the Army Acquisition Executive (AAE) approved a decrease to the Basis of Issue (BOI) for the single channel Rifleman Radio (RR), an increase to the BOI for the two channel Leader Radio (LR) and to move forward with acquisition activities for the two channel LR. Single channel RR procurement has been deferred.

The MP radio is a NSA certified Type 1 radio used for transmission of up to SECRET information. MP is capable of providing two simultaneous channels of secure voice and data communications using SINCGARS, SRW, Demand Assigned Multiple Access Satellite Communication, Mobile User Objective System (MUOS) waveform, and other networking waveforms. The MP provides range extension and connects soldiers in the lower tier network to the mid-tier network. It is interoperable with legacy waveforms and capable of route and retransmission and cross-banding. The MP provides networking waveforms connectivity, Networked LOS / BLOS voice and data communications. The MP will serve as the vehicular and man-packable tactical LOS radio.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604280A, 0605042A
Line Item MDAP/MAIS Code: N/A		
<p>HMS is currently executing a May 2014 approved Acquisition Strategy (AS) to procure Non-Developmental Items (NDI) through full and open competition open to all potential industry partners. An addendum to the AS was approved by the acting Army Acquisition Executive on 8 March 2017, which incorporates the LR requirements. Two Firm-Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) contracts were awarded in support of this effort. The first contract was awarded on 29 April 2015 to procure HH. The initial Delivery Order on this contract was to procure RR to test at the HMS Customer Test. The second contract was awarded on 26 February 2016 and will procure NDI MP radios for use in a classified environment. The Program Office released the solicitation for the two channel LR to support Qualification Testing in FY 2018. The Program Office will request objective capabilities and seek a best value effort to increase operational flexibility. MP is capable of running the following waveforms: SRW, SINCGARS, Satellite Communications (SATCOM), and Mobile User Objective System (MUOS).</p> <p>The Army will award FFP IDIQ Contracts and will procure radios through a multiple step selection process:</p> <ol style="list-style-type: none"> Award FFP Contracts to all qualified vendors based on technical acceptability and demonstrations (26 February 2016 for MP and 3QFY18 for LR) Award initial delivery orders based on Qualification Test results (19 December 2016 for MP and 3QFY18 for LR) Award second delivery orders based on Customer Test results (31 July 2017 for MP and N/A for LR) Award LRIP 4QFY18 for MP Award FRP delivery orders based on best value trade off construct (4QFY19 for MP and 4QFY19 for LR) <p>The current Handheld AAO (Army Acquisition Objective) is 193,279: -100,000 Leader Radios -93,279 Rifleman Radios</p> <p>The current Manpack AAO is 65,622.</p> <p>The Army received Congressional approval to execute \$90.000 million FY 2017 funding to procure tactical radios and associated equipment to support Security Force Assistance Brigades (SFAB) fielding.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B95006 / Handheld Radio	P-5a, P-21			- / -	- / 43.734	- / 37.773	- / 79.802	- / 0.000	- / 79.802
P-5	B95007 / Manpack Radio	P-5a, P-21			- / -	- / 224.388	- / 317.578	- / 271.763	- / -	- / 271.763
P-40	Total Gross/Weapon System Cost				- / -	- / 268.122	- / 355.351	- / 351.565	- / 0.000	- / 351.565

*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 2019 Base procurement dollars in the amount of \$351.565 million support the procurement of:
 - 5,375 LR, (of which 1,717 are Mounted LR) Non-Recurring Engineering (NRE), System Engineering and Program Management (SEPM), support equipment, fielding, and vehicle integration. (\$79.802 million)
 - 3,509 MP Radios, NRE, SEPM, support equipment, fielding, and vehicle integration. (\$271.763 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	43.734	37.773	79.802	0.000	79.802
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	43.734	37.773	79.802	0.000	79.802
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				-	43.734	37.773	79.802	0.000	79.802
<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)				-	45.509	125.910	14.847	-	14.581

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Manufacturing - Leader Radio ^(f)	-	-	-	12.036	252	3.033	11.361	366	4.158	7.412	3.658	27.113	-	-	-	7.412	3,658	27.113
Manufacturing - Leader Radio Mounted ^(f)	-	-	-	33.932	44	1.493	28.357	140	3.970	21.644	1,717	37.162	-	-	-	21.644	1,717	37.162
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.526	-	-	8.128	-	-	64.276	-	-	-	-	-	64.276
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	4.526	-	-	8.128	-	-	64.276	-	-	-	-	-	64.276
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	-	-	-	12.046	-	-	3.453	-	-	4.558	-	-	-	-	-	4.558
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	-	-	-	12.046	-	-	3.453	-	-	4.558	-	-	-	-	-	4.558
Support - Data Cost																		
Engineering Data	-	-	-	-	-	1.394	-	-	0.300	-	-	0.516	-	-	-	-	-	0.516
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	1.394	-	-	0.300	-	-	0.516	-	-	-	-	-	0.516
Support - Fielding Cost																		
Fielding	-	-	-	-	-	10.980	-	-	1.970	-	-	3.573	-	-	-	-	-	3.573
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	10.980	-	-	1.970	-	-	3.573	-	-	-	-	-	3.573
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	1.473	-	-	3.234	-	-	4.632	-	-	-	-	-	4.632

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)						Item Number / Title [DODIC]: B95006 / Handheld Radio					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	1.473	-	-	3.234	-	-	4.632	-	-	-	-	-	4.632
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	-	-	-	13.315	-	-	20.688	-	-	2.247	-	-	-	-	-	2.247
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	13.315	-	-	20.688	-	-	2.247	-	-	-	-	-	2.247
Gross/Weapon System Cost	-	-	-	45.509	-	43.734	125.910	-	37.773	14.847	-	79.802	-	-	0.000	14.581	-	79.802

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Manufacturing - Leader Radio ^(†)		2017	TBD / TBD	C / FFP	APG, MD	Feb 2018	Apr 2018	252	12.040	N	Aug 2017	Aug 2017
Manufacturing - Leader Radio ^(†)		2018	TBD / TBD	C / FFP	APG, MD	Sep 2019	Dec 2019	366	11.360	N	Sep 2018	Sep 2018
Manufacturing - Leader Radio ^(†)		2019	TBD / TBD	C / FFP	APG, MD	Sep 2019	Dec 2019	3,658	7.410	N	Sep 2018	Sep 2018
Manufacturing - Leader Radio Mounted ^(†)		2017	TBD / TBD	C / FFP	APG, MD	Feb 2018	Apr 2018	44	33.930		Aug 2017	Aug 2017
Manufacturing - Leader Radio Mounted ^(†)		2018	TBD / TBD	C / FFP	APG, MD	Sep 2019	Dec 2019	140	28.360	N	Sep 2018	Sep 2018
Manufacturing - Leader Radio Mounted ^(†)		2019	TBD / TBD	C / FFP	APG, MD	Sep 2019	Dec 2019	1,717	21.640	N	Sep 2018	Sep 2018

^(†) indicates the presence of a P-21

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

Vendors for the RR FRP contract are Harris Radio Corp (Rochester, NY) and Thales Communications (Clarksburg, MD). The Army has made the decision to pursue a two-channel handheld LR to meet the developing needs of Nett Warrior and the Warfighter community. The LR contract award is planned for 2Q2018. Quantities shown may be split if multiple vendors qualify for award. Requirements for the single channel RR have been deferred to a later date.

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
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Cost Elements <i>(Units in 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
Manufacturing - Leader Radio																															
	1	2017	ARMY	252	0	252																									0
	1	2018	ARMY	366	0	366																								A -	366
	1	2019	ARMY	3,658	0	3,658																								A -	3,658
Manufacturing - Leader Radio Mounted																															
	2	2017	ARMY	44	0	44																									0
	2	2018	ARMY	140	0	140																								A -	140
	2	2019	ARMY	1,717	0	1,717																								A -	1,717

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Manufacturing - Leader Radio																																			
	1	2017	ARMY	252	252	0																							0						
	1	2018	ARMY	366	0	366	-	-	183	183																			0						
	1	2019	ARMY	3,658	0	3,658	-	-	305	305	305	305	305	305	305	305	305	305	304	304									0						
Manufacturing - Leader Radio Mounted																																			
	2	2017	ARMY	44	44	0																							0						
	2	2018	ARMY	140	0	140	-	-	70	70																			0						
	2	2019	ARMY	1,717	0	1,717	-	-	144	143	143	143	143	143	143	143	143	143	143	143	143								0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95006 / Handheld Radio
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	75	500	0	0	0	0	0	0	0	0	0
2	TBD - TBD	1	75	500	0	0	0	0	0	0	0	0	0

Remarks:
Based on the Army's requirements and the number of vendors, min/max production rates will be determined at that time. Current LR quantities reflect planned competition test quantities.

"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 2019 Army					Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)			Item Number / Title [DODIC]: B95007 / Manpack Radio		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	224.388	317.578	271.763	-	271.763
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	224.388	317.578	271.763	-	271.763
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	224.388	317.578	271.763	-	271.763
<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>)			-	1,110.832	100.754	71.348	-	71.348

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	-	-	-	138.614	202	28.000	60.416	3,152	190.430	60.616	3,509	212.702	-	-	-	60.616	3,509	212.702
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	28.000	-	-	190.431	-	-	212.702	-	-	-	-	-	212.702
Non Recurring Cost																		
Hardware NRE	-	-	-	-	-	0.250	-	-	33.380	-	-	-	-	-	-	-	-	-
SFAB	-	-	-	-	-	90.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	90.250	-	-	33.380	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	118.250	-	-	223.811	-	-	212.702	-	-	-	-	-	212.702
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	-	-	-	4.115	-	-	5.181	-	-	5.882	-	-	-	-	-	5.882
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	-	-	-	4.115	-	-	5.181	-	-	5.882	-	-	-	-	-	5.882
Support - Data Cost																		
Engineering Data	-	-	-	-	-	12.181	-	-	0.991	-	-	1.107	-	-	-	-	-	1.107
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	12.181	-	-	0.991	-	-	1.107	-	-	-	-	-	1.107
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	5.713	-	-	6.381	-	-	-	-	-	6.381

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32						P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)						Item Number / Title [DODIC]: B95007 / Manpack Radio					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	-	-	-	-	-	-	5.713	-	-	6.381	-	-	-	-	-	6.381
Support - Fielding Cost																		
Fielding	-	-	-	-	-	3.605	-	-	12.484	-	-	13.479	-	-	-	-	-	13.479
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	3.605	-	-	12.484	-	-	13.479	-	-	-	-	-	13.479
Support - Operational/Site Activation Cost																		
System Assembly, Installation and Checkout on Site	-	-	-	-	-	10.390	-	-	24.492	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	-	-	-	10.390	-	-	24.492	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	32.482	-	-	36.238	-	-	23.370	-	-	-	-	-	23.370
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	32.482	-	-	36.238	-	-	23.370	-	-	-	-	-	23.370
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	-	-	-	43.365	-	-	8.668	-	-	8.842	-	-	-	-	-	8.842
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	43.365	-	-	8.668	-	-	8.842	-	-	-	-	-	8.842
Gross/Weapon System Cost	-	-	-	1,110.832	-	224.388	100.754	-	317.578	71.348	-	271.763	-	-	-	71.348	-	271.763

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Recurring Manufacturing - Manpack ^(†)		2017	Rockwell Collins Inc / Iowa	C / FFP	APG, MD	Jul 2017	Apr 2018	101	78.560	N	Jul 2017	Jul 2017
Recurring Manufacturing - Manpack ^(†)		2017	Harris Corp / New York	C / FFP	APG, MD	Jul 2017	Apr 2018	101	78.560	N	Jul 2017	Jul 2017
Recurring Manufacturing - Manpack ^(†)		2018	Rockwell Collins Inc / Iowa	C / FFP	APG, MD	Jul 2018	Apr 2019	1,576	60.420	N	Jul 2018	Jul 2018
Recurring Manufacturing - Manpack ^(†)		2018	Harris Corp / New York	C / FFP	APG, MD	Jul 2018	Apr 2019	1,576	60.420	N	Jul 2018	Jul 2018
Recurring Manufacturing - Manpack ^(†)		2019	Rockwell Collins Inc / Iowa	C / FFP	APG,MD	Jul 2019	Apr 2020	1,755	60.620	N	Jul 2019	Jul 2019
Recurring Manufacturing - Manpack ^(†)		2019	Harris Corp / New York	C / FFP	APG, MD	Jul 2019	Apr 2020	1,754	60.620	N	Jul 2019	Jul 2019

^(†) indicates the presence of a P-21

Remarks:

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

As of August 2017, vendors for the MP FRP contract are Harris Radio Corp (Rochester, NY) and Rockwell Collins Inc. (Cedar Rapids, IA). Both vendors were awarded a delivery order in July of 2017 with deliveries expected in 3rd quarter FY 2018.

FY 2017 procurement funding (\$90.000 million) was reprogrammed to support Security Force Assistance Brigades (SFAB) fielding.

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 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	101	0	101																								0	
2		2017	ARMY	101	0	101																								0	
1		2018	ARMY	1,576	0	1,576																								1,576	
2		2018	ARMY	1,576	0	1,576																								1,576	
1		2019	ARMY	1,755	0	1,755																								1,755	
2		2019	ARMY	1,754	0	1,754																								1,754	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE			
O C C #	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		
Recurring Manufacturing - Manpack																																	
1		2017	ARMY	101	101	0																							0				
2		2017	ARMY	101	101	0																							0				
1		2018	ARMY	1,576	0	1,576	-	-	-	-	-	-	132	132	132	132	131	131	131	131	131	131	131	131	131	131	131	0					
2		2018	ARMY	1,576	0	1,576	-	-	-	-	-	-	132	132	132	132	131	131	131	131	131	131	131	131	131	131	0						
1		2019	ARMY	1,755	0	1,755										A	-	-	-	-	-	-	-	-	-	146	146	146	146	146	146	146	879
2		2019	ARMY	1,754	0	1,754										A	-	-	-	-	-	-	-	-	-	146	146	146	146	146	146	146	878
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Recurring Manufacturing - Manpack																															
1		2017	ARMY	101	101	0																							0		
2		2017	ARMY	101	101	0																							0		
1		2018	ARMY	1,576	1,576	0																							0		
2		2018	ARMY	1,576	1,576	0																							0		
1		2019	ARMY	1,755	876	879	146	146	146	146	147	148																	0		
2		2019	ARMY	1,754	876	878	146	146	146	146	147	147																	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 6458B95004 / Handheld Manpack Small Form Fit (HMS)	Item Number / Title [DODIC]: B95007 / Manpack Radio
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	Rockwell Collins Inc - Iowa	1	21	300	0	1,576	0	1,576	0	0	0	0
2	Harris Corp - New York	1	21	300	0	1,576	0	1,576	0	0	0	0

Remarks:
The procurement of Manpack Radios in FY 2017 was awarded 31 July 2017 and procured 101 Operational Test assets from each vendor (202 Manpack Radios total).

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 6506B51001 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	4,923	241	77	-	-	-	-	-	-	-	-	5,241
Gross/Weapon System Cost (<i>\$ in Millions</i>)	97.759	30.020	25.100	-	-	-	-	-	-	-	-	152.879
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	97.759	30.020	25.100	-	-	-	-	-	-	-	-	152.879
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	97.759	30.020	25.100	-	-	-	-	-	-	-	-	152.879

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	19.858	124.564	325.974	-	-	-	-	-	-	-	-	29.170

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 networks from the brigade to the platoon level throughout the full range of military operations.

The MNVR, a modified Non-Developmental Item (NDI), supports Army Mission Command operational requirements with a multi-channel, Type 1 (supporting multiple independent levels of security), vehicular mounted radio hosting networking waveforms. The MNVR narrows the data capability gap at the Brigade Combat Team (BCT) company level and provides the capability to build a data extension to the lowest echelons, and then enables the extension of services from the Forward Operating Base (FOB) to the platform. MNVR provides a dynamic, scalable, On-the-Move (OTM) network architecture, connecting the Soldier to the Mission Command (MC) Network and enhances capability to exchange voice and data simultaneously and faster than current systems. The advanced network waveforms provide rapid distribution of data and imagery with increased information assurance protection and automatic routing across complex terrain. The system operates Internet Protocol (IP) based networking waveforms offering increased data throughput through self-forming, self-healing, managed communication networks. Its route and retransmit functionality links waveforms in different frequency bands, within the 2 Megahertz (MHz) to 2 Gigahertz (GHz) range, to form one cohesive network. MNVR nomenclature has been designated as AN/VRC-118(V)1.

A single award contract was awarded on 24 September 2013, Indefinite Delivery Indefinite Quantity (IDIQ), firm fixed price, 3-year ordering period. Production of 232 radios for Test & Evaluation and certification purposes was completed in 3QFY 2014. On 3 Oct 2016, Defense Acquisition Executive (DAE) published a MNVR MS C Acquisition Decision Memorandum. Product Director (PdD) MNVR will prepare for Government Regression Testing (GRT) and evaluation planning for First Unit Equipped (FUE).

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	241	77	-	-	-	-	-	-
	Total Obligation Authority	30.020	25.100	-	-	-	-	-	-
Total:	Quantity	241	77	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	30.020	25.100	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 6506B51001 / 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		

Justification:
Program has no FY 2019 funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	101	121	109	15	-	15	53	55	3	2	-	459
Gross/Weapon System Cost (<i>\$ in Millions</i>)	104.168	12.326	11.160	4.641	-	4.641	7.584	8.419	2.964	2.230	-	153.492
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	104.168	12.326	11.160	4.641	-	4.641	7.584	8.419	2.964	2.230	-	153.492
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	104.168	12.326	11.160	4.641	-	4.641	7.584	8.419	2.964	2.230	-	153.492

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,031.366	101.868	102.385	309.400	-	309.400	143.094	153.073	988.000	1,115.000	-	334.405

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. MIDS LVT(2) to MIDS LVT(11) modification adds voice capability to meet emerging operational requirements.

The Army Acquisition Objective for MIDS LVT is 709 and the Army Procurement Objective is 572. The Army procured 572 terminals through FY15, an additional 7 terminals will be procured FY19 through FY21 to support the Grow the Army Initiative. Planned fielding supports 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 quantities depicted above are for BU2 upgrade kits and additional terminal procurements for the Grow the Army Initiative.

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.

Procurement dollars support the MIDS LVT(2) to MIDS LVT(11) 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.

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.

FY 2019 through FY 2021 Procurement dollars support the Grow the Army initiative, MIDS will procure a total of 7 MIDS LVT (11) (BU2 variant) production Terminals.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications		P-1 Line Item Number / Title: 6948B22603 / Radio Terminal Set, MIDS LVT(2)
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: 554		

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	121	89	13	-	13	39	7	3	2
	Total Obligation Authority	12.326	9.117	2.812	-	2.812	6.883	5.881	2.964	2.230
ANG	Quantity	-	20	2	-	2	14	43	-	-
	Total Obligation Authority	-	2.043	1.829	-	1.829	0.701	2.092	-	-
AR	Quantity	-	-	-	-	-	-	5	-	-
	Total Obligation Authority	-	-	-	-	-	-	0.446	-	-
Total:	Quantity	121	109	15	-	15	53	55	3	2
Secondary Distribution	Total Obligation Authority	12.326	11.160	4.641	-	4.641	7.584	8.419	2.964	2.230

Justification:
 FY 2019 Base dollars in the amount of \$4.641million will procure BU2 retrofit kits, software support, logistics support and program management. The BU2 unit cost is pending negotiation and contract award. With a planning retrofit unit cost of \$.100 million, 10 BU2 retrofit kits may be procured in FY 2019. With a planning unit cost of \$.307 million, 5 MIDS LVT (11) (BU2 Variant) production Terminals maybe procured in FY 2019, to support the Grow the Army Initiative.

Procurement quantities depicted above are for BU2 upgrade kits and additional terminal procurements to support the Grow the Army Initiative.

Note: The LCM is a low-cost (\$2,850.00) subcomponent that is not reflected on the P-40 form.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8104BC3000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.850	2.034	2.041	2.187	-	2.187	4.072	4.120	4.233	4.318	-	116.855
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.850	2.034	2.041	2.187	-	2.187	4.072	4.120	4.233	4.318	-	116.855
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.850	2.034	2.041	2.187	-	2.187	4.072	4.120	4.233	4.318	-	116.855

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.034	2.041	2.187	-	2.187	4.072	4.120	4.233	4.318
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.034	2.041	2.187	-	2.187	4.072	4.120	4.233	4.318

Justification:

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8128B03001 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	2.334	6.534	9.411	13.190	22.601	11.594	12.111	17.835	18.227	-	91.236
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	2.334	6.534	9.411	13.190	22.601	11.594	12.111	17.835	18.227	-	91.236
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	2.334	6.534	9.411	13.190	22.601	11.594	12.111	17.835	18.227	-	91.236

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

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

Description:

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.334	6.534	9.411	13.190	22.601	11.594	12.111	17.835	18.227
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.334	6.534	9.411	13.190	22.601	11.594	12.111	17.835	18.227

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8128B03001 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	B03002 / Tractor Hay				- / -	- / 2.334	- / 6.534	- / 9.411	- / 13.190	- / 22.601
P-40	Total Gross/Weapon System Cost				- / -	- / 2.334	- / 6.534	- / 9.411	- / 13.190	- / 22.601

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8128B03001 / Tractor Ride	Aggregated Items Title: Various
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	6.534	-	-	9.411	-	-	13.190	-	-	22.601
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	2.334	-	-	6.534	-	-	9.411	-	-	13.190	-	-	22.601
Subtotal: Tractor Hay			-	-	-	-	-	2.334	-	-	6.534	-	-	9.411	-	-	13.190	-	-	22.601
Total			-	-	-	-	-	2.334	-	-	6.534	-	-	9.411	-	-	13.190	-	-	22.601

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 2019 Army **Date:** February 2018

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: 8554B55501 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	143.248	1.428	0.996	-	-	-	-	-	-	-	-	145.672
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	143.248	1.428	0.996	-	-	-	-	-	-	-	-	145.672
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	143.248	1.428	0.996	-	-	-	-	-	-	-	-	145.672

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 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 four 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 Army Acquisition Objective is 732 systems.

Justification:

Program has no FY2019 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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 8558B54020 / Spider Family of Networked Munitions Incr
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604808A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	31	64	12	92	-	92	215	213	26	-	-	653
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.199	8.796	4.500	17.515	-	17.515	18.510	18.215	8.022	-	-	84.757
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.199	8.796	4.500	17.515	-	17.515	18.510	18.215	8.022	-	-	84.757
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.199	8.796	4.500	17.515	-	17.515	18.510	18.215	8.022	-	-	84.757

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	296.742	137.438	375.000	190.380	-	190.380	86.093	85.516	308.538	-	-	129.796

Description:

M7 Spider is a hand emplaced, remotely controlled, Man-In-The-Loop (MITL) anti-personnel munition system that is currently being fielded. Spider Increment 1A (M7E1) utilizes an evolutionary acquisition approach which builds upon the baseline Spider Increment 1 system. Spider Increment 1A will 1) replace the Spider Increment 1 Remote Control Unit (RCU) with a new Networked Munitions Control Station that includes mapping capability, interoperability to the Mission Command System (MCS) or Joint Battle Command Platform (JBC-P) and new technologies, 2) control current Spider Anit-Personnel (AP) munitions and 3) demonstrate the initiation of legacy GOTS Anti-Vehicle (AV) (lethal) and AP (lethal and non-lethal) effects. All other M7 Spider Increment 1 components (i.e. Control Station Transceiver (CST), Munition Control Units (MCUs)) will remain as is to ensure backwards compatibility. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. The Spider Increment 1A Army Procurement Objective is 317 systems and the overall Spider program has an Approved Acquisition Objective (AAO) of 705 systems.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	64	12	82	-	82	131	95	-	-
	Total Obligation Authority	8.796	4.500	14.663	-	14.663	11.831	8.112	-	-
ANG	Quantity	-	-	10	-	10	84	102	26	-
	Total Obligation Authority	-	-	2.852	-	2.852	6.679	8.703	8.022	-
AR	Quantity	-	-	-	-	-	-	16	-	-
	Total Obligation Authority	-	-	-	-	-	-	1.400	-	-
Total:	Quantity	64	12	92	-	92	215	213	26	-
Secondary Distribution	Total Obligation Authority	8.796	4.500	17.515	-	17.515	18.510	18.215	8.022	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications	P-1 Line Item Number / Title: 8558B54020 / Spider Family of Networked Munitions Incr
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604808A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B54020 / Spider Family of Networked Munitions Incr	P-5a, P-21	A		31 / 9.199	64 / 8.796	12 / 4.500	92 / 17.515	- / -	92 / 17.515
P-40	Total Gross/Weapon System Cost				31 / 9.199	64 / 8.796	12 / 4.500	92 / 17.515	- / -	92 / 17.515

*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 2019 Base procurement dollars in the amount of \$17.515 million supports the procurement of 92 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 8558B54020 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	31	64	12	92	-	92
Gross/Weapon System Cost (\$ in Millions)	9.199	8.796	4.500	17.515	-	17.515
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9.199	8.796	4.500	17.515	-	17.515
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	9.199	8.796	4.500	17.515	-	17.515

(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)	296.742	137.438	375.000	190.380	-	190.380

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Government Manufacturing (NATICK)	-	-	0.103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northrup Gruman Production Support and Engineering Change Orders (ECO)	-	-	-	-	-	0.654	-	-	0.021	-	-	-	-	-	-	-	-	-
Production Verification Test (PVT), Lot Acceptance Test (LAT), First Article Acceptance Test (FAAT)	-	-	-	-	-	-	-	-	0.240	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.103</i>	-	-	<i>0.654</i>	-	-	<i>0.261</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>0.103</i>	-	-	<i>0.654</i>	-	-	<i>0.261</i>	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
Spider System ^(†)	82.665	31	2.563	77.413	64	4.954	-	-	-	125.631	92	11.558	-	-	-	125.631	92	11.558
Initial Issue Spares	-	-	-	40.509	11	0.446	-	-	-	-	-	-	-	-	-	-	-	-
Production Verification Test (PVT), Lot Acceptance Test	-	-	2.392	-	-	2.392	-	-	-	-	-	0.365	-	-	-	-	-	0.365

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8558B54020 / 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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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
(LAT), First Article Acceptance Test (FAAT)																		
<i>Subtotal: Recurring Cost</i>	-	-	4.955	-	-	7.792	-	-	-	-	-	11.923	-	-	-	-	-	11.923
<i>Subtotal: Hardware Cost</i>	-	-	4.955	-	-	7.792	-	-	-	-	-	11.923	-	-	-	-	-	11.923
Software Cost																		
Recurring Cost																		
Green Hill Software	-	-	0.055	-	-	-	-	-	-	-	-	0.057	-	-	-	-	-	0.057
<i>Subtotal: Recurring Cost</i>	-	-	0.055	-	-	-	-	-	-	-	-	0.057	-	-	-	-	-	0.057
<i>Subtotal: Software Cost</i>	-	-	0.055	-	-	-	-	-	-	-	-	0.057	-	-	-	-	-	0.057
Logistics Cost																		
Recurring Cost																		
Contractor Logistics Support	-	-	0.121	-	-	0.280	-	-	0.129	-	-	0.400	-	-	-	-	-	0.400
TACOM ILSC	-	-	0.154	-	-	-	-	-	0.020	-	-	0.200	-	-	-	-	-	0.200
TACOM Materiel Fielding & Training	-	-	-	-	-	-	-	-	0.306	-	-	0.040	-	-	-	-	-	0.040
Depot Support	-	-	-	-	-	-	-	-	0.070	-	-	0.075	-	-	-	-	-	0.075
New Equipment Training (NET)	-	-	-	-	-	-	-	-	0.525	-	-	0.960	-	-	-	-	-	0.960
<i>Subtotal: Recurring Cost</i>	-	-	0.275	-	-	0.280	-	-	1.050	-	-	1.675	-	-	-	-	-	1.675
<i>Subtotal: Logistics Cost</i>	-	-	0.275	-	-	0.280	-	-	1.050	-	-	1.675	-	-	-	-	-	1.675
Support - Production Engineering Cost																		
Production Engineering	-	-	2.945	-	-	0.050	-	-	2.739	-	-	3.120	-	-	-	-	-	3.120
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	2.945	-	-	0.050	-	-	2.739	-	-	3.120	-	-	-	-	-	3.120
Support - Program Management Cost																		
Government Management	-	-	0.866	-	-	0.020	-	-	0.450	-	-	0.740	-	-	-	-	-	0.740
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.866	-	-	0.020	-	-	0.450	-	-	0.740	-	-	-	-	-	0.740
Gross/Weapon System Cost	296.742	31	9.199	137.438	64	8.796	375.000	12	4.500	190.380	92	17.515	-	-	-	190.380	92	17.515

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	64	12	82	-	82

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8558B54020 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
	Total Obligation Authority	8.796	4.500	14.663	-	14.663
ANG	Quantity	-	-	10	-	10
	Total Obligation Authority	-	-	2.852	-	2.852
Total:	Quantity	64	12	92	-	92
Secondary Distribution	Total Obligation Authority	8.796	4.500	17.515	-	17.515

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 8558B54020 / 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	SS / FFP	Picatinny Arsenal, NJ	Oct 2017	Jun 2018	31	116.320	Y		
Spider System ^(†)		2017	Northrop Grumman / Redondo Beach	SS / FFP	Picatinny Arsenal, NJ	Oct 2017	Jun 2018	64	77.410	Y		
Spider System ^(†)		2019	TBS / TBS	C / FFP	Picatinny Arsenal, NJ	Feb 2019	Oct 2019	92	125.630	Y		

^(†) indicates the presence of a P-21

Remarks:
 FY16 and FY17 LRIP was let on EMD contract option with Northrop Grumman 1QFY18.
 FY19 Full Rate Production (FRP) is scheduled for 2nd Quarter FY19.

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: 8558B54020 / 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 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		S E P		
Spider System																																	
	1	2016	ARMY	31	0	31	A	-	-	-	-	-	-	-	-	-	10	10	11													0	
	1	2017	ARMY	64	0	64	A	-	-	-	-	-	-	-	-	-	20	20	24													0	
	2	2019	ARMY	92	0	92													A	-	-	-	-	-	-	-	-	-	-	-	-	-	92
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32										P-1 Line Item Number / Title: 8558B54020 / 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 2020												Fiscal Year 2021												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Spider System																															
	1	2016	ARMY	31	31	0																							0		
	1	2017	ARMY	64	64	0																							0		
	2	2019	ARMY	92	0	92	20	24	24	24																			0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 8558B54020 / 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 2019	1-8-5 For 2019	MAX For 2019	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	20	36	90	9	9	18	27	6	6	15	21
2	TBS - TBS	20	36	90	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 2019 Army **Date:** February 2018

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: 8562B55510 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	20,599	2,110	2,827	211	6,752	6,963	211	211	211	17	-	33,149
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.086	3.607	4.411	0.819	9.549	10.368	0.816	0.813	0.809	0.607	-	114.517
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.086	3.607	4.411	0.819	9.549	10.368	0.816	0.813	0.809	0.607	-	114.517
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.086	3.607	4.411	0.819	9.549	10.368	0.816	0.813	0.809	0.607	-	114.517

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	4.519	1.709	1.560	3.882	1.414	1.489	3.867	3.853	3.834	35.706	-	3.455

Description:

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

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

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 eliminates the need to make a choice by providing both along with enabling command, control and situational awareness.

TCAPS Approved Acquisition Objective is 111,347.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
	Quantity	2,110	2,827	211	6,752	6,963	211	211	211
	Total Obligation Authority	3.607	4.411	0.819	9.549	10.368	0.816	0.813	0.809
Total:	Quantity	2,110	2,827	211	6,752	6,963	211	211	211
Secondary Distribution	Total Obligation Authority	3.607	4.411	0.819	9.549	10.368	0.816	0.813	0.809

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8562B55510 / 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B55510 / Tactical Communications And Protective System	P-5a			20,599 / 93.086	2,110 / 3.607	2,827 / 4.411	211 / 0.819	6,752 / 9.549	6,963 / 10.368
P-40	Total Gross/Weapon System Cost				20,599 / 93.086	2,110 / 3.607	2,827 / 4.411	211 / 0.819	6,752 / 9.549	6,963 / 10.368

*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 2019 base procurement dollars in the amount of \$.819 million procures commercial-off-the-shelf Tactical Communications and Protective Systems for up to one battalion, and associated fielding.
 FY 2019 Overseas Contingency Operations funding in the amount of \$9.549 million procures commercial-off-the-shelf Tactical Communications and Protective Systems for up to three IBCTs, and associated fielding.
 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 eliminates the need to make a choice by providing both along with 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8562B55510 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	20,599	2,110	2,827	211	6,752	6,963
Gross/Weapon System Cost (\$ in Millions)	93.086	3.607	4.411	0.819	9.549	10.368
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	93.086	3.607	4.411	0.819	9.549	10.368
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	93.086	3.607	4.411	0.819	9.549	10.368

(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)	4.519	1.709	1.560	3.882	1.414	1.489

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Sys/Eng Prgm Mgmt (COMPO) 1	-	-	5.626	-	-	1.048	-	-	0.578	-	-	0.472	-	-	0.246	-	-	0.718
System Fielding & Support (COMPO) 1	-	-	16.449	-	-	0.230	-	-	0.601	-	-	0.113	-	-	1.477	-	-	1.590
TCAPS Hardware (COMPO) 1 ^(t)	3.754	18,916	71.019	1.104	2,110	2.330	1.143	2,827	3.232	1.109	211	0.234	1.159	6,752	7.826	1.158	6,963	8.060
<i>Subtotal: Non Recurring Cost</i>	-	-	93.086	-	-	3.607	-	-	4.410	-	-	0.819	-	-	9.549	-	-	10.368
<i>Subtotal: Flyaway Cost</i>	-	-	93.086	-	-	3.607	-	-	4.410	-	-	0.819	-	-	9.549	-	-	10.368
Gross/Weapon System Cost	4.519	20,599	93.086	1.709	2,110	3.607	1.560	2,827	4.411	3.882	211	0.819	1.414	6,752	9.549	1.489	6,963	10.368

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	2,110	2,827	211	6,752	6,963
	Total Obligation Authority	3.607	4.411	0.819	9.549	10.368
Total: Secondary Distribution	Quantity	2,110	2,827	211	6,752	6,963
	Total Obligation Authority	3.607	4.411	0.819	9.549	10.368

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 8562B55510 / 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		2017	DLA Troop Spt - PA / PA	MIPR	Philadelphia, PA	Feb 2017	Jul 2017	2,110	1.100	Y		
TCAPS Hardware (COMPO) 1		2018	DLA Troop Spt - PA / PA	MIPR	Philadelphia, PA	Feb 2018	May 2018	2,827	1.140	Y		
TCAPS Hardware (COMPO) 1		2019	DLA Troop Spt - PA / PA	MIPR	Philadelphia, PA	Feb 2019	May 2020	6,963	1.160	N		

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 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	4	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	47.299	14.295	15.275	17.807	-	17.807	18.260	18.591	18.277	21.243	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	47.299	14.295	15.275	17.807	-	17.807	18.260	18.591	18.277	21.243	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	47.299	14.295	15.275	17.807	-	17.807	18.260	18.591	18.277	21.243	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>)	-	-	3,818.750	-	-	-	-	-	-	-	Continuing	Continuing

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 reach back capability which allows Incident Commanders the ability to assess an incident scene, advise responders, and facilitate access to Department of Defense information. UCS provides critical Key Performance Parameter directed reach back communications for Analytical Laboratory Systems (ALS) and other Civil Support Team (CST) systems.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.590	1.831	1.500	-	1.500	1.500	1.500	1.500	1.500
ANG									
Quantity	-	4	0	-	0	-	-	-	-
Total Obligation Authority	12.705	13.444	16.307	-	16.307	16.760	17.091	16.777	19.743
Total: Secondary Distribution									
Quantity	-	4	-	-	-	-	-	-	-
Total Obligation Authority	14.295	15.275	17.807	-	17.807	18.260	18.591	18.277	21.243

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B58601 / Unified Command Suite	P-5a			- / 47.299	- / 14.295	4 / 15.275	- / 17.807	- / -	- / 17.807
P-40	Total Gross/Weapon System Cost				- / 47.299	- / 14.295	4 / 15.275	- / 17.807	- / -	- / 17.807

*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 2019 Base funding in the amount of \$17.807 million will modernize, upgrade, and procure components for the Unified Command Suites for National Guard Bureau Weapons of Mass Destruction Civil Support Teams (WMD-CST). Funding supports the satellite communication subsystem (SATCOM), land mobile radio's (LMR), Video Teleconference (VTC), and Broadband Global Area Network (BGAN) modernization efforts. 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 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	4	-	-	-
Gross/Weapon System Cost (\$ in Millions)	47.299	14.295	15.275	17.807	-	17.807
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	47.299	14.295	15.275	17.807	-	17.807
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	47.299	14.295	15.275	17.807	-	17.807

(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)	-	-	3,818.750	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	2.140	-	-	0.357	-	-	0.375	-	-	-	-	-	-	-	-	-
Fielding	-	-	22.093	-	-	4.121	-	-	4.436	-	-	-	-	-	-	-	-	-
New Equipment Training	-	-	0.425	-	-	0.043	-	-	0.044	-	-	-	-	-	-	-	-	-
Hardware ^(†)	1,029.140	22	22.641	152.719	64	9.774	162.813	64	10.420	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	47.299	-	-	14.295	-	-	15.275	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	47.299	-	-	14.295	-	-	15.275	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Recurring Cost																		
Recurring Manufacturing - VTC / BGAN	-	-	-	-	-	-	-	-	-	21.610	64	1.383	-	-	-	21.610	64	1.383
Recurring Manufacturing - SATCOM / LMR's	-	-	-	-	-	-	-	-	-	236.920	38	9.003	-	-	-	236.920	38	9.003
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	10.386	-	-	-	-	-	10.386
Non Recurring Cost																		
Non-Recurring Engineering - VTC / BGAN	-	-	-	-	-	-	-	-	-	15.910	64	1.018	-	-	-	15.910	64	1.018
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.018	-	-	-	-	-	1.018

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	11.404	-	-	-	-	-	11.404
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	-	-	-	2.076	-	-	-	-	-	2.076
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.076	-	-	-	-	-	2.076
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-	-	-	-	3.790	64	0.243	-	-	-	3.790	64	0.243
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.243	-	-	-	-	-	0.243
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	-	-	-	0.312	-	-	-	-	-	0.312
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.312	-	-	-	-	-	0.312
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	3.073	-	-	-	-	-	3.073
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	3.073	-	-	-	-	-	3.073
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.052	-	-	-	-	-	0.052
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.052	-	-	-	-	-	0.052
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	-	-	-	0.518	-	-	-	-	-	0.518
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.518	-	-	-	-	-	0.518
Support - Training Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	0.129	-	-	-	-	-	0.129
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.129	-	-	-	-	-	0.129
Gross/Weapon System Cost	-	-	47.299	-	-	14.295	3,818.750	4	15.275	-	-	17.807	-	-	-	-	-	17.807

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.590	1.831	1.500	-	1.500
ANG	Quantity	-	4	0	-	0
	Total Obligation Authority	12.705	13.444	16.307	-	16.307
Total:	Quantity	-	4	-	-	-
Secondary Distribution	Total Obligation Authority	14.295	15.275	17.807	-	17.807

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 8563B58601 / Unified Command Suite	Item Number / Title [DODIC]: B58601 / Unified Command Suite
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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		2016	VAR / VAR	C / FFP	VAR	Jan 2016	Jan 2016	22	469.219			
Hardware		2017	VAR / VAR	C / FFP	VAR	Jan 2017	Jan 2017	64	152.719			
Hardware		2018	VAR / VAR	C / FFP	VAR	Jan 2018	Jan 2018	64	162.810			

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.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	191.835	22.000	213.835	32.931	72.075	72.345	42.306	-	433.492
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	191.835	22.000	213.835	32.931	72.075	72.345	42.306	-	433.492
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	191.835	22.000	213.835	32.931	72.075	72.345	42.306	-	433.492

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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:

COTS Communications Equipment procures non-developmental items required for the Army's new Security Forces Assistance Brigades, Global Response Forces, and Focus Ready Brigades. These items will provide robust capabilities similar to special operations forces, with the ability to share communications and situational awareness with coalition and host nation forces, while also feeding position information into the larger common operating picture. These items also support the Army requirement for Next Generation High Frequency beyond line of sight communication systems.

The Army has notified Congress of the intent to execute \$90.000 million FY 2017 Handheld Manpack Small Form Fit funding to procure non-developmental tactical radios and associated equipment to support Security Force Assistance Brigades (SFAB) fielding.

Requirement is documented in FORSCOM ONS 22514 (dated 30 Jul 2017) and ONS 22399 (dated 30 Aug 2017).

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	191.835	22.000	213.835	32.931	72.075	72.345	42.306
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	191.835	22.000	213.835	32.931	72.075	72.345	42.306

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B98105 / COTS Communication Products with Accessories	P-5a, P-21			- / -	- / -	- / -	- / 191.835	- / 22.000	- / 213.835
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 191.835	- / 22.000	- / 213.835

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

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

Justification:
 FY 2019 Base and OCO procurement dollars in the amount of \$213.735 million support procurement of non-developmental items for the Army's new Security Forces Assistance Brigades, Global Response Forces, and Focus Ready Brigades. These items will provide robust capabilities similar to special operations forces, with the ability to share communications and situational awareness with coalition and host nation forces, while also feeding position information into the larger common operating picture. These items also support the Army requirement for Next Generation High Frequency beyond line of sight communication systems.

Requirement is documented in FORSCOM ONS 22514 (dated 30 Jul 2017) and ONS 22399 (dated 30 Aug 2017).

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-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	191.835	22.000	213.835
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	191.835	22.000	213.835
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	191.835	22.000	213.835

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

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

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Next Gen HF Vehicle System - SFAB 1-6 ^(†)	-	-	-	-	-	-	-	-	-	98.760	738	72.885	-	-	-	98.760	738	72.885
Next Gen HF Vehicle System - Global Response Force (SFAB 1-6) ^(†)	-	-	-	-	-	-	-	-	-	98.760	438	43.257	-	-	-	98.760	438	43.257
Next Gen HF Vehicle System - FOCUS Readiness (4 BDEs of 32) ^(†)	-	-	-	-	-	-	-	-	-	98.749	565	55.793	-	-	-	98.749	565	55.793
Next Gen HF TOC System - SFAB 1-6 ^(†)	-	-	-	-	-	-	-	-	-	121.394	66	8.012	-	-	-	121.394	66	8.012
Next Gen HF TOC System - OCONUS European Response Initiative ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	98.760	221	21.826	98.760	221	21.826
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	179.947	-	-	21.826	-	-	201.773
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	179.947	-	-	21.826	-	-	201.773
Logistics Cost																		
Recurring Cost																		
Sustainment Logistics	-	-	-	-	-	-	-	-	-	-	-	0.955	-	-	0.174	-	-	1.129

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment	Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
FSR	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	0.650
Safety and Platform Integration	-	-	-	-	-	-	-	-	-	-	-	5.500	-	-	-	-	-	5.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	7.105	-	-	0.174	-	-	7.279
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	-	-	-	7.105	-	-	0.174	-	-	7.279
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	-	-	-	1.650	-	-	-	-	-	1.650
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.650	-	-	-	-	-	1.650
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	-	-	-	1.583	-	-	-	-	-	1.583
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.583	-	-	-	-	-	1.583
Support - Training Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	0.550	-	-	-	-	-	0.550
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.550	-	-	-	-	-	0.550
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	191.835	-	-	22.000	-	-	213.835

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	191.835	22.000	213.835
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	191.835	22.000	213.835

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment				Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Next Gen HF Vehicle System - SFAB 1-6 ^(†)		2019	TBD - Next Gen HF - TBD* / TBD	C / FFP	TBD	Mar 2019	Jun 2019	738	98.760	Y		
Next Gen HF Vehicle System - Global Response Force (SFAB 1-6) ^(†)		2019	TBD - Next Gen HF - TBD* / TBD	C / FFP	TBD	Mar 2019	Jun 2019	438	98.760	Y		
Next Gen HF Vehicle System - FOCUS Readiness (4 BDEs of 32) ^(†)		2019	TBD - Next Gen HF - TBD* / TBD	C / FFP	TBD	Mar 2019	Jun 2019	565	98.750	Y		
Next Gen HF TOC System - SFAB 1-6 ^(†)		2019	TBD - Next Gen HF - TBD* / TBD	C / FFP	TBD	Mar 2019	Jun 2019	66	121.390	Y		
Next Gen HF TOC System - OCONUS European Response Initiative ^(†)	✓	2019	TBD - Next Gen HF - TBD* / TBD	C / FFP	TBD	Mar 2019	Jun 2019	221	98.760	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
		Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories

Cost Elements (Units in Each)				Fiscal Year 2019													Fiscal Year 2020													B A L A N C E				
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			
Next Gen HF Vehicle System - SFAB 1-6																																		
	1	2019	ARMY	738	0	738																												0
Next Gen HF Vehicle System - Global Response Force (SFAB 1-6)																																		
	2	2019	ARMY	438	0	438																												0
Next Gen HF Vehicle System - FOCUS Readiness (4 BDEs of 32)																																		
	3	2019	ARMY	565	0	565																												0
Next Gen HF TOC System - SFAB 1-6																																		
	4	2019	ARMY	66	0	66																												0
Next Gen HF TOC System - OCONUS European Response Initiative																																		
✓	5	2019	ARMY	221	0	221																												0

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32		P-1 Line Item Number / Title: 9164BU8100 / COTS Communications Equipment
Item Number / Title [DODIC]: B98105 / COTS Communication Products with Accessories		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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 - Next Gen HF - TBD* - TBD	10	100	200	0	0	0	0	0	0	0	0	0
2	TBD - Next Gen HF - TBD* - TBD	10	100	200	0	0	0	0	0	0	0	0	0
3	TBD - Next Gen HF - TBD* - TBD	10	100	200	0	0	0	0	0	0	0	0	0
4	TBD - Next Gen HF - TBD* - TBD	10	100	200	0	0	0	0	0	0	0	0	0
5	TBD - Next Gen HF - TBD* - TBD	10	100	200	0	0	0	0	0	0	0	0	0

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	3,337	2,235	121	4,319	-	4,319	5,238	5,219	8,019	8,017	-	36,505
Gross/Weapon System Cost (<i>\$ in Millions</i>)	520.565	19.893	15.964	25.177	-	25.177	23.877	23.545	24.509	25.002	-	678.532
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	520.565	19.893	15.964	25.177	-	25.177	23.877	23.545	24.509	25.002	-	678.532
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	520.565	19.893	15.964	25.177	-	25.177	23.877	23.545	24.509	25.002	-	678.532

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	155.998	8.901	131.934	5.829	-	5.829	4.558	4.511	3.056	3.119	-	18.587

Description:

The Medical Communications for Combat Casualty Care (MC4) system interfaces Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The system captures and provides data for future medical care and medical record retention for all Service members. The MC4 system fulfills the requirements highlighted in United States Code: Title 10, Subtitle A, Part II, Chapter 55, Section 1074f, mandating the proper documentation of deployed Service members' medical treatment to include 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 together with current electronic health record software. The MC4 system is comprised of seven subsystem Line Item Numbers (LINS) and is fielded to all Army units with medical assets. The mix of LINS fielded to any unit is directly related to the unit's medical function and will differ dependent on the type of unit. The system is fielded and trained to units as they prepare for deployment or other priority missions. The medical events captured by the MC4 system will provide the Soldiers' electronic health record as well as data to databases and systems that enable commanders to: identify population health trends and outbreaks; reallocate human and materiel resources based on needs; determine if locations are the source of illnesses or injuries; and make better tactical and medical decisions that impact the mission and Soldiers' health.

In prior years, MC4 has procured and fielded equipment aligned with the incremental development of the jointly developed Theater Medical Information Program-Joint (TMIP-J) electronic health record software. As software increments of the TMIP-J version of electronic health record capability have evolved to a final objective state (available in FY18), MC4 hardware has been replaced and upgraded to support the capability provided by the upgraded software increments and releases. New hardware will be fielded to deploying forces, as required, to maintain the electronic health record capability. The Army Acquisition Objective (AAO) includes all seven MC4 LINS to be fielded which will operate the final version of the TMIP-J software and totals 45,904 LIN quantities of the MC4 system.

Approval of Joint Theater Medical Information Requirements (TMIR) Information Systems Initial Capabilities Document (IS-ICD) (FY16), Joint Theater Medical Information Requirements (TMIR) Information Systems Capability Development Document (IS-CDD) (FY17), and Army staffing of Adoption package for the TMIR IS-ICD (ongoing) for a modernized electronic health record system created a requirement for the modernization of the electronic health system. Equipment procured and fielded in FY 2019 will be assessed for applicability to future electronic health records requirements as they become known.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	45	1	1,854	-	1,854	2,261	2,127	3,418	3,416
Total Obligation Authority	0.813	0.118	7.911	-	7.911	7.978	9.776	10.514	10.727

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications					P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
ANG	Quantity	1,065	84	1,903	-	1,903	1,991	2,106	3,306	3,306
	Total Obligation Authority	7.859	4.490	7.197	-	7.197	10.750	9.378	10.056	10.257
AR	Quantity	1,125	36	562	-	562	986	986	1,295	1,295
	Total Obligation Authority	11.221	11.356	10.069	-	10.069	5.149	4.391	3.939	4.018
Total:	Quantity	2,235	121	4,319	-	4,319	5,238	5,219	8,019	8,017
Secondary Distribution	Total Obligation Authority	19.893	15.964	25.177	-	25.177	23.877	23.545	24.509	25.002

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA8046 / Medical Comm For CBT Casualty Care (MC4)	P-5a			3,337 / 520.565	2,235 / 19.893	121 / 15.964	4,319 / 25.177	- / -	4,319 / 25.177
P-40	Total Gross/Weapon System Cost				3,337 / 520.565	2,235 / 19.893	121 / 15.964	4,319 / 25.177	- / -	4,319 / 25.177

*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 2019 Base procurement dollars in the amount of \$25.177 million procures 4,319 end components of the MC4 system for upgraded systems and new equipment fielding and provides new equipment training (NET) as needed for 25 Active units (2 air defense battalions, 1 air defense brigade, 4 area support medical companies, 1 aviation brigade, 1 aviation battalion, 4 combat support brigades, 2 combat support hospitals, 1 division HQ, 1 field artillery battalion, 1 forward surgical team, 1 medical logistics company, 1 military intelligence brigade, 1 multi-functional medical battalion, 1 medical optical company, 2 preventive medical companies, and 1 sustainment command); 9 National Guard units (1 air defense brigade, 3 area support medical companies, 1 combat brigade, 2 combat battalions, and 1 division HQ); and 17 Army Reserve units (2 area support medical company, 1 aviation battalion, 1 blood support detachment, 1 combat stress company, 1 combat support hospital, 3 forward surgical teams, 1 head/neck detachment, 1 medical brigade HQ, 1 medical logistics support company, 1 minimal care detachment, 2 preventive medicine detachments, 2 veterinary companies). Funding also supports production engineering, cybersecurity compliance, hardware procurement, fielding and new equipment training for new systems and capability. In addition, contracted support to the program office management efforts are funded in this appropriation. Increase in the procurement funding of hardware from FY 2018 to FY 2019 support the quantities of upgraded hardware required to operate the objective software system electronic health record. New hardware will be fielded to all deploying forces with mission requirements, to maintain the electronic health record capability. Increase to procurement funding for Fielding/Training, Production Engineering and Program Management Support funds the increased hardware/software fielding functional requirements (fielding, training, logistics, cybersecurity, management) in order to provide the objective software system to all deploying units to maintain capability and ensure the system is operable in all contingency/battlefield areas.

PMO Fielding Management civilian salaries are now funded directly in OMA.

Unit cost depends on the particular equipment LIN that is procured. The program procures seven (7) LINs with significant range in unit cost, resulting in differing unit cost year over year, depending on the quantity of each LIN procured.

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care	Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	3,337	2,235	121	4,319	-	4,319
Gross/Weapon System Cost (\$ in Millions)	520.565	19.893	15.964	25.177	-	25.177
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	520.565	19.893	15.964	25.177	-	25.177
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	520.565	19.893	15.964	25.177	-	25.177

(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)	155.998	8.901	131.934	5.829	-	5.829

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	4.343	72,766	316.030	0.768	3,011	2.313	2.107	121	0.255	-	-	-	-	-	-	-	-	-
Medical Information Systems Equipment LIN C27503 AN/TYQ 105 ^(†)	-	-	-	-	-	-	-	-	-	0.926	2,773	2.568	-	-	-	0.926	2,773	2.568
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v2 ^(†)	-	-	-	-	-	-	-	-	-	2.205	782	1.724	-	-	-	2.205	782	1.724
Medical Information Systems Equipment LIN C27639 AN/TYQ 108v3 ^(†)	-	-	-	-	-	-	-	-	-	7.503	764	5.732	-	-	-	7.503	764	5.732
PMO Fielding Management	4,791.000	10	47.910	6,457.000	1	6.457	6,457.000	1	6.457	-	-	-	-	-	-	-	-	-
Field equipment / conduct New Equip Train	9,623.000	10	96.230	5,872.000	1	5.872	4,710.000	1	4.710	7,386.000	1	7.386	-	-	-	7,386.000	1	7.386
Production Engineering	4,877.400	10	48.774	3,741.000	1	3.741	3,123.000	1	3.123	5,274.000	1	5.274	-	-	-	5,274.000	1	5.274
PMO Management Support	1,162.500	10	11.625	1,510.000	1	1.510	1,419.000	1	1.419	2,493.000	1	2.493	-	-	-	2,493.000	1	2.493

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32	P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care	Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	520.562	-	-	19.892	-	-	15.964	-	-	25.177	-	-	-	-	-	25.177
<i>Subtotal: Flyaway Cost</i>	-	-	520.562	-	-	19.892	-	-	15.964	-	-	25.177	-	-	-	-	-	25.177
Gross/Weapon System Cost	155.998	3,337	520.565	8.901	2,235	19.893	131.934	121	15.964	5.829	4,319	25.177	-	-	-	5.829	4,319	25.177

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	45	1	1,854	-	1,854
	Total Obligation Authority	0.813	0.118	7.911	-	7.911
ANG	Quantity	1,065	84	1,903	-	1,903
	Total Obligation Authority	7.859	4.490	7.197	-	7.197
AR	Quantity	1,125	36	562	-	562
	Total Obligation Authority	11.221	11.356	10.069	-	10.069
Total: Secondary Distribution	Quantity	2,235	121	4,319	-	4,319
	Total Obligation Authority	19.893	15.964	25.177	-	25.177

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32			P-1 Line Item Number / Title: 9885MA8000 / Family of Med Comm for Combat Casualty Care				Item Number / Title [DODIC]: MA8046 / Medical Comm For CBT Casualty Care (MC4)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Medical Information Systems Equipment		2016	VAR / VAR	C / FP	ACC-RI	Aug 2016	Nov 2016	1,627	2.680			
Medical Information Systems Equipment		2017	VAR / VAR	C / FP	ACC-RI	Jun 2017	Aug 2017	3,011	0.770		Apr 2017	
Medical Information Systems Equipment		2018	TBS / TBS	C / FP	ACC-RI	Feb 2018	Apr 2018	121	2.110		Dec 2017	Jan 2018
Medical Information Systems Equipment LIN C27503 AN/TYQ 105		2019	TBS / TBS	C / FP	ACC-RI	May 2019	Jun 2019	2,773	0.930		Feb 2019	Mar 2019
Medical Information Systems Equipment LIN C18277 AN/TYQ 107v2		2019	TBS / TBS	C / FP	ACC-RI	May 2019	Jun 2019	782	2.210		Feb 2019	Mar 2019
Medical Information Systems Equipment LIN C27639 AN/TYQ 108v3		2019	TBS / TBS	C / FP	ACC-RI	May 2019	Jun 2019	764	7.500		Feb 2019	Mar 2019

Remarks:

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).

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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm	P-1 Line Item Number / Title: 0250BK5284 / CI Automation Architecture
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	71.276	11.438	9.560	9.740	9.800	19.540	9.884	10.031	10.309	11.336	-	153.374
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	71.276	11.438	9.560	9.740	9.800	19.540	9.884	10.031	10.309	11.336	-	153.374
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	71.276	11.438	9.560	9.740	9.800	19.540	9.884	10.031	10.309	11.336	-	153.374

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

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

Description:

This program provides the Army, as a member of the Department of Defense (DoD) Counterintelligence (CI) community with advanced CI operational equipment to enhance 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.

The Intelligence and Security Command (INSCOM) Enterprise Capital Equipment Replacement Program (CERP), as authorized and directed under INSCOM Policy Memorandum G6-1 by the INSCOM CG on 17 February 2017, provides for the systematic Life Cycle Replacement (LCR) of INSCOM Enterprise Common Computing Infrastructure to support INSCOM business, intelligence and security mission operations. Capital Equipment Replacement Program (CERP), G6 is to replace routers, switches, storage device, printers and monitors over six years old; servers, firewalls, and workstations over five years old; and notebooks over four years old. This program also provides the Army \$0.5 million, as a member of the DoD 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.

OCO: Joint Task Force Guantanamo (JTF-GTMO) Intel IT Systems provides critical intelligence capabilities in support of ongoing detainee operations, military commissions and detainee assessments as directed by OSD. In accordance with directives by OSD and DoD GEN COUNSEL on GTMO detainee records, JTF-GTMO is mandated to preserve all detainee relevant data. These systems were originally installed in a contingency nature with the intent of operating.

OCO: The improvement of the Processing, Exploitation, and Dissemination (PED) infrastructure in Fort Shafter, Hawaii is required to support the extension of ongoing Airborne Intelligence, Surveillance, and Reconnaissance (AISR) operations and the increase of Beyond Line of Site (BLOS) operations in the Pacific theater. The Distributed PED (DPED) Site at Fort Gordon, Georgia, meets INSCOM 2020-2025 roadmap capabilities providing a unified Multi-Component, Service and Agency Enterprise capable of Federated production in support of Army and Joint requirements. Furthermore, the DPED Site provides the Intelligence Analyst the ability to access mission data and control Aerial Platform Sensors from any worldwide location; with the ability to move information and intelligence data to other locations as needed for PED production that supports decisive Intelligence actions. The Global Force Management Allocation Plan (GFMAP) drives the requirement to establish the Pacific PED Service Center at Fort Shafter, Hawaii. This effort provides the required access to Aerial Platform Sensors from the unique Pacific theater networks including DoDIIS CF, Greyrock, CENTRIXS-K, and CENTRIXS-J. Analysts at any PED Reach Center can access the Pacific theater networks via the Pacific PED Service Center, reducing the need to install the Pacific networks at multiple locations. Establishing the Pacific PED Service Center allows any PED Reach Center to conduct PED on the Guardrail, ARL, and Gray Eagle platforms in PACOM AOR.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm					P-1 Line Item Number / Title: 0250BK5284 / CI Automation Architecture					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.438	9.560	9.740	9.800	19.540	9.884	10.031	10.309	11.336
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.438	9.560	9.740	9.800	19.540	9.884	10.031	10.309	11.336

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 36: Comm - Intelligence Comm

P-1 Line Item Number / Title:
 0250BK5284 / CI Automation Architecture

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BK5284 / CI Automation Architecture	P-5a			- / 71.276	- / 11.438	- / 9.560	- / 9.740	- / 9.800	- / 19.540
P-40	Total Gross/Weapon System Cost				- / 71.276	- / 11.438	- / 9.560	- / 9.740	- / 9.800	- / 19.540

*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:

FY2019 Base Funding in the amount of \$0.492 million procures the Department of Defense Intelligence Information System (DODIIS) - compliant CI and Human Intelligence (HUMINT) material solutions to support implementation of case management, threat management information systems, and information processing systems at Service, Major Command (MACOM) and user level Army Intelligence sites. Funding further provides specialized equipment necessary to support worldwide CI operations and investigation missions.

FY2019 Base Funding in the amount of \$9.248 million procures Information Technology (IT) hardware purchased for INSCOM to provide IT hardware in support of INSCOM's Mission Command and INSCOM's support to the war-fighting mission. The IT hardware provides the necessary equipment for INSCOM personnel to perform daily and necessary Intelligence Community (IC) support. Without this IT hardware, INSCOM personnel will not be able to execute IC business, intelligence, security and mission operations. Centralized consolidation and management of INSCOM Enterprise CERP provides increased infrastructure standardization, reduced management overhead, and significant cost avoidance.

FY2019 OCO Funding in the amount of \$1.500 million procures hardware and software to perform system life cycle replacement and upgrades in support of JTF-GTMO to ensure the continued preservation of detainee data and implement and a disaster recovery plan to prevent data degradation or loss to ensure compliance with OSD and DoD GEN COUNSEL directives; legacy Intelligence IT system currently in use at JTF-GTMO is approaching the end of its life cycle. Additionally, the required upgrades would replace legacy systems with technology which are in compliance with current DoD Information Systems Accreditation requirements. Delays to this action poses significant risks to the ongoing detainee operation at JTF-GTMO, and the potential loss of critical detainee data.

FY2019 OCO Funding in the amount of \$8.300 million procures Pacific Processing, Exploitation and Dissemination (PED) Service Center required to improve the current infrastructure at the ground station for all the satellite downlinks being provided to the Fort Gordon DPED Site from ongoing Pacific theater AISR missions. The need to access ongoing operations requires the implementation of a PED Service Center at Fort Shafter to allow Intelligence Analysts access to BLOS operations.

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36	P-1 Line Item Number / Title: 0250BK5284 / CI Automation Architecture	Item Number / Title [DODIC]: BK5284 / CI Automation Architecture
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	71.276	11.438	9.560	9.740	9.800	19.540
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	71.276	11.438	9.560	9.740	9.800	19.540
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	71.276	11.438	9.560	9.740	9.800	19.540

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
CERP Servers ^(†)	-	-	-	651.000	1	0.651	66.896	67	4.482	67.429	70	4.720	-	-	-	67.429	70	4.720
CERP Storage ^(†)	-	-	-	195.000	1	0.195	58.304	23	1.341	60.652	23	1.395	-	-	-	60.652	23	1.395
CERP Routers ^(†)	-	-	-	399.000	1	0.399	57.292	48	2.750	58.568	44	2.577	-	-	-	58.568	44	2.577
CERP Switches ^(†)	-	-	71.276	143.000	1	0.143	21.933	45	0.987	22.298	47	1.048	-	-	-	22.298	47	1.048
OCO - Non-MTOE Automation Equipment	-	-	-	10,050.000	1	10.050	-	-	-	-	-	-	9,800.000	1	9.800	9,800.000	1	9.800
<i>Subtotal: Recurring Cost</i>	-	-	71.276	-	-	11.438	-	-	9.560	-	-	9.740	-	-	9.800	-	-	19.540
<i>Subtotal: Hardware Cost</i>	-	-	71.276	-	-	11.438	-	-	9.560	-	-	9.740	-	-	9.800	-	-	19.540
Gross/Weapon System Cost	-	-	71.276	-	-	11.438	-	-	9.560	-	-	9.740	-	-	9.800	-	-	19.540

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	11.438	9.560	9.740	9.800	19.540
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	11.438	9.560	9.740	9.800	19.540

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 36	P-1 Line Item Number / Title: 0250BK5284 / CI Automation Architecture	Item Number / Title [DODIC]: BK5284 / CI Automation Architecture
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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
CERP Servers		2018	TBD / TBD	C / FFP	TBD	May 2018	Jun 2018	67	66.900			
CERP Servers		2019	TBD / TBD	C / FFP	TBD	May 2019	Jun 2019	70	67.430			
CERP Storage		2018	TBD / TBD	C / FFP	TBD	May 2018	Jun 2018	23	58.300			
CERP Storage		2019	TBD / TBD	C / FFP	TBD	May 2019	Jun 2019	23	60.650			
CERP Routers		2018	TBD / TBD	C / FFP	TBD	May 2018	Jun 2018	48	57.290			
CERP Routers		2019	TBD / TBD	C / FFP	TBD	May 2019	Jun 2019	44	58.570			
CERP Switches		2018	TBD / TBD	C / FFP	TBD	May 2018	Jun 2018	45	21.930			
CERP Switches		2019	TBD / TBD	C / FFP	TBD	May 2019	Jun 2019	47	22.300			

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	4.030	2.667	-	2.667	3.704	5.630	5.704	-	-	21.735
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	4.030	2.667	-	2.667	3.704	5.630	5.704	-	-	21.735
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	4.030	2.667	-	2.667	3.704	5.630	5.704	-	-	21.735

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

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

Description:

The Defense Military Deception Initiative (DMDI) program integrates Procurement prototypes with Component programs for acquisition, sustainment and maintenance.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.030	2.667	-	2.667	3.704	5.630	5.704	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.030	2.667	-	2.667	3.704	5.630	5.704	-

Justification:

FY 2019 funding in the amount of \$2.667 million supports integrating DMDI prototype efforts to support force protection, signature management, and system survivability related to critical mission threads and key weapon systems.

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 0263BK6285 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	308	-	-	-	-	-	-	-	-	-	-	308
Gross/Weapon System Cost (<i>\$ in Millions</i>)	117.694	5.494	-	-	-	-	-	-	-	-	-	123.188
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	117.694	5.494	-	-	-	-	-	-	-	-	-	123.188
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	117.694	5.494	-	-	-	-	-	-	-	-	-	123.188

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	382.123	-	-	-	-	-	-	-	-	-	-	399.961

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.004	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.490	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.494	-	-	-	-	-	-	-

Justification:

Program has no FY 2019 request.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0121BA1300 / FAMILY OF BIOMETRICS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0607665A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	107.463	2.978	-	8.319	-	8.319	0.281	1.447	1.240	1.252	-	122.980
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	107.463	2.978	-	8.319	-	8.319	0.281	1.447	1.240	1.252	-	122.980
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.463	2.978	-	8.319	-	8.319	0.281	1.447	1.240	1.252	-	122.980

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 Department of Defense 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.978	-	8.319	-	8.319	0.281	1.447	1.240	1.252
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.978	-	8.319	-	8.319	0.281	1.447	1.240	1.252

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 64: Information Security **P-1 Line Item Number / Title:** 0121BA1300 / FAMILY OF BIOMETRICS

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	B01301 / Biometrics Enterprise				- / 107.463	- / 2.978	- / -	- / 8.319	- / -	- / 8.319
P-40	Total Gross/Weapon System Cost				- / 107.463	- / 2.978	- / -	- / 8.319	- / -	- / 8.319

*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 2019 Base funding in the amount of \$8.319 million is required to procure new computing hardware for the DoD ABIS v1.3 (Increment 0) as part of a planned Service Life Extension Program (SLEP). The SLEP resolves major system component End of Service Life issues. DoD ABIS is the authoritative biometric enterprise repository system, which provides direct Biometric Identity management support to the Warfighter, and processes, stores, matches and shares critical biometric information with other government agencies (DHS, FBI, DoS, CBP). DoD ABIS operates 24/7/365.

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 2019 Army															Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64						P-1 Line Item Number / Title: 0121BA1300 / FAMILY OF BIOMETRICS						Aggregated Items Title: Various								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	8.319	-	-	-	-	-	8.319
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	2.978	-	-	-	-	-	8.319	-	-	-	-	-	8.319
Subtotal: Biometrics Enterprise			-	-	107.463	-	-	2.978	-	-	-	-	-	8.319	-	-	-	-	-	8.319
Total			-	-	107.463	-	-	2.978	-	-	-	-	-	8.319	-	-	-	-	-	8.319

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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0122TA0600 / Information System Security Program-ISSP
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,549.578	-	-	2.000	-	2.000	2.000	2.000	2.000	-	-	1,557.578
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,549.578	-	-	2.000	-	2.000	2.000	2.000	2.000	-	-	1,557.578
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,549.578	-	-	2.000	-	2.000	2.000	2.000	2.000	-	-	1,557.578

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

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

Description:

The Information Systems Security Program Application (ISSPA) is a centralized enterprise collection tool used to support the Army's Communication Security (COMSEC) modernization initiative to support the total force. The ISSPA is the only means to collect COMSEC requirements, procure and field solutions, key management capabilities and Information Assurance (IA)/ Cyber tools to secure the Department of Defense Information Network (DoDIN) against growing Cyber threats. The ISSPA supports the identification and allocation of new and emerging COMSEC capabilities required to protect Army's architectures and to replace current and legacy cryptographic systems with technologically advanced (network centric/DoDIN compliant) devices. These actions ensure Army keeps pace with the Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic modernization, advanced key management and network centric performance capability mandates.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.000	-	2.000	2.000	2.000	2.000	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.000	-	2.000	2.000	2.000	2.000	-

Justification:

FY 2019 Base procurement dollars in the amount of \$2.000 million support automated capability to conduct COMSEC modernization oversight, perform requirements validation, review and validate Command Plans, respond to operational mission needs, and make recommendations regarding prioritization of COMSEC requirements. Additionally, funds support COMSEC acquisition functions enabling Army to equip the force with critical cryptographic solutions and services during peacetime, wartime, and contingency operations.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	18,952	10,851	15,175	3,765	2	3,767	42,178	37,732	11,707	3,597	-	143,959
Gross/Weapon System Cost (<i>\$ in Millions</i>)	128.859	133.284	107.804	88.337	0.003	88.340	299.441	363.900	241.407	229.512	-	1,592.547
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	128.859	133.284	107.804	88.337	0.003	88.340	299.441	363.900	241.407	229.512	-	1,592.547
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	128.859	133.284	107.804	88.337	0.003	88.340	299.441	363.900	241.407	229.512	-	1,592.547

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	6.799	12.283	7.104	23.463	1.500	23.451	7.099	9.644	20.621	63.807	-	11.063

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 CS Program procures and fields COMSEC solutions to secure the Army's tactical and enterprise classified networks. New and emerging architectures, cease key dates, emerging threats, and Department of Defense (DoD)/Army policy are driving the need to replace currently fielded legacy systems with technologically advanced (network centric/Global Information Grid (GIG) compliant) devices that incorporate Chairman of the Joint Chiefs of Staff (CJCS) and Joint Requirements Oversight Council (JROC) directed cryptographic standardization, advanced key management 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 Encryption Family (LEF), and Secure Voice (SV).

The AKMI Program is replacing the National Security Agency (NSA) Electronic Key Management System (EKMS) program. As the DoD Key Management Lead, NSA is dictating the change from EKMS to Key Management Infrastructure (KMI) by a sunset date of December 2017. KMI automates the functions of 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. 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 NSA KMI ACAT IAM program. AKMI supports DoD 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 ~1.5M End Cryptographic Units (ECU)s 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 ECMI procures/retrofits and fields COMSEC embedded within Army radios to ensure communications remain secure by operating with modern cryptographic algorithms and keys. Tactical radios using embedded cryptographic systems will no longer be able to communicate securely after Cease Key dates documented in the Chairman of the Joint Chiefs of Staff instruction (CJCSI) 6510. ECMI will provide

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security		P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0303140A

Line Item MDAP/MAIS Code: N/A

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 and keys. Failure to comply will result in vulnerabilities to classified data transmissions, or an inability to communicate at classified levels.

They FY 2019 funding request was reduced by \$24.825 million to account for the availability of prior year execution balances.

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	7,595	10,623	2,897	2	2,899	31,635	28,232	8,779	3,156
	Total Obligation Authority	113.448	86.305	75.436	0.003	75.439	261.350	335.881	231.790	226.055
ANG	Quantity	2,171	3,035	521	-	521	6,325	5,726	1,756	264
	Total Obligation Authority	13.302	14.350	7.740	-	7.740	24.003	17.228	5.989	2.299
AR	Quantity	1,085	1,517	347	-	347	4,218	3,774	1,172	177
	Total Obligation Authority	6.534	7.149	5.161	-	5.161	14.088	10.791	3.628	1.158
Total: Secondary Distribution	Quantity	10,851	15,175	3,765	2	3,767	42,178	37,732	11,707	3,597
	Total Obligation Authority	133.284	107.804	88.337	0.003	88.340	299.441	363.900	241.407	229.512

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 64: Information Security

P-1 Line Item Number / Title:
0125B96000 / Communications Security (COMSEC)

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)		A		3,203 / 38.691	5,763 / 66.692	6,136 / 49.441	2,219 / 49.107	2 / 0.003	2,221 / 49.110
P-5	B96004 / KEY MANAGEMENT INFRASTRUCTURE	P-5a, P-21			15,749 / 90.168	5,088 / 63.578	9,039 / 58.363	1,246 / 35.710	- / -	1,246 / 35.710
P-5	B96006 / Embedded Cryptographic Modernization				- / -	- / 3.014	- / -	300 / 3.520	- / -	300 / 3.520
P-40	Total Gross/Weapon System Cost				18,952 / 128.859	10,851 / 133.284	15,175 / 107.804	3,765 / 88.337	2 / 0.003	3,767 / 88.340

*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 2019, the COMSEC funding of \$88.340 Million supports below sub-programs.

CS: FY 2019 base procurement dollars in the amount of \$49.107 million will be primarily utilized to procure modern In-Line Network Encryption (INE) and Secure Voice (SV) devices and support fielding. FY2019 OCO funding in the amount of \$3K will be used for theater requested COMSEC.

AKMI: FY 2019 base procurement dollars in the amount of \$35.710 million supports the procurement, fielding, depot support and New Equipment Training (NET) for KMI MGCs, NGLD fill devices, 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 the Key Management infrastructure (KMI) products based on the evolution of the KMI and to address parts obsolescence. The changes in capability do not allow the operational support to be transitioned to sustainment. The PPDSS contract for all key management products has been optimized and requirements continuously assessed to ensure that it is fiscally sound. 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 2028. Modernization of fill devices and emerging radio planning and configuration requirements are supported through this funding line.

ECMI: FY 2019 base procurement dollars in the amount of \$3.520 million supports system engineering for ECMI production contracts and LRIP quantities.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
		Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	3,203	5,763	6,136	2,219	2	2,221
Gross/Weapon System Cost (\$ in Millions)	38.691	66.692	49.441	49.107	0.003	49.110
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	38.691	66.692	49.441	49.107	0.003	49.110
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	38.691	66.692	49.441	49.107	0.003	49.110

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	12.080	11.572	8.058	22.130	1.500	22.112

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Theater Requested COMSEC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	0.003
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.003	-	-	0.003
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.003	-	-	0.003
Hardware Cost																		
Recurring Cost																		
IN-LINE NETWORK ENCRYPTORS (INE)	5.236	2,345	12.278	10.886	3,904	42.500	4.629	4,036	18.683	14.108	1,150	16.224	-	-	-	14.108	1,150	16.224
SECURE VOICE	8.600	100	0.860	5.681	2,095	11.902	6.513	2,100	13.677	18.490	1,069	19.766	-	-	-	18.490	1,069	19.766
<i>Subtotal: Recurring Cost</i>	-	-	13.138	-	-	54.401	-	-	32.360	-	-	35.990	-	-	-	-	-	35.990
<i>Subtotal: Hardware Cost</i>	-	-	13.138	-	-	54.401	-	-	32.360	-	-	35.990	-	-	-	-	-	35.990
Package Fielding Cost																		
Recurring Cost																		
ARMY-WIDE CRYPTO NETWORK STANDARDIZATION	-	-	3.897	-	-	1.928	-	-	-	-	-	-	-	-	-	-	-	-
PRODUCT SUPPORT/FIELDING	-	-	13.058	-	-	2.408	-	-	6.536	-	-	5.611	-	-	-	-	-	5.611
<i>Subtotal: Recurring Cost</i>	-	-	16.955	-	-	4.336	-	-	6.536	-	-	5.611	-	-	-	-	-	5.611

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Package Fielding Cost</i>	-	-	16.955	-	-	4.336	-	-	6.536	-	-	5.611	-	-	-	-	-	5.611
Support - Program Management Cost																		
Government Management	-	-	3.480	-	-	2.404	-	-	6.375	-	-	1.232	-	-	-	-	-	1.232
Contractor Management	-	-	0.765	-	-	2.214	-	-	0.608	-	-	2.641	-	-	-	-	-	2.641
<i>Subtotal: Support - Program Management Cost</i>	-	-	4.245	-	-	4.618	-	-	6.983	-	-	3.873	-	-	-	-	-	3.873
Support - Training Cost																		
Equipment	-	-	4.353	-	-	3.337	-	-	3.562	-	-	3.633	-	-	-	-	-	3.633
<i>Subtotal: Support - Training Cost</i>	-	-	4.353	-	-	3.337	-	-	3.562	-	-	3.633	-	-	-	-	-	3.633
Gross/Weapon System Cost	12.080	3,203	38.691	11.572	5,763	66.692	8.058	6,136	49.441	22.130	2,219	49.107	1.500	2	0.003	22.112	2,221	49.110

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	4,034	4,296	1,663	2	1,665
	Total Obligation Authority	51.772	36.569	36.830	0.003	36.833
ANG	Quantity	1,153	1,227	334	-	334
	Total Obligation Authority	10.025	8.599	7.366	-	7.366
AR	Quantity	576	613	222	-	222
	Total Obligation Authority	4.895	4.273	4.911	-	4.911
Total: Secondary Distribution	Quantity	5,763	6,136	2,219	2	2,221
	Total Obligation Authority	66.692	49.441	49.107	0.003	49.110

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
		Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	15,749	5,088	9,039	1,246	-	1,246
Gross/Weapon System Cost (\$ in Millions)	90.168	63.578	58.363	35.710	-	35.710
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	90.168	63.578	58.363	35.710	-	35.710
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	90.168	63.578	58.363	35.710	-	35.710

(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)	5.725	12.496	6.457	28.660	-	28.660

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	18.314	379	6.941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACES Procurement	-	-	-	2.525	988	2.495	3.000	360	1.080	-	-	-	-	-	-	-	-	-
Fill Device Procurements ^(†)	2.504	14,300	35.812	3.391	4,100	13.903	2.931	9,693	28.410	-	-	8.008	-	-	-	-	-	8.008
NGLD S	-	-	-	-	-	-	2.000	1,246	2.492	2.000	1,246	2.492	-	-	-	2.000	1,246	2.492
Engineering Recurring	-	-	2.375	-	-	31.856	-	-	1.700	-	-	3.300	-	-	-	-	-	3.300
<i>Subtotal: Recurring Cost</i>	-	-	45.123	-	-	48.254	-	-	33.682	-	-	13.800	-	-	-	-	-	13.800
Subtotal: Hardware Cost	-	-	45.123	-	-	48.254	-	-	33.682	-	-	13.800	-	-	-	-	-	13.800
Software Cost																		
Recurring Cost																		
Post Deployment Software Support/NET	-	-	14.162	-	-	7.616	-	-	10.100	-	-	9.000	-	-	-	-	-	9.000
<i>Subtotal: Recurring Cost</i>	-	-	14.162	-	-	7.616	-	-	10.100	-	-	9.000	-	-	-	-	-	9.000
Subtotal: Software Cost	-	-	14.162	-	-	7.616	-	-	10.100	-	-	9.000	-	-	-	-	-	9.000
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	3.411	-	-	1.135	-	-	1.047	-	-	0.980	-	-	-	-	-	0.980
<i>Subtotal: Recurring Cost</i>	-	-	3.411	-	-	1.135	-	-	1.047	-	-	0.980	-	-	-	-	-	0.980
Subtotal: Package Fielding Cost	-	-	3.411	-	-	1.135	-	-	1.047	-	-	0.980	-	-	-	-	-	0.980

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)	Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Logistics Cost																		
Recurring Cost																		
Depot Support	-	-	1.636	-	-	1.092	-	-	0.308	-	-	1.690	-	-	-	-	-	1.690
<i>Subtotal: Recurring Cost</i>	-	-	1.636	-	-	1.092	-	-	0.308	-	-	1.690	-	-	-	-	-	1.690
<i>Subtotal: Logistics Cost</i>	-	-	1.636	-	-	1.092	-	-	0.308	-	-	1.690	-	-	-	-	-	1.690
Support - Program Management Cost																		
Government Management	-	-	13.085	-	-	1.350	-	-	8.577	-	-	6.235	-	-	-	-	-	6.235
Contractor Management	-	-	11.518	-	-	2.071	-	-	3.729	-	-	3.525	-	-	-	-	-	3.525
<i>Subtotal: Support - Program Management Cost</i>	-	-	24.603	-	-	3.421	-	-	12.306	-	-	9.760	-	-	-	-	-	9.760
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	0.270	-	-	0.170	-	-	-	-	-	0.170
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	0.270	-	-	0.170	-	-	-	-	-	0.170
Support - Training Cost																		
Services	-	-	1.233	-	-	2.060	-	-	0.650	-	-	0.310	-	-	-	-	-	0.310
<i>Subtotal: Support - Training Cost</i>	-	-	1.233	-	-	2.060	-	-	0.650	-	-	0.310	-	-	-	-	-	0.310
Gross/Weapon System Cost	5.725	15,749	90.168	12.496	5,088	63.578	6.457	9,039	58.363	28.660	1,246	35.710	-	-	-	28.660	1,246	35.710

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	3,561	6,327	934	-	934
	58.662	49.736	35.086	-	35.086
ANG	1,018	1,808	187	-	187
	3.277	5.751	0.374	-	0.374
AR	509	904	125	-	125
	1.639	2.876	0.250	-	0.250
Total: Secondary Distribution	5,088	9,039	1,246	-	1,246
	63.578	58.363	35.710	-	35.710

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)				Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Fill Device Procurements ^(†)		2016	SNC / Sparks NV	C / IDIQ	Spark, NV	Feb 2016	Nov 2016	7,150	2.530	Y		
Fill Device Procurements ^(†)		2017	SNC / Sparks NV	C / IDIQ	Spark, NV	Jul 2017	Apr 2018	4,100	3.390	Y		
Fill Device Procurements ^(†)		2018	SNC / Sparks NV	C / IDDQ	Spark, NV	Feb 2018	Nov 2018	9,693	2.930	Y		
Fill Device Procurements		2019	SNC / Sparks NV	C / IDDQ	Spark, NV	Feb 2018	Nov 2018	0	0.000			

^(†) indicates the presence of a P-21

Remarks:
The items - ACES & MGCs procurements are COTS or GOTS.

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Exhibit P-21, Production Schedule: PB 2019 Army																								Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64												P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)												Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE							
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 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
Fill Device Procurements																															
Prior Years Deliveries: 7150																															
	1	2016	ARMY	7,150	0	7,150																								0	
	1	2017	ARMY	4,100	0	4,100																							4,100		
	1	2018	ARMY	9,693	0	9,693																							9,693		

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64										P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)										Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE									

Cost Elements <i>(Units in 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			
Fill Device Procurements																																	
Prior Years Deliveries: 7150																																	
1		2016	ARMY	7,150	7,150	0																								0			
1		2017	ARMY	4,100	0	4,100	-	-	-	-	-	-	2,000	2,000	100																0		
1		2018	ARMY	9,693	0	9,693																								0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: 0125B96000 / Communications Security (COMSEC)
		Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	SNC - Sparks NV	2,000	2,000	10,000	0	0	0	0	0	0	0	0	0

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

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0125B96000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	300	-	300
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	3.014	-	3.520	-	3.520
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	3.014	-	3.520	-	3.520
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	3.014	-	3.520	-	3.520

(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>)	-	-	-	11.733	-	11.733

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	3.520	-	-	-	-	-	3.520
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	3.014	-	-	-	-	-	3.520	-	-	-	-	-	3.520
Gross/Weapon System Cost	-	-	-	-	-	3.014	-	-	-	11.733	300	3.520	-	-	-	11.733	300	3.520

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army					
Quantity	-	-	300	-	300
Total Obligation Authority	3.014	-	3.520	-	3.520
Total:					
Secondary Distribution					
Quantity	-	-	300	-	300
Total Obligation Authority	3.014	-	3.520	-	3.520

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	19.329	53.436	51.343	-	51.343	61.962	69.655	95.504	97.908	-	449.137
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	19.329	53.436	51.343	-	51.343	61.962	69.655	95.504	97.908	-	449.137
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	19.329	53.436	51.343	-	51.343	61.962	69.655	95.504	97.908	-	449.137

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 is a continuation of defensive cyberspace efforts originally resourced in Information System Security Program (ISSP), TA0600, which ended in FY16.

This budget line does not procure weapons systems or produce end items for weapons systems. All information technology (IT) procurement consists of commercial off-the-shelf (COTS) solutions. 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 Department of Defense (DoD) networks and systems. They provide initial capabilities that enable passive and active cyberspace defense operations to preserve friendly cyberspace capabilities, protect data, networks, net-centric capabilities, and other designated systems. Defensive cyber teams design, build, test, and use advanced cyber tools and infrastructure which enable active defense of the network from tactical command posts up through base, post camp, and Home Station Mission Command Centers (HSMCC). The DCO capability will enable integration of the Cyber Mission Force (CMF) with regional and local cyber network defense elements. Tools provided by DCO represents cutting edge hardware and software, integrated with existing infrastructure and tools to facilitate active Defensive Cyberspace Operations. DCO responds to unauthorized activity or alerts/threat information against the Army enterprise, and leverages intelligence, counterintelligence, law enforcement, and other military capabilities. DCO capabilities enable cyber defense teams to outmaneuver adversaries conducting offensive actions against defended networks and responds 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.

FY19 Defensive Cyber Operations consists of the following critical capabilities:

- Garrison DCO Platform (GDP): Pre-Positioned infrastructure (compute and storage capabilities) equipment that enables Cyber Protection Teams (CPTs) to remote into the target DODIN environments and conduct defensive cyberspace operations missions.
- Deployable DCO System (DDS): a deployable (fly away) kit, with dedicated compute and storage for austere environments not equipped with prepositioned infrastructure or where prepositioned DCO resources do not provide adequate capacity. The DDS provides global cyberspace defenders (Cyber Protection Teams) the ability to jump into a network physically onsite and gain a position of advantage to augmenting organic local and/or regional cyberspace defenders.
- Cyber Protection Team (CPT) Tool Suite: A flexible and dynamic set of commercial off the shelf (COTS), government off the shelf (GOTS), and developed software based set of warfighting capabilities that enable Cyber Mission Forces and sometimes local defenders to perform DCO and cyberspace security missions. DCO Tools also consists of a development and assessment environment enabling Soldiers to make immediate changes to tools, create tools, and update tools in a controlled environment.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

-Cyberspace Analytics (CA): An information technology cyberspace threat and vulnerability hunting capability that will allow the Army Cyber Mission forces to ingest multitudes of data sources, correlate that data, perform analysis and then turn that data into visual information in order to detect and illuminate adversaries and vulnerabilities.

-Mission Planning (MP): An application-based scalable, secure warfighting capability to support cyberspace operations mission command and planning at the global, regional, and local levels.

-Forensics and Malware Analysis (F&MA): A set of applications used to provide the enterprise-level function to detect, analyze, mitigate and eradicate malicious IT threats (malware) on defended networks. F&MA will hunt for malware residing on processing components, including, clients, servers and network components. It will also provide information support on assessment of damages, and restoration of network or services. The applications will examine the operation of malware, isolate, and extract it from the contaminated network to a controlled environment.

-User Activity Monitoring (UAM): The primary capability within the Army's overall Insider Threat program. UAM will mitigate gaps that inhibit the Army's ability to identify anomalous or malicious user activity that may pose a threat to the Non-secure Internet Protocol Router Network (NIPRNet) and Secure Internet Protocol Router Network (SIPRNet) networks. UAM is a software-based, scalable solution that proactively identifies and mitigates internal risks associated with the theft or misuse of critical, mission essential data. It utilizes an integrated approach with a centralized UAM cell sending data to a core Insider Threat Hub.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.329	53.436	51.343	-	51.343	61.962	69.655	95.504	97.908
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.329	53.436	51.343	-	51.343	61.962	69.655	95.504	97.908

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 64: Information Security

P-1 Line Item Number / Title:
 0128B63000 / Defensive CYBER Operations

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605041A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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			- / -	- / 19.329	- / 53.436	- / 51.343	- / -	- / 51.343
P-40	Total Gross/Weapon System Cost				- / -	- / 19.329	- / 53.436	- / 51.343	- / -	- / 51.343

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

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

Justification:
 B63103/Defensive Cyber Tools:

FY 2019 Base procurement dollars in the amount of \$51.343 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 as follows:

FY 2019 Base procurement dollars in the amount of \$14.117 million procures fifteen (15) Garrison DCO Platforms providing prepositioned compute and storage capabilities at six (6) garrison installations

FY 2019 Base procurement dollars in the amount of \$13.739 million procures twenty four (24) Deployable DCO Systems providing fly-away kit capabilities to eight (8) additional Cyber Protection Teams and fund Army Cyber Command (ARCYBER) rapid acquisition authority.

FY 2019 Base procurement dollars in the amount of \$4.200 million procures Cyber Protection Team Tool suite 2.0 which focuses on adding reverse engineering and vulnerability management software tools and training

FY 2019 Base procurement dollars in the amount \$8.912 million for the continuation of Big Data Platform and New Equipment Training for cyberspace analytics capabilities

FY 2019 Base procurement dollars in the amount of \$1.000 million for Plan X Training to support cyberspace operations mission planning

FY 2019 Base procurement dollars in the amount of \$3.462 million procures Forensics and Malware analysis software for remote device integrity analysis and repair

FY 2019 Base procurement dollars in the amount of \$5.913 million procures the infrastructure to support User Activity Monitoring on the Non-secure Internet Protocol Router Network (NIPRNet) and Secure Internet Protocol Router Network (SIPRNet) networks.

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 funding goes to the Active Component.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64		P-1 Line Item Number / Title: 0128B63000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	19.329	53.436	51.343	-	51.343
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	19.329	53.436	51.343	-	51.343
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	19.329	53.436	51.343	-	51.343

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
CYBERSPACE ANALYTICS ^(†)	-	-	-	-	-	-	14,836.000	1	14.836	8,912.000	1	8.912	-	-	-	8,912.000	1	8.912
CYBER PROTECTION TEAM TOOL SUITE ^(†)	-	-	6,300.000	1	6.300	23,800.000	1	23.800	4,200.000	1	4.200	-	-	-	4,200.000	1	4.200	
GARRISON DCO PLATFORMS ^(†)	-	-	-	-	-	7,800.000	1	7.800	941.133	15	14.117	-	-	-	941.133	15	14.117	
DEPLOYABLE DCO SYSTEMS ^(†)	-	-	4,010.000	1	4.010	7,000.000	1	7.000	572.458	24	13.739	-	-	-	572.458	24	13.739	
FORENSICS & MALWARE ^(†)	-	-	-	-	-	-	-	-	3,462.000	1	3.462	-	-	-	3,462.000	1	3.462	
MISSION PLANNING ^(†)	-	-	-	-	-	-	-	-	1,000.000	1	1.000	-	-	-	1,000.000	1	1.000	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>10.310</i>	-	-	<i>53.436</i>	-	-	<i>45.430</i>	-	-	-	-	-	<i>45.430</i>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	10.310	-	-	53.436	-	-	45.430	-	-	-	-	-	45.430
Hardware Cost																		
Non Recurring Cost																		
DCO INFRASTRUCTURE ENTERPRISE HARDWARE (TDI)	-	-	5,800.000	1	5.800	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64						P-1 Line Item Number / Title: 0128B63000 / Defensive CYBER Operations						Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	-	-	-	5.800	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	5.800	-	-	-	-	-	-	-	-	-	-	-	-
Software Cost																		
Recurring Cost																		
USER ACTIVITY MONITORING ^(†)	-	-	-	-	-	-	-	-	-	5,913.000	1	5.913	-	-	-	5,913.000	1	5.913
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.913	-	-	-	-	-	5.913
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.913	-	-	-	-	-	5.913
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	3.219	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	3.219	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	19.329	-	-	53.436	-	-	51.343	-	-	-	-	-	51.343

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	19.329	53.436	51.343	-	51.343
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	19.329	53.436	51.343	-	51.343

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64	P-1 Line Item Number / Title: 0128B63000 / 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
CYBERSPACE ANALYTICS		2018	TBD / TBD	C / TBD	ACC-Rock Island, IL	Jun 2018	Jul 2018	1	14,836.000			
CYBERSPACE ANALYTICS		2019	TBD / TBD	C / TBD	ACC-Rock Island, IL	Jun 2019	Jul 2019	1	8,912.000			
CYBER PROTECTION TEAM TOOL SUITE		2017	CHESS / ACC-RI	C / FFP	ACC-Rock Island, IL	Aug 2017	Sep 2017	1	6,300.000	Y		
CYBER PROTECTION TEAM TOOL SUITE		2018	TBD / TBD	C / TBD	ACC-Rock Island, IL	Feb 2018	Mar 2018	1	23,800.000			
CYBER PROTECTION TEAM TOOL SUITE		2019	TBD / TBD	C / TBD	ACC-Rock Island, IL	Feb 2019	Mar 2019	1	4,200.000			
GARRISON DCO PLATFORMS		2018	TBD / TBD	C / TBD	ACC-Rock Island, IL	Jun 2018	Jul 2018	1	7,800.000			
GARRISON DCO PLATFORMS		2019	TBD / TBD	C / TBD	ACC-Rock Island, IL	Jun 2019	Jul 2019	15	941.130			
DEPLOYABLE DCO SYSTEMS		2017	CHESS / ACC-RI	C / FFP	ACC-Rock Island, IL	Aug 2017	Sep 2017	1	4,010.000	Y		
DEPLOYABLE DCO SYSTEMS		2018	TBD / TBD	C / TBD	ACC-Rock Island, IL	Jun 2018	Jul 2018	1	7,000.000			
DEPLOYABLE DCO SYSTEMS		2019	TBD / TBD	C / TBD	ACC-Rock Island, IL	Jun 2019	Jul 2019	24	572.460			
FORENSICS & MALWARE		2019	TBD / TBD	C / TBD	ACC-Rock Island, IL	Feb 2019	Mar 2019	1	3,462.000			
MISSION PLANNING		2019	TBD / TBD	C / FFP	ACC-Rock Island, IL	Jan 2019	Feb 2019	1	1,000.000			
USER ACTIVITY MONITORING		2019	TBD / TBD	C / TBD	ACC-Rock Island, IL	Feb 2019	Mar 2019	1	5,913.000			

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 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	0.690	0.330	-	0.330	0.756	1.762	0.360	-	-	3.898
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	0.690	0.330	-	0.330	0.756	1.762	0.360	-	-	3.898
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	0.690	0.330	-	0.330	0.756	1.762	0.360	-	-	3.898

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 weapons systems. All IT procurements consist of COTS solutions.

Army user activity monitoring (UAM) operations are conducted in support of the Army's insider threat program. User activity monitoring is the technical capability to observe and record the actions and activities of an individual, at any time, on any device access US Government information in order to detect insider threats and to support authorized investigations. The OPA program supports three objectives. First, it provides advanced analytics (including user behavior modeling software) to increase UAM analysis effectiveness and efficiency. Second, it provides additional system hardware, and third, it support the procurement of the next generation Army UAM tool in FY 2021. Advanced analytics procurement includes commercial-of-the-shelf (COTS) hardware and software, and open source software. This capability will increase UAM analysts' effectiveness and efficiency. The primary objective is to employ COTS technology to identify potential insider threats by monitoring behavior between users, user interactions with data and network capabilities (especially in regards to privileged users), and monitoring user compliance with network and data standards and policies.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	0.690	0.330	-	0.330	0.756	1.762	0.360	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	0.690	0.330	-	0.330	0.756	1.762	0.360	-

Justification:

FY 2019 UAM Automation/Analytics Base procurement dollars in the amount of \$0.330 million support the procurement, installation, assessment and authorization of commercial-off-the-shelf (COTS) technology to enhance Army UAM analysis effectiveness and efficiency in support of the Army's Insider Threat Program. Army executes its insider threat program in accordance with Executive Order 13587, Structural Reforms to Improve the Security of Classified Networks and the Responsible Sharing and Safeguarding of Classified Information, (Reference b) dated 7 October 2011; Presidential Memorandum, National Insider Threat Policy and Minimum Standards for Executive Branch Insider Threat Programs, dated 21 November 2012; National Defense Authorization Act for Fiscal Year 2012, Section 922, Insider Threat Detection; and Army Directive 2013-18 (Army Insider Threat Program) dated 31 July 2013.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security		P-1 Line Item Number / Title: 0131B89000 / Insider Threat Program - Unit Activity Monitoring
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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security	P-1 Line Item Number / Title: 0132B65010 / Persistent Cyber Training Environment
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	4.000	3.000	-	3.000	3.000	3.000	3.000	3.000	-	19.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	4.000	3.000	-	3.000	3.000	3.000	3.000	3.000	-	19.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	4.000	3.000	-	3.000	3.000	3.000	3.000	3.000	-	19.000

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

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

Description:

Persistent Cyber Training Environment (PCTE) will provide the Department of Defense (DoD) cyber forces with a standardized training capability with access to existing Cyber Training Ranges (CTR) and available training resources and content. The current environment does not have the capacity to maintain a persistent environment and is primarily used for major exercises (i.e. Cyber Flag). Funding provides the infrastructure, networks, and environments for the Persistent Cyber Training Environment (PCTE), at multiple classification levels across the Department of Defense (DOD). The program will provide a combination of loosely affiliated or independent virtual environments that are representative of the networks and systems the DoD Cyber Mission Forces (CMFs) are assigned to defend or attack.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.000	3.000	-	3.000	3.000	3.000	3.000	3.000
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.000	3.000	-	3.000	3.000	3.000	3.000	3.000

Justification:

FY19 Base procurement in the amount of \$3.000 million supports the identification and resolution of gaps in hardware and software infrastructure specifically for the requirements related to virtual environments needed for Cyber Operational training. The supporting hardware and Operating System (OS) will provide a cloud-like environment which allows the Persistent Cyber Training Environment (PCTE) to utilize available compute, storage, and content across all the cyber ranges. In addition, the funding will be used to acquire virtual environments (such as blue, grey, red, or installation control system (ICS)) that the CMF use for their maneuver terrain for training on Tactics, Techniques, and Procedures (TTPs).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	720.930	32.852	43.751	34.434	0.690	35.124	31.372	27.138	27.683	16.654	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	720.930	32.852	43.751	34.434	0.690	35.124	31.372	27.138	27.683	16.654	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	720.930	32.852	43.751	34.434	0.690	35.124	31.372	27.138	27.683	16.654	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:

Land Mobile Radio (LMR) systems are commercial solutions that provide mission critical mobile and portable communications for garrison first responders, public safety, force protection, homeland security, pre-deployment logistics support, and installation management missions. The Army's LMR program provides network infrastructure and subscriber unit devices to ensure a synchronized, timely, and effective emergency first response. Originally designed and resourced to modernize Continental United States (CONUS) LMR systems to meet the National Telecommunications Information Administrations Narrowband (NTIA) mandates and to upgrade to the Association of Public-safety Communications Officers (APCO) Project 25 (P25) standards, the Army LMR program has grown to meet Army LMR requirements world-wide including providing communications support for non-combatant evacuation orders (NEO) in the OCONUS Theaters.

The LMR program provides all LMR system hardware/software infrastructure to include initial critical system spares, subscriber units in accordance with the IMCOM Basis of issue plan (BOIP), and two years of interim contractor support including system and cyber security patching.

Land Mobile Radio systems are a system of systems composed of various hardware and software components. Requirements at each post/camp/station vary based on the geographic coverage area, terrain of the installation, number of end users, number of mutual aid partners, and installation dispatch concept of operations. To meet the first responder and installation non-tactical communications mission requirements, the solution at each post/camp/station is unique and determined by government surveys and coordination with stakeholders.

To optimize efficiencies, Army LMR systems are currently migrating from a stand-alone LMR system at each post/camp/station to an enterprise network model that will centralize the information system to maximize cost-effectiveness and cyber security. The LMR systems are key components of the Army enterprise used to provide a seamless communications network in support of garrison level communications and infrastructure. Without adequate communications capabilities that enable coordinated emergency response, maximize the use of scarce radio spectrum, and provide secure voice transmissions, emergency responders and base support personnel would be significantly constrained in their ability to perform key emergency response functions. This is a health, life, and safety Army requirement.

	Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	32.852	43.751	34.434	0.690	35.124	31.372	27.138	27.683	16.654
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	32.852	43.751	34.434	0.690	35.124	31.372	27.138	27.683	16.654

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BU4160 / Base Support Communications	P-5a			- / 720.930	- / 32.852	- / 43.751	- / 34.434	- / 0.690	- / 35.124
P-40	Total Gross/Weapon System Cost				- / 720.930	- / 32.852	- / 43.751	- / 34.434	- / 0.690	- / 35.124

*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:
 FY19 base funding in the amount of \$34.434 million will modernize the following locations: Korea (Phase II) will upgrade all Radio Frequency (RF) components, subscriber units throughout Korea, and provides Continuity of Operations Plan (COOP) capabilities by providing a redundant LMR Core for the Joint Japan (J2) LMR system; Japan (Phase II) will provide five (5) new Radio Frequency (RF) sites throughout mainland Japan and Okinawa to provide critical coverage for J2LMR subscribers; Italy and Benelux will be upgraded to connect to the Joint Army/Air Force European Enterprise LMR (EELMR) system providing critical coverage to all USAG in Italy and Benelux. Finally, LMR upgrades in Continental United States (CONUS) for Fort Riley and Fort Benning/Camp Merrill will be completed with the upgrade and modernization of subscribers units.

The quantity for cost element "Commercial" LMR Systems represents the number of local installations being modernized in the fiscal year, not an end item or the number of LMR systems. LMR is a commercial off-the-shelf solution that is a system of systems composed of various hardware and software components. Requirements at each post/camp/station vary based on the geographic coverage area, terrain of the installation, number of end users, number of mutual aid partners, and dispatch concept of operations. For example, Fort Rucker, AL consisted of 1 Core, 30 Repeaters, 4 Dispatch Consoles, 2 Logging Recorders, 1 Mutual Aid Interoperability Gateway, 2 Universal Power Supplies (UPS), 2 System Management Terminals (SMT), 2 Motorola Supervisory Control and Data Acquisition (MOSCAD) Clients, and 10 Key Variable Loaders (KVLs). In comparison, McAlester Army Ammo Plant consisted of 1 Core, 6 Repeaters, 4 Dispatch Consoles, 1 Logging Recorder, 1 Mutual Aid Interoperability Gateway, and 1 SMT. These elements are the main cost drivers for the LMR system solutions. All quantities and unit costs vary based on the unique requirements at each installation and the level of effort required as a result of the Government site survey that is completed for each location. Locations are determined by a stakeholder analysis, and prioritization that is reviewed annually in accordance with current requirements, threat analysis and DoD and Army Planning Guidance.

The Interim Contractor Support (ICS) cost element provides interim contractor support for initial system maintenance and cyber security patching. The ICS cost element is also driven by the aforementioned cost drivers, the more equipment required at a post/camp/station to meet coverage and user requirements, the higher the level of effort for the ICS.

The majority of existing LMR systems at Army installations do not meet DoD and Army standards, are obsolete, are no longer supported by the manufacturer, and/or are non-compliant with the National Telecommunications and Information Administrations (NTIA) spectrum efficiency mandate. Power projection and power support Army installations across the continental United States (CONUS) and the Europe and Pacific Area of Operations rely on base support LMR systems as a primary means to support force protection, public safety, installation management, homeland security missions and non-combatant evacuation operations (NEO).

FY19 OCO funding in the amount of \$0.690 million procures software and hardware updates to the current Joint Task Force-Guantanamo (JTF-GTMO) Bay LMR system in support of 1,250 plus subscriber units, to meet Cyber Security updates and maintain compliance with Information Assurance scans and procedures.

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

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72	P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications	Item Number / Title [DODIC]: BU4160 / Base Support Communications
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	720.930	32.852	43.751	34.434	0.690	35.124
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	720.930	32.852	43.751	34.434	0.690	35.124
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	720.930	32.852	43.751	34.434	0.690	35.124

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(f)	655,478.000	1	655.478	6,633.700	4	26.535	5,650.200	5	28.251	5,558.500	4	22.234	-	-	-	5,558.500	4	22.234
Interim Contractor Support ^(f)	-	-	-	518.700	4	2.075	2,500.000	5	12.500	2,000.000	4	8.000	-	-	-	2,000.000	4	8.000
Engineering and Program Management ^(f)	32,726.000	2	65.452	4,242.000	1	4.242	3,000.000	1	3.000	4,200.000	1	4.200	-	-	-	4,200.000	1	4.200
GTMO LMR Systems ^(f)	-	-	-	-	-	-	-	-	-	-	-	-	690.100	1	0.690	690.000	1	0.690
<i>Subtotal: Non Recurring Cost</i>	-	-	720.930	-	-	32.852	-	-	43.751	-	-	34.434	-	-	0.690	-	-	35.124
<i>Subtotal: Hardware Cost</i>	-	-	720.930	-	-	32.852	-	-	43.751	-	-	34.434	-	-	0.690	-	-	35.124
Gross/Weapon System Cost	-	-	720.930	-	-	32.852	-	-	43.751	-	-	34.434	-	-	0.690	-	-	35.124

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	32.852	43.751	34.434	0.690	35.124
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army			Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72		P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications		Item Number / Title [DODIC]: BU4160 / Base Support Communications		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution	Total Obligation Authority	32.852	43.751	34.434	0.690	35.124

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72			P-1 Line Item Number / Title: 9716BU4160 / Base Support Communications				Item Number / Title [DODIC]: BU4160 / Base Support Communications				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Commercial LMR Systems		2017	VAR / .VAR	C / FFP	ACC RI, Rock Island, IL	Jul 2017	Aug 2017	4	6,633.700			
Commercial LMR Systems		2018	TBD / TBD	C / FFP	ACC RI, Rock Island, IL	Apr 2018	May 2018	5	5,650.200			
Commercial LMR Systems		2019	TBD / TBD	C / FFP	ACC RI, Rock Island, IL	Mar 2019	Apr 2019	4	5,558.500			
Interim Contractor Support		2017	VAR / .VAR	C / FFP	ACC RI, Rock Island, IL	Apr 2017	May 2017	4	518.700			
Interim Contractor Support		2018	TBD / TBD	C / FFP	ACC RI, Rock Island, IL	Jul 2018	Aug 2018	5	2,500.000			
Interim Contractor Support		2019	TBD / TBD	C / FFP	ACC RI, Rock Island, IL	Apr 2019	May 2019	4	2,000.000			
Engineering and Program Management		2017	ISEC / Ft. Detrick, MD	MIPR	ISEC, Fort Detrick, MD/ PEO FT Belvoir, Va	Apr 2017	May 2017	1	4,242.000			
Engineering and Program Management		2018	ISEC / Ft. Detrick, MD	MIPR	ISEC, Fort Detrick, MD/ PEO FT Belvoir, Va	Apr 2018	May 2018	1	3,000.000			
Engineering and Program Management		2019	ISEC / Ft. Detrick, MD	MIPR	ISEC, Fort Detrick, MD/ PEO FT Belvoir, Va	Apr 2019	May 2019	1	4,200.000			
GTMO LMR Systems	✓	2019	TBD / TBD	C / FFP	TBD	Apr 2019	May 2019	1	690.000			

Remarks:

All IT procurements consist of Commercial Off-The-shelf (COTS) solutions. 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.

FY19 base funding in the amount of \$34.434 million will modernize the following locations: Korea (Phase II) will upgrade all Radio Frequency (RF) components, subscriber units throughout Korea, and provides COOP capabilities by providing a redundant LMR Core for the Joint Japan (J2) LMR system; Japan (Phase II) will provide five (5) new Radio Frequency (RF) sites throughout mainland Japan and Okinawa to provide critical coverage for J2LMR subscribers; Italy and Benelux will be upgraded to connect to the Joint Army/Air Force European Enterprise LMR (EELMR) system providing critical coverage to all USAG in Italy and Benelux. Finally, LMR upgrades in Continental United States (CONUS) for Fort Riley and Fort Benning/Camp Merrill will be completed with the upgrade and modernization of subscribers units.

FY19 OC0 funding in the amount of \$.690 million procures software and hardware updates to the current Joint Task Force-Guantanamo (JTF-GTMO) Bay LMR system in support of 1,250 plus subscriber units, to meet Cyber Security updates and maintain compliance with Information Assurance scans and procedures.

Note the quantity for cost element of "Commercial LMR systems does not articulate an end item or the number of LMR systems, rather, it represents the number of local installations/area of responsibility being modernized in the fiscal year. Requirements at each post/camp/station vary based on the geographic coverage area, terrain of the installation, number of end users, number of mutual aid partners, and dispatch concept of operations. These elements are the main cost drivers for the LMR system solutions.

Increase unit cost in Engineering and Program Management from FY18 to FY19 is due to the fact that all FY19 priorities are OCONUS sites requiring additional Program Management costs for travel, and Engineering due to Host Nation approval requirements for spectrum, and site preparation requirements associated with the implementation of the LMR solutions.

The Interim Contractor Support (ICS) cost element provides interim contractor support for initial system maintenance and cyber security patching. The ICS cost element is also driven by the aforementioned cost drivers, the more equipment required at a post/camp/station to coverage and user requirements, the higher the level of effort for the ICS.

Decreased unit cost for Interim Contract Support (ICS) is due to a decrease in the amount of equipment and type of LMR equipment that will be procured in FY19 because of the Phased approach utilized for Korea and Japan modernization/upgrade. The majority of the system equipment was procured in FY16 (Japan Phase I) and FY18 (Korea Phase I); therefore, ICS cost was included for that equipment in the year it was procured.

All quantities of LMR hardware/software vary based on the unique requirements at each installation and the level of effort required as a result of the Government site survey that is completed for each location. Fluctuations in unit costs year to year for Commercial LMR Systems and ICS are based on the cost drivers and specific requirements at each post/camp/station.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,692.162	114.555	118.101	95.558	8.750	104.308	95.787	70.060	113.119	110.453	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,692.162	114.555	118.101	95.558	8.750	104.308	95.787	70.060	113.119	110.453	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,692.162	114.555	118.101	95.558	8.750	104.308	95.787	70.060	113.119	110.453	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>)	1,346,081.000	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Description:

This budget line does not procure weapons systems or produce end items. All Information Technology (IT) procurements consist of COTS/GOTS solutions; all quantities and unit 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 to include IT supporting classification above SECRET. This program consolidates individual organizational requirements to provide a deliberate planned programmatic approach to procure mission essential Information Systems equipment.

Guantanamo Bay (GTMO) Detention Legal Complex: Overseas Contingency Operations (OCO) specifically supports Guantanamo Bay. This project provides adequate legal office facilities for the detention mission in accordance with international legal standards for space and confidentiality. Current accommodation is in an expeditionary facility located outside of the security wire that has exceeded life expectancy. Project relocates Detainee Legal Complex within the Intrusion Detection System fence and facilitates closing Camp Delta. The Detention Legal Complex will provide a location for detainees, their legal representation, and interpreters to discuss important legal matters. This project will provide a platform for communications and support the Presidential Preservation Order.

Guantanamo Bay (GTMO) Unaccompanied Housing/High Value Detainee Facility (HVD)/NOC Facility/Detention Facility: Overseas Contingency Operations (OCO) specifically supports Guantanamo Bay. This project extends NIPR network infrastructure and end user equipment in the unaccompanied housing area, Detention Communications Facility, and Network Operations Center (NOC). IT supports network

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9200BB8650 / Information Systems
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

connectivity and communications for command and control capabilities at the living quarters of directorate level commanders and NIPR/SIPR capabilities for the Joint Task Force- GTMO. This infrastructure also provide a means for detainees to communicate with their families at the High Value Detainee (HVD) facility.

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.

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.

INFORMATION SYSTEMS (CYBER):

This program provides for the Mission Unique Information Systems requirements supporting the U.S. Army Cyber Command (ARCYBER) Cyber Protection Teams (CPTs). It procures the necessary Information Systems infrastructure, systems, and equipment to fit-out the Cyber Protection Team Operations Facility at Ft. Gordon. The CPT facility will support defensive and offensive cyber missions to protect the Army's critical information networks and systems to ensure the full range of DoD, Combatant Commands, Army Commands, and Homeland Defense cyberspace operations.

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	114.555	118.101	95.558	8.750	104.308	95.787	70.060	113.119	110.453
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	114.555	118.101	95.558	8.750	104.308	95.787	70.060	113.119	110.453

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title:
9200BB8650 / Information Systems

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION	P-5a			2 / 90.634	- / 90.054	- / 46.004	- / 63.523	- / 8.750	- / 72.273
P-5	BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)	P-5a			- / 1,587.520	- / 16.741	- / 23.564	- / 21.595	- / -	- / 21.595
P-5	BB8655 / Information Systems (Cyber)	P-5a			- / -	- / -	- / 38.533	- / -	- / -	- / -
P-5	BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)	P-5a			- / 1,014.008	- / 7.760	- / 10.000	- / 10.440	- / -	- / 10.440
P-40	Total Gross/Weapon System Cost				- / 2,692.162	- / 114.555	- / 118.101	- / 95.558	- / 8.750	- / 104.308

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

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

Justification:
PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION:
 FY 2019 Base procurement dollars in the amount of \$63.523 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.

FY2019 OCO procurement dollars in the amount of \$3.000 million support GTMO Legal Complex IT end user equipment for general purpose administration, security screening area, visitor waiting area, guard/cadre area, and monitoring room.

FY2019 OCO procurement dollars in the amount of \$5.750 million support GTMO Facilities. Funds provide end user equipment such as computers, phones, routers/switches, cabling, speakers, microphones, sound mixers, cameras, radios, and encryption devices. It also supports updated infrastructure and end user equipment at the HVD facility.

INFORMATION SYSTEMS (MCA SUPPORT):
 FY 2019 Base procurement dollars in the amount of \$21.595 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 2019 Base procurement dollars in the amount of \$10.440 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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9200BB8650 / Information Systems
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>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.</p>		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT- MCA/PHYSICAL RELOCATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	2	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	90.634	90.054	46.004	63.523	8.750	72.273
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	90.634	90.054	46.004	63.523	8.750	72.273
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	90.634	90.054	46.004	63.523	8.750	72.273

(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)	45,317.000	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	45,317.000	2	90.634	90,054.000	1	90.054	46,004.000	1	46.004	63,523.000	1	63.523	-	-	-	63,523.000	1	63.523
GTMO Detention Legal Complex ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	3,000.000	1	3.000	3,000.000	1	3.000
GTMO Unaccompanied Housing/High Value Detainee Facility/NOC Facility/Detention Facility ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	5,750.000	1	5.750	5,750.000	1	5.750
<i>Subtotal: Non Recurring Cost</i>	-	-	90.634	-	-	90.054	-	-	46.004	-	-	63.523	-	-	8.750	-	-	72.273
<i>Subtotal: Hardware Cost</i>	-	-	90.634	-	-	90.054	-	-	46.004	-	-	63.523	-	-	8.750	-	-	72.273
Gross/Weapon System Cost	45,317.000	2	90.634	-	-	90.054	-	-	46.004	-	-	63.523	-	-	8.750	-	-	72.273

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	90.054	46.004	63.523	8.750	72.273
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT- MCA/PHYSICAL RELOCATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution	Total Obligation Authority	90.054	46.004	63.523	8.750	72.273

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9200BB8650 / Information Systems				Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Proponent/Mission IT Hardware		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	1	90,054.000	Y		Apr 2017
Proponent/Mission IT Hardware		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Dec 2018	1	46,004.000	Y		Apr 2018
Proponent/Mission IT Hardware		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2019	Dec 2019	1	63,523.000	N		Apr 2019
GTMO Detention Legal Complex	✓	2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2019	Dec 2019	1	3,000.000	N		Apr 2019
GTMO Unaccompanied Housing/ High Value Detainee Facility/NOC Facility/Detention Facility	✓	2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2019	Dec 2019	1	5,750.000	N		Apr 2019

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. Army Contracting Command-Rock Island ACC-RI.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,587.520	16.741	23.564	21.595	-	21.595
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,587.520	16.741	23.564	21.595	-	21.595
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,587.520	16.741	23.564	21.595	-	21.595

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	9,090.000	13	118.170	4,545.000	1	4.545	4,545.000	2	9.090	9,090.000	1	9.090	-	-	-	9,090.000	1	9.090
MCA Spt-Switch Upgrades ^(†)	260.000	57	14.820	1,560.000	1	1.560	130.000	12	1.560	1,300.000	1	1.300	-	-	-	1,300.000	1	1.300
MCA Spt-Telephone System ^(†)	150.000	57	8.550	900.000	1	0.900	75.000	13	0.975	825.000	1	0.825	-	-	-	825.000	1	0.825
MCA Spt-LAN Transport System ^(†)	550.000	54	29.700	3,300.000	1	3.300	275.000	12	3.300	2,750.000	1	2.750	-	-	-	2,750.000	1	2.750
MCA Spt-Range Connectivity ^(†)	1,500.000	12	18.000	1,500.000	1	1.500	750.000	4	3.000	2,250.000	1	2.250	-	-	-	2,250.000	1	2.250
MCA Spt-Secure Data/ Encryption Devices ^(†)	1,000.000	15	15.000	1,000.000	1	1.000	500.000	3	1.500	1,000.000	1	1.000	-	-	-	1,000.000	1	1.000
MCA Spt-Engineering Svcs ^(†)	45,963.000	2	91.926	2,343.000	1	2.343	2,359.000	1	2.359	2,102.000	1	2.102	-	-	-	2,102.000	1	2.102
Phys Plant Infrastructure Spt IS Assets ^(†)	-	-	-	1,593.000	1	1.593	1,780.000	1	1.780	2,278.000	1	2.278	-	-	-	2,278.000	1	2.278
MCA	1,291,354.000	1	1,291.354	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>1,587.520</i>	<i>-</i>	<i>-</i>	<i>16.741</i>	<i>-</i>	<i>-</i>	<i>23.564</i>	<i>-</i>	<i>-</i>	<i>21.595</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>21.595</i>

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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: Hardware Cost</i>	-	-	1,587.520	-	-	16.741	-	-	23.564	-	-	21.595	-	-	-	-	-	21.595
Gross/Weapon System Cost	-	-	1,587.520	-	-	16.741	-	-	23.564	-	-	21.595	-	-	-	-	-	21.595

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	16.741	23.564	21.595	-	21.595
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	16.741	23.564	21.595	-	21.595

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9200BB8650 / Information Systems				Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MCA Spt-Telephone Switch		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	4,545.000	Y		
MCA Spt-Telephone Switch		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	2	4,545.000	Y		
MCA Spt-Telephone Switch		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	9,090.000	N		
MCA Spt-Switch Upgrades		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	1,560.000	Y		
MCA Spt-Switch Upgrades		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	12	130.000	Y		
MCA Spt-Switch Upgrades		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	1,300.000	N		
MCA Spt-Telephone System		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	900.000	Y		
MCA Spt-Telephone System		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	13	75.000	Y		
MCA Spt-Telephone System		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	825.000	N		
MCA Spt-LAN Transport System		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	3,300.000	Y		
MCA Spt-LAN Transport System		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	12	275.000	Y		
MCA Spt-LAN Transport System		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	2,750.000	N		
MCA Spt-Range Connectivity		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	1,500.000	Y		
MCA Spt-Range Connectivity		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	4	750.000	Y		
MCA Spt-Range Connectivity		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	2,250.000	N		
MCA Spt-Secure Data/Encryption Devices		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	1,000.000	Y		
MCA Spt-Secure Data/Encryption Devices		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	3	500.000	Y		
MCA Spt-Secure Data/Encryption Devices		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	1,000.000	N		
MCA Spt-Engineering Svcs		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	2,343.000	Y		
MCA Spt-Engineering Svcs		2018	TBS / TBS	C / FFP	ACC-HUA, Ft. Huachuca, AZ	Aug 2018	Nov 2018	1	2,359.000	Y		
MCA Spt-Engineering Svcs		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	2,102.000	N		
Phys Plant Infrastructure Spt IS Assets		2017	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Mar 2018	Jun 2018	1	1,593.000	Y		
Phys Plant Infrastructure Spt IS Assets		2018	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Nov 2018	1	1,780.000	Y		
Phys Plant Infrastructure Spt IS Assets		2019	TBS / TBS	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	Jul 2019	1	2,278.000	N		

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. ACC-RI - Army Contracting Command-Rock Island; ACC-HUA - Army Contracting Command-Fort Huachuca.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: BB8655 / Information Systems (Cyber)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	38.533	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	38.533	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	38.533	-	-	-

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Information Systems (Cyber) ^(†)	-	-	-	-	-	-	38,533.000	1	38.533	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	38.533	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	38.533	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	38.533	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	38.533	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	38.533	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: BB8655 / Information Systems (Cyber)
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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
Information Systems (Cyber)		2018	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Aug 2018	Oct 2018	1	38,533.000	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.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9200BB8650 / Information Systems	Item Number / Title [DODIC]: BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,014.008	7.760	10.000	10.440	-	10.440
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,014.008	7.760	10.000	10.440	-	10.440
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,014.008	7.760	10.000	10.440	-	10.440

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	1,014,008.000	1	1,014.008	7,760.000	1	7.760	10,000.000	1	10.000	10,440.000	1	10.440	-	-	-	10,440.000	1	10.440
<i>Subtotal: Non Recurring Cost</i>	-	-	1,014.008	-	-	7.760	-	-	10.000	-	-	10.440	-	-	-	-	-	10.440
<i>Subtotal: Hardware Cost</i>	-	-	1,014.008	-	-	7.760	-	-	10.000	-	-	10.440	-	-	-	-	-	10.440
Gross/Weapon System Cost	-	-	1,014.008	-	-	7.760	-	-	10.000	-	-	10.440	-	-	-	-	-	10.440

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	7.760	10.000	10.440	-	10.440
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	7.760	10.000	10.440	-	10.440

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9200BB8650 / Information Systems				Item Number / Title [DODIC]: BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Sustain/Restore/Modernize (SRM) HW		2017	TBS / TBS	C / FFP	CHESS, Ft. Belvoir, VA	Aug 2018	Sep 2018	1	7,760.000	Y		
Sustain/Restore/Modernize (SRM) HW		2018	TBS / TBS	C / FFP	CHESS, Ft Belvoir, VA	Apr 2018	Sep 2018	1	10,000.000	N		
Sustain/Restore/Modernize (SRM) HW		2019	TBS / TBS	C / FFP	CHESS, Ft Belvoir, VA	Apr 2019	Sep 2019	1	10,440.000	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.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9666BU8000 / Emergency Management Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	158.443	4.286	4.490	4.736	-	4.736	4.854	4.905	4.939	4.940	-	191.593
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	158.443	4.286	4.490	4.736	-	4.736	4.854	4.905	4.939	4.940	-	191.593
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	158.443	4.286	4.490	4.736	-	4.736	4.854	4.905	4.939	4.940	-	191.593

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

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

Description:

The Emergency Management Modernization Program (EM2P) 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 Enterprise Mass Warning and Notification (EMWN) technologies, Enhanced 911 (E911) solutions and Computer Aided Dispatch (CAD) capability (fielding beginning in FY18).

CAD is a central hub capable of dispatching law enforcement/fire/medical services. CAD is integrated with Automated Installation Entry (AIE), Enterprise Mass Warning and Notification (EMWN), and law enforcement (LE) authoritative data sources as well as with local civilian CAD and civilian LE authoritative data sources. CAD is a technical software/hardware system which assists dispatchers, call-takers, and 911 operators in tracking, monitoring and rapid dispatching of first responders using geographic information system (GIS) mobile technology, pre-programmed protocols getting the nearest responders quickest to critical incidents, while maintaining records of these responses. CAD is a system used by dispatchers and first responders to log, track, dispatch and assign calls for service.

Currently, various locally procured Computer Aided Dispatch (CAD) systems are being used on Army installations posing cybersecurity risks and are not in compliance with Army Regulation (AR) 70-1, Army Acquisition Policy, as some systems are not accredited and are vulnerable to cyber threats. CAD systems on Army installations do not fully integrate with Enhanced 911 and other emergency services like Land Mobile Radio. Many do not have the capability to digitally communicate reports of incidents, location, situational information, and background information by interfacing with authoritative informational data sources and providing enterprise level situational awareness/information sharing to assist military and civilian law enforcement, fire and medical. This causes delays in dispatch and response times, increased risk to property and personnel, and resource management constraints. The desired CAD capability will provide secure and reliable digital communications to assist military and civilian emergency personnel with emergency management operations. A standardized CAD system procured and implemented on an enterprise level will reduce the loss of life and property, increase situational awareness and improve reporting and analysis of incidents. CAD systems reduce the loss of life and property by automating incident creation and minimizing dispatch and response times as identified in the Fort Hood Army Internal Review. The system also improves situational awareness by sharing information from authoritative data sources (i.e. communications systems, law enforcement databases, etc.) with military and civilian first responders. Additionally, CAD allows for real time asset management, tracking the location and status of individual assets (personnel and equipment) which provides a superior real time common operating picture throughout the entire incident lifecycle. This data can be used during or after the incident, providing forensics of key performance indicators. Furthermore this data improves future manpower modeling based on calls for service tracked within the CAD system. The monetary return on investment is based on a scalable solution that takes into consideration the size and scope of the installation mission set, this will provide a cost effective strategy.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9666BU8000 / Emergency Management Modernization Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.286	4.490	4.736	-	4.736	4.854	4.905	4.939	4.940
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.286	4.490	4.736	-	4.736	4.854	4.905	4.939	4.940

Justification:

FY 2019 Base procurement funding in the amount of \$4.736 million supports Computer Aided Dispatch (CAD) capability fielding. The CAD capability leverages a System of System approach that integrates e911 and other emergency services. Funding will also procure the Hardware/Software required to provide secure and reliable digital communications to assist military and civilian emergency personnel with emergency management operations.

CAD capabilities are currently employed in a fragmented operational, training and sustainment environment and are managed at the individual installation level. CONUS and Outside the Continental US (OCONUS) installations have historically procured non-standard equipment with closed architecture and proprietary software. In accordance with AR 70-1, the CAD capability must use a System of Systems approach that leverages aspects of the Chief Information Officer (CIO)/G-6, Assistant Secretary of the Army for Acquisition, Logistics and Technology (ASA (ALT)), Common Operating Environment (COE) Architecture and the DOD IT Strategy Roadmap. This will allow for a standardized, scalable and common technical solution across diverse Installation sizes with the ability to integrate and interoperate with emergency response capabilities.

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9674B33000 / Home Station Mission Command Centers
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	20.050	24.479	-	24.479	24.814	7.902	11.895	11.897	-	101.037
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	20.050	24.479	-	24.479	24.814	7.902	11.895	11.897	-	101.037
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	20.050	24.479	-	24.479	24.814	7.902	11.895	11.897	-	101.037

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	1,670.833	4,079.833	-	4,079.833	4,135.667	3,951.000	3,965.000	3,965.667	-	3,157.406

Description:

This budget line is a continuation of Home Station Mission Command Centers efforts originally resourced in MACOM Automation Systems, BE4162.

Home Station Mission Command Centers (HSMCC) is a suite of standardized capabilities utilized at Corps, Division and Theater Headquarters that allows expeditionary mission command during all operational phases. The HSMCC nests within the mission command network vision. It consists of three phases: Tech Refresh, a Capability Bridging Strategy, and Requirements-Based Capabilities that enables expeditionary, uninterrupted mission command through a network comprised of intuitive, secured, standards-based capabilities adapted to Commander's requirements that is integrated into a common operating environment. HSMCC provides the physical infrastructure (5 rooms + 1 SCIF) that support Distributive Mission Command. HSMCC will enable units to execute a variety of required missions, such as Defense Support to Civil Authorities, Training and Readiness, Preparing and Deploying regionally aligned forces from Home Station, and Senior Commander Functions. Advances in network capability, telepresence tools and remote collaboration provide the technical foundation for the HSMCCs reach-forward and reach-back capabilities. HSMCC provides control and enables the mission command warfighting function by providing a secure, integrated, standards-based environment that ensures uninterrupted global access and enables collaboration and decisive action throughout all operational phases across all environments.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	20.050	19.479	-	19.479	14.814	7.902	11.895	11.897
ANG	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	5.000	-	5.000	10.000	-	-	-
Total: Secondary Distribution	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	20.050	24.479	-	24.479	24.814	7.902	11.895	11.897

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9674B33000 / Home Station Mission Command Centers
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B33011 / Home Station Mission Command Centers	P-5a			- / -	- / -	- / 20.050	- / 24.479	- / -	- / 24.479
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / 20.050	- / 24.479	- / -	- / 24.479

*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 2019 base procurement dollars in the amount of \$24.479 million procures the CONUS/OCONUS streamlined installation of the HSMCC capabilities at sites prioritized by FORSCOM. Currently, 6 sites have been identified for FY19 for engineering/implementation of HSMCC. Funding also procures site preparation that includes site surveys, site assessment reports, systems requirement documents, and engineering implementation plans. Hardware IT equipment to be procured includes: Operator & PC connections, HD cameras, Network Switches, coder-decoder (CODEC), projectors, HDTV tuners, monitors, microphones, speakers, control panels, communication hardware racks, interconnect video feeds, laptop interfaces, and sound masking systems. FY19 also funds associated program management costs.

The Army requirement is to field 26 HSMCC sites. Originally the Army wanted to accelerate the fielding schedule in FY18 with a quantity of 12 sites. Due to adjustment in Army Priorities and funding in FY18, the quantity was reduced from 12 to 5 sites with the remaining sites prioritized in the out-years to still field the required 26 sites."

FY18 to FY19 funding increase is based on number of sites increasing from 5 (FY18) to 6 (FY19) and the per site cost based on initial sites surveys is estimated at \$4.2M - \$5M per site. Hardware and System Engineering cost growth is based on the initial site surveys for the 6 sites planned for FY19.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73		P-1 Line Item Number / Title: 9674B33000 / Home Station Mission Command Centers
		Item Number / Title [DODIC]: B33011 / Home Station Mission Command Centers

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	20.050	24.479	-	24.479
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	20.050	24.479	-	24.479
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	20.050	24.479	-	24.479

(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)	-	-	1,670.833	4,079.833	-	4,079.833

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
HSMCC Hardware ^(†)	-	-	-	-	-	-	1,733.333	6	10.400	2,097.500	6	12.585	-	-	-	2,097.500	6	12.585
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	10.400	-	-	12.585	-	-	-	-	-	12.585
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	10.400	-	-	12.585	-	-	-	-	-	12.585
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	1.250	-	-	1.486	-	-	-	-	-	1.486
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	1.250	-	-	1.486	-	-	-	-	-	1.486
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	8.400	-	-	10.408	-	-	-	-	-	10.408
<i>Subtotal: Support - System Engineering Cost</i>	-	-	-	-	-	-	-	-	8.400	-	-	10.408	-	-	-	-	-	10.408
Gross/Weapon System Cost	-	-	-	-	-	-	1,670.833	-	20.050	4,079.833	-	24.479	-	-	-	4,079.833	-	24.479

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	20.050	19.479	-	19.479
ANG	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9674B33000 / Home Station Mission Command Centers	Item Number / Title [DODIC]: B33011 / Home Station Mission Command Centers

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
	Total Obligation Authority	-	-	5.000	-	5.000
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	20.050	24.479	-	24.479

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9674B33000 / Home Station Mission Command Centers				Item Number / Title [DODIC]: B33011 / Home Station Mission Command Centers				

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
HSMCC Hardware		2018	TBD / TBD	C / FFP	CHESS	Jan 2018	Feb 2018	6	1,733.330			
HSMCC Hardware		2019	TBD / TBD	C / FFP	CHESS	Nov 2019	Dec 2019	6	2,097.500	N		

Remarks:

These items are being procured as Commercial-off-the Shelf (COTS).

Hardware and System Engineering cost growth is based on the initial site surveys for the 6 sites planned for FY19.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,671.516	147.304	188.751	216.433	60.337	276.770	200.200	205.410	208.509	277.146	-	5,175.606
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,671.516	147.304	188.751	216.433	60.337	276.770	200.200	205.410	208.509	277.146	-	5,175.606
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,671.516	147.304	188.751	216.433	60.337	276.770	200.200	205.410	208.509	277.146	-	5,175.606

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 Information Technology (IT) procurements consist of Commercial-off-the-Shelf (COTS) and/or Government-off-the-Shelf (GOTS) 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. Implementation of network modernization delivers modern communications Internet Protocol (IP) transport and data capabilities, optimizes existing and future capabilities, and divests legacy systems and capabilities that are no longer required or sustainable. 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/unclassified routing and switching components network paths (outside plant fiber, cables and wires connecting users and switching systems to one another), power, and Heating Ventilating and Air Conditioning (HVAC) needed to support network equipment once installed. I3MP is the very foundation of the Army and DoD Enterprise information technology modernization strategy to evolve to 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), the Joint Information Environment (JIE), and eliminates the need and costs to manage/maintain three separate voice, data and video networks. I3MP engineers design and field standardized, converged, UC-ready, secure Installation Campus Area Network (ICAN) infrastructure using Commercial-off-the-Shelf solutions. This infrastructure gives tactical and strategic end-users connectivity across the installation and the wide-area DOD Information Network (DODIN). The I3MP modernization enables soldiers to operate their tactical warfighting systems in garrison and to maintain proficiency instead of relying on costly satellite usage. 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 (YRP/LPP) and to reduce the U.S. forces footprint at Camp Humphreys. I3MP resources the communications network backbone infrastructure for joint communications on the Korean peninsula with phased replacement of the obsolete Asynchronous Transfer Mode (ATM) and Synchronous Optical Networking (SONET) infrastructure (52 ATM nodes circa 1997/28 SONET nodes circa 1999) which provide data, voice, and video communications. I3MP support also includes providing communications capabilities to the European Reassurance Initiative (ERI) Army Prepositioned Stock (APS), Enduring European Equipment Set (E3S) Sites, Pacific Command, Control, Computers, Communications (C4) infrastructure capabilities in Korea, and supports our forward stationed Terminal High Altitude Aerial Defense (THAAD) requirements in Korea.

Global Transport Engineering Support (GTES) conducts surveys and performs engineering to facilitate circuit migration, optimization, and divestiture while increasing security and reducing the Army's total cost of ownership.

NETWORK MODERNIZATION (NETMOD)-KUWAIT: Lifecycle replacement of network switches at multiple locations in Kuwait to maintain reliable and secure network services.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>NETMOD-CAMP BUEHRING, KUWAIT: Lifecycle replacement of network switches at Camp Buehring to maintain reliable and secure network services.</p> <p>NETMOD- AFGHANISTAN: Continued efforts for Operation Freedom Sentinel (OFS) require an upgrade of the theater's physical network architecture and communications. The Tier II network equipment provides essential C4 functions affecting US Forces-Afghanistan operations at Bagram and throughout Afghanistan. Modernization is required to prevent unplanned service outages, loss of software/hardware support by vendors, and to decrease the risk of cyber vulnerabilities exploited by adversaries.</p> <p>US FORCES-AFGHANISTAN BAGRAM AIRFIELD OUTSIDE PLANT (OSP)/INSIDE PLAN (ISP) REMEDIATION: Continued efforts for Operation Freedom Sentinel (OFS) require remediation of fiber cabling on Bagram Airfield, as well as remediation of cabling inside the individual buildings. More than a decade of combat operations have degraded the outside plant and inside plant cabling infrastructure causing high latency and significant transmission issues throughout the base. Bagram Airfield is a key communications hub that requires seamless lines of communications for both C2 operations and intelligence gathering.</p> <p>COMBINED JOINT TASK FORCE-OPERATION INHERENT RESOLVE (CJTF-OIR) OSP/ISP REMEDIATION-AL ASAD AIR BASE, IRAQ: As CTJF-OIR continues to expand its Build Partner Capacity (BPC) sites, it must extend OSD/ISP network fiber connectivity to these locations. Without remediation, units at the BPC sites will continue to rely on low-bandwidth tactical communications equipment for C2 functions, limiting the battlefield situational awareness of CJOA warfighters. The current fiber network infrastructure cannot support any additional influx of troops or high-bandwidth systems, including real-time full-motion video capture feeds for intelligence requirements.</p> <p>BU0510: ATLANTIC RESOLVE (AR) NETWORK: The AR network provides coalition mission support, Command and Control (C2), Intelligence, and collaboration capabilities to the US and Allied Partner Nations participating in AR activities. It supports the European Deterrence Initiative (EDI) and enables local and distributed training across the European Command (EUCOM) Area of Responsibility (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. These interoperability efforts improve mission partner environment capabilities with USAREUR and Joint Multinational Exercises.</p> <p>BU3610: The World Wide Technical Control Improvement Program (WWTCIP) is a continuing program to initiate, improve, expand and automate the Army's Technical Control Facilities (TCFs) with a more efficient capability to monitor communications networks and perform the restoral activities required to enable critical warfighting and sustainment capabilities. These upgrades provide the end user with greater bandwidth for high quality voice, data, video, enabling real time response and restoral actions to minimize communications outages. This program provides configuration management and implements Information Assurance (IA) controls for the modernized TCFs. The program is essential to support Outside the Continental United States (OCONUS) Theater Combatant Commander's communications, Continental United States (CONUS) power projection bases, and Defense Satellite Communications Systems. WWTCIP provides the means for technical control personnel to gain full use of the supporting communication resources available through the expansion and automation of the Army's TCF worldwide. The program provides power, timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interface, and appropriate test equipment with associated hardware in support of the Soldier, to enable information dominance and ensure robust communications worldwide.</p> <p>MOBILE TECHNICAL CONTROL FACILITIES: Continuing operations in Afghanistan and Iraq require stable, reliable, and low latent communications to support USFOR-A Operations Freedom Sentinel and CJTS-OIR operations. Deteriorating conditions of end-of-life network equipment and structural shelters in these locations have caused the existing TCFs to continuously fail and disrupt ongoing military operations. Loss of strategic communications will risk the lives of troops currently serving in Advise and Assist roles in Afghanistan and Iraq.</p> <p>TCF TECHNICAL REFRESH: Lifecycle replacement of TCF equipment at multiple locations in Iraq, Jordan, and United Arab Emirates to maintain reliable and secure network services.</p> <p>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</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	147.304	188.751	216.433	60.337	276.770	200.200	205.410	208.509	277.146
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	147.304	188.751	216.433	60.337	276.770	200.200	205.410	208.509	277.146

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title:
 9700BU0500 / Installation Info Infrastructure Mod Program

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	BU0510 / I3MP - Europe				- / 869.385	- / 4.752	- / -	- / -	- / -	- / -
P-5	BU0530 / I3MP - CONUS	P-5a			- / 1,788.397	- / 138.074	- / 178.159	- / 209.252	- / 39.672	- / 248.924
P-5	BU2000 / TERRESTRIAL TRANSMISSION	P-5a			- / 72.236	- / 1.557	- / 1.592	- / 1.651	- / -	- / 1.651
P-5	BU3610 / WW Tech Con Imp Prog (WWTCIP)	P-5a			- / 941.498	- / 2.921	- / 9.000	- / 5.530	- / 20.665	- / 26.195
P-40	Total Gross/Weapon System Cost				- / 3,671.516	- / 147.304	- / 188.751	- / 216.433	- / 60.337	- / 276.770

*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 2019 Base procurement dollars in the amount of \$209.252 million supports the end-to-end dependencies needed to deliver CONUS/OCONUS network modernization to Army posts, camps and stations (P/C/S). These procurements include: surveys of Army posts, camps and stations (P/C/S); the engineering and design necessary to modernize and optimize Army (P/C/S); the IP transport and data hardware; the installation and implementation of the engineered hardware solutions; and the divestiture of legacy communications network components. Equipment procurements include, but are not limited to, high speed Information Campus Area Network (ICAN) level switching devices, high capacity routers, and optical fiber. Funds also support communications infrastructure capabilities for European Deterrent Initiative (EDI) Army Prepositioned Stock (APS) and Enduring European Equipment Set (E3S) sites; forward-stationed Terminal High Altitude Aerial Defense (THAAD) requirements in Korea; modernization of all installations in Korea, and program management costs. The modernization and convergence of voice, data and video networks to a high capacity communications infrastructure enables the Army to deliver mandated Unified Capabilities (UC) and reduces operation and management costs for the enterprise.

FY 2019 OCO procurement dollars in the amount of \$9.050 million procures AR Network infrastructure equipment in order to meet short and midterm goals associated with interoperability of training systems and the European Mission Partner Environment. Hardware includes routers and switches for the mission enclave and IT infrastructure for six new European Enduring Equipment Sets (E3S)/Army Prepositioned Stock (APS) sites and Poland.

FY 2019 OCO procurement dollars in the amount of \$3.497 million supports NETMOD requirements in Kuwait with High Speed Network Switches and engineering/implementation.

FY 2019 OCO procurement dollars in the amount of \$0.570 million supports NETMOD requirements at Camp Buehring, Kuwait, with High Speed Network Switches and engineering/implementation.

FY 2019 OCO procurement dollars in the amount of \$12.300 million supports NETMOD requirements at Afghanistan, with Tier II network equipment, including Local Area Network (LAN) switching and routing equipment, backup power supplies, network servers, routers, and wired/wireless network service to end-user devices.

FY 2019 OCO procurement dollars in the amount of \$12.155 million supports USFOR-A Bagram Airfield OSP/ISP remediation of all fiber cabling.

FY 2019 OCO procurement dollars in the amount of \$2.100 million supports CJTF-OIR OSP/ISP remediation at Al Asad Air Base, Iraq, with fiber cabling, handholes, manholes, OSP conduit, ISP raceway, protected distribution system (PDS) lockboxes, and enclosures/boxes for electrical equipment.

BU3610:

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications		P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2019 Base procurement dollars in the amount of \$5.530 million procures the technical engineering service support that facilitates design reviews for the full technical upgrades of TCFs; the power (alternating current and direct current (AC/DC), uninterruptible power supply (UPS) and backup generator), timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interfaces, and appropriate test equipment with associated hardware. The emerging requirements for base consolidation in both the Pacific and European Theaters require robust TCF capability.</p> <p>FY 2019 OCO procurement dollars in the amount of \$16.100 million procures technical refresh for medium and mini Technical Control Facilities located in Southwest Asia (SWA Afghanistan and Iraq). The technical refresh includes the procurement of Inside Plant Communications Cables, equipment racks, electrical power distribution cables, Uninterrupted Power Source (UPS) and electrical power distribution generators. The technical refresh supports up to 5,000 users that are deployed at Forward Operating Bases in SWA.</p> <p>FY 2019 OCO procurement dollars in the amount of \$4.565 million procures technical refresh of Mobile Technical Control Facility components, appliances, and devices at multiple locations in Iraq, Jordan, and United Arab Emirates.</p> <p>BU2000: FY 2019 Base procurement dollars in the amount of \$1.651 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).</p> <p>Funding increased between FY18 and FY19 in direct support of the SECARMY's second priority modernization. It allows the program accelerate building greater capacity and capabilities in the longer term ensuring modernized Army network infrastructures at posts, camps, and stations worldwide.</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> <p>All funding goes to the Active Component.</p>		

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0510 / I3MP - Europe
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	869.385	4.752	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	869.385	4.752	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	869.385	4.752	-	-	-	-

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	4,752.000	1	4.752	-	-	-	-	-	-	-	-	-	-	-	-
Shelterized Tech Comm Facilities	11,500.000	2	23.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3MP SWA	832,385.000	1	832.385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Protocol Packet Label Switching SW Asia	7,000.000	2	14.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	869.385	-	-	4.752	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	869.385	-	-	4.752	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	869.385	-	-	4.752	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.752	-	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.752	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,788.397	138.074	178.159	209.252	39.672	248.924
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,788.397	138.074	178.159	209.252	39.672	248.924
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,788.397	138.074	178.159	209.252	39.672	248.924

(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)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
NETMOD-C Hardware ^(†)	32,589.000	1	32,589	13,567.000	1	13,567	25,239.000	1	25,239	40,711.000	1	40,711	-	-	-	40,711.000	1	40,711
YRP/LPP ^(†)	15,447.000	1	15,447	6,200.000	1	6,200	43,448.000	1	43,448	40,698.000	1	40,698	-	-	-	40,698.000	1	40,698
IT Modernization (Hardware/ Implementation) ^(†)	213,884.000	1	213,884	14,324.000	1	14,324	-	-	29,089	37,809.000	1	37,809	-	-	-	37,809.000	1	37,809
Implementation/ Engineering ^(†)	1,492,473.000	1	1,492,473	10,793.000	1	10,793	-	-	33,883	48,634.000	1	48,634	-	-	-	48,634.000	1	48,634
THAAD Infrastructure ^(†)	-	-	-	-	-	-	14,000.000	1	14,000	10,500.000	1	10,500	-	-	-	10,500.000	1	10,500
NETMOD-Europe	479.000	1	0,479	5,819.000	1	5,819	-	-	-	-	-	-	-	-	-	-	-	-
ATM SONET	-	-	-	24,446.000	1	24,446	-	-	-	-	-	-	-	-	-	-	-	-
Circuit Optimization	-	-	-	1,897.000	1	1,897	-	-	-	-	-	-	-	-	-	-	-	-
NETMOD-Pacific	-	-	-	17,664.000	1	17,664	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1,754.872	-	-	94.710	-	-	145.659	-	-	178.352	-	-	-	-	-	178.352
Non Recurring Cost																		
OAR NETWORK	-	-	-	-	-	-	-	-	2,500	-	-	-	-	-	-	-	-	-
NETMOD Afghanistan ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	12,300.000	1	12,300	12,300.000	1	12,300
USFOR-A OSP/ISP Remediation ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	12,155.000	1	12,155	12,155.000	1	12,155

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73		P-1 Line Item Number / Title: 9700BU0500 / 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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
CJTF-OIR OSP/ISP Remediation ^(†)	-	-	-	4,000.000	1	4.000	-	-	-	-	-	-	2,100.000	1	2.100	2,100.000	1	2.100
NETMOD Kuwait ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	3,497.000	1	3.497	3,497.000	1	3.497
NETMOD Buehring ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	570.000	1	0.570	570.000	1	0.570
Cyber JUONS ST-007	-	-	-	11,741.000	1	11.741	-	-	-	-	-	-	-	-	-	-	-	-
JRSS Hardware/ Implementation	8,900.000	1	8.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATLANTIC RESOLVE (AR) NETWORK ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	9,050.000	1	9.050	9,050.000	1	9.050
<i>Subtotal: Non Recurring Cost</i>	-	-	8.900	-	-	15.741	-	-	2.500	-	-	0.000	-	-	39.672	-	-	39.672
<i>Subtotal: Hardware Cost</i>	-	-	1,763.772	-	-	110.451	-	-	148.159	-	-	178.352	-	-	39.672	-	-	218.024
Support - Program Management Cost																		
Government Management	24,625.000	1	24.625	27,623.000	1	27.623	-	-	30.000	-	-	30.900	-	-	-	-	-	30.900
<i>Subtotal: Support - Program Management Cost</i>	-	-	24.625	-	-	27.623	-	-	30.000	-	-	30.900	-	-	-	-	-	30.900
Gross/Weapon System Cost	-	-	1,788.397	-	-	138.074	-	-	178.159	-	-	209.252	-	-	39.672	-	-	248.924

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	138.074	178.159	209.252	39.672	248.924
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	138.074	178.159	209.252	39.672	248.924

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU0530 / I3MP - CONUS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
NETMOD-C Hardware		2017	Iron Bow / Chantilly, VA	C / FFP	ACC-RI, Rock Island, IL	Oct 2016	Nov 2016	1	13,567.000	Y		
NETMOD-C Hardware		2018	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2018	Feb 2018	1	25,239.000			
NETMOD-C Hardware		2019	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Jan 2019	Feb 2019	1	40,711.000			
YRP/LPP		2017	LGS Innovations / McLeansville, NC	C / CPFF	ACC-RI, Rock Island, IL	Jul 2017	Aug 2017	1	6,200.000	Y		
YRP/LPP		2018	TBD / TBD	C / CPFF	ACC-RI, Rock Island, IL	Mar 2018	Apr 2018	1	43,448.000			
YRP/LPP		2019	TBD / TBD	C / CPFF	ACC-RI, Rock Island, IL	Feb 2019	Mar 2019	1	40,698.000			
IT Modernization (Hardware/ Implementation)		2017	Various / Various	C / Various	ACC-RI, Rock Island, IL	Dec 2016	Jan 2017	1	14,324.000	Y		
IT Modernization (Hardware/ Implementation)		2018	Various / Various	C / Various	ACC-RI, Rock Island, IL	Dec 2017	Jan 2018	0	0.000			
IT Modernization (Hardware/ Implementation)		2019	Various / Various	C / Various	ACC-RI, Rock Island, IL	Jan 2019	Feb 2019	1	37,809.000			
Implementation/Engineering		2017	Various / Various	C / Various	Various	Oct 2016	Nov 2016	1	10,793.000			
Implementation/Engineering		2018	Various / Various	C / Various	ACC-RI, Rock Island, IL	Jan 2018	Jan 2018	0	0.000			
Implementation/Engineering		2019	Various / Various	C / Various	ACC-RI, Rock Island, IL	Jan 2019	Feb 2019	1	48,634.000			
THAAD Infrastructure		2018	TBD / TBD	C / FFP	TBD	May 2018	Jun 2018	1	14,000.000			
THAAD Infrastructure		2019	TBD / TBD	C / FFP	TBD	May 2019	Jun 2019	1	10,500.000			
NETMOD Afghanistan	✓	2019	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Mar 2019	Apr 2019	1	12,300.000			
USFOR-A OSP/ISP Remediation	✓	2019	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	Apr 2019	May 2019	1	12,155.000			
CJTF-OIR OSP/ISP Remediation	✓	2019	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	May 2019	Jun 2019	1	2,100.000			
NETMOD Kuwait	✓	2019	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	May 2019	Jun 2019	1	3,497.000			
NETMOD Buehring	✓	2019	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	May 2019	Jun 2019	1	570.000	Y		
ATLANTIC RESOLVE (AR) NETWORK	✓	2019	TBD / TBD	C / FFP	ACC-RI, Rock Island, IL	May 2019	Jun 2019	1	9,050.000			

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU2000 / TERRESTRIAL TRANSMISSION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	72.236	1.557	1.592	1.651	-	1.651
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	72.236	1.557	1.592	1.651	-	1.651
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	72.236	1.557	1.592	1.651	-	1.651

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Furnish Bill of Material, Install, and Test ^(†)	72,236.000	1	72.236	1,557.000	1	1.557	1,592.000	1	1.592	1,651.000	1	1.651	-	-	-	1,651.000	1	1.651
<i>Subtotal: Recurring Cost</i>	-	-	72.236	-	-	1.557	-	-	1.592	-	-	1.651	-	-	-	-	-	1.651
<i>Subtotal: Hardware Cost</i>	-	-	72.236	-	-	1.557	-	-	1.592	-	-	1.651	-	-	-	-	-	1.651
Gross/Weapon System Cost	-	-	72.236	-	-	1.557	-	-	1.592	-	-	1.651	-	-	-	-	-	1.651

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	-	-	-	-	-
Total:	1.557	1.592	1.651	-	1.651
Secondary Distribution	-	-	-	-	-
Total Obligation Authority	1.557	1.592	1.651	-	1.651

^(†) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program				Item Number / Title [DODIC]: BU2000 / TERRESTRIAL TRANSMISSION				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Furnish Bill of Material, Install, and Test		2017	Unicom Government Inc / Dulles	MIPR	PEO EIS, CHESS	Mar 2017	May 2017	1	1,557.000	Y		
Furnish Bill of Material, Install, and Test		2018	Unicom Government Inc / Dulles	MIPR	PEO EIS, CHESS	Jan 2018	Mar 2018	1	1,592.000	Y		
Furnish Bill of Material, Install, and Test		2019	Unicom Government Inc / Dulles	MIPR	PEO EIS, CHESS	Jan 2019	Mar 2019	1	1,651.000	N		

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 2019 Army													Date: February 2018																																																																																																																																																																																																																																																																																												
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73						P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program						Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)																																																																																																																																																																																																																																																																																													
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:																																																																																																																																																																																																																																																																																																
Resource Summary				Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total																																																																																																																																																																																																																																																																																											
Procurement Quantity (Units in Each)				-		-		-		-		-		-																																																																																																																																																																																																																																																																																											
Gross/Weapon System Cost (\$ in Millions)				941.498		2.921		9.000		5.530		20.665		26.195																																																																																																																																																																																																																																																																																											
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-																																																																																																																																																																																																																																																																																											
Net Procurement (P-1) (\$ in Millions)				941.498		2.921		9.000		5.530		20.665		26.195																																																																																																																																																																																																																																																																																											
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-																																																																																																																																																																																																																																																																																											
Total Obligation Authority (\$ in Millions)				941.498		2.921		9.000		5.530		20.665		26.195																																																																																																																																																																																																																																																																																											
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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.																																																																																																																																																																																																																																																																																																									
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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73	P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program	Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.921	9.000	5.530	20.665	26.195
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.921	9.000	5.530	20.665	26.195

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73			P-1 Line Item Number / Title: 9700BU0500 / Installation Info Infrastructure Mod Program					Item Number / Title [DODIC]: BU3610 / WW Tech Con Imp Prog (WWTCIP)				
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
Program Management Administration		2017	PM DCATS / Ft. Belvoir, VA	Various	PM DCATS, Fort Belvoir, VA	Oct 2016	Nov 2016	1	1,601.000			
Program Management Administration		2018	PM DCATS / Ft. Belvoir, VA	Various	PM DCATS, Fort Belvoir, VA	Oct 2017	Nov 2017	1	4,200.000			
Program Management Administration		2019	PD DWTS / Fort Belvoir	Various	PM DCATS, Fort Belvoir	Oct 2017	Nov 2017	1	2,707.000			
Engineer, Install & Test		2017	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Ft. Belvoir, VA	Oct 2016	Dec 2016	1	1,320.000			
Engineer, Install & Test		2018	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2017	Dec 2017	1	2,468.000			
Engineer, Install & Test		2019	ISEC / Fort Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Oct 2018	Dec 2018	1	2,823.000			
Technical Control Facility		2018	PM DCATS / Ft. Belvoir, VA	MIPR	PM DCATS, Fort Belvoir, VA	Jul 2018	Sep 2018	1	2,332.000	N		
Technical Control Facility	✓	2019	PM DCATS / Ft. Belvoir, VA	TBD	PM DCATS, Fort Belvoir, VA	Dec 2018	Jan 2019	1	16,100.000	N		
Mobile Technical Control Facility Refresh	✓	2019	PM DCATS / Ft. Belvoir, VA	TBD	PM DCATS, Fort Belvoir, VA	Jan 2019	Mar 2019	1	4,565.000	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.

FY19 OCO Funding in the amount of \$16.1M supports the Mobile Technical Control Facility (TCF) to address the Bagram Outside Plant/Inside Plant (OSP/ISP) to maintain strategic communications capability to support the Combined Joint Task Force - Operation Inherent Resolve (CJTF-OIR) and U.S. Forces?Afghanistan (USFOR?A) Operation Freedom's Sentinel (OFS) operations. This requirement will procure 2x mobile TCFs that are transported in standard shipping containers and include all services required to maintain strategic communications capability to support CJTF-OIR and USFOR-A OFS operations.

Requirement changed PEG from UU to TT and will be executed by PEO EIS, PdM P2E during the FY19 President Budget cycle. Contract in place 1st Quarter FY18.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9522V29600 / JTT/CIBS-M (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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	315.889	5.337	12.154	10.268	-	10.268	7.714	5.338	5.511	1.837	-	364.048
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	315.889	5.337	12.154	10.268	-	10.268	7.714	5.338	5.511	1.837	-	364.048
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	315.889	5.337	12.154	10.268	-	10.268	7.714	5.338	5.511	1.837	-	364.048

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 Special Operations Command (SOCOM). The IBS is the worldwide Department of Defense (DoD) standard network enterprise for transmitting time-sensitive tactical intelligence and targeting data to all echelons of Joint Service operational Users. The JPO's role is to coordinate modernization and sustainment of IBS terminals compatible with the Ultra High Frequency Satellite Communications (UHF SATCOM) IBS broadcasts. The transmit/receive-capable Joint Tactical Terminal (JTT) systems 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 JTT configuration management, procurement of parts, JTT component obsolescence redesign/engineering, JTT sustainment coordination, JTT organic hardware depot establishment and JTT fielding support.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.337	12.154	10.268	-	10.268	7.714	5.338	5.511	1.837
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.337	12.154	10.268	-	10.268	7.714	5.338	5.511	1.837

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9522V29600 / JTT/CIBS-M (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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	V29600 / JTT/CIBS-M (MIP)				- / 315.889	- / 5.337	- / 12.154	- / 10.268	- / -	- / 10.268
P-40	Total Gross/Weapon System Cost				- / 315.889	- / 5.337	- / 12.154	- / 10.268	- / -	- / 10.268

*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 2019 Base procurement dollars in the amount of \$10.268 million funds support the continuation of JTT organic hardware depot capabilities, continued component obsolescence and integration engineering, procurement of Next Generation initial hardware, configuration management, sustainment, training, and fielding support.

The approved Army Acquisition Objective is 994.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is also 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9522V29600 / JTT/CIBS-M (MIP)	Item Number / Title [DODIC]: V29600 / JTT/CIBS-M (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	315.889	5.337	12.154	10.268	-	10.268
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	315.889	5.337	12.154	10.268	-	10.268
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	315.889	5.337	12.154	10.268	-	10.268

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
JTT Low Rate Production Units	-	-	-	-	-	-	-	-	-	625.000	8	5.000	-	-	-	625.000	8	5.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	5.000	-	-	-	-	-	5.000
Non Recurring Cost																		
JTT Component integration/engineering	-	-	150.400	-	-	3.942	-	-	1.720	-	-	2.000	-	-	-	-	-	2.000
JTT Organic Hardware Depot Start up	-	-	-	-	-	-	-	-	8.950	-	-	1.000	-	-	-	-	-	1.000
IBS Spare Parts Support	-	-	150.400	59.000	11	0.649	24.167	24	0.580	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	300.800	-	-	4.591	-	-	11.250	-	-	3.000	-	-	-	-	-	3.000
<i>Subtotal: Hardware Cost</i>	-	-	300.800	-	-	4.591	-	-	11.250	-	-	8.000	-	-	-	-	-	8.000
Support - Program Management Cost																		
Government Management	-	-	15.089	-	-	0.746	-	-	0.904	-	-	2.268	-	-	-	-	-	2.268
<i>Subtotal: Support - Program Management Cost</i>	-	-	15.089	-	-	0.746	-	-	0.904	-	-	2.268	-	-	-	-	-	2.268
Gross/Weapon System Cost	-	-	315.889	-	-	5.337	-	-	12.154	-	-	10.268	-	-	-	-	-	10.268

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9522V29600 / JTT/CIBS-M (MIP)	Item Number / Title [DODIC]: V29600 / JTT/CIBS-M (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	5.337	12.154	10.268	-	10.268
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	5.337	12.154	10.268	-	10.268

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9654BU4050 / DRUG INTERDICTION PROGRAM (DIP) (TIARA)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	566.347	35.972	-	-	-	-	-	-	-	-	-	602.319
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	566.347	35.972	-	-	-	-	-	-	-	-	-	602.319
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	566.347	35.972	-	-	-	-	-	-	-	-	-	602.319

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

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

Description:

CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	35.972	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	35.972	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A (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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	5,795	2,288	3,401	2,077	679	2,756	1,645	225	-	-	-	16,110
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,450.100	273.246	314.297	261.863	37.806	299.669	229.346	40.962	-	-	-	3,607.620
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,450.100	273.246	314.297	261.863	37.806	299.669	229.346	40.962	-	-	-	3,607.620
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,450.100	273.246	314.297	261.863	37.806	299.669	229.346	40.962	-	-	-	3,607.620

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	422.796	119.426	92.413	126.078	55.679	108.733	139.420	182.053	-	-	-	223.937

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, Mobile, and Portable configurations emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. As newer versions of the baseline software are tested and released, a continuing series of software releases will be integrated into Army common/commodity hardware and fielded to units in accordance with (IAW) the Army Force Modernization Strategy and the Army Resourcing Priority List (ARPL).

DCGS-A is designated as a Program of Record (PoR) within the Command Post Computing Environment (CP CE) of the Common Operating Environment (COE). DCGS-A provides the Single and Shareable Geospatial Foundation (SSGF) Cross Cutting Capability (CCC), and is defining the DCGS-A architecture to fit within the COE as described by the Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA(ALT)) COE Implementation Plan. This is in accordance with the G-3/5/7 priority to align all Army networks, procurements and enhancements under one COE and one vision leveraging intelligence community investments. PM DCGSA continues to work with PM Mission Command (PM MC) to converge on CP CE Tactical Server Infrastructure (TSI).

DCGS-A hardware and software is based on a combination of Government Off The Shelf (GOTS), Commercial Off The Shelf (COTS), and Non-Developmental Items (NDI) that are integrated into scalable configurations, tailored to Warfighting functions. These product line components include the software baseline, server suite [Intelligence Fusion Server (IFS)] and individual analyst Multi-Function Workstations (MFWS), such as Portable and Fixed MFWS (P-MFWS/F-MFWS) and the Geospatial Intelligence (GEOINT) Workstation. These components are also used to upgrade existing fielded Intel Programs of Record to enable the establishment of the Army COE while simultaneously assuring system compatibility and interoperability within the DCGS-A enterprise.

DCGS-A was formally designated as a Major Automation Information System (MAIS), and is deployed on multiple hardware platforms and security levels across the Army. The DCGS-A Increment 1 Full Deployment Decision (FDD) Acquisition Decision Memorandum (ADM) dated 14 November 2012, authorizes continued deployment of Release 1 capabilities. The DCGS-A Increment 1 Release 2 Fielding Acquisition Decision Memorandum (ADM) was approved by the Army Acquisition Executive (AAE) on 4 November 2015 after a successful Follow-On Test and Evaluation (FOT&E) event in May 2015.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)		P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A (MIP)
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305208A
Line Item MDAP/MAIS Code: N/A		
DCGS-A ISR capabilities are deployed at all echelons across the Army. DCGS-A consolidates and modernizes the Army ISR PED capabilities from 14 legacy Program of Record (POR) systems and significantly reduces their sustainment burdens.		

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	1,587	2,692	1,327	679	2,006	1,645	225	-	-
	Total Obligation Authority	218.870	259.112	194.998	37.806	232.804	229.346	40.962	-	-
ANG	Quantity	573	581	622	-	622	-	-	-	-
	Total Obligation Authority	49.711	50.520	62.200	-	62.200	-	-	-	-
AR	Quantity	128	128	128	-	128	-	-	-	-
	Total Obligation Authority	4.665	4.665	4.665	-	4.665	-	-	-	-
Total: Secondary Distribution	Quantity	2,288	3,401	2,077	679	2,756	1,645	225	-	-
	Total Obligation Authority	273.246	314.297	261.863	37.806	299.669	229.346	40.962	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:**
 9690BZ7316 / DCGS-A (MIP)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305208A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ7316 / DCGS-A (MIP)	P-5a			5,795 / 2,450.100	2,288 / 273.246	3,401 / 314.297	2,077 / 261.863	679 / 37.806	2,756 / 299.669
P-40	Total Gross/Weapon System Cost				5,795 / 2,450.100	2,288 / 273.246	3,401 / 314.297	2,077 / 261.863	679 / 37.806	2,756 / 299.669

*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 2019 Base funding in the amount of \$261.863 million will update and procure components for the DCGS-A Fixed Sites and Army, Reserve, and National Guard units, providing fixed and portable system configurations IAW the Army's Equipping Strategy. The DCGS-A updates will continue to enhance the Army ISR PED capabilities to meet new threats or emerging capability needs. Funding supports the ARPL by equipping and training the force as well as deploying units with the current DCGS-A software release. Fielding of the Release 2 includes High Side capability at the Brigade level. To meet the ARPL fielding schedule, the PM has ramped up to 5 training teams which will support the accelerated fielding of Release 2 software and continued, iterative Capability Drops. Funding also procures new COTS software licenses to enhance performance of fielded systems, as well as support integration of Intelligence Community investments. DCGS-A supports the Army's Geospatial Transformation by providing an integrated visualization capability for intelligence, terrain, and weather effects in a net centric environment. Funding will also support continued alignment with Army COE objectives.

FY 2019 OCO funding in the amount of \$37.806 million will be used to provide support for new equipment training, fielding, and modernized Release 2 software capabilities to theater 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.

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.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A (MIP)	Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	5,795	2,288	3,401	2,077	679	2,756
Gross/Weapon System Cost (\$ in Millions)	2,450.100	273.246	314.297	261.863	37.806	299.669
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,450.100	273.246	314.297	261.863	37.806	299.669
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,450.100	273.246	314.297	261.863	37.806	299.669

(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)	422.796	119.426	92.413	126.078	55.679	108.733

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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) ^(†)	-	-	877.397	-	-	-	2,277.000	8	18.216	2,277.000	3	6.831	-	-	-	2,277.000	3	6.831
ISR Process Ctr - V1 (IPC V1/DE ACE) ^(†)	3,207.000	3	9.621	-	-	-	2,000.000	3	6.000	2,000.000	2	4.000	-	-	-	2,000.000	2	4.000
Oper ISR Grnd Station (OGS/SIPC)	-	-	34.928	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OGS Refresh/Repair ^(†)	-	-	-	-	-	-	2,200.000	1	2.200	2,200.000	3	6.600	-	-	-	2,200.000	3	6.600
ISR Process Ctr V2 (IPC V2/DE ACT-E) ^(†)	-	-	32.720	1,685.000	22	37.070	1,200.000	20	24.000	1,200.000	21	25.200	-	-	-	1,200.000	21	25.200
Cross Domain Solution Suite (CDSS) ^(†)	-	-	-	50.000	67	3.350	135.000	51	6.885	-	-	-	-	-	-	-	-	-
GEOINT WS (GWS/DE DTSS-D) ^(†)	506.600	184	93.214	166.000	134	22.244	245.000	133	32.585	245.000	108	26.460	-	-	-	245.000	108	26.460
Intel Fusion Server (IFS) ^(†)	2,637.500	215	567.062	235.000	200	47.000	-	-	-	-	-	-	-	-	-	-	-	-
Intel Fusion Server (IFS) (TSI Config) ^(†)	-	-	-	-	-	-	196.000	238	46.648	196.000	146	28.616	-	-	-	196.000	146	28.616
Portable (P)Multi Function WorkSta. ^(†)	52.065	6,625	344.930	5.000	1,501	7.505	2.500	1,081	2.703	2.500	1,125	2.813	-	-	-	2.500	1,125	2.813

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80						P-1 Line Item Number / Title: 9690BZ7316 / 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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Fixed (F)-Multi Function WorkStations ^(†)	-	-	-	-	-	-	18.000	370	6.660	-	-	-	-	-	-	-	-	-
TPE H/W S/W Refresh	-	-	14.450	-	-	-	-	-	-	-	-	-	-	-	32.806	-	-	32.806
Fixed Site Refresh	-	-	-	-	-	2.500	-	-	5.400	-	-	5.400	-	-	-	-	-	5.400
Equipment Tech Refresh	-	-	-	-	-	72.754	-	-	58.834	-	-	23.585	-	-	-	-	-	23.585
Software Licenses for Int. on DCGS HW	-	-	143.761	-	-	13.467	-	-	33.224	-	-	24.144	-	-	-	-	-	24.144
Program Office Support	-	-	112.034	-	-	11.050	-	-	11.100	-	-	11.100	-	-	-	-	-	11.100
Software Integration on to DCGS HW	-	-	30.700	-	-	5.150	-	-	5.005	-	-	5.005	-	-	-	-	-	5.005
Fielding/Training	-	-	144.811	-	-	31.560	-	-	31.499	-	-	31.500	-	-	5.000	-	-	36.500
Technical Engineering Services	-	-	44.470	-	-	18.284	-	-	22.000	-	-	22.000	-	-	-	-	-	22.000
Data	-	-	-	-	-	1.312	-	-	1.338	-	-	1.364	-	-	-	-	-	1.364
Capability Drop Modifications Hardware	-	-	-	-	-	-	-	-	-	5.100	582	2.968	-	-	-	5.100	582	2.968
Capability Drop Modifications Software	-	-	-	-	-	-	-	-	-	-	-	34.277	-	-	-	-	-	34.277
<i>Subtotal: Recurring Cost</i>	-	-	2,450.100	-	-	273.246	-	-	314.297	-	-	261.863	-	-	37.806	-	-	299.669
<i>Subtotal: Flyaway Cost</i>	-	-	2,450.100	-	-	273.246	-	-	314.297	-	-	261.863	-	-	37.806	-	-	299.669
Gross/Weapon System Cost	422.796	5,795	2,450.100	119.426	2,288	273.246	92.413	3,401	314.297	126.078	2,077	261.863	55.679	679	37.806	108.733	2,756	299.669

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	1,587	2,692	1,327	679	2,006
	Total Obligation Authority	218.870	259.112	194.998	37.806	232.804
ANG	Quantity	573	581	622	-	622
	Total Obligation Authority	49.711	50.520	62.200	-	62.200
AR	Quantity	128	128	128	-	128
	Total Obligation Authority	4.665	4.665	4.665	-	4.665
Total: Secondary Distribution	Quantity	2,288	3,401	2,077	679	2,756
	Total Obligation Authority	273.246	314.297	261.863	37.806	299.669

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A (MIP)	Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP)
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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / 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)		2018	General Dynamics4 / Phoenix, AZ - TGS(DECGS)	C / FP	CECOM ACQ CENTER	Aug 2018	Nov 2018	8	2,277.000			
ISR Process Ctr - V1 (IPC V1/DE ACE)		2018	General Dynamics6 / Taunton, MA - (IPC V1)	C / FP	CECOM ACQ CENTER	Jun 2018	Oct 2018	3	2,000.000			
OGS Refresh/Repair		2018	CACI / Elkridge, NJ (OGS)	C / CPFF	CECOM ACQ CENTER	Jun 2018	Sep 2018	1	2,200.000			
OGS Refresh/Repair		2019	CACI / Elkridge, NJ (OGS)	C / CPFF	CECOM ACQ CENTER	Jun 2019	Sep 2019	3	2,200.000			
ISR Process Ctr V2 (IPC V2/DE ACT-E)		2017	General Dynamics2 / Taunton, MA - (IPC V2)	C / FP	CECOM ACQ CENTER	Jun 2017	Sep 2017	22	1,685.000			
ISR Process Ctr V2 (IPC V2/DE ACT-E)		2018	General Dynamics2 / Taunton, MA - (IPC V2)	C / FP	CECOM ACQ CENTER	Jun 2018	Sep 2018	20	1,200.000			
ISR Process Ctr V2 (IPC V2/DE ACT-E)		2019	TBD / TBD	C / FP	CECOM ACQ CENTER	Jul 2019	Sep 2019	21	1,200.000			
Cross Domain Solution Suite (CDSS)		2017	General Dynamics3 / Taunton, MA - CDS	C / FP	CECOM ACQ CENTER	Apr 2017	Jul 2017	67	50.000			
Cross Domain Solution Suite (CDSS)		2018	General Dynamics3 / Taunton, MA - CDS	C / FP	CECOM ACQ CENTER	Apr 2018	Jul 2018	51	135.000			
GEOINT WS (GWS/DE DTSS-D)		2017	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Mar 2017	Jun 2017	134	166.000			
GEOINT WS (GWS/DE DTSS-D)		2018	General Dynamics1 / Taunton, MA - GWS	C / FP	CECECOM ACQ CENTER	Mar 2018	Jun 2018	133	245.000			
GEOINT WS (GWS/DE DTSS-D)		2019	General Dynamics1 / Taunton, MA - GWS	C / FP	CECOM ACQ CENTER	Mar 2019	Jun 2019	108	245.000			
Intel Fusion Server (IFS)		2017	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2017	May 2017	200	235.000			
Intel Fusion Server (IFS) (TSI Config)		2018	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2018	Sep 2018	238	196.000			
Intel Fusion Server (IFS) (TSI Config)		2019	General Dynamics2 / Taunton, MA - IFS	C / FP	CECOM ACQ CENTER	Feb 2019	Sep 2019	146	196.000			
Portable (P)Multi Function WorkSta.		2017	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Mar 2017	Jun 2017	1,501	5.000			
Portable (P)Multi Function WorkSta.		2018	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Mar 2018	Jun 2018	1,081	2.500			
Portable (P)Multi Function WorkSta.		2019	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Mar 2019	Mar 2019	1,125	2.500			
Fixed (F)-Multi Function WorkStations		2018	General Dynamics5 / Taunton, MA - MFWS	C / FP	CECOM ACQ CENTER	Mar 2018	Jun 2018	370	18.000			

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-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9690BZ7316 / DCGS-A (MIP)	Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP)
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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9692BZ8401 / Joint Tactical Ground Station (JTAGS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 1208053A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	3	1	-	5	-	5	-	-	-	5	-	14
Gross/Weapon System Cost (<i>\$ in Millions</i>)	48.807	4.417	-	5.434	-	5.434	-	-	-	6.393	-	65.051
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	48.807	4.417	-	5.434	-	5.434	-	-	-	6.393	-	65.051
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	48.807	4.417	-	5.434	-	5.434	-	-	-	6.393	-	65.051

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	16,269.000	4,417.000	-	1,086.800	-	1,086.800	-	-	-	1,278.600	-	4,646.500

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 to theater combatant commanders. JTAGS fielded since 1997, has five fielded ground stations and is deployed in three theaters (PACOM, EUCOM, and CENTCOM). Obsolescence issues coupled with the desire to take advantage of the Air Force's investment in newer satellites (Space Based Infrared System (SBIRS) and their improved warning accuracy and timeliness. led to the Army's JTAGS Pre-Planned Product Improvement (P3I) program. JTAGS Approved Acquisition Objective (AAO) is five systems.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	1	-	5	-	5	-	-	-	5
Total Obligation Authority	4.417	-	5.434	-	5.434	-	-	-	6.393
Total:									
Secondary Distribution									
Quantity	1	-	5	-	5	-	-	-	5
Total Obligation Authority	4.417	-	5.434	-	5.434	-	-	-	6.393

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9692BZ8401 / Joint Tactical Ground Station (JTAGS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 1208053A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ8420 / JOINT TACTICAL GROUND STATION MODS (JTAGS)	P-5a			3 / 48.807	1 / 4.417	- / -	5 / 5.434	- / -	5 / 5.434
P-40	Total Gross/Weapon System Cost				3 / 48.807	1 / 4.417	- / -	5 / 5.434	- / -	5 / 5.434

*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 2019 base procurement dollars in the amount of \$5.434 million procures upgraded software for JTAGS systems (Institutional Training System (ITS) and Theater Warning System/Exercise Support System (TWS/ESS)) developed via the JTAGS P3I Block II Phase 2 development/modification program .

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 1 10-181). 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9692BZ8401 / Joint Tactical Ground Station (JTAGS)	Item Number / Title [DODIC]: BZ8420 / JOINT TACTICAL GROUND STATION MODS (JTAGS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	3	1	-	5	-	5
Gross/Weapon System Cost (\$ in Millions)	48.807	4.417	-	5.434	-	5.434
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	48.807	4.417	-	5.434	-	5.434
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	48.807	4.417	-	5.434	-	5.434

(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)	16,269.000	4,417.000	-	1,086.800	-	1,086.800

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Institutional Trainer Software ^(t)	11,186.000	1	11.186	-	-	-	-	-	-	1,087.000	1	1.087	-	-	-	1,087.000	1	1.087
JTAGS TWS/ESS Software ^(t)	18,810.500	2	37.621	4,417.000	1	4.417	-	-	-	1,086.750	4	4.347	-	-	-	1,086.750	4	4.347
<i>Subtotal: Recurring Cost</i>	-	-	48.807	-	-	4.417	-	-	-	-	-	5.434	-	-	-	-	-	5.434
<i>Subtotal: Flyaway Cost</i>	-	-	48.807	-	-	4.417	-	-	-	-	-	5.434	-	-	-	-	-	5.434
Gross/Weapon System Cost	16,269.000	3	48.807	4,417.000	1	4.417	-	-	-	1,086.800	5	5.434	-	-	-	1,086.800	5	5.434

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	1	-	5	-	5
	Total Obligation Authority	4.417	-	5.434	-	5.434
Total: Secondary Distribution	Quantity	1	-	5	-	5
	Total Obligation Authority	4.417	-	5.434	-	5.434

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9692BZ8401 / Joint Tactical Ground Station (JTAGS)					Item Number / Title [DODIC]: BZ8420 / JOINT TACTICAL GROUND STATION MODS (JTAGS)				
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
Institutional Trainer Software		2019	Northrop Grumman / Colorado Springs, Co.	Option / FFP	Colorado Springs, Co	Jun 2019	Oct 2019	1	1,087.000	Y	Dec 2014	Dec 2014
JTAGS TWS/ESS Software		2019	Northrop Grumman / Colorado Springs, Co.	Option / FFP	Colorado Springs, Co	Jun 2019	Oct 2019	4	1,086.750	Y	Dec 2014	Dec 2014

Remarks:
 Previous Years include both JTAGS Block I and JTAGS P3I Block II systems/costs, however it they only include quantities for JTAGS P3I Block II systems. In order to validate the Block II (P3I) Prior Year quantities had to be used in conjunction with the Block I and Block II costs which makes unit costs and kit costs on P-5 and P3-A erroneous. Quantity for Block I and Block II Prior Years should be 9.

 FY19 funding will be used for software modifications to the fielded JTAGS P3I Block II systems. No new systems will be procured with the FY19 funding.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9704BA0326 / TROJAN (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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	481.664	29.680	37.362	20.623	6.926	27.549	17.368	17.612	18.144	19.235	-	648.614
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	481.664	29.680	37.362	20.623	6.926	27.549	17.368	17.612	18.144	19.235	-	648.614
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	481.664	29.680	37.362	20.623	6.926	27.549	17.368	17.612	18.144	19.235	-	648.614

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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:

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.

Joint Worldwide Intelligence Communications System (JWICS) Mobile Integrated Communications System (JMICS) is a Defense Intelligence Agency's (DIA) approved deployable version of a garrison JWICS with the Army G-2 (DAMI-IM) as the J2 appointed JMICS Program Manager with the responsibility for managing and sustaining JMICS, a deployable TS/SCI capability. JMICS is a self-contained mobile

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9704BA0326 / TROJAN (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

communications system providing reach back and access to the Intelligence Community (IC) in support of Combatant Commanders, Joint Task Force (JTF) requirements and Service Commanders. The 14 JMICS systems provides JWICS video teleconferencing (VTC), TS/SCI and Secret/Collateral data and voice communications/reach back via JWICS and SIPRNET, secure telephones and other information support systems in a self-contained mobile configuration. JMICS also provides unclassified local area networks (LAN) capability via NIPRNET.

All funding goes to the Active Component.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	29.680	37.062	20.323	6.926	27.249	17.068	17.312	17.544	18.623
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.150	0.150	-	0.150	0.150	0.150	0.300	0.306
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.150	0.150	-	0.150	0.150	0.150	0.300	0.306
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	29.680	37.362	20.623	6.926	27.549	17.368	17.612	18.144	19.235

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:** 9704BA0326 / TROJAN (MIP)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0303032A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BA0331 / TROJAN CLASSIC (MIP)	P-5a			- / 239.295	- / 9.400	- / 28.929	- / 8.420	- / 6.926	- / 15.346
P-5	BA0333 / TROJAN SPIRIT - TERMINALS (MIP)	P-5a			- / 242.369	- / 20.280	- / 8.433	- / 12.203	- / -	- / 12.203
P-40	Total Gross/Weapon System Cost				- / 481.664	- / 29.680	- / 37.362	- / 20.623	- / 6.926	- / 27.549

*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 2019 Base funding in the amount of \$20.623 million funds the following TROJAN NexGEN and TROJAN SPIRIT requirements:

- 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.

FY 2019 OCO funding in the amount of \$6.926 million funds the following requirements:

- TROJAN NexGEN: FY 2019 OCO funding in the amount of \$6.926 million supports the annual maintenance and refresh of deployed TROJAN NexGEN systems in Operation Freedom's Sentinel (OFS) and Operation Inherent Resolve (OIR).

In accordance with Section 1815 of the FY 2018 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / TROJAN (MIP)	Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	239.295	9.400	28.929	8.420	6.926	15.346
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	239.295	9.400	28.929	8.420	6.926	15.346
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	239.295	9.400	28.929	8.420	6.926	15.346

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware (Previous Years)	2,948.532	62	182.809	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TROJAN Analytical Node (TAN)	-	-	-	199.333	3	0.598	199.200	5	0.996	-	-	-	-	-	-	-	-	-
Remote Operations Facility (ROF)	-	-	-	241.500	2	0.483	241.667	3	0.725	241.600	5	1.208	-	-	-	241.600	5	1.208
TSPRING-D	-	-	-	1,930.000	1	1.930	1,930.000	1	1.930	1,930.000	2	3.860	-	-	-	1,930.000	2	3.860
TATTERAN	-	-	-	2,230.000	1	2.230	-	-	-	-	-	-	-	-	-	-	-	-
S280 Shelter	-	-	-	205.000	1	0.205	260.000	1	0.260	-	-	-	-	-	-	-	-	-
Training Suite	-	-	-	419.000	1	0.419	40.000	1	0.040	-	-	-	-	-	-	-	-	-
Integration/Fielding (TROJAN)	14,121.500	4	56.486	3,535.000	1	3.535	3,668.000	1	3.668	3,352.000	1	3.352	-	-	-	3,352.000	1	3.352
Subtotal: Recurring Cost	-	-	239.295	-	-	9.400	-	-	7.619	-	-	8.420	-	-	-	-	-	8.420
Non Recurring Cost																		
Hardware (JMICS) ⁽¹⁾	-	-	-	-	-	-	2,600.000	2	5.200	-	-	-	-	-	-	-	-	-
Establishment of Wiesbaden TNCC (OCO)	-	-	-	-	-	-	6,000.000	1	6.000	-	-	-	-	-	-	-	-	-
Refresh of Systems Supporting OFS/OIR (OCO)	-	-	-	-	-	-	842.500	12	10.110	-	-	-	6,926.000	1	6.926	6,926.000	1	6.926
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	21.310	-	-	0.000	-	-	6.926	-	-	6.926

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80						P-1 Line Item Number / Title: 9704BA0326 / TROJAN (MIP)						Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC (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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Flyaway Cost</i>	-	-	239.295	-	-	9.400	-	-	28.929	-	-	8.420	-	-	6.926	-	-	15.346
Gross/Weapon System Cost	-	-	239.295	-	-	9.400	-	-	28.929	-	-	8.420	-	-	6.926	-	-	15.346

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	9.400	28.929	8.420	6.926	15.346
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	9.400	28.929	8.420	6.926	15.346

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / 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 (JMICS)		2017	CACI (TROJAN) / APG	C / CPFF	CECOM	Aug 2017	Aug 2017	0	0.000			
Hardware (JMICS)		2018	CACI (TROJAN) / APG	C / CPFF	CECOM	Aug 2018	Aug 2018	0	0.000			
Hardware (JMICS)		2018	LEIDOS (JMICS) / TBD	C / CPFF	NAVAIR	Aug 2018	Aug 2018	2	2,600.000			
Hardware (JMICS)		2019	TBD (TROJAN) / APG	TBD	CECOM	Aug 2018	Aug 2019	0	0.000			

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 option year 2 which ends 27 August 2018. The contract will be re-competed in FY18.

LEIDOS is the prime contractor for JMICS. The period of performance for base and option years is 17 AUG to 18 AUG.

All items procured are COTS/GOTS.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	242.369	20.280	8.433	12.203	-	12.203
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	242.369	20.280	8.433	12.203	-	12.203
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	242.369	20.280	8.433	12.203	-	12.203

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware SPIRIT ^(†)	304.061	473	143.821	164.914	35	5.772	30.657	143	4.384	46.843	191	8.947	-	-	-	46.843	191	8.947
Integration/Fielding	19,709.600	5	98.548	3,403.000	1	3.403	3,449.000	1	3.449	3,256.000	1	3.256	-	-	-	3,256.000	1	3.256
Subtotal: Recurring Cost	-	-	242.369	-	-	9.175	-	-	7.833	-	-	12.203	-	-	-	-	-	12.203
Non Recurring Cost																		
SPIRIT Cinematic Training	-	-	-	-	-	-	200.000	3	0.600	-	-	-	-	-	-	-	-	-
ISR Transfer Funding (OCO)	-	-	-	3,800.000	1	3.800	-	-	-	-	-	-	-	-	-	-	-	-
Refresh of Tactical NexGEN Systems (OCO) (Funding should be aligned under BA0331)	-	-	-	3,305.000	1	3.305	-	-	-	-	-	-	-	-	-	-	-	-
Fielding of Tactical NexGEN Systems (OCO) (Funding should be aligned under BA0331)	-	-	-	1,333.333	3	4.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	11.105	-	-	0.600	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	242.369	-	-	20.280	-	-	8.433	-	-	12.203	-	-	-	-	-	12.203
Gross/Weapon System Cost	-	-	242.369	-	-	20.280	-	-	8.433	-	-	12.203	-	-	-	-	-	12.203

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9704BA0326 / TROJAN (MIP)	Item Number / Title [DODIC]: BA0333 / TROJAN SPIRIT - TERMINALS (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 Element Breakout	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware SPIRIT	304.061	473	143.821	164.914	35	5.772	30.657	143	4.384	46.843	191	8.947	-	-	-	46.843	191	8.947
AN/TSQ-226B(V)1 Phase 3 Kits	-	-	-	170.704	27	4.609	-	-	-	170.500	24	4.092	-	-	-	170.500	24	4.092
AN/TSQ-226B(V)1 Phase 3 Kits Spares (RSC)	-	-	-	153.286	7	1.073	-	-	-	-	-	-	-	-	-	-	-	-
AN/TSQ-226B/C(V)2/3 Phase 3 Kits	-	-	-	90.000	1	0.090	89.500	8	0.716	-	-	-	-	-	-	-	-	-
T-JWICS VTC Suite Upgrades	-	-	-	-	-	-	41.368	19	0.786	41.361	61	2.523	-	-	-	41.361	61	2.523
T-JWICS VTC Suite Spares (RSC)	-	-	-	-	-	-	45.571	14	0.638	-	-	-	-	-	-	-	-	-
iDirect Modems	-	-	-	-	-	-	22.000	88	1.936	22.000	106	2.332	-	-	-	22.000	106	2.332
iDirect Modems - Spares (RSC)	-	-	-	-	-	-	22.000	14	0.308	-	-	-	-	-	-	-	-	-
Hardware (Previous Years)	304.061	473	143.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	20.280	8.133	11.903	-	11.903
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.150	0.150	-	0.150
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.150	0.150	-	0.150
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	20.280	8.433	12.203	-	12.203

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9704BA0326 / 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 SPIRIT		2015	CACI / APG	C / CPFF	CECOM	Jun 2015	Sep 2015	51	169.980			
Hardware SPIRIT		2016	CACI / APG	C / CPFF	CECOM	Sep 2016	Sep 2016	106	145.890			
Hardware SPIRIT		2017	CACI / APG	C / CPFF	CECOM	Sep 2017	Sep 2017	35	164.910			
Hardware SPIRIT		2018	CACI / APG	C / CPFF	CECOM	Sep 2018	Sep 2018	143	30.660			
Hardware SPIRIT		2019	TBD / APG	TBD	CECOM	Sep 2018	Sep 2019	191	46.840			

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 TROJAN SPIRIT. The period of performance for base and option years is 30 SEP to 29 SEP. Contract is currently in option year 2 which ends on 29 Sep 2018. The contract will be re-competed in FY18.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9912BZ9750 / Mod of In-Svc Equip (INTEL SPT) (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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	18	36	54	12	1	13	11	-	-	-	-	132
Gross/Weapon System Cost (<i>\$ in Millions</i>)	188.940	50.405	53.334	45.998	2.011	48.009	40.444	11.549	-	74.652	-	467.333
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	188.940	50.405	53.334	45.998	2.011	48.009	40.444	11.549	-	74.652	-	467.333
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	188.940	50.405	53.334	45.998	2.011	48.009	40.444	11.549	-	74.652	-	467.333

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	10,496.667	1,400.139	987.667	3,833.167	2,011.000	3,693.000	3,676.727	-	-	-	-	3,540.402

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. Funds procurement of 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 Modifications MIP (BZ9753): In FY2019 modifications to retrofit, test, train, and support previously fielded Prophet Enhanced systems not currently hosted on a prime mover to the latest mounted configuration will continue. 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. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). Prophet Enhanced's design also incorporates the ability for rapid integration of TI to ensure operational relevance.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	36	54	12	1	13	11	-	-	-
Total Obligation Authority	50.405	53.334	45.998	2.011	48.009	40.444	11.549	-	74.652
Total:									
Secondary Distribution	Quantity	36	54	12	1	13	11	-	-
	Total Obligation Authority	50.405	53.334	45.998	2.011	48.009	40.444	11.549	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) **P-1 Line Item Number / Title:**
 9912BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)	P-5a			18 / 127.249	10 / 4.055	- / 4.241	- / 4.162	- / -	- / 4.162
P-5	BZ9753 / Prophet Enhanced Modifications (MIP)	P-5a, P-21			- / 61.691	26 / 46.350	54 / 49.093	12 / 41.836	1 / 2.011	13 / 43.847
P-40	Total Gross/Weapon System Cost				18 / 188.940	36 / 50.405	54 / 53.334	12 / 45.998	1 / 2.011	13 / 48.009

*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 2019 BZ9751 Base procurement funding in the amount of \$4.162 million supports the continuing implementation of Modern signal-of-interest (SOI) enhancements for Prophet Enhanced. An upgraded software 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. There will be no hardware purchased in FY 2019, therefore a specific quantity cannot be applied to the distribution.

FY 2019 BZ9753 Base procurement funding in the amount of \$41.836 million supports the modification of 12 legacy systems and procurement of the manpacks as a component legacy modification, associated support, integration, testing and fielding activities for these systems.

FY 2019 BZ9753 OCO procurement funding in the amount of \$2.011 million supports a Mobile Training Team (MTT) to conduct New Equipment Training (NET) for units OCONUS.

All funding is for the Active component.

Army Acquisition Objective (AAO): 225

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9912BZ9750 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	18	10	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	127.249	4.055	4.241	4.162	-	4.162
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	127.249	4.055	4.241	4.162	-	4.162
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	127.249	4.055	4.241	4.162	-	4.162

(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)	7,069.389	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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Logistics Products	-	-	-	-	-	0.555	-	-	-	-	-	-	-	-	-	-	-	-
Next Generation Hardware (Manpack) ^(†)	-	-	-	250.000	10	2.500	-	-	-	-	-	-	-	-	-	-	-	-
Software Upgrades & Integration	-	-	-	-	-	1.000	-	-	4.241	-	-	4.162	-	-	-	-	-	4.162
Advanced Processor	21,208.200	6	127.249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>127.249</i>	<i>-</i>	<i>-</i>	<i>4.055</i>	<i>-</i>	<i>-</i>	<i>4.241</i>	<i>-</i>	<i>-</i>	<i>4.162</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>4.162</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>127.249</i>	<i>-</i>	<i>-</i>	<i>4.055</i>	<i>-</i>	<i>-</i>	<i>4.241</i>	<i>-</i>	<i>-</i>	<i>4.162</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>4.162</i>
Gross/Weapon System Cost	7,069.389	18	127.249	405.500	10	4.055	-	-	4.241	-	-	4.162	-	-	-	-	-	4.162

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	10	0	0	-
	Total Obligation Authority	4.055	4.241	4.162	-
Total: Secondary Distribution	Quantity	10	-	-	-
	Total Obligation Authority	4.055	4.241	4.162	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9912BZ9750 / 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 (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Next Generation Hardware (Manpack)		2017	GD Mission Systems / Scottsdale, AZ	SS / FFP	APG, MD	Jun 2017	Nov 2017	10	250.000			

Remarks:

FY 2019, BZ9751 Base procurement funding in the amount of \$4.162 million will support the implementation of modern signal-of-interest software upgrades for Prophet Enhanced; there will be no hardware purchased in FY2019, therefore a specific quantity can not be applied to the distribution.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: 9912BZ9750 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	26	54	12	1	13
Gross/Weapon System Cost (\$ in Millions)	61.691	46.350	49.093	41.836	2.011	43.847
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	61.691	46.350	49.093	41.836	2.011	43.847
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	61.691	46.350	49.093	41.836	2.011	43.847

(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)	-	1,782.692	909.130	3,486.333	2,011.000	3,372.846

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Prophet Enhanced Legacy Modification ^(†)	-	-	61.691	1,200.000	12	14.400	1,200.000	12	14.400	1,200.000	12	14.400	-	-	-	1,200.000	12	14.400
Integration & Testing	-	-	-	-	-	6.344	-	-	6.408	-	-	4.770	-	-	-	-	-	4.770
Program Quality Management	-	-	-	-	-	2.850	-	-	2.934	-	-	2.935	-	-	-	-	-	2.935
GFE	-	-	-	-	-	0.465	-	-	0.727	-	-	0.780	-	-	-	-	-	0.780
Software Engineering	-	-	-	-	-	3.294	-	-	3.360	-	-	3.381	-	-	-	-	-	3.381
Project Management Costs	-	-	-	-	-	3.273	-	-	3.000	-	-	3.016	-	-	-	-	-	3.016
Training/Fielding/ Depot Support	-	-	-	-	-	9.334	-	-	9.414	-	-	9.435	2,011.000	1	2.011	11,446.000	1	11.446
Matrix Support	-	-	-	-	-	1.490	-	-	0.800	-	-	0.820	-	-	-	-	-	0.820
Manpack ^(†)	-	-	-	-	-	-	191.667	42	8.050	-	-	2.299	-	-	-	-	-	2.299
Satellite On The Move (SOTM) Antenna	-	-	-	350.000	14	4.900	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>61.691</i>	-	-	<i>46.350</i>	-	-	<i>49.093</i>	-	-	<i>41.836</i>	-	-	<i>2.011</i>	-	-	<i>43.847</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>61.691</i>	-	-	<i>46.350</i>	-	-	<i>49.093</i>	-	-	<i>41.836</i>	-	-	<i>2.011</i>	-	-	<i>43.847</i>
Gross/Weapon System Cost	-	-	61.691	1,782.692	26	46.350	909.130	54	49.093	3,486.333	12	41.836	2,011.000	1	2.011	3,372.846	13	43.847

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9912BZ9750 / 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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Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	26	54	12	1	13
	Total Obligation Authority	46.350	49.093	41.836	2.011	43.847
Total:	Quantity	26	54	12	1	13
Secondary Distribution	Total Obligation Authority	46.350	49.093	41.836	2.011	43.847

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9912BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)				Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP)					

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Prophet Enhanced Legacy Modification ^(†)		2017	GD Mission Systems / Scottsdale, AZ	SS / FFP	APG, MD	Jun 2017	Mar 2018	12	1,200.000			
Prophet Enhanced Legacy Modification ^(†)		2018	GD Mission Systems / Scottsdale, AZ	SS / FFP	APG, MD	Feb 2018	Nov 2018	12	1,200.000			
Prophet Enhanced Legacy Modification ^(†)		2019	GD Mission Systems / Scottsdale, AZ	SS / FFP	APG, MD	Jan 2019	Oct 2019	12	1,200.000			
Manpack		2018	GD Mission Systems / Scottsdale, AZ	SS / FFP	APG, MD	Feb 2018	Apr 2018	42	191.670			

^(†) indicates the presence of a P-21

Remarks:

FY 2019 BZ9753 Base procurement funding in the amount of \$41.836 million supports the modification of 12 legacy systems, procurement of 12 manpacks as a component of the 12 legacy modifications, associated support, integration, testing and fielding activities for these systems.

FY 2019 BZ9753 OCO procurement funding in the amount of \$2.011 million supports a Mobile Training Team (MTT) to conduct New Equipment Training (NET) for units OCONUS.

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Exhibit P-21, Production Schedule: PB 2019 Army														Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80												P-1 Line Item Number / Title: 9912BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)												Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP)											

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	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	U	E				
Prophet Enhanced Legacy Modification																																			
	1	2017	ARMY	12	0	12								A	-	-	-	-	-	-	-	-			2	2	2	2	2	2	2		0		
	1	2018	ARMY	12	0	12																		A	-	-	-	-	-	-	-	-	-	-	12
	1	2019	ARMY	12	0	12																												12	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	A	M	J	J	A	S				
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E				
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80										P-1 Line Item Number / Title: 9912BZ9750 / 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 2019													Fiscal Year 2020													BALANCE	
O C 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			
Prophet Enhanced Legacy Modification																																	
	1	2017	ARMY	12	12	0																							0				
	1	2018	ARMY	12	0	12	-	2	2	2	2	2	2																0				
	1	2019	ARMY	12	0	12				A	-	-	-	-	-	-	-	2	2	2	2	2	2	2				0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80		P-1 Line Item Number / Title: 9912BZ9750 / 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 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GD Mission Systems - Scottsdale, AZ	2	3	4	8	3	9	12	0	0	0	0

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 9925BK5275 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	922	437	3,540	12	-	12	-	-	-	-	-	4,911
Gross/Weapon System Cost (<i>\$ in Millions</i>)	310.463	14.891	22.275	0.296	-	0.296	-	-	-	-	-	347.925
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	310.463	14.891	22.275	0.296	-	0.296	-	-	-	-	-	347.925
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	310.463	14.891	22.275	0.296	-	0.296	-	-	-	-	-	347.925

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	336.728	34.076	6.292	24.667	-	24.667	-	-	-	-	-	70.846

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), and voice recording device. Phasing in of the Nett Warrior End User Device (EUD), to displace the C-PSK, will begin in FY 2018 and complete in FY 2019. The EUD is a COTS Mobile Handheld device, managed by PEO Soldier, which provides all of the operational capacity of the C-PSK in 1 hardware device. 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	160	3,303	12	-	12	-	-	-
	Total Obligation Authority	13.595	21.168	0.296	-	0.296	-	-	-
ANG	Quantity	150	142	-	-	-	-	-	-
	Total Obligation Authority	0.707	0.669	-	-	-	-	-	-
AR	Quantity	127	95	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 9925BK5275 / 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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
	Total Obligation Authority	0.589	0.438	-	-	-	-	-	-	-
Total:	Quantity	437	3,540	12	-	12	-	-	-	-
Secondary Distribution	Total Obligation Authority	14.891	22.275	0.296	-	0.296	-	-	-	-

Justification:

FY 2019 procurement funds in the amount of \$0.296 million procures 4 CHATS and 8 ITRT to support the Grow the Army Initiative.

CHARCS AAO: 5,198 (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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 9928B10001 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	19	24	21	-	-	-	-	-	-	-	-	64
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.012	7.970	8.050	-	-	-	-	-	-	-	-	21.032
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.012	7.970	8.050	-	-	-	-	-	-	-	-	21.032
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.012	7.970	8.050	-	-	-	-	-	-	-	-	21.032

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	263.789	332.083	383.333	-	-	-	-	-	-	-	-	328.625

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	19	15	-	-	-	-	-	-	-
Total Obligation Authority	6.303	6.607	-	-	-	-	-	-	-
ANG									
Quantity	5	6	-	-	-	-	-	-	-
Total Obligation Authority	1.667	1.443	-	-	-	-	-	-	-
Total: Secondary Distribution	24	21	-	-	-	-	-	-	-
Total Obligation Authority	7.970	8.050	-	-	-	-	-	-	-

Justification:

FY 2019 has no funding requested for this line.

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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 9931B88605 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	32.745	0.545	0.567	-	-	-	-	-	-	-	-	33.857
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	32.745	0.545	0.567	-	-	-	-	-	-	-	-	33.857
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	32.745	0.545	0.567	-	-	-	-	-	-	-	-	33.857

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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) 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.545	0.567	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.545	0.567	-	-	-	-	-	-

Justification:

FY 2019 has no funding requested for this line.

FY 2018 Base procurement dollars in the amount of \$0.567 million supports program management and integrated logistics support. This program will be providing software only and will not have quantities and/or delivery dates.

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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9988BK5300 / Biometric Tactical Collection Devices (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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	275	-	866	866	-	-	-	-	-	1,141
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	6.804	5.180	-	5.370	5.370	-	-	-	-	-	17.354
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	6.804	5.180	-	5.370	5.370	-	-	-	-	-	17.354
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	6.804	5.180	-	5.370	5.370	-	-	-	-	-	17.354

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	18.836	-	6.201	6.201	-	-	-	-	-	15.209

Description:

The Army Program of Record for biometrics tactical collection capability is presently the Biometrics Automated Toolset-Army (BAT-A). It consists of the BAT-A Kit, BAT-A Handheld and BAT-A Web Service. This capability supports the Army Force Protection Mission and Identity Dominance Mission. The BAT-A system collects, matches, stores, and shares biometric and contextual information on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals. Recipients of collected information include DoD organizations, other U.S. government agencies, and Coalition Partners. The BAT-A system is also used by non-Military Intelligence personnel (Infantry and Military Police) for protection missions. The capability was originally deployed as a Quick Reaction Capability (QRC) and has been deployed in a combat zone for over 17 years. Today, BAT-A supports Operation Freedom's Sentinel, Operation Inherent Resolve and Operation Guantanamo Bay. The BAT-A system will reach end of useful life in FY22.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	275	0	866	866	-	-	-
	Total Obligation Authority	6.804	5.180	0.000	5.370	5.370	-	-	-
Total: Secondary Distribution	Quantity	-	275	0	866	866	-	-	-
	Total Obligation Authority	6.804	5.180	-	5.370	5.370	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)	P-1 Line Item Number / Title: 9988BK5300 / Biometric Tactical Collection Devices (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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BK5301 / Biometrics Automated Toolset - Army (BAT-A) (MIP)	P-5a			- / -	- / 6.804	275 / 5.180	- / -	866 / 5.370	866 / 5.370
P-40	Total Gross/Weapon System Cost				- / -	- / 6.804	275 / 5.180	- / -	866 / 5.370	866 / 5.370

*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 2019 OCO procurement in the amount of \$5.370 million continues to procure BAT-A Kit Hardware and BAT-A Handheld accessories for RESET/REFRESH activities supporting both Operation Freedom's Sentinel (OFS), Operation Inherent Resolve (OIR) and Operation Guantanamo Bay. Specifically for OFS, requested funds will refresh Scanner Devices (539 Fingerprint and 462 Iris); 92 BAT-A laptops and obsolete peripherals with accessories; and will refresh BAT-A HH parts and accessories ensuring the continued mission critical capability. Specifically for OIR and GITMO, requested funds will refresh Scanner Devices (161 Fingerprint and 138 Iris); 28 BAT-A laptops and obsolete peripherals with accessories; and will refresh BAT-A HH obsolete parts and accessories ensuring the continued mission critical capability.

BAT-A requires both hardware reset and associated minor software integration to maintain operational viability. These devices have been deployed in combat operations for over 17 years, well beyond the standard 3 to 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.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80	P-1 Line Item Number / Title: 9988BK5300 / 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:			
Resource Summary		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)		-	-	275	-	866	866
Gross/Weapon System Cost (\$ in Millions)		-	6.804	5.180	-	5.370	5.370
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		-	6.804	5.180	-	5.370	5.370
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	6.804	5.180	-	5.370	5.370
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	18.836	-	6.201	6.201

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
BAT-A Kit Hardware and BAT-A Handheld accessories ^(†)	-	-	-	2.835	2,000	5.670	18.836	275	5.180	-	-	-	6.201	866	5.370	6.201	866	5.370
JUON CC-0548	-	-	-	-	-	1.134	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	6.804	-	-	5.180	-	-	0.000	-	-	5.370	-	-	5.370
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	6.804	-	-	5.180	-	-	0.000	-	-	5.370	-	-	5.370
Gross/Weapon System Cost	-	-	-	-	-	6.804	18.836	275	5.180	-	-	-	6.201	866	5.370	6.201	866	5.370

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	275	0	866	866
	Total Obligation Authority	6.804	5.180	0.000	5.370	5.370
Total:	Quantity	-	275	-	866	866
Secondary Distribution	Total Obligation Authority	6.804	5.180	-	5.370	5.370

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80			P-1 Line Item Number / Title: 9988BK5300 / 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
BAT-A Kit Hardware and BAT-A Handheld accessories		2017	Leidos Innovations Corporation / Bethesda	C / CR	CECOM	May 2017	Jun 2017	2,000	2.840			
BAT-A Kit Hardware and BAT-A Handheld accessories		2018	Leidos Innovations Corporation / Bethesda	Option / CR	CECOM	May 2018	Jun 2018	275	18.840			
BAT-A Kit Hardware and BAT-A Handheld accessories	✓	2019	Leidos Innovations Corporation / Bethesda	Option / CR	CECOM	May 2019	Jun 2019	866	6.200			

Remarks:
All items being procured are COTS/GOTS.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 9990BK5278 / Items Less Than \$5.0M (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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	438.546	-	-	0.410	-	0.410	-	-	-	-	-	438.956
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	438.546	-	-	0.410	-	0.410	-	-	-	-	-	438.956
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	438.546	-	-	0.410	-	0.410	-	-	-	-	-	438.956

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 supports procurement of Trojan Special Purpose Integrated Remote Intelligence Terminals (Trojan SPIRIT) for the Stryker Brigades, Special Operations Forces (SOF), and Modular Force units; Army National Guard Wideband Imagery Dissemination System; and the Army Deployable Interoperable Node GIAT Operations (DINGO) System.

Trojan SPIRIT provides the Current Force, Stryker Brigades, SOF, and Modular Force units with dedicated, secure, high capacity, SCI-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.

DINGO is a critical component to supporting the ability to produce, maintain, and update geospatial imagery to support wartime missions, including Weapons of Mass Destruction - Elimination (WMD-E) and Non-Combatant Evacuation (NEO). It supports split based operations during crisis, contingency and wartime operations. The system processes Electro Optical (EO), Infrared (IR) and RADAR imagery. It also performs 3D modeling and is capable of processing Full Motion Video (FMV).

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.410	-	0.410	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.410	-	0.410	-	-	-

Justification:

Base procurement funds in the amount of \$0.410 million supports the Eighth Army Deployable Interoperable Node GIAT Operations (DINGO) System software engineering and support.

Funds in this budget line are a new start program in FY 2019.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 9990BK5278 / Items Less Than \$5.0M (MIP)
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		
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 civilian authorities.		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8387B05201 / Lightweight Counter Mortar Radar
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	39	96	5	-	-	-	-	-	-	-	-	140
Gross/Weapon System Cost (<i>\$ in Millions</i>)	714.466	125.145	20.459	9.165	-	9.165	-	-	8.326	7.380	-	884.941
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	714.466	125.145	20.459	9.165	-	9.165	-	-	8.326	7.380	-	884.941
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	714.466	125.145	20.459	9.165	-	9.165	-	-	8.326	7.380	-	884.941

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	18,319.641	1,303.594	4,091.800	-	-	-	-	-	-	-	-	6,321.007

Description:

The AN/TPQ-50 Lightweight Counter Mortar Radar (LCMR) is a highly mobile radar that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems with sufficient accuracy for first round fire for effect. It mitigates close combat radar coverage gaps by providing 360 degrees of azimuth coverage from ranges of 500 meters to 10 kilometers and is capable of being deployed in two configurations, standalone or vehicle mounted. The AN/TPQ-50 system interoperates with mission command systems (MCSs) to provide the maneuver commander increased counterfire radar flexibility. The AN/TPQ-50 is deployed as part of the Counter-Rocket, Artillery, Mortar (C-RAM) system of systems. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability. The AN/TPQ-50 is currently fielded to multiple Continental United States (CONUS) and Outside Continental United States (OCONUS) locations to include support to Operation Inherent Resolve (OIR) and Operation Freedom's Sentinel (OFS).

Army Acquisition Objective (AAO): 400

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	78	3	0	-	0	-	-	-
	Total Obligation Authority	97.677	10.667	5.887	-	5.887	-	-	7.279
ANG	Quantity	18	2	0	-	0	-	-	-
	Total Obligation Authority	27.468	9.792	3.278	-	3.278	-	-	1.047
Total: Secondary Distribution	Quantity	96	5	-	-	-	-	-	-
	Total Obligation Authority	125.145	20.459	9.165	-	9.165	-	-	8.326

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) **P-1 Line Item Number / Title:**
 8387B05201 / Lightweight Counter Mortar Radar

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604823A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B05201 / Lightweight Counter Mortar Radar	P-5a			39 / 714.466	96 / 125.145	5 / 20.459	- / 9.165	- / -	- / 9.165
P-40	Total Gross/Weapon System Cost				39 / 714.466	96 / 125.145	5 / 20.459	- / 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:

Fiscal Year (FY) 2019 OPA Base funds of \$9.165 million will support the fielding of systems to United States Army units, engineering changes, information assurance and program support. Program office core employee labor costs moved from Procurement to OMA as part of an OSD auditability directive.

When all prior year procurement quantities are counted this program achieves the AAO of 400 in FY 2018.

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
- One (1) radar per Task Force

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8387B05201 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	39	96	5	-	-	-
Gross/Weapon System Cost (\$ in Millions)	714.466	125.145	20.459	9.165	-	9.165
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	714.466	125.145	20.459	9.165	-	9.165
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	714.466	125.145	20.459	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)	18,319.641	1,303.594	4,091.800	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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)(f1)	1,320.154	325	429.050	1,015.970	70	71.118	1,481.600	5	7.408	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	429.050	-	-	71.118	-	-	7.408	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Engineering Change Orders	-	-	11.825	-	-	1.641	-	-	0.167	-	-	0.050	-	-	-	-	-	0.050
Non-Recurring Production	-	-	6.608	-	-	22.826	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	18.433	-	-	24.467	-	-	0.167	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Flyaway Cost</i>	-	-	447.483	-	-	95.585	-	-	7.575	-	-	0.050	-	-	-	-	-	0.050
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	26.994	-	-	1.314	-	-	0.029	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	26.994	-	-	1.314	-	-	0.029	-	-	-	-	-	-	-	-	-
Support - Contractor Logistics Support (CLS) Cost																		
Oversight	-	-	47.946	-	-	2.091	-	-	1.087	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Contractor Logistics Support (CLS) Cost</i>	-	-	47.946	-	-	2.091	-	-	1.087	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8387B05201 / 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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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	108.461	-	-	16.114	-	-	5.713	-	-	5.057	-	-	-	-	-	5.057
<i>Subtotal: Support - Fielding Cost</i>	-	-	108.461	-	-	16.114	-	-	5.713	-	-	5.057	-	-	-	-	-	5.057
Support - Program Management Cost																		
Government Management	-	-	41.961	-	-	7.918	-	-	6.055	-	-	4.058	-	-	-	-	-	4.058
<i>Subtotal: Support - Program Management Cost</i>	-	-	41.961	-	-	7.918	-	-	6.055	-	-	4.058	-	-	-	-	-	4.058
Support - System Engineering Cost																		
System Engineering	-	-	41.621	-	-	2.123	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	41.621	-	-	2.123	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	18,319.641	39	714.466	1,303.594	96	125.145	4,091.800	5	20.459	-	-	9.165	-	-	-	-	-	9.165

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	78	3	0	-	0
	Total Obligation Authority	97.677	10.667	5.887	-	5.887
ANG	Quantity	18	2	0	-	0
	Total Obligation Authority	27.468	9.792	3.278	-	3.278
Total: Secondary Distribution	Quantity	96	5	-	-	-
	Total Obligation Authority	125.145	20.459	9.165	-	9.165

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83			P-1 Line Item Number / Title: 8387B05201 / Lightweight Counter Mortar Radar				Item Number / Title [DODIC]: B05201 / Lightweight Counter Mortar Radar					

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware AN/TPQ-50 (LCMR V3)		2015	SRCTEC INC / North Syracuse	SS / FFP	CECOM	Apr 2016	Apr 2017	3	1,108.137	Y		Feb 2013
Hardware AN/TPQ-50 (LCMR V3)		2016	SRCTEC INC / North Syracuse	SS / FFP	CECOM	Apr 2016	Apr 2017	36	1,168.500	Y		Feb 2013
Hardware AN/TPQ-50 (LCMR V3)		2017	SRCTec, Inc. / North Syracuse	SS / FFP	CECOM	Feb 2017	Feb 2018	51	1,367.070	Y		Feb 2013
Hardware AN/TPQ-50 (LCMR V3)		2017	SRCTEC, INC. / North Syracuse	SS / FFP	CECOM	Jun 2017	Jun 2018	19	1,367.070	Y		Feb 2013
Hardware AN/TPQ-50 (LCMR V3)		2018	SRCTec, INC. / North Syracuse	SS / FFP	CECOM	Dec 2017	Dec 2018	5	1,481.600	Y		Feb 2013

Remarks:
 Fiscal Year (FY) 2018 OPA Base funds of \$20.459 million support the procurement of 5 AN/TPQ-50 full rate production (FRP) systems, fielding of systems to United States Army units, engineering changes, information assurance and program support

Fiscal Year (FY) 2017 total funding includes \$56.692 million OPA OCO. Funding supports the procurement of 26 program of record (POR) AN/TPQ-50 radars, of which a quantity 20 will support of the Army Prepositioned Stock (APS) requirement per the Capabilities Production Document (CPD) and 6 will be fielded directly to Army units. This funding also supports the procurement of an additional 18 systems to replace POR systems which were diverted in support of the Counter Unmanned Aerial Systems (C-UAS) Joint Urgent Operational Needs Statement (JUONS).

Fiscal Year (FY) 2015 system buy was combined with FY16 buy to take advantage of the best quantity range pricing, reducing the total hardware cost by \$0.912M (26%) for those three systems.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8488K00002 / EW Planning & Management Tools (EWPMT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	1	-	1	1	1	1	1	-	5
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.665	3.235	5.805	5.875	-	5.875	7.750	8.045	0.988	19.761	-	58.124
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.665	3.235	5.805	5.875	-	5.875	7.750	8.045	0.988	19.761	-	58.124
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.665	3.235	5.805	5.875	-	5.875	7.750	8.045	0.988	19.761	-	58.124
<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>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	5,875.000	-	5,875.000	7,750.000	8,045.000	988.000	19,761.000	-	11,624.800

Description:

Electronic Warfare Planning and Management Tools (EWPMT) is an Automated Information System (AIS) that utilizes an Information Technology (IT) box software (S/W) strategy. EWPMT will provide the Commander, his staff (Electronic Warfare Officer (EWO) and Spectrum Manager), and the Cyber Electromagnetic Activities (CEMA) working group/cell the ability to control and manage the Electromagnetic Spectrum (EMS). EWPMT will provide: capabilities to plan, coordinate, manage, and de-conflict Electronic Warfare (EW) activities, the ability to employ assets to conduct offensive and defensive Electronic Attack, EW targeting, enable maneuver through CEMA operations and synchronize EW, Spectrum Management Operations (SMO) and CEMA across Intelligence, Operations, and Signals. EWPMT will integrate essential data elements from Mission Command, Intelligence, Fires, Signals to successfully execute a Multi-Domain battle and meet the Commander's needs and desired effects.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	
Army	-	0	1	-	1	1	1	1	1	
	Quantity	-	0	1	-	1	1	1	1	
	Total Obligation Authority	3.235	5.805	5.875	-	5.875	7.750	8.045	0.988	19.761
Total:	Quantity	-	-	1	-	1	1	1	1	
Secondary Distribution	Total Obligation Authority	3.235	5.805	5.875	-	5.875	7.750	8.045	0.988	19.761

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8488K00002 / EW Planning & Management Tools (EWPMT)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	K00002 / EW Planning & Management Tools (EWPMT)				- / 6.665	- / 3.235	- / 5.805	1 / 5.875	- / -	1 / 5.875
P-40	Total Gross/Weapon System Cost				- / 6.665	- / 3.235	- / 5.805	1 / 5.875	- / -	1 / 5.875

*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:
 FY2019 base procurement dollars in the amount of \$5.875 million supports continuous Electronic Warfare Planning & Management Tools (EWPMT fielding) New Equipment Training (NET), delta training, Interim Contractor Support (ICS) and SETA support.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83		P-1 Line Item Number / Title: 8488K00002 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	1	-	1
Gross/Weapon System Cost (\$ in Millions)	6.665	3.235	5.805	5.875	-	5.875
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	6.665	3.235	5.805	5.875	-	5.875
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6.665	3.235	5.805	5.875	-	5.875

(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)	-	-	-	5,875.000	-	5,875.000

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 (ICS)	-	-	2.885	2,364.000	1	2.364	-	-	2.093	1,958.000	1	1.958	-	-	-	1,958.000	1	1.958
<i>Subtotal: Recurring Cost</i>	-	-	<i>2.885</i>	-	-	<i>2.364</i>	-	-	<i>2.093</i>	-	-	<i>1.958</i>	-	-	-	-	-	<i>1.958</i>
<i>Subtotal: Software Cost</i>	-	-	<i>2.885</i>	-	-	<i>2.364</i>	-	-	<i>2.093</i>	-	-	<i>1.958</i>	-	-	-	-	-	<i>1.958</i>
Logistics Cost																		
Recurring Cost																		
EWPMT New Equipment Training (NET)	-	-	3.235	-	-	0.626	-	-	3.277	-	-	3.442	-	-	-	-	-	3.442
<i>Subtotal: Recurring Cost</i>	-	-	<i>3.235</i>	-	-	<i>0.626</i>	-	-	<i>3.277</i>	-	-	<i>3.442</i>	-	-	-	-	-	<i>3.442</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>3.235</i>	-	-	<i>0.626</i>	-	-	<i>3.277</i>	-	-	<i>3.442</i>	-	-	-	-	-	<i>3.442</i>
Support - Program Management Cost																		
Government Management	-	-	0.545	-	-	0.245	-	-	0.435	-	-	0.475	-	-	-	-	-	0.475
<i>Subtotal: Support - Program Management Cost</i>	-	-	<i>0.545</i>	-	-	<i>0.245</i>	-	-	<i>0.435</i>	-	-	<i>0.475</i>	-	-	-	-	-	<i>0.475</i>
Gross/Weapon System Cost	-	-	6.665	-	-	3.235	-	-	5.805	5,875.000	1	5.875	-	-	-	5,875.000	1	5.875

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8488K00002 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	0	1	-	1
	Total Obligation Authority	3.235	5.805	5.875	-	5.875
Total: Secondary Distribution	Quantity	-	-	1	-	1
	Total Obligation Authority	3.235	5.805	5.875	-	5.875

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 8489W60001 / Air Vigilance (AV)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603766A, 0605766A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15.224	0.733	5.348	8.497	-	8.497	8.953	8.169	8.530	8.701	-	64.155
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	15.224	0.733	5.348	8.497	-	8.497	8.953	8.169	8.530	8.701	-	64.155
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15.224	0.733	5.348	8.497	-	8.497	8.953	8.169	8.530	8.701	-	64.155

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 server unit configured and fielded with a single or multiple sub-component sensors. System Quantities are based upon server units. Operational details are classified.

Note: Air Vigilance (AV) is software intensive Automated Information System (AIS) program with specialized hardware. The AV current Basis of Issue Plan (BOIP) is based upon the Full Deployment (FD) of this baseline (qty 1) software deployed across hardware sets comprised of 49 unit/pieces of equipment (10 servers and 39 sensors in various combinations/configurations) fielded to the Intelligence and Security Command (INSCOM) Military Intelligence Brigades.

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."

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.733	5.348	8.497	-	8.497	8.953	8.169	8.530	8.701
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.733	5.348	8.497	-	8.497	8.953	8.169	8.530	8.701

Justification:

FY 2019 Base procurement dollars in the amount of \$8.497 million procures 8 sensors per current operational force needs, and provides for Initial Fielding and New Equipment Training of items procured in previous years, and upgrades these systems to the sensor/processor Capability Drop 3 configuration, in accordance with the latest user and HQDA approved fielding plan. All funding is for Compo 1 (Active Component).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)		P-1 Line Item Number / Title: 8489W60001 / Air Vigilance (AV)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603766A, 0605766A
Line Item MDAP/MAIS Code: N/A		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 8490VA8000 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,490.561	-	-	-	42.651	42.651	-	-	-	-	-	1,533.212
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,490.561	-	-	-	42.651	42.651	-	-	-	-	-	1,533.212
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,490.561	-	-	-	42.651	42.651	-	-	-	-	-	1,533.212

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

Operational Freedom's Sentinel (OFS) has requested dismounted systems to provide force protection for mission locations. These systems will be developed and fielded to the CENTCOM Area of Operation (AoR) in response to Joint Urgent Operation Needs (JUON) 0533 (classified JUONs). JUON 0533 was approved in Nov 2017. Modi II has been selected to fulfil this JUON's based on CONUS and OCONUS testing along with system availability to meet the JUON's requirements.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	42.651	42.651	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	42.651	42.651	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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:**
 8490VA8000 / CREW

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	VA8000 / CREW	P-5a, P-21			- / 1,490.561	- / -	- / -	- / -	- / 42.651	- / 42.651
P-40	Total Gross/Weapon System Cost				- / 1,490.561	- / -	- / -	- / -	- / 42.651	- / 42.651

*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 2019 OCO funding in the amount of \$42.651 million provides for procurement of MODII systems, spares, fielding (includes new equipment training and field service representatives), loadset development and range testing, field support services and program management support.

Operational Freedom's Sentinel (OFS) has requested dismounted systems to provide force protection for mission locations. These systems will be developed and fielded to the CENTCOM Area of Operation (AoR) in response to Joint Urgent Operation Needs (JUON) 0533 (classified JUONs). JUON 0533 was approved in Nov 2017. Modi II has been selected to fulfil this JUONs, based on CONUS and OCONUS testing along with system availability to meet the JUONs requirements.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8490VA8000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,490.561	-	-	-	42.651	42.651
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,490.561	-	-	-	42.651	42.651
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,490.561	-	-	-	42.651	42.651

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	-	-	-	-	-	1.870	-	-	1.870	-
NRE	-	-	9.999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Testing	-	-	13.247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integration	-	-	140.372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAT	-	-	1.218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Engineering	-	-	1.125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMO Ops	-	-	12.487	-	-	-	-	-	-	-	-	-	-	0.500	-	-	0.500	-
MODII systems purchase ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	200.000	187	37.400	200.000	187	37.400
Subtotal: Recurring Cost	-	-	1,490.561	-	-	-	-	-	-	-	-	0.000	-	-	39.770	-	-	39.770
Subtotal: Flyaway Cost	-	-	1,490.561	-	-	-	-	-	-	-	-	0.000	-	-	39.770	-	-	39.770

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83						P-1 Line Item Number / Title: 8490VA8000 / CREW						Item Number / Title [DODIC]: VA8000 / CREW					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Non Recurring Cost																		
Loadset development and MODI II range costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.770	-	-	0.770
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.770	-	-	0.770
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.770	-	-	0.770
Package Fielding Cost																		
Non Recurring Cost																		
MODI II Fielding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.111	-	-	2.111
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	2.111	-	-	2.111
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	2.111	-	-	2.111
Gross/Weapon System Cost	-	-	1,490.561	-	-	-	-	-	-	-	-	-	-	-	42.651	-	-	42.651

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	0.000	42.651	42.651
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	-	42.651	42.651

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8490VA8000 / CREW	Item Number / Title [DODIC]: VA8000 / CREW
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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
MODI II systems purchase ^(†)	✓	2019	TBD / TBD	Option / FFP	TBD	Jan 2019	Sep 2019	187	200.000			

^(†) indicates the presence of a P-21

Remarks:

Product Director Electronic Attack (PD EA) is pursuing U.S. Special Operations Command (USSOCOM) Contract vehicle for procurement of MODI II. This contract is in the final award stages as of the date of this form.

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8490VA8000 / CREW	Item Number / Title [DODIC]: VA8000 / CREW
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE			
O C 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		
MODI II systems purchase																																	
✓	1	2019	ARMY	187	0	187				A	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16	16	16	16	11	0	

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Exhibit P-21, Production Schedule: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 8490VA8000 / CREW	Item Number / Title [DODIC]: VA8000 / CREW
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	50	100	0	9	0	9	0	9	0	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	10	-	16	16	-	-	-	-	-	26
Gross/Weapon System Cost (<i>\$ in Millions</i>)	143.952	34.541	16.935	-	20.050	20.050	-	-	-	-	-	215.478
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	143.952	34.541	16.935	-	20.050	20.050	-	-	-	-	-	215.478
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	143.952	34.541	16.935	-	20.050	20.050	-	-	-	-	-	215.478

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	1,693.500	-	1,253.125	1,253.125	-	-	-	-	-	8,287.615

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	10	0	16	16	-	-	-	-
Total Obligation Authority	34.541	16.935	0.000	20.050	20.050	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)					P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Total:	Quantity	-	10	0	16	16	-	-	-	-
Secondary Distribution	Total Obligation Authority	34.541	16.935	-	20.050	20.050	-	-	-	-

Empty content area for justification details										
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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BL5287 / Family Of Persistent Surveillance Capabilities	P-5a, P-21	A		- / 143.952	- / 34.541	10 / 16.935	- / -	16 / 20.050	16 / 20.050
P-40	Total Gross/Weapon System Cost				- / 143.952	- / 34.541	10 / 16.935	- / -	16 / 20.050	16 / 20.050

*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 2019 Overseas Contingency Operations (OCO) Other Procurement Army (OPA) dollars in the amount of \$20.050 million supports Operation Freedom's Sentinel (OFS) and Operation Inherent Resolve (OIR). \$14.322 million provides high dollar spares to support systems in OFS and \$5.728 million provides for high dollar spares to support systems in OIR. High dollar spare kits include an Aerostat Envelope, Baseline Avionics Kit and MX Intelligence, Surveillance and Reconnaissance (ISR) cameras. Starting in FY 2018 Procurement Quantity (Units in Each) are based on Aerostat Envelope purchases.

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 2019 Army													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83						P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities						Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total				
Procurement Quantity (Units in Each)				-		-		10		-		16		16				
Gross/Weapon System Cost (\$ in Millions)				143.952		34.541		16.935		-		20.050		20.050				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				143.952		34.541		16.935		-		20.050		20.050				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				143.952		34.541		16.935		-		20.050		20.050				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		1,693.500		-		1,253.125		1,253.125				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Aerostat Envelope ^(†)	7,380.188	16	118.083	876.000	12	10.512	861.400	10	8.614	-	-	-	861.500	16	13.784	861.500	16	13.784
Baseline Avionics Kits ^(†)	494.000	12	5.928	379.800	10	3.798	358.692	13	4.663	-	-	-	359.167	12	4.310	359.167	12	4.310
Tactical Common Data Link ^(†)	503.000	12	6.036	268.000	5	1.340	-	-	-	-	-	-	-	-	-	-	-	-
Pressurization Avionics Unit ^(†)	251.500	6	1.509	281.000	5	1.405	-	-	-	-	-	-	-	-	-	-	-	-
High Antenna Radio Communications (B-Kit) ^(†)	-	-	-	335.000	5	1.675	-	-	-	-	-	-	-	-	-	-	-	-
ISR Turret (MX-15)	1,800.000	4	7.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Envelope replacements ^(†)	866.000	6	5.196	415.000	1	0.415	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Office Support	-	-	-	-	-	1.740	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	143.952	-	-	20.885	-	-	13.277	-	-	0.000	-	-	18.094	-	-	18.094
<i>Subtotal: Flyaway Cost</i>	-	-	143.952	-	-	20.885	-	-	13.277	-	-	0.000	-	-	18.094	-	-	18.094
Hardware Cost																		
Non Recurring Cost																		
ISR Turret (MX-25) ^(†)	-	-	-	1,707.000	8	13.656	1,829.000	2	3.658	-	-	-	1,956.000	1	1.956	1,956.000	1	1.956

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83		P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities		

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	-	-	-	13.656	-	-	3.658	-	-	0.000	-	-	1.956	-	-	1.956
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	13.656	-	-	3.658	-	-	0.000	-	-	1.956	-	-	1.956
Gross/Weapon System Cost	-	-	143.952	-	-	34.541	1,693.500	10	16.935	-	-	-	1,253.125	16	20.050	1,253.125	16	20.050

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	10	0	16	16
	Total Obligation Authority	34.541	16.935	0.000	20.050	20.050
Total:	Quantity	-	10	-	16	16
Secondary Distribution	Total Obligation Authority	34.541	16.935	-	20.050	20.050

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 9926BL5287 / 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 ^(t)		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Nov 2016	8	804.000			
Aerostat Envelope ^(t)		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Nov 2017	12	876.000			
Aerostat Envelope ^(t)		2018	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG, MD	Mar 2018	Oct 2018	10	861.400	Y		
Aerostat Envelope ^(t)	✓	2019	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG,MD	Mar 2019	Oct 2019	16	861.500	Y		
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	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Nov 2017	10	379.800			
Baseline Avionics Kits		2018	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG, MD	Mar 2018	Dec 2018	13	358.690	Y		
Baseline Avionics Kits	✓	2019	Bravura Information Technology / Aberdeen, MD	Option / FFP	ACC-APG: APG,MD	Mar 2019	Dec 2019	12	359.170	Y		
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	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	May 2018	5	268.000			
Pressurization Avionics Unit		2016	Lockheed Martin / Akron, OH	SS / FFP	ACC-APG: APG, MD	Mar 2016	Sep 2016	6	241.000			
Pressurization Avionics Unit		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Sep 2017	5	281.000			
High Antenna Radio Communications (B-Kit)		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Aug 2018	5	335.000			
Envelope replacements		2016	TCOM / Elizabeth City, NC	SS / FFP	NAVAIR: Lakehurst NJ	Mar 2016	Aug 2016	1	410.000			
Envelope replacements		2017	Bravura Information Technology / Aberdeen, MD	C / FFP	ACC-APG: APG, MD	Mar 2017	Aug 2017	1	415.000			
ISR Turret (MX-25)		2017	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG, MD	Aug 2017	Feb 2018	8	1,707.000	Y		
ISR Turret (MX-25)		2018	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG, MD	Jun 2018	Dec 2018	2	1,829.000	Y		
ISR Turret (MX-25)	✓	2019	L-3 Wescam / Burlington, ON	SS / FFP	ACC-APG: APG,MD	Aug 2019	Feb 2020	1	1,956.000	Y		

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

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83	P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities	Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities

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
Aerostat Envelope																															
Prior Years Deliveries: 8																															
	1	2016	ARMY	8	0	8																							0		
	2	2017	ARMY	12	0	12																							12		
	2	2018	ARMY	10	0	10																							10		
✓	2	2019	ARMY	16	0	16																							16		

O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83										P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities										Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities				

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			
Aerostat Envelope																																	
Prior Years Deliveries: 8																																	
	1	2016	ARMY	8	8	0																							0				
	2	2017	ARMY	12	0	12	-	6	-	6																			0				
	2	2018	ARMY	10	0	10																							0				
✓	2	2019	ARMY	16	0	16																							16				

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83										P-1 Line Item Number / Title: 9926BL5287 / Family Of Persistent Surveillance Capabilities										Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020										Fiscal Year 2021										BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G	S E P
Aerostat Envelope																														
Prior Years Deliveries: 8																														
	1	2016	ARMY	8	8	0																							0	
	2	2017	ARMY	12	12	0																							0	
	2	2018	ARMY	10	10	0																							0	
✓	2	2019	ARMY	16	0	16	1	2	2	2	2	2	2	2	2	1													0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83		P-1 Line Item Number / Title: 9926BL5287 / 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 2019	1-8-5 For 2019	MAX For 2019	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 - Akron, OH	1	25	50	0	0	0	0	0	0	0	0	0
2	Bravura Information Technology - Aberdeen, MD	1	40	100	0	2	3	5	0	0	0	0	0

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9996BL5283 / Counterintelligence/Security Countermeasures
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,853.302	24.345	19.343	-	12.974	12.974	0.501	-	0.517	-	-	1,910.982
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,853.302	24.345	19.343	-	12.974	12.974	0.501	-	0.517	-	-	1,910.982
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,853.302	24.345	19.343	-	12.974	12.974	0.501	-	0.517	-	-	1,910.982

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 is IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

OCO: This requirement provides for Counterintelligence/Human Intelligence (CI/HUMINT) Communication Enablers.

OCO: Program is used to support operations by deployed Multi-functional teams (MfTs) and Identity Intelligence personnel. The Vigilant Pursuit (VP) capability provides multi-intelligence collection, exploitation, and analytic capabilities, delivering timely, relevant, actionable intelligence to facilitate decision making at the tactical edge. VP supports mission overwatch in the target area of interest by immediate triage of data on the objective, time-sensitive detection, and the cross tipping/cueing of HUMINT and Signals Intelligence (SIGINT). A VP system currently consists of 2 vehicles with integrated Multiple Intelligence (Multi-INT) Collection, Processing, Exploitation, and Dissemination capability packages.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	24.345	19.343	0.000	12.974	12.974	0.501	-	0.517	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	24.345	19.343	-	12.974	12.974	0.501	-	0.517	-

Justification:

FY2019 OCO procurement funding in the amount of \$3.002 million provides resources for the procurement of mission critical hardware and systems, including deployable counterintelligence and HUMINT communications and threat equipment including non-MTOE automation equipment that is required by deployed CI and HUMINT soldiers.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)		P-1 Line Item Number / Title: 9996BL5283 / Counterintelligence/Security Countermeasures
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>FY2019 OCO procurement funding in the amount of \$9.972 million is required to refit 5 sets (10 total vehicles) of equipment for employment against ever changing communications and emitter capabilities. This funding purchases commercial components of hardware packages necessary to upgrade and refactor the Multi-Int capabilities to collect against continually changing threats. This procurement also allows for the refactoring of the capability package to be installed on different vehicle types and allows units to tailor the hardware to support mission or concept of support specific requirements.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)	P-1 Line Item Number / Title: 9997BL5285 / CI Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.088	0.176	0.285	0.486	-	0.486	0.121	0.300	0.165	0.492	-	11.113
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.088	0.176	0.285	0.486	-	0.486	0.121	0.300	0.165	0.492	-	11.113
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.088	0.176	0.285	0.486	-	0.486	0.121	0.300	0.165	0.492	-	11.113

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

HQDA G-2 and the Intelligence and Security Command (INSCOM) Security Operations Center (ISOC) are charged with integrating, informing, and leveraging security and counterintelligence authorities in support of the Department of the Army Insider Threat Program mission to continuously deter, detect, and mitigate insider threats to Army information, networks, facilities, and personnel. Equipment/Hardware systems support Intel and security lines of effort that provide data and information to the Army Insider Threat Program.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.176	0.285	0.486	-	0.486	0.121	0.300	0.165	0.492
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.176	0.285	0.486	-	0.486	0.121	0.300	0.165	0.492

Justification:

FY 2019 Base Funding is in the amount of \$0.161 million procures lifecycle Automated Data Processing (ADP) Capital Equipment Replacement Program (CERP) support and communications equipment for worldwide Army Counterintelligence (CI) operations conducted by over 1,200 personnel.

FY 2019 Base Funding is in the amount of \$0.325 million procures Equipment/Hardware for the Insider Threat Management Program for G-2.

"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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)		P-1 Line Item Number / Title: 9997BL5285 / CI Modernization
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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0214400A, 0604820A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	421.820	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	421.820	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	421.820	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488	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>)	3,013.000	201.864	303.096	1,625.082	-	1,625.082	2,232.419	727.787	447.000	1,499.733	Continuing	Continuing

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-64A3) consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe (IFF), and Forward Area Air Defense (FAAD) Command, Control and Intelligence (C2I) interfaces. The radar is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar (C-RAM) missions. The sensor is 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]. 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	22.741	22.105	61.330	-	61.330	116.943	65.117	34.858	50.964
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	17.430	6.386	18.299	-	18.299	21.467	27.312	33.980	16.524
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0214400A, 0604820A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	WK5057 / Sentinel Mods (Operational)				- / 421.820	- / 40.171	- / 28.491	- / 79.629	- / -	- / 79.629
P-40	Total Gross/Weapon System Cost				- / 421.820	- / 40.171	- / 28.491	- / 79.629	- / -	- / 79.629

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	WK5057 / Sentinel Mods (Operational)				- / 138.410	- / 92.429	- / 68.838	- / 67.488	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 138.410	- / 92.429	- / 68.838	- / 67.488	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 2019 Base procurement dollars in the amount of \$79.629 million procures 42 Analog to Digital Converters (ADC), 42 Signal Data Processor (SDP) kits and 7 new production AN/MPQ-64A3 radars 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	421.820	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	421.820	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	421.820	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488	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>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	3,013.000	201.864	303.096	1,625.082	-	1,625.082	2,232.419	727.787	447.000	1,499.733	Continuing	Continuing

Description:

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 modify the current Sentinel prime mover to a common Army platform to meet Brigade Combat Team (BCT) force protection, as well as meet Integrated Air and Missile Defense Battle Command System (IBCS) system requirements. Transition to a common Army platform is in compliance with Acquisition Decision Memorandum dated August 2011. The current Sentinel platform does not meet the force protection requirements as defined by the BCT maneuver mission and IBCS operational requirements.

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 procures Analog to Digital Converters (ADC) in order to address more extensive EA/EP signatures from evolving threats.

The Signal Data Processor (SDP) Upgrade is a redesign of the SDP backplane to provide higher data throughput to remove current limitations and an upgraded set of SDP cards to remove obsolescence. Provides for new SDP kit to address obsolescence issues and allow for additional Electronic Protect capability.

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Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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 identifying the aircraft and correlating Sentinel tracks with civil aviation tracks/data and other track data sources. Incorporates the Resiliency and Software Assurance Modification (RSAM) to address the delayed M-Code Global Positioning System (GPS) capability requirement with the new interrogator.

The Adjunct Sensor effort will upgrade existing Sentinel capabilities to provide additional technology for the detection and identification of current and emerging threats. The Adjunct sensor improves system performance and reduces adversary countermeasure abilities by improving system electronic protect capabilities.

The Enhanced Sentinel [AN/MPQ-64A3] consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe [IFF], and Forward Area Air Defense [FAAD] Command, Control and Intelligence [C2] interfaces. The radar is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar [C-RAM] missions. The sensor is advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. The Enhanced Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols and enemy countermeasures. It provides 360-degree azimuth coverage for acquisition tracking. The Enhanced Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying and reporting targets [cruise missiles, unmanned aerial systems, rotary wing and fixed wing aircraft]. Enhanced Sentinel acquires targets sufficiently forward of the battle area to allow weapons reaction time and engagement at optimum ranges. The Sentinel's integrated IFF reduces the potential for fratricide of US and Coalition aircraft. Additional procurement of new radars to support Interim Maneuver Short-Range Air Defense (IM-SHORAD) Battalions.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	22.741	22.105	61.330	-	61.330	116.943	65.117	34.858	50.964
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.430	6.386	18.299	-	18.299	21.467	27.312	33.980	16.524
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods					Modification Number / Title: WK5057 / Sentinel Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Sentinel [AN/MPQ-64]				Modification Type: Operational				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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													
Modification Item 1 of 10: Improved Sentinel													
A Kits													
Recurring													
Equipment	143 / 228.092	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	143 / 228.092	
Engineering Services	- / 1.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.822	
Govt Program Management/Admin Support	- / 1.746	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.746	
Other Flyaway Support	- / 5.484	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.484	
Subtotal: Recurring	143 / 237.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 237.144	
Subtotal: Improved Sentinel	143 / 237.144	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	143 / 237.144	
Modification Item 2 of 10: TPX-57 (Mode 5 IFF)													
A Kits													
Recurring													
Equipment	143 / 81.013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	143 / 81.013	
Engineering Services	- / 1.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.871	
Govt Program Management/Admin Support	- / 4.449	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.449	
Other Flyaway Support	- / 10.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.768	
Initial Spares	- / 6.760	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.760	
Subtotal: Recurring	143 / 104.861	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 104.861	
Subtotal: TPX-57 (Mode 5 IFF)	143 / 104.861	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	143 / 104.861	
Modification Item 3 of 10: Common Platform Upgrade													
A Kits													
Recurring													
Equipment	147 / 58.238	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	147 / 58.238	
Engineering Services	- / 0.970	- / 0.133	- / 0.120	- / 0.019	- / -	- / 0.019	- / -	- / -	- / -	- / -	- / 0.000	- / 1.242	
Govt Program Management/Admin Support	- / 3.542	- / 0.043	- / 0.043	- / 0.027	- / -	- / 0.027	- / -	- / -	- / -	- / -	- / 0.000	- / 3.655	
Other Flyaway Support	- / 8.625	- / 0.530	- / 0.540	- / 0.366	- / -	- / 0.366	- / -	- / -	- / -	- / -	- / 0.000	- / 10.061	
Initial Spares	- / 2.744	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.744	
Subtotal: Recurring	147 / 74.119	- / 0.706	- / 0.703	- / 0.412	- / -	- / 0.412	- / -	- / -	- / -	- / -	- / -	147 / 75.940	
Subtotal: Common Platform Upgrade	147 / 74.119	- / 0.706	- / 0.703	- / 0.412	- / -	- / 0.412	- / -	- / -	- / -	- / -	- / -	147 / 75.940	
Modification Item 4 of 10: North Finding Module													
A Kits													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods					Modification Number / Title: WK5057 / Sentinel Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Sentinel [AN/MPQ-64]				Modification Type: Operational				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Recurring													
Equipment	- / -	199 / 31.180	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	199 / 31.180	
Engineering Services	- / -	- / 0.756	- / 0.120	- / 0.029	- / -	- / 0.029	- / 0.174	- / -	- / -	- / -	- / 0.000	- / 1.079	
Govt Program Management / Admin Support	- / -	- / 1.828	- / 0.074	- / 0.120	- / -	- / 0.120	- / 0.046	- / -	- / -	- / -	- / 0.000	- / 2.068	
Other Flyaway Support	- / -	- / 4.645	- / 0.540	- / 0.549	- / -	- / 0.549	- / 0.559	- / -	- / -	- / -	- / 0.000	- / 6.293	
Initial Spares	- / -	- / 0.731	- / 0.744	- / 1.061	- / -	- / 1.061	- / -	- / -	- / -	- / -	- / 0.000	- / 2.536	
Subtotal: Recurring	- / -	199 / 39.140	- / 1.478	- / 1.759	- / -	- / 1.759	- / 0.779	- / -	- / -	- / -	- / -	199 / 43.156	
Subtotal: North Finding Module	- / -	199 / 39.140	- / 1.478	- / 1.759	- / -	- / 1.759	- / 0.779	- / -	- / -	- / -	- / -	199 / 43.156	
Modification Item 5 of 10: Electronic Attack/Electronic Protect (ADC)													
A Kits													
Recurring													
Equipment	- / -	- / -	31 / 0.731	42 / 1.007	- / -	42 / 1.007	50 / 1.221	42 / 1.043	34 / 0.860	- / -	- / 0.000	199 / 4.862	
Engineering Services	- / -	- / -	- / 0.279	- / 0.077	- / -	- / 0.077	- / 0.521	- / 0.306	- / 0.591	- / 0.113	- / 0.000	- / 1.887	
Govt Program Management	- / -	- / -	- / 0.103	- / 0.088	- / -	- / 0.088	- / 0.117	- / 0.098	- / 0.099	- / 0.045	- / 0.000	- / 0.550	
Other Flyaway Costs	- / -	- / -	- / 1.297	- / 0.724	- / -	- / 0.724	- / 0.832	- / 0.629	- / 0.629	- / 0.450	- / 0.000	- / 4.561	
Initial Spares	- / -	- / -	- / 0.034	- / 0.047	- / -	- / 0.047	- / 0.057	- / 0.048	- / 0.040	- / -	- / 0.000	- / 0.226	
Subtotal: Recurring	- / -	- / -	31 / 2.444	42 / 1.943	- / -	42 / 1.943	50 / 2.748	42 / 2.124	34 / 2.219	- / 0.608	- / -	199 / 12.086	
Subtotal: Electronic Attack/Electronic Protect (ADC)	- / -	- / -	31 / 2.444	42 / 1.943	- / -	42 / 1.943	50 / 2.748	42 / 2.124	34 / 2.219	- / 0.608	- / -	199 / 12.086	
Modification Item 6 of 10: Signal Data Processor													
A Kits													
Recurring													
Equipment	- / -	- / -	31 / 18.860	42 / 25.412	- / -	42 / 25.412	50 / 30.467	42 / 26.334	34 / 22.345	- / -	- / 0.000	199 / 123.418	
Engineering Services	- / -	- / -	- / 0.279	- / 0.067	- / -	- / 0.067	- / 0.463	- / 0.315	- / 0.609	- / 0.113	- / 0.000	- / 1.846	
Govt Program Management	- / -	- / -	- / 1.099	- / 1.425	- / -	- / 1.425	- / 1.828	- / 1.596	- / 1.471	- / 0.253	- / 0.000	- / 7.672	
Other Flyaway Support	- / -	- / -	- / 2.252	- / 1.924	- / -	- / 1.924	- / 2.287	- / 1.977	- / 1.762	- / 0.450	- / 0.000	- / 10.652	
Initial Spares	- / -	- / -	- / 0.874	- / 1.177	- / -	- / 1.177	- / 1.411	- / 1.220	- / 1.021	- / -	- / 0.000	- / 5.703	
Subtotal: Recurring	- / -	- / -	31 / 23.364	42 / 30.005	- / -	42 / 30.005	50 / 36.456	42 / 31.442	34 / 27.208	- / 0.816	- / -	199 / 149.291	
Subtotal: Signal Data Processor	- / -	- / -	31 / 23.364	42 / 30.005	- / -	42 / 30.005	50 / 36.456	42 / 31.442	34 / 27.208	- / 0.816	- / -	199 / 149.291	
Modification Item 7 of 10: Mode S													
A Kits													
Recurring													
Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 19.513	120 / 28.574	- / -	- / 0.000	199 / 48.087	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods					Modification Number / Title: WK5057 / Sentinel Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Sentinel [AN/MPQ-64]				Modification Type: Operational				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.306	- / 0.591	- / 0.113	- / 0.000	- / 1.010	
Govt Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.101	- / 1.322	- / 0.046	- / 0.025	- / 2.494	
Other Flyaway Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.601	- / 2.088	- / 0.450	- / 0.000	- / 4.139	
Initial Spares	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.904	- / 1.323	- / -	- / 0.000	- / 2.227	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 23.425	120 / 33.898	- / 0.609	- / 0.025	199 / 57.957	
Subtotal: Mode S	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	79 / 23.425	120 / 33.898	- / 0.609	- / 0.025	199 / 57.957	
Modification Item 8 of 10: Adjunct Sensor													
A Kits													
Recurring													
Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 32.614	Continuing	Continuing
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.113	Continuing	Continuing
Govt Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.815	Continuing	Continuing
Other Flyaway Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.167	Continuing	Continuing
Initial Spares	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.511	Continuing	Continuing
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 38.220	Continuing	Continuing
Subtotal: Adjunct Sensor	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	45 / 38.220	Continuing	Continuing
Modification Item 9 of 10: Active Electronically Scanned Array (AESA) A4													
A Kits													
Recurring													
Equipment (Long Lead to support LRIP)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.100	Continuing	Continuing
Government Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.603	Continuing	Continuing
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.703	Continuing	Continuing
Subtotal: Active Electronically Scanned Array (AESA) A4	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / 21.703	Continuing	Continuing
Modification Item 10 of 10: AN/MPQ-64A3 Production													
A Kits													
Recurring													
Equipment	- / -	- / -	- / -	7 / 34.133	- / -	7 / 34.133	15 / 73.498	6 / 25.852	- / -	- / -	- / 0.000	28 / 133.483	
Engineering Services	- / -	- / -	- / -	- / 0.315	- / -	- / 0.315	- / 0.675	- / 0.232	- / -	- / -	- / 0.000	- / 1.222	
Govt Program Management	- / -	- / -	- / -	- / 2.142	- / -	- / 2.142	- / 4.591	- / 1.575	- / -	- / -	- / 0.000	- / 8.308	
Initial Spares	- / -	- / -	- / -	- / 2.228	- / -	- / 2.228	- / 4.774	- / 1.638	- / -	- / -	- / 0.000	- / 8.640	
Other Flyaway Support	- / -	- / -	- / -	- / 5.734	- / -	- / 5.734	- / 11.938	- / 3.467	- / -	- / -	- / 0.000	- / 21.139	

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Exhibit P-3a, Individual Modification: PB 2019 Army										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86					P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods					Modification Number / Title: WK5057 / Sentinel Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Sentinel [AN/MPQ-64]				Modification Type: Operational				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	7 / 44.552	- / -	7 / 44.552	15 / 95.476	6 / 32.764	- / -	- / -	- / -	28 / 172.792	
<i>Subtotal: AN/MPQ-64A3 Production</i>	- / -	- / -	- / -	7 / 44.552	- / -	7 / 44.552	15 / 95.476	6 / 32.764	- / -	- / -	- / -	28 / 172.792	
<i>Subtotal: Procurement, All Modification Items</i>	433 / 416.124	199 / 39.846	62 / 27.989	91 / 78.671	- / -	91 / 78.671	115 / 135.459	169 / 89.755	188 / 63.325	45 / 61.956	Continuing	Continuing	
Installation													
<i>Modification Item 1 of 10: Improved Sentinel</i>	143 / 4.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 4.481	
<i>Modification Item 2 of 10: TPX-57 (Mode 5 IFF)</i>	143 / 1.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 1.001	
<i>Modification Item 3 of 10: Common Platform Upgrade</i>	22 / 0.214	48 / 0.325	48 / 0.309	29 / 0.174	- / -	29 / 0.174	- / -	- / -	- / -	- / -	- / -	147 / 1.022	
<i>Modification Item 4 of 10: North Finding Module</i>	- / -	- / -	30 / 0.193	120 / 0.784	- / -	120 / 0.784	49 / 0.326	- / -	- / -	- / -	- / -	199 / 1.303	
<i>Modification Item 5 of 10: Electronic Attack/Electronic Protect (ADC)</i>	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.233	31 / 0.238	61 / 0.448	42 / 0.449	Continuing	Continuing	
<i>Modification Item 6 of 10: Signal Data Processor</i>	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.392	31 / 2.436	61 / 4.605	42 / 4.615	Continuing	Continuing	
<i>Modification Item 7 of 10: Mode S</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 0.460	103 / 0.468	Continuing	Continuing	
<i>Subtotal: Installation</i>	308 / 5.696	48 / 0.325	78 / 0.502	149 / 0.958	0 / 0.000	149 / 0.958	111 / 2.951	62 / 2.674	188 / 5.513	187 / 5.532	Continuing	Continuing	
Total													
Total Cost (Procurement + Support + Installation)	421.820	40.171	28.491	79.629	-	79.629	138.410	92.429	68.838	67.488	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 10: 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	143 / 4.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 4.481
Total	143 / 4.481	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	143 / 4.481

Installation Schedule

PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 10: 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 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 / 1.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 1.001
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	143 / 1.001	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	143 / 1.001

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 10: Common Platform Upgrade

Manufacturer Information

Manufacturer Name: Letterkenny Army Depot	Manufacturer Location: Chambersburg, PA
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15
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	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Dates							
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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)
Installation Cost												
Prior Years	22 / 0.214	48 / 0.325	12 / 0.077	29 / 0.174	- / -	29 / 0.174	- / -	- / -	- / -	- / -	- / -	111 / 0.790
FY 2017	- / -	- / -	36 / 0.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.232
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	22 / 0.214	48 / 0.325	48 / 0.309	29 / 0.174	0 / 0.000	29 / 0.174	- / -	- / -	- / -	- / -	- / -	147 / 1.022

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	12	12	12	12	12	12	12	12	12	12	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	22	12	12	12	12	12	12	12	12	12	12	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 4 of 10: North Finding Module

Manufacturer Information

Manufacturer Name: Honeywell	Manufacturer Location: Clearwater, Fl
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jun 2017						
Delivery Dates	Jun 2018						

Installation Information

Method of Implementation: Field Install

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	30 / 0.193	120 / 0.784	- / -	120 / 0.784	49 / 0.326	- / -	- / -	- / -	- / -	199 / 1.303
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	30 / 0.193	120 / 0.784	0 / 0.000	120 / 0.784	49 / 0.326	- / -	- / -	- / -	- / -	199 / 1.303

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	15	15	30	30	30	30	30	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	15	15	30	30	30	30	30	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 5 of 10: Electronic Attack/Electronic Protect (ADC)

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 15

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	
Delivery Dates		Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023	

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.233	- / -	- / -	- / -	- / -	31 / 0.233
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.238	11 / 0.081	- / -	- / -	42 / 0.319
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.367	- / -	- / -	50 / 0.367
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.449	- / -	42 / 0.449
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	31 / 0.233	31 / 0.238	61 / 0.448	42 / 0.449	Continuing	Continuing

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	7	8	8	8	7	20	15	12	14	10	10	10	12	34	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	7	8	8	8	7	20	15	12	14	10	10	10	12	34	199

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 6 of 10: Signal Data Processor

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 15

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	
Delivery Dates		Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023	

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.392	- / -	- / -	- / -	- / -	31 / 2.392
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.436	11 / 0.830	- / -	- / -	42 / 3.266
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 3.775	- / -	- / -	50 / 3.775
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 4.615	- / -	42 / 4.615
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	31 / 2.392	31 / 2.436	61 / 4.605	42 / 4.615	Continuing	Continuing

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	7	8	8	8	7	20	15	12	14	10	10	10	12	34	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	7	8	8	8	7	20	15	12	14	10	10	10	12	34	199

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 7 of 10: Mode S

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Fullerton, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates					Jan 2021	Jan 2022	
Delivery Dates					Jan 2022	Jan 2023	

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 0.460	13 / 0.059	- / -	79 / 0.519
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 0.409	Continuing	Continuing
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	66 / 0.460	103 / 0.468	Continuing	Continuing

Installation Schedule

PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	22	13	30	30	30	30	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22	22	13	30	30	30	30	199

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 8 of 10: Adjunct Sensor

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							Jan 2023
Delivery Dates							Jan 2024

Installation Information

Method of Implementation: Field Install

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	0 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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-3a, Individual Modification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods	Modification Number / Title: WK5057 / Sentinel Mods
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 9 of 10: Active Electronically Scanned Array (AESAs) A4

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 15

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates							Jan 2023
Delivery Dates							Apr 2024

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	0 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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

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Exhibit P-3a, Individual Modification: PB 2019 Army					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0125WK5057 / Sentinel Mods			Modification Number / Title: WK5057 / Sentinel Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 10 of 10: AN/MPQ-64A3 Production							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Fullerton, CA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Apr 2019	Apr 2020	Apr 2021		
Delivery Dates			Apr 2020	Apr 2021	Apr 2022		
Installation Information							
Method of Implementation (Organic): Contractor Facility					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	12,364	9,149	13,204	7,438	14	7,452	6,270	2,605	2,539	4,723	-	58,306
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,193.999	152.170	166.870	153.180	0.463	153.643	132.339	84.657	82.919	140.417	-	5,107.014
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,193.999	152.170	166.870	153.180	0.463	153.643	132.339	84.657	82.919	140.417	-	5,107.014
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,193.999	152.170	166.870	153.180	0.463	153.643	132.339	84.657	82.919	140.417	-	5,107.014

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	339.211	16.632	12.638	20.594	33.071	20.618	21.107	32.498	32.658	29.730	-	87.590

Description:

Night Vision Devices (KA3500) is a summary budget line including the following programs:

- (1) K36400 - The 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 and integrates the sight picture/reticle from the Family of Weapon Sights - Individual (FWS-I) and operational graphics from NETT Warrior into the ENVG. 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 ENVG supports the tactical level of war; enabling the individual Soldier to see, understand, and act first; permitting superior tactical mobility and decisive engagement during limited visibility conditions.
- (2) B53800 - This program provides funding to procure the Laser Target Locator Module (LTLM). LTLM is a lightweight, handheld, laser target locator module with day and thermal sight capability as well as an internal Global Positioning System (GPS) receiver. LTLM provides the dismounted observer or Scout a fully digital, handheld system to accurately determine target location and the ability of call for fire during all weather and lighting conditions. LTLM improves speed, accuracy, and safety of use over previous systems of this type (e.g., Laser Target Locator System (LTLS)).
- (3) K36401- The Monocular Night Vision Device (MNVD) is a lightweight, handheld or head/helmet-mounted night vision goggle consisting of a single objective lens assembly, state-of-the-art image intensifier technology, and an eyepiece lens assembly. The MNVD 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.

The ENVG Army Acquisition Objective (AAO) is 66,277; the Army Procurement Objective (APO) is 75,354.

The LTLM AAO is 13,012.

The MNVD AAO is 506,713.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	6,461	9,788	5,457	14	5,471	5,686	1,982	2,071	4,171
	Total Obligation Authority	108.744	120.125	92.849	0.463	93.312	109.428	60.524	63.474	118.271
ANG	Quantity	2,688	3,416	1,981	-	1,981	403	623	468	552

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
	Total Obligation Authority	43.426	46.745	60.331	-	60.331	17.721	24.133	19.445	22.146
AR	Quantity	-	-	-	-	-	181	-	-	-
	Total Obligation Authority	-	-	-	-	-	5.190	-	-	-
Total:	Quantity	9,149	13,204	7,438	14	7,452	6,270	2,605	2,539	4,723
Secondary Distribution	Total Obligation Authority	152.170	166.870	153.180	0.463	153.643	132.339	84.657	82.919	140.417

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0140KA3500 / Night Vision Devices

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604710A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B53800 / Laser Target Locator Systems	P-5a, P-21	A		751 / 871.313	949 / 33.983	514 / 22.226	955 / 34.960	12 / 0.436	967 / 35.396
P-5	K36400 / Helmet Mounted Enhanced Vision Devices	P-5a, P-21			11,613 / 3,322.686	8,200 / 118.187	12,690 / 144.644	4,039 / 109.724	2 / 0.027	4,041 / 109.751
P-5	K36401 / Night Vision AN/PVS-14 Mods	P-5a, P-21			- / -	- / -	- / -	2,444 / 8.496	- / -	2,444 / 8.496
P-40	Total Gross/Weapon System Cost				12,364 / 4,193.999	9,149 / 152.170	13,204 / 166.870	7,438 / 153.180	14 / 0.463	7,452 / 153.643

*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 2019 Base procurement dollars in the amount of \$153.180 million supports the procurement of 4,039 Enhanced Night Vision Goggles, 955 Laser Target Location Modules, 2,444 Monocular Night Vision Devices and associated fielding costs.

FY 2019 OCO procurement dollars in the amount of \$0.463 million supports the procurement of two reset (2) Enhanced Night Vision Goggles and ten (12) reset Laser Target Location Modules for equipment replacement.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	751	949	514	955	12	967
Gross/Weapon System Cost (\$ in Millions)	871.313	33.983	22.226	34.960	0.436	35.396
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	871.313	33.983	22.226	34.960	0.436	35.396
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	871.313	33.983	22.226	34.960	0.436	35.396

(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)	1,160.204	35.809	43.241	36.607	36.333	36.604

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	95.002	8,621	819.010	28.995	949	27.516	34.755	514	17.864	29.329	955	28.009	29.333	12	0.352	29.329	967	28.361
Tripods	-	-	7.549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Project Management	-	-	35.499	-	-	3.221	-	-	2.101	-	-	3.205	-	-	-	-	-	3.205
Systems Engineering Support	-	-	4.353	-	-	2.060	-	-	1.721	-	-	1.750	-	-	-	-	-	1.750
Fielding and NET	-	-	4.902	-	-	0.878	-	-	0.540	-	-	1.004	-	-	-	-	-	1.004
Ancillary Spares	-	-	-	0.067	4,600	0.307	-	-	-	-	-	0.992	-	-	0.084	-	-	1.076
<i>Subtotal: Recurring Cost</i>	-	-	<i>871.315</i>	-	-	<i>33.983</i>	-	-	<i>22.226</i>	-	-	<i>34.960</i>	-	-	<i>0.436</i>	-	-	<i>35.396</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>871.315</i>	-	-	<i>33.983</i>	-	-	<i>22.226</i>	-	-	<i>34.960</i>	-	-	<i>0.436</i>	-	-	<i>35.396</i>
Gross/Weapon System Cost	1,160.204	751	871.313	35.809	949	33.983	43.241	514	22.226	36.607	955	34.960	36.333	12	0.436	36.604	967	35.396

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	730	270	307	12	319
	Total Obligation Authority	26.143	11.635	10.838	0.436	11.274
ANG	Quantity	219	244	648	-	648
	Total Obligation Authority	7.840	10.591	24.122	-	24.122
Total:	Quantity	949	514	955	12	967

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Exhibit P-5, Cost Analysis: PB 2019 Army				Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices		Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems		
ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:			
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution	Total Obligation Authority	33.983	22.226	34.960	0.436	35.396

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Laser Target Locator ^(†)		2017	Optics 1, Inc / Bedford, NH	C / IDIQ	ACC APG	Jun 2017	Nov 2017	949	29.000	Y		
Laser Target Locator ^(†)		2018	Optics 1, Inc / Bedford, NH	C / IDIQ	ACC APG	Apr 2018	Sep 2018	514	34.760	Y		
Laser Target Locator ^(†)		2019	Optics 1, Inc / Bedford, NH	C / IDIQ	ACC APG	Apr 2019	Sep 2019	967	29.330	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** 0140KA3500 / Night Vision Devices **Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018													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 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			
Laser Target Locator																																	
Prior Years Deliveries: 8621																																	
	1	2017	ARMY	949	0	949																											
	1	2018	ARMY	514	0	514																											
	1	2019	ARMY	967	0	967																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												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 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				
Laser Target Locator																																			
Prior Years Deliveries: 8621																																			
	1	2017	ARMY	949	865	84	84																						0						
	1	2018	ARMY	514	5	509	16	90	59	43	43	43	43	43	43	43													0						
	1	2019	ARMY	967	0	967										A	-	-	-	-		75	75	75	80	80	80	80	80	85	85	85	87		0
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Optics 1, Inc - Bedford, NH	10	150	240	2	9	5	14	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).

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	11,613	8,200	12,690	4,039	2	4,041
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,322.686	118.187	144.644	109.724	0.027	109.751
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,322.686	118.187	144.644	109.724	0.027	109.751
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,322.686	118.187	144.644	109.724	0.027	109.751

(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>)	286.118	14.413	11.398	27.166	13.500	27.159

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Enhance Night Vision Goggles (ENVG) System ⁽¹⁾	12.180	39,997	487.153	11.590	8,200	95.040	6.006	12,690	76.221	23.883	4,039	96.464	13.500	2	0.027	23.878	4,041	96.491
I2 Tubes	-	-	27.444	-	-	9.800	-	-	9.742	-	-	-	-	-	-	-	-	-
Engineering Support	-	-	19.107	-	-	1.834	-	-	2.731	-	-	2.822	-	-	-	-	-	2.822
Project Management Admin	-	-	141.635	-	-	4.147	-	-	6.767	-	-	2.178	-	-	-	-	-	2.178
Fielding	-	-	2,547.800	-	-	3.587	-	-	17.783	-	-	5.774	-	-	-	-	-	5.774
Ancillary Support	-	-	61.521	-	-	2.225	-	-	4.071	-	-	2.487	-	-	-	-	-	2.487
Contract Data Requirements Lists	-	-	21.979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test Measurement Diagnostics Equipment (TMDE)	-	-	8.819	-	-	-	-	-	2.055	-	-	-	-	-	-	-	-	-
Helmet Mount Assemblies	-	-	1.780	-	-	1.556	-	-	25.274	-	-	-	-	-	-	-	-	-
Laser Target Locator	-	-	1.686	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUONs	-	-	3.760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>3,322.694</i>	-	-	<i>118.187</i>	-	-	<i>144.639</i>	-	-	<i>109.724</i>	-	-	<i>0.027</i>	-	-	<i>109.751</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>3,322.694</i>	-	-	<i>118.187</i>	-	-	<i>144.639</i>	-	-	<i>109.724</i>	-	-	<i>0.027</i>	-	-	<i>109.751</i>

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	286.118	11,613	3,322.686	14.413	8,200	118.187	11.398	12,690	144.644	27.166	4,039	109.724	13.500	2	0.027	27.159	4,041	109.751

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	5,731	9,518	2,706	2	2,708
	Total Obligation Authority	82.601	108.490	73.515	0.027	73.542
ANG	Quantity	2,469	3,172	1,333	-	1,333
	Total Obligation Authority	35.586	36.154	36.209	-	36.209
Total:	Quantity	8,200	12,690	4,039	2	4,041
Secondary Distribution	Total Obligation Authority	118.187	144.644	109.724	0.027	109.751

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices				Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Enhance Night Vision Goggles (ENVG) System ^(†)		2017	BAE Systems / Nashua, NH	C / IDIQ	ACC-APG	Aug 2017	May 2018	7,000	7.210	Y		
Enhance Night Vision Goggles (ENVG) System ^(†)		2017	DRS RSTA, Inc / Dallas, TX	C / IDIQ	ACC-APG	Aug 2017	Jul 2018	1,200	7.210	Y		
Enhance Night Vision Goggles (ENVG) System ^(†)		2018	TBD / TBD	C / IDDQ	ACC-APG	Feb 2018	Dec 2018	12,690	6.010	Y		
Enhance Night Vision Goggles (ENVG) System ^(†)		2019	TBD / TBD	C / IDIQ	ACC-APG	Feb 2019	Dec 2019	4,041	23.880	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices										Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices				

Cost Elements <i>(Units in Thousands)</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															
Enhance Night Vision Goggles (ENVG) System																																														
Prior Years Deliveries: 39997																																														
	1	2017	ARMY	7.000	.000	7.000																							A -	-	-	-	-	-	-	-	-	-	-	.350	.420	.420	.525	.525	4.760	
	2	2017	ARMY	1.200	.000	1.200																							A -	-	-	-	-	-	-	-	-	-	-	-	-	.200	.200	.200	.200	.600
	3	2018	ARMY	12.690	.000	12.690																																								12.690
	3	2019	ARMY	4.041	.000	4.041																																								4.041
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices										Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2019													Fiscal Year 2020													B A L A N C E		
O C 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			
Enhance Night Vision Goggles (ENVG) System																																	
Prior Years Deliveries: 39997																																	
	1	2017	ARMY	7.000	2.240	4.760	.650	.650	.750	.750	.750	.625	.585																	.000			
	2	2017	ARMY	1.200	.600	.600	.200	.200	.200																					.000			
	3	2018	ARMY	12.690	.000	12.690	-	-	.200	.700	1.055	1.280	1.280	1.280	1.280	1.280	1.280	.900	.875											.000			
	3	2019	ARMY	4.041	.000	4.041					A	-	-	-	-	-	-	-	-	.240	.270	.290	.330	.330	.370	.370	.395	.395	.365	.686			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army														Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices										Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2021														Fiscal Year 2022														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Enhance Night Vision Goggles (ENVG) System																																			
Prior Years Deliveries: 39997																																			
	1	2017	ARMY	7.000	7.000	.000																							.000						
	2	2017	ARMY	1.200	1.200	.000																							.000						
	3	2018	ARMY	12.690	12.690	.000																							.000						
	3	2019	ARMY	4.041	3.355	.686	.345	.341																					.000						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	200	500	1,300	2	11	9	20	2	3	7	10
2	DRS RSTA, Inc - Dallas, TX	200	500	1,300	2	11	11	22	2	3	7	10
3	TBD - TBD	200	500	1,300	2	5	10	15	2	5	10	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-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices
		Item Number / Title [DODIC]: K36401 / Night Vision AN/PVS-14 Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	2,444	-	2,444
Gross/Weapon System Cost (\$ in Millions)	-	-	-	8.496	-	8.496
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	8.496	-	8.496
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	8.496	-	8.496

(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)	-	-	-	3.476	-	3.476

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Monocular Night Vision Device (MNVD) Hardware ^(t)	-	-	-	-	-	-	-	-	-	3.373	2,444	8.244	-	-	-	3.373	2,444	8.244
Program Management Support	-	-	-	-	-	-	-	-	-	-	-	0.154	-	-	-	-	-	0.154
Government Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.098	-	-	-	-	-	0.098
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	8.496	-	-	-	-	-	8.496
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	8.496	-	-	-	-	-	8.496
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	3.476	2,444	8.496	-	-	-	3.476	2,444	8.496

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	2,444	-	2,444
	Total Obligation Authority	-	-	8.496	-	8.496
Total:	Quantity	-	-	2,444	-	2,444
Secondary Distribution	Total Obligation Authority	-	-	8.496	-	8.496

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36401 / Night Vision AN/PVS-14 Mods
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Monocular Night Vision Device (MNVD) Harware ^(†)		2019	TBD / TBD	C / IDIQ	ACC-APG	Dec 2018	Jun 2019	2,444	3.370	Y		

^(†) indicates the presence of a P-21

Remarks:
Monocular Night Vision Devices (MNVD) were previously procured under SSN K36400.

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** 0140KA3500 / Night Vision Devices **Item Number / Title [DODIC]:** K36401 / Night Vision AN/PVS-14 Mods

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C 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
Monocular Night Vision Device (MNVD) Harware																															
	1	2019	ARMY	2,444	0	2,444			A	-	-	-	-	-	-	150	190	200	240	240	275	290	290	250	225	94			0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0140KA3500 / Night Vision Devices	Item Number / Title [DODIC]: K36401 / Night Vision AN/PVS-14 Mods
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	10	500	2,000	3	3	6	9	3	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 2019 Army **Date:** February 2018

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: 0142K38300 / Long Range Advanced Scout Surveillance 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	170	334	-	504
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,405.275	-	-	-	2.861	2.861	-	2.963	49.397	93.015	-	1,553.511
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,405.275	-	-	-	2.861	2.861	-	2.963	49.397	93.015	-	1,553.511
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,405.275	-	-	-	2.861	2.861	-	2.963	49.397	93.015	-	1,553.511

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	290.571	278.488	-	3,082.363

Description:

The Long Range Advanced Scout Surveillance System (LRAS3) is a long range reconnaissance and surveillance system which operates in both a stationary vehicle mounted configuration and in an autonomous dismounted configuration. The LRAS3 is a multi-function, line-of-sight target acquisition common sensor suite which provides real-time target detection, recognition, and identification capability 24 hours a day in all weather conditions. LRAS3 also automatically determines Far Target Location (FTL) coordinates for any target ranged to by the operator. LRAS3 enables information superiority by interfacing with Force XXI Battle Command, Brigade-and-Below (FBCB2) to provide target acquisition and FTL information. LRAS3 utilizes the Horizontal Technology Integration (HTI) Second Generation Forward Looking Infrared (SGF) thermal sensor, enabling 24 hour a day operation in adverse weather and penetration of battlefield obscurants. LRAS3 significantly increases the survivability of forces through its standoff capability, allowing them to continue their mission as the eyes of the maneuver commander on the battlefield. The LRAS3 is a key enabling technology and has been a critical combat overmatch capability for the Army units in combat in Afghanistan. The LRAS3 continues to support requirements from Operation Enduring Freedom; for example, the Mine Resistant Ambush Protected (MRAP) All Terrain Vehicle (M-ATV) and developing a networked-enabled (netted sensors) technology insertion capability. The current LRAS3 Army Acquisition Objective (AAO) is 2,894 systems.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	0	-	0	-	-	170	334
Total Obligation Authority	-	-	0.000	2.861	2.861	-	2.963	49.397	93.015
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	170	334
Total Obligation Authority	-	-	-	2.861	2.861	-	2.963	49.397	93.015

Justification:

FY 2019 OCO procurement funding in the amount of \$2.861 million procures installation kits, associated cables and equipment installation in support of the European Deterrence Initiative (EDI).

This is a new start in FY 2019.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	3,206	1,250	626	1,494	6	1,500	1,466	1,456	1,712	1,636	-	12,852
Gross/Weapon System Cost (<i>\$ in Millions</i>)	124.036	18.843	14.007	22.882	0.060	22.942	22.906	23.218	26.825	26.389	-	279.166
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	124.036	18.843	14.007	22.882	0.060	22.942	22.906	23.218	26.825	26.389	-	279.166
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	124.036	18.843	14.007	22.882	0.060	22.942	22.906	23.218	26.825	26.389	-	279.166

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	38.689	15.074	22.375	15.316	10.000	15.295	15.625	15.946	15.669	16.130	-	21.722

Description:

The Small Tactical Optical Rifle Mounted (STORM) Micro-Laser Rangefinder (MLRF) is a weapon-mounted, multi-function laser system. It provides an eye safe laser rangefinder, digital compass, Infrared (IR) and visible aiming lights, and an IR illuminator for far target location with continuous range, accuracy, weight and power performance enhanced capabilities. When connected to a Precision Lightweight Global Receiver/Defense Advanced Global Positioning System (GPS) Receiver (PLGR/DAGR), the STORM provides range and direction information to develop accurate and timely far target locations. The STORM addresses the lack of depth perception for night applications through use of its IR illuminator and rangefinder. A SQUAD-specific variant that eliminates the digital compass to further reduce size, weight and power, and a SNIPER-specific variant the includes a ballistic calculator have been developed. These variants will be procured following approval of an updated STORM requirement.

The Army Acquisition Objective (AAO) for this program is 24,163.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	
Army	Quantity	875	317	941	6	947	1,444	1,456	1,712	1,636
	Total Obligation Authority	13.189	7.056	14.416	0.060	14.476	22.562	23.218	26.825	26.389
ANG	Quantity	375	309	553	-	553	-	-	-	-
	Total Obligation Authority	5.654	6.951	8.466	-	8.466	-	-	-	-
AR	Quantity	-	-	-	-	-	22	-	-	-
	Total Obligation Authority	-	-	-	-	-	0.344	-	-	-
Total: Secondary Distribution	Quantity	1,250	626	1,494	6	1,500	1,466	1,456	1,712	1,636
	Total Obligation Authority	18.843	14.007	22.882	0.060	22.942	22.906	23.218	26.825	26.389

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0155K35110 / Small Tactical Optical Rifle Mounted MLRF

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604710A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K35110 / Small Tactical Optical Rifle Mounted MLRF	P-5a, P-21	A		3,206 / 124.036	1,250 / 18.843	626 / 14.007	1,494 / 22.882	6 / 0.060	1,500 / 22.942
P-40	Total Gross/Weapon System Cost				3,206 / 124.036	1,250 / 18.843	626 / 14.007	1,494 / 22.882	6 / 0.060	1,500 / 22.942

*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 2019 Base procurement dollars in the amount of \$22.882 million supports the procurement of 1,494 STORM systems for fielding to small unit leaders and Snipers.
 FY 2019 OCO procurement dollars in the amount of \$.060 million supports the procurement of 6 STORM systems for equipment replacement.

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 2019 Army													Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF						Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF							
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total					
Procurement Quantity (Units in Each)				3,206		1,250		626		1,494		6		1,500					
Gross/Weapon System Cost (\$ in Millions)				124.036		18.843		14.007		22.882		0.060		22.942					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				124.036		18.843		14.007		22.882		0.060		22.942					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				124.036		18.843		14.007		22.882		0.060		22.942					
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-			
Gross/Weapon System Unit Cost (\$ in Thousands)				38.689		15.074		22.375		15.316		10.000		15.295					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	15.640	-	-	2.726	-	-	2.782	-	-	2.367	-	-	-	-	-	2.367	
Systems Engineering Support	-	-	5.447	-	-	1.396	-	-	1.623	-	-	1.775	-	-	-	-	-	1.775	
Fielding & NET	-	-	0.649	-	-	1.015	-	-	1.198	-	-	1.346	-	-	-	-	-	1.346	
<i>Subtotal: Recurring Cost</i>	-	-	<i>21.736</i>	-	-	<i>5.137</i>	-	-	<i>5.603</i>	-	-	<i>5.488</i>	-	-	-	-	-	<i>5.488</i>	
<i>Subtotal: Flyaway Cost</i>	-	-	<i>21.736</i>	-	-	<i>5.137</i>	-	-	<i>5.603</i>	-	-	<i>5.488</i>	-	-	-	-	-	<i>5.488</i>	
Hardware Cost																			
Recurring Cost																			
STORM Hardware ^(†)	13.564	7,542	102.303	10.965	1,250	13.706	13.425	626	8.404	11.427	1,194	13.644	10.000	6	0.060	11.420	1,200	13.704	
STORM 2 Hardware ^(†)	-	-	-	-	-	-	-	-	-	12.500	300	3.750	-	-	-	12.500	300	3.750	
<i>Subtotal: Recurring Cost</i>	-	-	<i>102.300</i>	-	-	<i>13.706</i>	-	-	<i>8.404</i>	-	-	<i>17.394</i>	-	-	<i>0.060</i>	-	-	<i>17.454</i>	
<i>Subtotal: Hardware Cost</i>	-	-	<i>102.300</i>	-	-	<i>13.706</i>	-	-	<i>8.404</i>	-	-	<i>17.394</i>	-	-	<i>0.060</i>	-	-	<i>17.454</i>	
Gross/Weapon System Cost	38.689	3,206	124.036	15.074	1,250	18.843	22.375	626	14.007	15.316	1,494	22.882	10.000	6	0.060	15.295	1,500	22.942	
Secondary Distribution							FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total				
Army							Quantity		875		317		941		6		947		
Total Obligation Authority							13.189		7.056		14.416		0.060		14.476				

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF	Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
ANG	Quantity	375	309	553	-	553
	Total Obligation Authority	5.654	6.951	8.466	-	8.466
Total:	Quantity	1,250	626	1,494	6	1,500
Secondary Distribution	Total Obligation Authority	18.843	14.007	22.882	0.060	22.942

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF				Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
STORM Hardware ^(†)		2017	L3 Insight / Londonderry, NH	C / IDIQ	ACC-APG	Jun 2017	Feb 2018	1,250	10.970	Y		
STORM Hardware ^(†)		2018	L3 Insight / Londonderry, NH	C / IDIQ	ACC-APG	Apr 2018	Dec 2018	626	13.430	Y		
STORM Hardware ^(†)		2019	L3 Insight / Londonderry, NH	C / IDIQ	ACC-APG	Apr 2019	Dec 2019	1,200	11.420	Y		
STORM 2 Hardware		2019	TBD / TBD	C / IDIQ	ACC-APG	Apr 2019	Mar 2020	300	12.500	N		

^(†) indicates the presence of a P-21

Remarks:

The current IDIQ contract with L3 communications expires September 2019. A future competitive contract award for STORM 2 will reduce size, weight and cost of the system. An extension to the current contract was awarded to procure STORM variant and minimize fielding gaps before the next variant, STORM 2 systems is ready.

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Exhibit P-21, Production Schedule: PB 2019 Army													Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86							P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF												Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF					

O C C #		M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Fiscal Year 2017														Fiscal Year 2018										B A L A N C E																			
								Calendar Year 2017														Calendar Year 2018																													
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																				
STORM Hardware																																																			
Prior Years Deliveries: 7542																																																			
			1	2017	ARMY	1,250	0	1,250																				A	-	-	-	-	-	-	-	-	-						60	60	80	80	80	100	100	100	590
			1	2018	ARMY	626	0	626																																											626
			1	2019	ARMY	1,200	0	1,200																																										1,200	

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Exhibit P-21, Production Schedule: PB 2019 Army														Date: February 2018																											
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86														P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF														Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF													

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019														Fiscal Year 2020														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 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					
STORM Hardware																																			
Prior Years Deliveries: 7542																																			
1	2017	ARMY		1,250	660	590	140	155	155	140																									0
1	2018	ARMY		626	0	626	-	-	30	30	70	70	60	60	56	50	50	50	50	50															0
1	2019	ARMY		1,200	0	1,200							A	-	-	-	-	-	-	-	80	100	100	100	100	100	100	100	120	120	100		180		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army															Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF										Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P			
STORM Hardware																																		
Prior Years Deliveries: 7542																																		
1		2017	ARMY	1,250	1,250	0																												0
1		2018	ARMY	626	626	0																												0
1		2019	ARMY	1,200	1,020	180	100	80																										0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0155K35110 / Small Tactical Optical Rifle Mounted MLRF
Item Number / Title [DODIC]: K35110 / Small Tactical Optical Rifle Mounted MLRF		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	30	200	450	2	9	8	17	2	7	8	15

Remarks:
 June 2011 award to L3 Communications was a 5 year IDIQ contract. A new competitive contract award for STORM 2 will reduce size, weight and cost of the system. An extension to the current contract was awarded to procure STORM and minimize fielding gaps before the next variant, STORM 2, is ready.

"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 2019 Army **Date:** February 2018

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: 0162WC5200 / RADIATION MONITORING SYSTEMS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.547	-	-	17.393	0.011	17.404	7.804	7.818	6.925	5.939	-	85.437
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	39.547	-	-	17.393	0.011	17.404	7.804	7.818	6.925	5.939	-	85.437
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.547	-	-	17.393	0.011	17.404	7.804	7.818	6.925	5.939	-	85.437

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	0.190	1.000	0.190	0.193	0.193	0.198	0.198	-	0.360

Description:

Procurement of Joint Radiological and Nuclear passive defense systems the Joint Personal Dosimeter-Individual (JPD-I)) as well as future systems (Joint Personal Dosimeter-Squad (JPD-SQD), Radiological Detection System (RDS) and Man-Portable Radiological Detection System (MRDS)). (B92400) The JPD-I is intended to replace DoD's legacy dosimeters (the Navy's IM-270 and the Army's PDR-75 reader with the DT-236 watch). The JPD-I will provide a sensor to record and retrieve a Service member's radiation exposure from occupational to tactical levels. The RDS will provide a ruggedized Radiation Detection, Indication, and Computation for real time gamma radiation monitoring and low energy x-ray, beta, alpha, and neutron detection. The JPD-SQD will provides significant improvements over legacy UDR-13 legacy system that is nearing obsolescence that is more sensitive, smaller and lighter, more precise dose rate, can provide a dose of record, and appropriate for complete range of operations from consequence management to nuclear war. The MRDS capability will provide increased radiological and nuclear (RN) detection, localization, presumptive identification and field-confirmatory identification capabilities that are networked to provide situational awareness at the tactical level. All systems will address Operation TOMODACHI lessons learned for common, interoperable equipment with adequate sensitivity and common units of measure.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	8.585	0.011	8.596	4.360	4.372	4.259	3.559
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	5.768	-	5.768	2.272	2.273	1.333	1.780
AR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	3.040	-	3.040	1.172	1.173	1.333	0.600
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	17.393	0.011	17.404	7.804	7.818	6.925	5.939

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 0162WC5200 / RADIATION MONITORING SYSTEMS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B92400 / RADIAC SET: AN/PDR-75()	P-5a, P-21			- / 39.547	- / -	- / -	- / 17.393	- / 0.011	- / 17.404
P-40	Total Gross/Weapon System Cost				- / 39.547	- / -	- / -	- / 17.393	- / 0.011	- / 17.404

*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:

FY19 Base dollars in the amount of \$17.393 million supports the procurement of 54,116 Joint Personal Dosimeter-Individual sensors to record and retrieve a Service member's radiation exposure from occupational to tactical levels.

FY19 OCO dollars in the amount of \$0.011 million supports the costs associated with fielding of Joint Personal Dosimeter-Individual sensors to record and retrieve a Service member's radiation exposure from occupational to tactical levels.

This is a new start in FY 2019

Note: OSD CBDDP also plans to fund \$5M in FY 2019 Procurement for this effort on OSD item SA0012.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0162WC5200 / RADIATION MONITORING SYSTEMS
		Item Number / Title [DODIC]: B92400 / RADIAC SET: AN/PDR-75()

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	39.547	-	-	17.393	0.011	17.404
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	39.547	-	-	17.393	0.011	17.404
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	39.547	-	-	17.393	0.011	17.404

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	0.190	1.000	0.190

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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-PDR-75 Hardware	6.277	6,100	38.289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Support (Govt)	-	-	1.258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding Support	-	-	-	-	-	-	-	-	-	-	-	0.360	-	-	-	-	-	0.360
Hardware Cost ^(†)	-	-	-	-	-	-	-	-	-	0.244	54,116	13.205	-	-	-	0.244	54,116	13.205
Program Management	-	-	-	-	-	-	-	-	-	-	-	3.829	-	-	0.011	-	-	3.840
<i>Subtotal: Recurring Cost</i>	-	-	<i>39.548</i>	-	-	-	-	-	-	-	-	<i>17.393</i>	-	-	<i>0.011</i>	-	-	<i>17.404</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>39.548</i>	-	-	-	-	-	-	-	-	<i>17.393</i>	-	-	<i>0.011</i>	-	-	<i>17.404</i>
Gross/Weapon System Cost	-	-	39.547	-	-	-	-	-	-	0.190	-	17.393	1.000	-	0.011	0.190	-	17.404

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	8.585	0.011	8.596
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	5.768	-	5.768
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	3.040	-	3.040
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army			Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0162WC5200 / RADIATION MONITORING SYSTEMS		Item Number / Title [DODIC]: B92400 / RADIAC SET: AN/PDR-75()		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution	Total Obligation Authority	-	-	17.393	0.011	17.404

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0162WC5200 / RADIATION MONITORING SYSTEMS	Item Number / Title [DODIC]: B92400 / RADIAC SET: AN/PDR-75()
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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 Cost ^(†)		2019	TBD / TBD	C / FFP	TBD	May 2019	Aug 2019	54,116	0.240	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army																								Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:										
2035A / 02 / 86										0162WC5200 / RADIATION MONITORING SYSTEMS										B92400 / RADIAC SET: AN/PDR-75()										
Cost Elements (Units in Thousands)							Fiscal Year 2019										Fiscal Year 2020										BALANCE			
O C 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
Hardware Cost																														
	1	2019	ARMY	54.116	.000	54.116								A	-	-	-	4.510	4.509	4.510	4.510	4.509	4.510	4.510	4.509	4.510	4.510	4.509	4.510	.000

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0162WC5200 / RADIATION MONITORING SYSTEMS	Item Number / Title [DODIC]: B92400 / RADIAC SET: AN/PDR-75()
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	13,462	18,000	0	0	0	0	0	0	0	0	0

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 0169BZ6501 / Base Expeditionary Targeting and Surv Sys
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,557.827	82.590	0.000	-	-	-	-	-	-	-	-	1,640.417
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,557.827	82.590	0.000	-	-	-	-	-	-	-	-	1,640.417
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,557.827	82.590	0.000	-	-	-	-	-	-	-	-	1,640.417

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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:

Base Expeditionary Targeting and Surveillance System - Combined (BETSS-C) consists of mobile and semi-fixed sensors providing targeting and surveillance, Force Protection (FP), and Counter Improvised Explosive Devices (CIED) capabilities for 360 degree day and night coverage. This program provides modular and scalable sensor architecture of "plug and play" common components that can be tailored to meet mission specific requirements. The integrated System of Systems (SoS) will be comprised of existing sensor systems that combine to meet the aggregated requirements of stated needs from deployed forces. The BETSS-C Quick Reaction Capability (QRC) program began in 2008 with an overarching Central Command (CENTCOM) Joint Urgent Operational Needs Statement (JUONS) which was the combination of multiple JUONS. BETSS-C is a SoS comprised a combination of Intelligence, Surveillance, and Reconnaissance (ISR); Battle Command; and FP sensor systems providing tactical commanders with video, images, and other data. The BETSS-C SoS is an evolving FP enterprise architecture with increasing interoperability, robust communications, and a common Command and Control (C2). The BETSS-C program includes the following systems: Rapid Aerostat Initial Deployment (RAID), Cerberus Trailers, Cerberus Scout, Force Protection Suite (FPS), Mid-Range Thermal Imagers (MRTI), Rapid Deployment Integrated Surveillance System (RDISS), Standard Ground Surveillance (SGS), Persistent Surveillance System - Ground (Heavy and Medium Platforms), and ancillary equipment.

The BETSS-C sensors are Commercial Off the Shelf (COTS) components that are a form-fit-function replacements for the legacy sensors.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	82.590	0.000	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	82.590	0.000	-	-	-	-	-	-	-

Justification:

There is no FY 2019 funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 0169BZ6501 / Base Expeditary Targeting and Surv Sys
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	211.674	237.337	78.880	46.740	251.062	297.802	19.127	0.703	-	-	-	845.523
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	211.674	237.337	78.880	46.740	251.062	297.802	19.127	0.703	-	-	-	845.523
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	211.674	237.337	78.880	46.740	251.062	297.802	19.127	0.703	-	-	-	845.523

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	317.352	331.940	-	556.429	-	3,545.262	-	-	-	-	-	576.755

Description:

The Rocket, Artillery, Mortar (RAM) Warn program (H30503) 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. Insertion of enhanced secure communications capability will address radio obsolescence and provide operational benefits, such as reduced physical security requirements and setup time.

The C-RAM Intercept program (H30504) 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. A Conditional Materiel Release for LPWS with Spiral 6.4.1 is projected for 2QFY20. Full Operational Capability (FOC) is To Be Determined based on continued deployment of limited LPWS assets in multiple theaters.

For transparency and in support of the Counter Unmanned Aircraft System (C-UAS) Joint Urgent Operational Need (JUON) CC-0558, SSN H30505 was created in FY 2017 to support the identification, development, testing, evaluation and integration of technologies to provide an overall evolutionary capability to defeat small Unmanned Aircraft Systems (UAS) threats. The C-UAS effort will provide the capability for the warfighter to comprehensively detect, track, identify and defeat enemy Groups 1 and 2 light weight, Commercial Off-The-Shelf (COTS) UAS. The C-UAS effort involves a phased development and testing approach to spiral capability into CENTCOM. The incremental approach provides interim standalone capability within the first few months and achieves a full networked capability by end of the JUON period.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)					P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: 0604741A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	222.603	78.880	43.199	251.062	294.261	19.127	0.703	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.734	-	3.541	-	3.541	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	237.337	78.880	46.740	251.062	297.802	19.127	0.703	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0173BZ0501 / Indirect Fire Protection Family Of Systems

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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			- / 109.384	- / 39.680	- / 11.380	- / 4.131	- / 0.262	- / 4.393
P-5	H30504 / C-RAM Enhancements				- / 102.290	3 / 57.907	- / -	- / 12.609	- / -	- / 12.609
P-5	H30505 / Counter Aerial Unmanned Systems (CUAS)				- / -	- / 139.750	- / 67.500	- / 30.000	- / 250.800	- / 280.800
P-40	Total Gross/Weapon System Cost				- / 211.674	- / 237.337	- / 78.880	- / 46.740	- / 251.062	- / 297.802

*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 2019 Base procurement dollars (H30503) in the amount of \$4.131 million and FY 2019 OCO procurement dollars (H30503) in the amount of \$0.262 provides modification to replace existing wireless radio communications with enhanced secure network wireless radio kits, to include fielding/training, and program support.

FY 2019 Base procurement dollars (H30504) in the amount of \$12.609 million continues LPWS Spiral 6.4.1 fielding and logistics development efforts to support transition to organic Army sustainment.

FY 2019 Base procurement dollars (H30505) in the amount of \$30.000 million and FY 2019 OCO procurement dollars (H30505) in the amount of \$250.800 million provides expeditionary mobile and static configuration with kinetic defeat capability for integration into LIDS in support JUON CC-0558. This implements the phased approach to improve C-UAS capability over the period of the JUON. These funds will procure quantity 5 Expeditionary LIDS (E-LIDS), quantity 10 Mobile-LIDS (M-LIDS) Radar Vehicles and quantity 10 M-LIDS Electronic Warfare (EW) Vehicles. Additionally, these funds will procure man-carried systems and integrate upgraded (Multi Mission Radars, Electronic Warfare, and Command & Control) components into the LIDS architecture as determined by test event analysis, kinetic defeat hardware and software components; provides spares, conducts NET, and provides shipping, transportation, and repairs for deployed systems. Expansion of JUON CC-0558 increases the number of CENTCOM sites requiring protection against Groups 1 and 2 Commercial-Off-The-Shelf (COTS) UAS from 18 sites to 90 sites.

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 2019 Army													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems						Item Number / Title [DODIC]: H30503 / Rocket, Artillery, Mortar (RAM) Warn						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				109.384		39.680		11.380		4.131		0.262		4.393				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				109.384		39.680		11.380		4.131		0.262		4.393				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				109.384		39.680		11.380		4.131		0.262		4.393				
<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)				163.994		55.730		-		49.179		-		52.298				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 - RAM Warn BCT ^(†)	98.003	890	87.223	59.385	590	35.037	34.759	270	9.385	42.655	84	3.583	-	-	-	42.655	84	3.583
<i>Subtotal: Recurring Cost</i>	-	-	87.223	-	-	35.037	-	-	9.385	-	-	3.583	-	-	-	-	-	3.583
<i>Subtotal: Flyaway Cost</i>	-	-	87.223	-	-	35.037	-	-	9.385	-	-	3.583	-	-	-	-	-	3.583
Support - Fielding Cost																		
Fielding	-	-	12.959	-	-	2.847	-	-	1.223	-	-	0.336	-	-	-	-	-	0.336
<i>Subtotal: Support - Fielding Cost</i>	-	-	12.959	-	-	2.847	-	-	1.223	-	-	0.336	-	-	-	-	-	0.336
Support - Program Management Cost																		
Government Management	-	-	9.202	-	-	1.796	-	-	0.772	-	-	0.212	-	-	0.262	-	-	0.474
<i>Subtotal: Support - Program Management Cost</i>	-	-	9.202	-	-	1.796	-	-	0.772	-	-	0.212	-	-	0.262	-	-	0.474
Gross/Weapon System Cost	163.994	-	109.384	55.730	-	39.680	-	-	11.380	49.179	-	4.131	-	-	0.262	52.298	-	4.393

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30503 / Rocket, Artillery, Mortar (RAM) Warn
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 Element Breakout	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 & Integration - RAM Warn BCT	98.003	890	87.223	59.385	590	35.037	34.759	270	9.385	42.655	84	3.583	-	-	-	42.655	84	3.583
Hardware & Integration - RAM Warn EDI	-	-	-	53.375	80	4.270	-	-	-	-	-	-	-	-	-	-	-	-
Hardware & Integration - RAM Warn BCT Secure Comms	98.003	890	87.223	60.327	510	30.767	34.759	270	9.385	42.655	84	3.583	-	-	-	42.655	84	3.583

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	24.946	11.380	0.590	0.262	0.852
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	14.734	-	3.541	-	3.541
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	39.680	11.380	4.131	0.262	4.393

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems				Item Number / Title [DODIC]: 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 - RAM Warn BCT		2017	Northrop Grumman / Huntsville	SS / IDIQ	AMCOM	Jul 2018	Dec 2018	510	0.000			
Hardware & Integration - RAM Warn BCT		2017	Northrop Grumman / Huntsville - OCO	SS / IDIQ	AMCOM	Jul 2017	Apr 2018	80	0.000			
Hardware & Integration - RAM Warn BCT		2018	Northrop Grumman / Huntsville	SS / IDIQ	AMCOM	Jul 2018	Dec 2018	270	34.760			
Hardware & Integration - RAM Warn BCT		2019	Northrop Grumman / Huntsville	SS / IDIQ	AMCOM	Feb 2019	Jul 2019	84	42.660			

Remarks:
RAM Warn is a hardware integration effort employing COTS and existing GOTS hardware.

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30504 / C-RAM Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	3	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	102.290	57.907	-	12.609	-	12.609
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	102.290	57.907	-	12.609	-	12.609
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	102.290	57.907	-	12.609	-	12.609

(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)	-	19,302.333	-	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	11,630.000	3	34.890	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	7.985	-	-	34.890	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	7.985	-	-	34.890	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	85.199	-	-	19.244	-	-	-	-	-	11.630	-	-	-	-	-	11.630
<i>Subtotal: Support - Fielding Cost</i>	-	-	85.199	-	-	19.244	-	-	-	-	-	11.630	-	-	-	-	-	11.630
Support - Program Management Cost																		
Government Management	-	-	9.106	-	-	3.773	-	-	-	-	-	0.979	-	-	-	-	-	0.979
<i>Subtotal: Support - Program Management Cost</i>	-	-	9.106	-	-	3.773	-	-	-	-	-	0.979	-	-	-	-	-	0.979
Gross/Weapon System Cost	-	-	102.290	19,302.333	3	57.907	-	-	-	-	-	12.609	-	-	-	-	-	12.609

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	3	-	0	-	0
	Total Obligation Authority	57.907	-	12.609	-	12.609
Total:	Quantity	3	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army			Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems		Item Number / Title [DODIC]: H30504 / C-RAM Enhancements		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution	Total Obligation Authority	57.907	-	12.609	-	12.609

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30505 / Counter Aerial Unmanned Systems (CUAS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	139.750	67.500	30.000	250.800	280.800
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	139.750	67.500	30.000	250.800	280.800
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	139.750	67.500	30.000	250.800	280.800

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

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

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware and Integration (H30505)	-	-	-	4,616.000	23	106.168	-	-	36.852	-	-	22.200	7,574.160	25	189.354	8,462.160	25	211.554
Hardware and Integration (H30503)	-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	106.168	-	-	46.852	-	-	22.200	-	-	189.354	-	-	211.554
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	106.168	-	-	46.852	-	-	22.200	-	-	189.354	-	-	211.554
Support - Fielding Cost																		
Fielding	-	-	-	-	-	23.660	-	-	15.530	-	-	6.150	-	-	52.417	-	-	58.567
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	23.660	-	-	15.530	-	-	6.150	-	-	52.417	-	-	58.567
Support - Program Management Cost																		
Government Management	-	-	-	-	-	9.922	-	-	5.118	-	-	1.650	-	-	9.029	-	-	10.679
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	9.922	-	-	5.118	-	-	1.650	-	-	9.029	-	-	10.679
Gross/Weapon System Cost	-	-	-	-	-	139.750	-	-	67.500	-	-	30.000	-	-	250.800	-	-	280.800

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0173BZ0501 / Indirect Fire Protection Family Of Systems	Item Number / Title [DODIC]: H30505 / Counter Aerial Unmanned Systems (CUAS)

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
	Total Obligation Authority	139.750	67.500	30.000	250.800	280.800
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	139.750	67.500	30.000	250.800	280.800

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603774A, 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	104	4,306	4,809	12,783	15	12,798	15,049	15,167	5,989	4,752	-	62,974
Gross/Weapon System Cost (<i>\$ in Millions</i>)	32.194	49.536	59.105	140.737	0.525	141.262	184.689	191.554	126.715	108.487	-	893.542
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	32.194	49.536	59.105	140.737	0.525	141.262	184.689	191.554	126.715	108.487	-	893.542
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	32.194	49.536	59.105	140.737	0.525	141.262	184.689	191.554	126.715	108.487	-	893.542

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	309.558	11.504	12.290	11.010	35.000	11.038	12.273	12.630	21.158	22.830	-	14.189

Description:

Family of Weapon Sights (FWS) consist of Individual (I), Crew-Served (CS), Sniper (S) variants, and the Thermal Weapon Sights (TWS). The FWS family sights will increase lethality and improve situational awareness by extending the range a Warfighter can recognize potential targets. The FWS-I reduces target engagement time in both day and night conditions through Rapid Target Acquisition (RTA). The FWS-CS 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 will provide greater detection, recognition and aiding in identification at greater ranges during periods of darkness and limited visibility.

FWS-I Army Acquisition Objective (AAO) is 36,443
 FWS-CS AAO is 25,310
 FWS-S AAO is 3,645

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	3,354	4,093	10,856	15	10,871	12,536	12,052	5,246	4,752
	Total Obligation Authority	38.584	50.221	118.251	0.525	118.776	154.173	146.489	105.121	108.487
ANG	Quantity	952	716	1,927	-	1,927	2,330	3,115	743	-
	Total Obligation Authority	10.952	8.884	22.486	-	22.486	28.736	45.065	21.594	-
AR	Quantity	-	-	-	-	-	183	-	-	-
	Total Obligation Authority	-	-	-	-	-	1.780	-	-	-
Total: Secondary Distribution	Quantity	4,306	4,809	12,783	15	12,798	15,049	15,167	5,989	4,752
	Total Obligation Authority	49.536	59.105	140.737	0.525	141.262	184.689	191.554	126.715	108.487

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603774A, 0604710A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K22002 / FWS-INDIVIDUAL	P-5a, P-21	B		104 / 32.194	4,306 / 49.536	4,759 / 49.887	12,203 / 94.932	- / -	12,203 / 94.932
P-5	K22003 / FWS-CREW SERVED	P-5a, P-21	B		- / -	- / -	- / 1.033	119 / 30.581	15 / 0.525	134 / 31.106
P-5	K22004 / FWS-SNIPER	P-5a, P-21	B		- / -	- / -	50 / 8.185	461 / 15.224	- / -	461 / 15.224
P-40	Total Gross/Weapon System Cost				104 / 32.194	4,306 / 49.536	4,809 / 59.105	12,783 / 140.737	15 / 0.525	12,798 / 141.262

*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 2019 Base procurement dollars in the amount of \$140.737 million supports the procurement of 12,203 FWS-I production systems, 119 FWS-CS qualification systems, and 461 FWS-S qualification and Low Rate Initial Production (LRIP) systems.

FY 2019 OCO procurement dollars in the amount of \$0.525 million will procure part of the European Deterrence Initiative (EDI) A39 United States Special Operations Command Europe (SOCEUR) Special Operation Forces (SOF) Prepositioned E requirement as FWS-CS to backfill units TWS are taken from to fill the immediate FY19 Special Operations Command (SOCOM) Army Preposition Stock requirement.

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 2019 Army					Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)			Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL			
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	
Procurement Quantity (Units in Each)			104	4,306	4,759	12,203	-	12,203	
Gross/Weapon System Cost (\$ in Millions)			32.194	49.536	49.887	94.932	-	94.932	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			32.194	49.536	49.887	94.932	-	94.932	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)			32.194	49.536	49.887	94.932	-	94.932	
<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)			309.558	11.504	10.483	7.779	-	7.779	

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 (LRIP Assets) ^(f)	80.500	208	16.744	8.618	4,306	37.109	-	-	-	-	-	-	-	-	-	-	-	-
FWS - I Hardware (FRP Assets) ^(f)	-	-	-	-	-	-	6.191	4,759	29.462	6.007	13,506	81.137	-	-	-	6.007	13,506	81.137
Test and Measurement Diagnostics Equipment	-	-	-	-	-	-	-	-	6.391	-	-	-	-	-	-	-	-	-
Program Management Support	-	-	2.000	-	-	1.154	-	-	4.108	-	-	1.571	-	-	-	-	-	1.571
Government Engineering Support	-	-	2.208	-	-	2.629	-	-	0.985	-	-	1.004	-	-	-	-	-	1.004
FWS-I Fielding	-	-	4.028	-	-	-	-	-	2.932	-	-	5.402	-	-	-	-	-	5.402
Engineering Change Proposal	-	-	-	-	-	2.829	-	-	0.884	-	-	2.013	-	-	-	-	-	2.013
Testing	-	-	-	-	-	1.071	-	-	0.295	-	-	0.682	-	-	-	-	-	0.682
Ancillary Support	-	-	1.578	-	-	2.999	-	-	1.927	-	-	3.129	-	-	-	-	-	3.129
Documentation	-	-	-	-	-	-	-	-	2.902	-	-	-	-	-	-	-	-	-
Fielding	-	-	5.636	-	-	1.745	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	32.194	-	-	49.536	-	-	49.887	-	-	94.932	-	-	-	-	-	94.932
<i>Subtotal: Flyaway Cost</i>	-	-	32.194	-	-	49.536	-	-	49.887	-	-	94.932	-	-	-	-	-	94.932
Gross/Weapon System Cost	309.558	104	32.194	11.504	4,306	49.536	10.483	4,759	49.887	7.779	12,203	94.932	-	-	-	7.779	12,203	94.932

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	3,354	4,052	10,373	-	10,373
	Total Obligation Authority	38.584	42.476	80.692	-	80.692
ANG	Quantity	952	707	1,830	-	1,830
	Total Obligation Authority	10.952	7.411	14.240	-	14.240
Total:	Quantity	4,306	4,759	12,203	-	12,203
Secondary Distribution	Total Obligation Authority	49.536	49.887	94.932	-	94.932

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
FWS - I Hardware (LRIP Assets)		2017	BAE Systems / Austin, TX	C / IDIQ	ACC-APG	Aug 2017	Jul 2018	1,000	7.500	Y		
FWS - I Hardware (LRIP Assets)		2017	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	Aug 2017	Jul 2018	3,306	7.500	Y		
FWS - I Hardware (FRP Assets) ^(†)		2018	BAE Systems / Austin, TX	C / IDIQ	ACC-APG	May 2018	Nov 2018	2,380	6.190	Y		
FWS - I Hardware (FRP Assets) ^(†)		2018	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	May 2018	Nov 2018	2,379	6.190	Y		
FWS - I Hardware (FRP Assets) ^(†)		2019	BAE Systems / Austin, TX	C / IDIQ	ACC-APG	May 2019	Nov 2019	6,753	5.690	Y		
FWS - I Hardware (FRP Assets) ^(†)		2019	DRS,RSTA, Inc. / Melbourne, FL	C / IDIQ	ACC-APG	May 2019	Nov 2019	6,753	5.690	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C C #	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			
FWS - I Hardware (FRP Assets)																																	
1	2018	ARMY	2,380	0	2,380	-	155	165	165	177	188	209	220	235	235	222	215	194												0			
2	2018	ARMY	2,379	0	2,379	-	155	165	165	177	188	209	220	235	235	222	215	193												0			
1	2019	ARMY	6,753	0	6,753								A -	-	-	-	-	-	325	400	500	510	520	600	600	650	700	700	728	520			
2	2019	ARMY	6,753	0	6,753								A -	-	-	-	-	-	325	400	500	510	520	600	600	650	700	700	728	520			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS) **Item Number / Title [DODIC]:** K22002 / FWS-INDIVIDUAL

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
FWS - I Hardware (FRP Assets)																															
	1	2018	ARMY	2,380	2,380	0																							0		
	2	2018	ARMY	2,379	2,379	0																							0		
	1	2019	ARMY	6,753	6,233	520	520																						0		
	2	2019	ARMY	6,753	6,233	520	520																						0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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 - Austin, TX	10	580	1,200	2	8	6	14	2	8	6	14
2	DRS,RSTA, Inc. - Melbourne, FL	10	580	1,200	2	8	6	14	2	8	6	14

"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 2019 Army						Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)			Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	119	15	134
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	-	1.033	30.581	0.525	31.106
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	-	1.033	30.581	0.525	31.106
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	-	1.033	30.581	0.525	31.106
<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>)			-	-	-	256.983	35.000	232.134

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Project Management Support	-	-	-	-	-	-	-	-	1.033	-	-	0.766	-	-	-	-	-	0.766
FWS-CS Hardware Qualification System ^(†)	-	-	-	-	-	-	-	-	-	158.924	119	18.912	-	-	-	158.924	119	18.912
Government Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.803	-	-	-	-	-	0.803
Fielding	-	-	-	-	-	-	-	-	-	-	-	1.307	-	-	-	-	-	1.307
Engineering Change Proposal	-	-	-	-	-	-	-	-	-	-	-	1.144	-	-	-	-	-	1.144
Testing	-	-	-	-	-	-	-	-	-	-	-	0.505	-	-	-	-	-	0.505
Ancillary Support	-	-	-	-	-	-	-	-	-	-	-	1.111	-	-	-	-	-	1.111
Documentation	-	-	-	-	-	-	-	-	-	-	-	5.485	-	-	-	-	-	5.485
TMDE	-	-	-	-	-	-	-	-	-	-	-	0.548	-	-	-	-	-	0.548
SOCOM Army Preposition Stock	-	-	-	-	-	-	-	-	-	-	-	-	35.000	15	0.525	35.000	15	0.525
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	<i>1.033</i>	-	-	<i>30.581</i>	-	-	<i>0.525</i>	-	-	<i>31.106</i>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	<i>1.033</i>	-	-	<i>30.581</i>	-	-	<i>0.525</i>	-	-	<i>31.106</i>
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	1.033	256.983	119	30.581	35.000	15	0.525	232.134	134	31.106

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Exhibit P-5, Cost Analysis: PB 2019 Army	Date: February 2018
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Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	0	96	15	111
	Total Obligation Authority	-	1.033	24.771	0.525	25.296
ANG	Quantity	-	-	23	-	23
	Total Obligation Authority	-	-	5.810	-	5.810
Total: Secondary Distribution	Quantity	-	-	119	15	134
	Total Obligation Authority	-	1.033	30.581	0.525	31.106

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)				Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED					
Cost Elements	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
FWS-CS Hardware Qualification System ^(†)		2019	TBS / TBD	C / IDIQ	ACC APG	Nov 2018	Sep 2019	119	158.920	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020														BALANCE	
O C 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					
FWS-CS Hardware Qualification System																																			
	1	2019	ARMY	119	0	119		A	-	-	-	-	-	-	-	-	-	20	-	49	-	50							0						
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	U	E					
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					

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Exhibit P-21, Production Schedule: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)				Item Number / Title [DODIC]: K22003 / FWS-CREW SERVED				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	350	800	2	2	10	12	2	2	10	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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22004 / FWS-SNIPER

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	50	461	-	461
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	8.185	15.224	-	15.224
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	8.185	15.224	-	15.224
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	8.185	15.224	-	15.224

(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>)	-	-	163.700	33.024	-	33.024

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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-S Hardware Qualification System ^(†)	-	-	-	-	-	-	18.940	50	0.947	-	-	-	-	-	-	-	-	-
Program Management Support	-	-	-	-	-	-	-	-	0.873	-	-	0.718	-	-	-	-	-	0.718
Government Engineering Support	-	-	-	-	-	-	-	-	0.197	-	-	0.201	-	-	-	-	-	0.201
Fielding	-	-	-	-	-	-	-	-	0.009	-	-	1.204	-	-	-	-	-	1.204
Engineering Change Orders	-	-	-	-	-	-	-	-	2.200	-	-	0.296	-	-	-	-	-	0.296
Testing	-	-	-	-	-	-	-	-	0.123	-	-	0.298	-	-	-	-	-	0.298
Ancillary Support	-	-	-	-	-	-	-	-	0.453	-	-	1.175	-	-	-	-	-	1.175
Documentation	-	-	-	-	-	-	-	-	2.974	-	-	2.590	-	-	-	-	-	2.590
Initial Spares	-	-	-	-	-	-	-	-	0.341	-	-	-	-	-	-	-	-	-
Test Measurement Diagnostic Equipment (TMDE)	-	-	-	-	-	-	-	-	0.068	-	-	0.233	-	-	-	-	-	0.233
FWS-S Revised Hardware Qualification/LRIP Systems ^(†)	-	-	-	-	-	-	-	-	-	18.458	461	8.509	-	-	-	18.458	461	8.509
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	8.185	-	-	15.224	-	-	-	-	-	15.224
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	8.185	-	-	15.224	-	-	-	-	-	15.224

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)						Item Number / Title [DODIC]: K22004 / FWS-SNIPER					
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	-	163.700	50	8.185	33.024	461	15.224	-	-	-	33.024	461	15.224

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	41	387	-	387
	Total Obligation Authority	-	6.712	12.788	-	12.788
ANG	Quantity	-	9	74	-	74
	Total Obligation Authority	-	1.473	2.436	-	2.436
Total:	Quantity	-	50	461	-	461
Secondary Distribution	Total Obligation Authority	-	8.185	15.224	-	15.224

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22004 / FWS-SNIPER
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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
FWS-S Hardware Qualification System		2018	N2 Imaging Systems / Irvine, CA	C / IDIQ	ACC APG	May 2018	Sep 2018	50	18.940	Y		
FWS-S Revised Hardware Qualification/LRIP Systems ^(t)		2019	N2 Imaging Systems / Irvine, CA	C / IDIQ	ACC APG	Mar 2019	Jul 2019	461	18.460	Y		

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

Remarks:

Note: Challenges with the Focal Plane Arrays (FPA) meeting specification requirements have caused a six (6) month delay in the FWS-S EMD schedule. FY 2019 will continue and complete FWS-S EMD to design, build and deliver prototype systems for Government and Contractor testing. Revised MS C is February 2019.

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22004 / FWS-SNIPER
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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						
FWS-S Revised Hardware Qualification/LRIP Systems																																					
1		2019	ARMY	461	0	461																							A	-	-	-	-	5	-	46	410
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)	Item Number / Title [DODIC]: K22004 / FWS-SNIPER
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020											Fiscal Year 2021											BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020											Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G	S E P
FWS-S Revised Hardware Qualification/LRIP Systems																														
1		2019	ARMY	461	51	410	65	65	65	75	75	65																	0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0177K22001 / FAMILY OF WEAPON SIGHTS (FWS)
		Item Number / Title [DODIC]: K22004 / FWS-SNIPER

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	N2 Imaging Systems - Irvine, CA	5	60	120	2	6	4	10	2	3	7	10

Remarks:
Challenges with the Focal Plane Arrays (FPA) meeting specification requirements have caused a six (6) month delay in the FWS-S EMD schedule. FY 2019 will continue and complete FWS-S EMD to design, build and deliver prototype systems for Government and Contractor testing. Revised MS C is February 2019.

"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 2019 Army **Date:** February 2018

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: 0178AD3200 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	86	57	-	-	-	-	-	-	-	-	-	143
Gross/Weapon System Cost (<i>\$ in Millions</i>)	252.961	4.187	2.129	-	-	-	-	-	-	-	-	259.277
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	252.961	4.187	2.129	-	-	-	-	-	-	-	-	259.277
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	252.961	4.187	2.129	-	-	-	-	-	-	-	-	259.277

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	2,941.407	73.456	-	-	-	-	-	-	-	-	-	1,813.126

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), addresses 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 can 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	18	0	-	-	-	-	-	-
	Total Obligation Authority	1.434	1.055	-	-	-	-	-	-
ANG	Quantity	39	0	-	-	-	-	-	-
	Total Obligation Authority	2.753	1.074	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	57	-	-	-	-	-	-	-
	Total Obligation Authority	4.187	2.129	-	-	-	-	-	-

Justification:

FY 2019 has no funding requested for this line.

FY 2018 Base procurement funds in the amount of \$2.129 million supports the fielding and Modification Work Order (MWO) of the IPADS-G Control and Display Unit - Replacement (CDU-R). The CDU-R is a hardware refresh effort to address obsolescence of electronic components. The requested funding supports the fielding of the CDU-R, including essential fielding costs such as engineering support, shipping to and from the contractor location, publications, software updates, and new equipment training. The CDU-R enhances capability for common survey enabling safe, accurate, and lethal fires. The requested funding will also be used to support the Simplified User Interface (SUI) software update and implementation. This software update is being executed to provide a simplified user interface to the IPADS-G framework so that a non-surveyor can easily and successfully operate the IPADS-G with CDU-R.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
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: 0178AD3200 / Artillery Accuracy Equip	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

"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 2019 Army **Date:** February 2018

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: 0200K27900 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	9	-	9	1	-	-	-	-	10
Gross/Weapon System Cost (<i>\$ in Millions</i>)	206.638	-	-	0.171	-	0.171	0.019	-	-	-	-	206.828
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	206.638	-	-	0.171	-	0.171	0.019	-	-	-	-	206.828
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	206.638	-	-	0.171	-	0.171	0.019	-	-	-	-	206.828

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	19.000	-	19.000	19.000	-	-	-	-	20,682.800

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 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	9	-	9	1	-	-	-
Total Obligation Authority	-	-	0.171	-	0.171	0.019	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	9	-	9	1	-	-	-
Total Obligation Authority	-	-	0.171	-	0.171	0.019	-	-	-

Justification:

Funding of \$0.171 million FY 2019 Base procurement to field and procure 9 Profiler systems to support the Grow the Army Initiative.

Funding of \$0.019 million FY 2020 Base procurement to field and procure 1 Profiler system to support the Grow the Army Initiative.

This is a new start in FY 2019.

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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203759A, 0604805A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	5,825	15,316	16,552	26,355	1,440	27,795	15,688	14,765	1,120	2,749	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	578.491	227.573	282.549	405.239	26.146	431.385	269.681	257.952	152.827	150.166	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	578.491	227.573	282.549	405.239	26.146	431.385	269.681	257.952	152.827	150.166	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	578.491	227.573	282.549	405.239	26.146	431.385	269.681	257.952	152.827	150.166	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>)	99.312	14.859	17.070	15.376	18.157	15.520	17.190	17.471	136.453	54.626	Continuing	Continuing

Description:

Joint Battle Command - Platform (JBC-P) is the cornerstone of Joint Forces' Command and Control (C2), Situational Awareness (SA), and Communications. JBC-P provides secure Blue Force Tracking (BFT) capability at the Platform and Command Post levels, and continuous near-real-time identification of friendly locations, reported enemy and hazardous locations populating the tactical Common Operating Picture (COP). JBC-P enables Joint, Net-Centric C2/Battle Command by seamlessly passing/sharing relevant information vertically and horizontally, within all tactical levels of command and control. JBC-P is designed to be used on L-Band Satellite Networks and terrestrial radios.

The JBC-P program fields hardware (vehicle platform computer systems, satellite transceivers, encryption devices, and ancillary equipment), and software capabilities for the full spectrum of military operations. The Army is accelerating the fielding of the newest generation of JBC-P computing hardware in order to address a significant cyber vulnerability and leverage improved capabilities.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	6,862	9,866	11,860	1,440	13,300	2,060	6,644	504	1,710
	Total Obligation Authority	190.853	234.157	198.985	26.146	225.131	107.294	116.078	68.772	67.575
ANG	Quantity	6,227	4,776	10,542	-	10,542	6,275	5,906	448	386
	Total Obligation Authority	24.380	32.195	150.003	-	150.003	118.100	103.181	61.131	60.066
AR	Quantity	2,227	1,910	3,953	-	3,953	7,353	2,215	168	653
	Total Obligation Authority	12.340	16.197	56.251	-	56.251	44.287	38.693	22.924	22.525
Total:	Quantity	15,316	16,552	26,355	1,440	27,795	15,688	14,765	1,120	2,749
Secondary Distribution	Total Obligation Authority	227.573	282.549	405.239	26.146	431.385	269.681	257.952	152.827	150.166

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203759A, 0604805A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	P-5a, P-21	A		5,825 / 578.491	15,316 / 227.573	16,552 / 282.549	26,355 / 405.239	1,440 / 26.146	27,795 / 431.385
P-40	Total Gross/Weapon System Cost				5,825 / 578.491	15,316 / 227.573	16,552 / 282.549	26,355 / 405.239	1,440 / 26.146	27,795 / 431.385

*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 2019 Base Procurement dollars in the amount of \$405.239 million supports the procurement of 24,320 vehicle platform computer systems (vehicle computer and log vehicle computer), 2,035 Command Post systems, satellite transceivers, encryption devices, ancillary equipment, program management support, training, fielding, publications, support equipment, and Post Deployment Software and Support (PDSS).

Fiscal Year 2019 OCO Procurement dollars in the amount of \$26.146 million supports the procurement of 1,329 vehicle platform computer systems, 111 Command Post systems, satellite transceivers, encryption devices, ancillary equipment, program management support, training, fielding, publications, support equipment, and Post Deployment Software and Support (PDSS).

Adjustments have been made to the Prior Years in both funding and quantities, effectively driving the Weapon System Unit Cost of JBC-P down.

In FY 2019, the Army will continue acceleration of fielding modernized JBC-P hardware and software to get the Army on a common baseline. Modernized fielding of JBC-P is projected to be completed in FY 2023.

Accelerating JBC-P fielding will allow the Army to retire older versions of legacy system Force XXI Battle Command Brigade and Below (FBCB2) and Joint Capabilities Release (JCR) hardware and software, which will reduce interoperability issues and maintenance costs of older hardware and software. As newer hardware and software are fielded, the overall cyber resilience of the system will be improved and older, less resilient systems will be retired.

In FY 2018, due to the reuse factor, quantities were increased allowing us to deliver more systems without increasing funding.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
		Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)		5,825	15,316	16,552	26,355	1,440	27,795
Gross/Weapon System Cost (\$ in Millions)		578.491	227.573	282.549	405.239	26.146	431.385
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		578.491	227.573	282.549	405.239	26.146	431.385
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		578.491	227.573	282.549	405.239	26.146	431.385

(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)	99.312	14.859	17.070	15.376	18.157	15.520

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(f)	13.266	11,787	156.366	10.705	10,953	117.252	12.708	12,325	156.626	12.708	18,845	239.482	12.708	1,029	13.077	12.708	19,874	252.559
JBC-P Cmd Post; LIN C05037 ^(f)	-	-	-	10.705	695	7.440	12.708	760	9.658	12.708	1,196	15.199	12.708	65	0.826	12.708	1,261	16.025
JBC-P Log Mobile; LIN C05055 ^(f)	-	-	-	10.705	3,182	34.063	12.708	3,642	46.283	12.708	5,475	69.576	12.708	300	3.812	12.708	5,775	73.388
JBC-P Log Cmd Post; LIN C05054 ^(f)	-	-	-	10.705	486	5.203	12.708	552	7.015	12.708	838	10.649	12.708	46	0.585	12.708	884	11.234
Ancillary HW / IKS	-	-	8.446	-	-	-	-	-	-	-	-	-	-	-	7.846	-	-	7.846
System Engineering (MFoCS & Transceiver Services)	-	-	30.028	-	-	7.738	-	-	5.000	-	-	7.000	-	-	-	-	-	7.000
Engineering Changes (Geospatial)	-	-	-	-	-	3.665	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>194.840</i>	-	-	<i>175.361</i>	-	-	<i>224.582</i>	-	-	<i>341.907</i>	-	-	<i>26.146</i>	-	-	<i>368.052</i>
Non Recurring Cost																		
Non-Recurring Eng (ABCT)	-	-	12.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>12.177</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>207.017</i>	-	-	<i>175.361</i>	-	-	<i>224.582</i>	-	-	<i>341.907</i>	-	-	<i>26.146</i>	-	-	<i>368.052</i>

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Exhibit P-5, Cost Analysis: PB 2019 Army													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)						Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	61.113	-	-	15.969	-	-	20.500	-	-	20.000	-	-	-	-	-	20.000
<i>Subtotal: Support - Fielding Cost</i>	-	-	61.113	-	-	15.969	-	-	20.500	-	-	20.000	-	-	-	-	-	20.000
Support - Industrial Facilities Cost																		
Equipment Acquisition or Modernization	-	-	147.908	-	-	8.987	-	-	11.000	-	-	11.900	-	-	-	-	-	11.900
<i>Subtotal: Support - Industrial Facilities Cost</i>	-	-	147.908	-	-	8.987	-	-	11.000	-	-	11.900	-	-	-	-	-	11.900
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	-	-	12.698	-	-	1.029	-	-	1.505	-	-	1.505	-	-	-	-	-	1.505
<i>Subtotal: Support - Peculiar Support Equipment Cost</i>	-	-	12.698	-	-	1.029	-	-	1.505	-	-	1.505	-	-	-	-	-	1.505
Support - Program Management Cost																		
Government Management	-	-	65.202	-	-	10.837	-	-	9.225	-	-	12.000	-	-	-	-	-	12.000
Contractor Management	-	-	36.648	-	-	3.165	-	-	4.045	-	-	4.000	-	-	-	-	-	4.000
<i>Subtotal: Support - Program Management Cost</i>	-	-	101.850	-	-	14.002	-	-	13.270	-	-	16.000	-	-	-	-	-	16.000
Support - System Engineering Cost																		
System Engineering	-	-	14.874	-	-	8.138	-	-	4.500	-	-	7.500	-	-	-	-	-	7.500
<i>Subtotal: Support - System Engineering Cost</i>	-	-	14.874	-	-	8.138	-	-	4.500	-	-	7.500	-	-	-	-	-	7.500
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	20.196	-	-	1.623	-	-	3.700	-	-	3.000	-	-	-	-	-	3.000
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	20.196	-	-	1.623	-	-	3.700	-	-	3.000	-	-	-	-	-	3.000
Support - Training Cost																		
Equipment	-	-	12.315	-	-	2.464	-	-	3.492	-	-	3.428	-	-	-	-	-	3.428

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)	Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	12.315	-	-	2.464	-	-	3.492	-	-	3.428	-	-	-	-	-	3.428
Gross/Weapon System Cost	99.312	5,825	578.491	14.859	15,316	227.573	17.070	16,552	282.549	15.376	26,355	405.239	18.157	1,440	26.146	15.520	27,795	431.385

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	6,862	9,866	11,860	1,440	13,300
	Total Obligation Authority	190.853	234.157	198.985	26.146	225.131
ANG	Quantity	6,227	4,776	10,542	-	10,542
	Total Obligation Authority	24.380	32.195	150.003	-	150.003
AR	Quantity	2,227	1,910	3,953	-	3,953
	Total Obligation Authority	12.340	16.197	56.251	-	56.251
Total: Secondary Distribution	Quantity	15,316	16,552	26,355	1,440	27,795
	Total Obligation Authority	227.573	282.549	405.239	26.146	431.385

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)					Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
JBC-P Veh Computer; LIN C05036 ^(†)		2015	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2014	May 2015	996	13.270	Y		
JBC-P Veh Computer; LIN C05036 ^(†)		2016	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2015	Apr 2016	3,204	13.270	Y		
JBC-P Veh Computer; LIN C05036 ^(†)		2017	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Dec 2016	Jun 2017	10,953	10.710	Y		
JBC-P Veh Computer; LIN C05036 ^(†)		2018	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2017	May 2018	12,325	12.710	Y		
JBC-P Veh Computer; LIN C05036 ^(†)		2019	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2018	May 2019	19,874	12.710	Y		
JBC-P Cmd Post; LIN C05037 ^(†)		2017	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Dec 2016	Jun 2017	695	10.710	Y		
JBC-P Cmd Post; LIN C05037 ^(†)		2018	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2017	May 2018	760	12.710	Y		
JBC-P Cmd Post; LIN C05037 ^(†)		2019	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2018	May 2019	1,261	12.710	Y		
JBC-P Log Mobile; LIN C05055 ^(†)		2017	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Dec 2016	Jun 2017	3,182	10.710	Y		
JBC-P Log Mobile; LIN C05055 ^(†)		2018	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2017	May 2018	3,642	12.710	Y		
JBC-P Log Mobile; LIN C05055 ^(†)		2019	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2018	May 2019	5,775	12.710	Y		
JBC-P Log Cmd Post; LIN C05054 ^(†)		2017	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Dec 2016	Jun 2017	486	10.710	Y		
JBC-P Log Cmd Post; LIN C05054 ^(†)		2018	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2017	May 2018	552	12.710	Y		
JBC-P Log Cmd Post; LIN C05054 ^(†)		2019	DRS Tactical - Melbourne, FL / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2018	May 2019	884	12.710	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army														Date: February 2018																											
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86														P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)														Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)													

Cost Elements <i>(Units in Thousands)</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	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					
JBC-P Veh Computer; LIN C05036																																			
Prior Years Deliveries: 7587																																			
	1	2015	ARMY	.996	.000	.996		A	-	-	-	-	-	-	.083	.083	.083	.083	.083	.083	.083	.083	.083	.083	.083	.083	.083	.083	.083	.083	.000				
	1	2016	ARMY	3.204	.000	3.204																									1.602				
	2	2017	ARMY	10.953	.000	10.953																									10.953				
	2	2018	ARMY	12.325	.000	12.325																									12.325				
	2	2019	ARMY	19.874	.000	19.874																									19.874				
JBC-P Cmd Post; LIN C05037																																			
	3	2017	ARMY	.695	.000	.695																									.695				
	4	2018	ARMY	.760	.000	.760																									.760				
	4	2019	ARMY	1.261	.000	1.261																									1.261				
JBC-P Log Mobile; LIN C05055																																			
	5	2017	ARMY	3.182	.000	3.182																									3.182				
	6	2018	ARMY	3.642	.000	3.642																									3.642				
	6	2019	ARMY	5.775	.000	5.775																									5.775				
JBC-P Log Cmd Post; LIN C05054																																			
	7	2017	ARMY	.486	.000	.486																									.486				
	8	2018	ARMY	.552	.000	.552																									.552				
	8	2019	ARMY	.884	.000	.884																									.884				
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)									

Cost Elements <i>(Units in Thousands)</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					
JBC-P Veh Computer; LIN C05036																																			
Prior Years Deliveries: 7587																																			
	1	2015	ARMY	.996	.996	.000																							.000						
	1	2016	ARMY	3.204	1.602	1.602	.267	.267	.267	.267	.267	.267																	.000						
	2	2017	ARMY	10.953	.000	10.953				A -	-	-	-	-	-	.816	.817	.817	.817	.817	.817	.817	.817	1.047	1.047	1.047	1.047	1.047	.000						
	2	2018	ARMY	12.325	.000	12.325																	A -	-	-	-	-	-	1.027	1.027	1.027	1.027	1.027	7.190	
	2	2019	ARMY	19.874	.000	19.874																											19.874		
JBC-P Cmd Post; LIN C05037																																			
	3	2017	ARMY	.695	.000	.695				A -	-	-	-	-	-	.033	.033	.033	.033	.033	.033	.033	.033	.033	.093	.093	.093	.093	.092			.000			
	4	2018	ARMY	.760	.000	.760																	A -	-	-	-	-	-	.063	.063	.063	.063	.063	.445	
	4	2019	ARMY	1.261	.000	1.261																											1.261		
JBC-P Log Mobile; LIN C05055																																			
	5	2017	ARMY	3.182	.000	3.182				A -	-	-	-	-	-	.232	.232	.232	.232	.232	.232	.232	.232	.358	.358	.358	.358	.358				.000			
	6	2018	ARMY	3.642	.000	3.642																		A -	-	-	-	-	-	.308	.308	.308	.308	.308	2.102
	6	2019	ARMY	5.775	.000	5.775																											5.775		
JBC-P Log Cmd Post; LIN C05054																																			
	7	2017	ARMY	.486	.000	.486				A -	-	-	-	-	-	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.075	.075	.075	.075	.074			.000		
	8	2018	ARMY	.552	.000	.552																		A -	-	-	-	-	-	.050	.050	.050	.050	.050	.302
	8	2019	ARMY	.884	.000	.884																												.884	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)										Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)									

Cost Elements <i>(Units in Thousands)</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			
JBC-P Veh Computer; LIN C05036																																	
Prior Years Deliveries: 7587																																	
	1	2015	ARMY	.996	.996	.000																							.000				
	1	2016	ARMY	3.204	3.204	.000																							.000				
	2	2017	ARMY	10.953	10.953	.000																							.000				
	2	2018	ARMY	12.325	5.135	7.190	1.027	1.027	1.027	1.027	1.027	1.027	1.028																.000				
	2	2019	ARMY	19.874	.000	19.874		A -	-	-	-	-	-	1.656	1.656	1.656	1.656	1.656	1.656	1.656	1.656	1.656	1.656	1.657	1.657			.000					
JBC-P Cmd Post; LIN C05037																																	
	3	2017	ARMY	.695	.695	.000																						.000					
	4	2018	ARMY	.760	.315	.445	.063	.063	.063	.063	.063	.063	.067															.000					
	4	2019	ARMY	1.261	.000	1.261		A -	-	-	-	-	-	.105	.105	.105	.105	.105	.105	.105	.105	.105	.105	.105	.105	.106		.000					
JBC-P Log Mobile; LIN C05055																																	
	5	2017	ARMY	3.182	3.182	.000																						.000					
	6	2018	ARMY	3.642	1.540	2.102	.308	.308	.308	.308	.308	.308	.254															.000					
	6	2019	ARMY	5.775	.000	5.775		A -	-	-	-	-	-	.481	.481	.481	.481	.481	.481	.481	.481	.481	.481	.482	.482	.482		.000					
JBC-P Log Cmd Post; LIN C05054																																	
	7	2017	ARMY	.486	.486	.000																						.000					
	8	2018	ARMY	.552	.250	.302	.050	.050	.050	.050	.050	.050	.002															.000					
	8	2019	ARMY	.884	.000	.884		A -	-	-	-	-	-	.073	.073	.073	.073	.073	.074	.074	.074	.074	.074	.074	.074	.074		.000					
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0245W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)
		Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DRS Tactical - Melbourne, FL	20	220	2,000	1	1	5	6	1	1	5	6
2	DRS Tactical - Melbourne, FL - Melbourne, FL	20	220	2,000	1	1	5	6	1	1	5	6
3	DRS Tactical - Melbourne, FL	20	220	2,000	1	1	5	6	1	1	5	6
4	DRS Tactical - Melbourne, FL - Melbourne, FL	20	220	2,000	1	1	5	6	1	1	5	6
5	DRS Tactical - Melbourne, FL	20	220	2,000	1	1	5	6	1	1	5	6
6	DRS Tactical - Melbourne, FL - Melbourne, FL	20	220	2,000	1	1	5	6	1	1	5	6
7	DRS Tactical - Melbourne, FL	20	220	2,000	1	1	5	6	1	1	5	6
8	DRS Tactical - Melbourne, FL - Melbourne, FL	20	220	2,000	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	50	201	234	303	-	303	474	509	489	499	-	2,759
Gross/Weapon System Cost (<i>\$ in Millions</i>)	47.212	48.375	48.664	66.574	-	66.574	89.772	93.511	90.660	97.345	-	582.113
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	47.212	48.375	48.664	66.574	-	66.574	89.772	93.511	90.660	97.345	-	582.113
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	47.212	48.375	48.664	66.574	-	66.574	89.772	93.511	90.660	97.345	-	582.113

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	944.240	240.672	207.966	219.716	-	219.716	189.392	183.715	185.399	195.080	-	210.987

Description:

The Joint Effects Targeting System (JETS) Target Locator/Designator System (TLDS) provides the individual dismounted observer 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's Fires Center of Excellence Fires sensor strategy. JETS will satisfy the requirement for the dismounted precision targeting sensor for the individual observer.

The Army Acquisition Objective (AAO) for this program is 3,355.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	
Army	Quantity	141	140	182	-	182	284	305	293	299
	Total Obligation Authority	33.995	29.198	39.944	-	39.944	53.863	56.107	54.396	58.407
ANG	Quantity	60	94	121	-	121	190	204	196	200
	Total Obligation Authority	14.380	19.466	26.630	-	26.630	35.909	37.404	36.264	38.938
Total:	Quantity	201	234	303	-	303	474	509	489	499
Secondary Distribution	Total Obligation Authority	48.375	48.664	66.574	-	66.574	89.772	93.511	90.660	97.345

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604710A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	P-5a, P-21	B		50 / 47.212	201 / 48.375	234 / 48.664	303 / 66.574	- / -	303 / 66.574
P-40	Total Gross/Weapon System Cost				50 / 47.212	201 / 48.375	234 / 48.664	303 / 66.574	- / -	303 / 66.574

*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 2019 Base procurement dollars in the amount of \$66.574 million supports the procurement of 303 Joint Effects Targeting System (JETS). These systems will be fielded in accordance with the HQDA priority list.

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	50	201	234	303	-	303
Gross/Weapon System Cost (\$ in Millions)	47.212	48.375	48.664	66.574	-	66.574
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	47.212	48.375	48.664	66.574	-	66.574
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	47.212	48.375	48.664	66.574	-	66.574

(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)	944.240	240.672	207.966	219.716	-	219.716

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
Project Management	-	-	1.639	-	-	2.114	-	-	2.292	-	-	1.914	-	-	-	-	-	1.914
Joint Effects Targeting System ^(†)	505.667	81	40.959	213.502	201	42.914	186.026	234	43.530	187.868	303	56.924	-	-	-	187.868	303	56.924
Systems Engineering Support	-	-	1.536	-	-	0.565	-	-	2.199	-	-	2.887	-	-	-	-	-	2.887
Training	-	-	-	-	-	1.220	-	-	0.543	-	-	1.975	-	-	-	-	-	1.975
Fielding	-	-	0.029	-	-	0.377	-	-	0.100	-	-	0.393	-	-	-	-	-	0.393
Ancillary Equipment	-	-	0.079	-	-	1.185	-	-	-	-	-	2.481	-	-	-	-	-	2.481
Subtotal: Recurring Cost	-	-	44.242	-	-	48.375	-	-	48.664	-	-	66.574	-	-	-	-	-	66.574
Non Recurring Cost																		
Initial Non-Recurring	-	-	2.970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	2.970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	47.212	-	-	48.375	-	-	48.664	-	-	66.574	-	-	-	-	-	66.574
Gross/Weapon System Cost	944.240	50	47.212	240.672	201	48.375	207.966	234	48.664	219.716	303	66.574	-	-	-	219.716	303	66.574

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army Quantity	141	140	182	-	182

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
	Total Obligation Authority	33.995	29.198	39.944	-	39.944
ANG	Quantity	60	94	121	-	121
	Total Obligation Authority	14.380	19.466	26.630	-	26.630
Total:	Quantity	201	234	303	-	303
Secondary Distribution	Total Obligation Authority	48.375	48.664	66.574	-	66.574

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)				Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Joint Effects Targeting System ^(†)		2017	DRS / Melbourne, FL	C / FFP	ACC APG	Jun 2017	Feb 2018	201	213.500	Y		
Joint Effects Targeting System ^(†)		2018	DRS / Melbourne, FL	C / FFP	ACC-APG	Apr 2018	Oct 2018	234	186.030	Y		
Joint Effects Targeting System ^(†)		2019	DRS / Melbourne, FL	C / FFP	ACC-APG	Apr 2019	Oct 2019	303	187.870	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)	Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017															Fiscal Year 2018															B A L A N C E																																			
O C C #	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 6	B A L 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																																									
Joint Effects Targeting System																																																																							
Prior Years Deliveries: 81																																																																							
1		2017	ARMY	201	0	201																						A -	-	-	-	-	-	-	-	-	-	10	10	15	15	15	15	15	15	15	91																								
1		2018	ARMY	234	0	234																						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	234																								
1		2019	ARMY	303	0	303																																									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	303

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Exhibit P-21, Production Schedule: PB 2019 Army														Date: February 2018															
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)										Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020														BALANCE		
O C C #	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						
Joint Effects Targeting System																																				
Prior Years Deliveries: 81																																				
1		2017	ARMY	201	110	91	20	20	25	26																									0	
1		2018	ARMY	234	0	234	2	2	5	5	29	29	29	29	26	26	26	26																	0	
1		2019	ARMY	303	0	303																													0	

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 0254K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)
		Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DRS - Melbourne, FL	5	40	50	3	9	8	17	3	7	6	13

"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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0255KA3100 / Mod Of In-Svc Equip (LLDR)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	145.523	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	145.523	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	145.523	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567	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>)	1,017.643	346.395	539.529	310.194	238.235	295.631	511.662	341.193	328.931	374.669	Continuing	Continuing

Description:

MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR) to incorporate target location improvements. The upgraded LLDR system is type classified as LLDR 2H. The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) guided and laser guided precision munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal 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.

Funding in this program supports competitively awarding a contract to procure LLDR 3 systems in FY 2020 with improved imaging performance and 24/7, all-weather precision targeting at long range by integrating a Precision Azimuth Vertical Angle Module (PAVAM). LLDR will continue to fill its role as a crew-served, dismounted precision targeting system.

The Army Acquisition Objective (AAO) for this program is 2,700.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.052	9.172	20.783	4.050	24.833	36.328	74.380	51.708
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.006	-	-	-	-	-	-	34.472
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 0255KA3100 / Mod Of In-Svc Equip (LLDR)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604710A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	KA3100 / LLDR Target Location Improvement (Unclassified)		A		- / 145.523	- / 28.058	- / 9.172	- / 20.783	- / 4.050	- / 24.833
P-40	Total Gross/Weapon System Cost				- / 145.523	- / 28.058	- / 9.172	- / 20.783	- / 4.050	- / 24.833

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	KA3100 / LLDR Target Location Improvement (Unclassified)		A		- / 36.328	- / 74.380	- / 86.180	- / 65.567	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 36.328	- / 74.380	- / 86.180	- / 65.567	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 2019 Base procurement dollars in the amount of \$20.783 million supports the retrofit of 67 existing LLDR systems.
 FY 2019 OCO procurement dollars in the amount of \$4.050 million supports the retrofit of 17 existing LLDR systems with target location improvement for the European Deterrence Initiative (EDI).
 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0255KA3100 / Mod Of In-Svc Equip (LLDR)	Modification Number / Title: KA3100 / LLDR Target Location Improvement

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	145.523	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	145.523	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	145.523	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567	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>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	1,017.643	346.395	539.529	310.194	238.235	295.631	511.662	341.193	328.931	374.669	Continuing	Continuing

Description:

MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR) 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.052	9.172	20.783	4.050	24.833	36.328	74.380	51.708	39.340
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.006	-	-	-	-	-	-	34.472	26.227
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Army											Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: 0255KA3100 / Mod Of In-Svc Equip (LLDR)							Modification Number / Title: KA3100 / LLDR Target Location Improvement		
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: AN/PED-1 and AN/PED-1A				Modification Type: Unclassified				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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:</i> LLDR Target Location Improvement													
A Kits													
Recurring													
AN/PED-1 and AN/PED-1A Retrofits	143 / 99.049	81 / 22.455	17 / 3.974	67 / 15.509	17 / 3.935	84 / 19.444	71 / 30.859	218 / 67.420	262 / 76.747	175 / 55.820	Continuing	Continuing	
Project Management/Engineering Support	- / 19.521	- / 3.102	- / 1.891	- / 2.685	- / -	- / 2.685	- / 2.739	- / 2.794	- / 2.850	- / 2.907	Continuing	Continuing	
Systems Engineering Support	- / 12.257	- / 1.951	- / 3.041	- / 1.990	- / -	- / 1.990	- / 2.030	- / 2.071	- / 2.158	- / 2.201	Continuing	Continuing	
Production Qualification Testing	- / 0.309	- / -	- / 0.266	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Fielding	- / 9.292	- / 0.550	- / -	- / 0.599	- / 0.115	- / 0.714	- / 0.700	- / 2.095	- / 2.443	- / 1.639	Continuing	Continuing	
<i>Subtotal: Recurring</i>	<i>143 / 140.428</i>	<i>81 / 28.058</i>	<i>17 / 9.172</i>	<i>67 / 20.783</i>	<i>17 / 4.050</i>	<i>84 / 24.833</i>	<i>71 / 36.328</i>	<i>218 / 74.380</i>	<i>262 / 84.198</i>	<i>175 / 62.567</i>	<i>Continuing</i>	<i>Continuing</i>	
Non-Recurring													
ECP / System Technology Support	- / 5.095	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.982	- / 3.000	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	<i>- / 5.095</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.982</i>	<i>- / 3.000</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: LLDR Target Location Improvement</i>	<i>143 / 145.523</i>	<i>81 / 28.058</i>	<i>17 / 9.172</i>	<i>67 / 20.783</i>	<i>17 / 4.050</i>	<i>84 / 24.833</i>	<i>71 / 36.328</i>	<i>218 / 74.380</i>	<i>262 / 86.180</i>	<i>175 / 65.567</i>	<i>Continuing</i>	<i>Continuing</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>143 / 145.523</i>	<i>81 / 28.058</i>	<i>17 / 9.172</i>	<i>67 / 20.783</i>	<i>17 / 4.050</i>	<i>84 / 24.833</i>	<i>71 / 36.328</i>	<i>218 / 74.380</i>	<i>262 / 86.180</i>	<i>175 / 65.567</i>	<i>Continuing</i>	<i>Continuing</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</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)	145.523	28.058	9.172	20.783	4.050	24.833	36.328	74.380	86.180	65.567	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 0255KA3100 / Mod Of In-Svc Equip (LLDR)	Modification Number / Title: KA3100 / LLDR Target Location Improvement

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: LLDR Target Location Improvement

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Apopka, FL
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 6

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	Apr 2023
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023

Installation Information

Method of Implementation: Retrofit

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	- / -	- / -	- / -	- / -	0 / 0.000

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				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	20	20	20	20	20	21	4	4	4	5	21	21	21	21	17	18	18	18	54	54	55	55	65	65	66	66	43	44	1,497	2,500
Out	103	20	20	20	20	20	20	20	21	4	4	4	5	21	21	21	21	17	18	18	18	54	54	55	55	65	65	66	66	1,584	2,500

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 5726K99200 / Computer Ballistics: LHMBBC XM32
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	653	345	497	288	40	328	528	120	175	175	-	2,821
Gross/Weapon System Cost (<i>\$ in Millions</i>)	122.644	5.924	8.117	8.553	0.960	9.513	8.151	7.564	7.487	7.492	-	176.892
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	122.644	5.924	8.117	8.553	0.960	9.513	8.151	7.564	7.487	7.492	-	176.892
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	122.644	5.924	8.117	8.553	0.960	9.513	8.151	7.564	7.487	7.492	-	176.892

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	187.816	17.171	16.332	29.698	24.000	29.003	15.438	63.033	42.783	42.811	-	62.705

Description:

The M32A1 and M32A2 Lightweight Handheld Mortar Ballistic Computer (LHMBBC) calculates ballistic solutions that give the mortar user data to aim the mortar weapon, set the charge, and serves as the Fire Direction Center for all mortar platforms. The M32A1 LHMBBC communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS). The M32A2 will be capable of communicating digitally on the SINCGARS or Soldier Radio Waveform (SRW) Fire Support Network. Both the M32A1 and M32A2 LHMBBC versions provide firing computations for all calibers of mortars as well as digital messaging capability. The M32A1 LHMBBC will utilize the Ruggedized Tactical Handheld Device (RTHD) platform and will be compatible with Common Operating Environment (COE) 1.0 compliance. The M32A2 LHMBBC will utilize Nett Warrior (NW) Mobile/Handheld (M/HH) platform and will be compatible with COE 3.0 compliance.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	345	497	210	40	250	369	110	175
	Total Obligation Authority	5.924	8.117	6.233	0.960	7.193	5.708	5.699	7.487
ANG	Quantity	-	-	78	-	78	159	9	-
	Total Obligation Authority	-	-	2.320	-	2.320	2.443	1.705	-
AR	Quantity	-	-	-	-	-	-	1	-
	Total Obligation Authority	-	-	-	-	-	-	0.160	-
Total:	Quantity	345	497	288	40	328	528	120	175
Secondary Distribution	Total Obligation Authority	5.924	8.117	8.553	0.960	9.513	8.151	7.564	7.487

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 5726K99200 / Computer Ballistics: LHMBBC 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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	K99200 / Computer Ballistics: LHMBBC XM32	P-5a	B		653 / 122.644	345 / 5.924	497 / 8.117	288 / 8.553	40 / 0.960	328 / 9.513
P-40	Total Gross/Weapon System Cost				653 / 122.644	345 / 5.924	497 / 8.117	288 / 8.553	40 / 0.960	328 / 9.513

*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 2019 Base procurement dollars in the amount of \$8.553 million supports the procurement of 288 each M32A2 Lightweight Handheld Mortar Ballistic Computer (LHMBBC) Nett Warrior (NW) computers and Basic Issue Items (BII). In addition, 288 TACLINK Modems are required to be procured to maintain digital communications with legacy Command, Control, and Communication systems. The M32A2 LHMBBC NW with COE Version 3.0 software is urgently needed to replace the obsolete M32 Ruggedized Personal Digital Assistance (RPDA) computers in the field. LHMBBC eliminates the need of paper firing table, improves the accuracy of mortar ballistic calculation, and increases survivability of mortar crews by digitally connecting to the Fire Support network to receive fire missions and Fire Support Coordination Measures to conduct fratricide check.

FY 2019 OCO procurement dollars in the amount of \$0.960 million supports the procurement of critical Army items consumed in support of Operation Inherent Reserve for ISIL. This funding procures 40 each M32A2 LHMBBC Nett Warrior (NW) computers and Basic Issue Items (BII) critical Army items consumed in support of deployed units' ongoing military operations.

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

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 5726K99200 / Computer Ballistics: LHMCB XM32
		Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMCB XM32

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	653	345	497	288	40	328
Gross/Weapon System Cost (\$ in Millions)	122.644	5.924	8.117	8.553	0.960	9.513
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	122.644	5.924	8.117	8.553	0.960	9.513
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	122.644	5.924	8.117	8.553	0.960	9.513

(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)	187.816	17.171	16.332	29.698	24.000	29.003

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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																		
LHMCB M32A2 ⁽¹⁾	5.110	1,108	5.662	7.304	345	2.520	6.686	497	3.323	7.355	288	2.118	7.355	40	0.294	7.355	328	2.412
<i>Subtotal: Recurring Cost</i>	-	-	5.662	-	-	2.520	-	-	3.323	-	-	2.118	-	-	0.294	-	-	2.412
Non Recurring Cost																		
LHMCB M32A2 BII	-	-	1.610	-	-	-	-	-	1.800	-	-	3.295	-	-	0.458	-	-	3.753
LHMCB M32A1 BII	-	-	0.438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	2.048	-	-	-	-	-	1.800	-	-	3.295	-	-	0.458	-	-	3.753
<i>Subtotal: Hardware Cost</i>	-	-	7.710	-	-	2.520	-	-	5.123	-	-	5.413	-	-	0.752	-	-	6.165
Software Cost																		
Recurring Cost																		
Software Support	-	-	0.400	-	-	0.540	-	-	0.588	-	-	0.600	-	-	-	-	-	0.600
<i>Subtotal: Recurring Cost</i>	-	-	0.400	-	-	0.540	-	-	0.588	-	-	0.600	-	-	-	-	-	0.600
Non Recurring Cost																		
M32A2 COE Software	-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	5.400	-	-	0.540	-	-	0.588	-	-	0.600	-	-	-	-	-	0.600
Support - Fielding Cost																		
Fielding	-	-	0.350	-	-	1.010	-	-	0.500	-	-	0.823	-	-	0.208	-	-	1.031

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 5726K99200 / 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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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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>	-	-	0.350	-	-	1.010	-	-	0.500	-	-	0.823	-	-	0.208	-	-	1.031
Support - Production Engineering Cost																		
Production Engineering	-	-	109.184	-	-	1.854	-	-	1.906	-	-	1.717	-	-	-	-	-	1.717
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	109.184	-	-	1.854	-	-	1.906	-	-	1.717	-	-	-	-	-	1.717
Gross/Weapon System Cost	187.816	653	122.644	17.171	345	5.924	16.332	497	8.117	29.698	288	8.553	24.000	40	0.960	29.003	328	9.513

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	345	497	210	40	250
	Total Obligation Authority	5.924	8.117	6.233	0.960	7.193
ANG	Quantity	-	-	78	-	78
	Total Obligation Authority	-	-	2.320	-	2.320
Total: Secondary Distribution	Quantity	345	497	288	40	328
	Total Obligation Authority	5.924	8.117	8.553	0.960	9.513

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 5726K99200 / 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LHMBC M32A2		2017	PEO Soldier PM SWAR NW / Fort Belvoir, VA	MIPR	PM Soldier Warrior, Ft Belvoir	Mar 2017	May 2018	345	7.304	Y		
LHMBC M32A2		2018	PEO Soldier PM SWAR NW / Fort Belvoir, VA	MIPR	PM Soldier Warrior, Ft Belvoir	Mar 2018	May 2019	497	6.686	Y		
LHMBC M32A2		2019	PEO Soldier PM SWAR NW / Fort Belvoir, VA	MIPR	PM Soldier Warrior, Ft Belvoir	Mar 2019	May 2020	328	7.355	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	322	429	274	411	41	452	184	290	133	230	-	2,314
Gross/Weapon System Cost (<i>\$ in Millions</i>)	408.711	24.903	34.760	21.489	7.660	29.149	18.400	21.793	12.584	18.079	-	568.379
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	408.711	24.903	34.760	21.489	7.660	29.149	18.400	21.793	12.584	18.079	-	568.379
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	408.711	24.903	34.760	21.489	7.660	29.149	18.400	21.793	12.584	18.079	-	568.379

(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>)	1,269.289	58.049	126.861	52.285	186.829	64.489	100.000	75.148	94.617	78.604	-	245.626

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 Soldier Radio Waveform (SRW) fire support net. 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. MFCS also adds digital connectivity to the Fire Support network as well as connectivity to SINCGARS and Force XXI Battle Command Brigade and Below (FBCB2) situational awareness blue data. The MFCS consists of the M95/M96 version that is used on mounted 120mm Mortars in Armored Brigade Combat Teams (ABCT) and the M150/M151 version used on the M120A1 120mm Towed Mortar that is fielded throughout all Infantry Brigade Combat Teams (IBCT). The Stryker Brigade Combat Teams (SBCT) utilize both the M95 and M151 systems. The M95 is used on the M1064A2/M1064A3 Mortar Carriers with the M121 Battalion Mortar System and the M1129A1 Stryker 120mm Mortar Carrier with the 120mm Recoiling Mortar System. The M96 is used on M577 Mortar Fire Direction Center (FDC) vehicle. The M95 and M96 are also being integrated onto the Advanced Multipurpose Vehicle (AMPV) Mortar Carrier and Mission Command vehicles, respectively. The M150 is used on the M120A1 120mm Towed Mortar that is mounted on the M1101 Trailer. The M151 is used on the M1097 High Mobility Multipurpose Wheeled Vehicle (HMMV) that serves as the IBCT and SBCT Mortar FDCs. Both the M95 and M150 consist of five main components: 1) The Commander's Interface (CI) (M95) or Fire Control Computer (FCC) (M95/M150) links the MFCS components together, communicates, and calculates the ballistic solutions. 2) The Tactical Advanced Land Inertial Navigator (TALIN) is the pointing device and position system that provides the weapon's position, pointing azimuth and elevation. 3) The Gunner's Display (GD) shows the gunner where to point the tube and displays the weapon's azimuth, elevation, and ballistic firing solution. 4) The Driver's Display (DD) (M95 only) provides a "steer-to" display to aid in navigation and emplacement of the vehicle, and 5) The Power Distribution Assembly/Enhanced Power Distribution Assembly filters vehicle power and acts as a circuit breaker isolating MFCS line replaceable units from power fluctuations and surges. The M96 and M151 each consist primarily of the CI (M96) or FCC (M96/M151), installed in the FDC vehicle. All CI's are currently being transitioned to the FCC for all M95 and M96.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	K99300 / Mortar Fire Control System	P-5a, P-21	A		322 / 408.711	429 / 24.903	274 / 34.760	411 / 21.489	41 / 7.660	452 / 29.149
P-40	Total Gross/Weapon System Cost				322 / 408.711	429 / 24.903	274 / 34.760	411 / 21.489	41 / 7.660	452 / 29.149

*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 2019 Base procurement dollars in the amount of \$21.489 million supports the procurement of 108 each M95 Stryker Fire Control Computer (FCC) replacements for Stryker Brigade Combat Teams, 183 each M95 and 30 each M96 Fire Direction Center (FDC) computer replacements for Armored Brigade Combat Teams (ABCT), 64 each M150 and 10 each M151 Windows 10 Fire Control Computer with Installation Kit, including support costs for software, logistics, fielding, and production engineering. These upgrades are urgently required for fielding to five Infantry Brigade Combat Teams (IBCTs), three Stryker Brigade Combat Teams (SBCT), and 10 Armored Brigade Combat Teams (ABCT) to retain their MFCS Authority to Operate (ATO) in accordance with Information Assurance requirements. In addition, without these upgrades and replacements, the MFCS 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. In addition, 16 each M95 M1064 complete systems will be procured for Grow the Army requirements.

Army Acquisition Objective for M150 totals 700
 Army Acquisition Objective for M150 TALIN totals 700
 Army Acquisition Objective for M151 totals 165

FY 2019 \$7.660 million OCO supports the procurement of critical Army items consumed in support of Operation Inherent Reserve for ISIL. FY 2019 OCO dollars in the amount of \$7.660 million supports the procurement of 24 each M150 systems to support operational needs statement (ONS) and battle loss, 2 each M95 M1064, and 3 each M96 M577 complete systems which are critical items consumed in support of deployed units' ongoing military operations.

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

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Exhibit P-5, Cost Analysis: PB 2019 Army					Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System			Item Number / Title [DODIC]: K99300 / Mortar Fire Control System			
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	
Procurement Quantity (Units in Each)			322	429	274	411	41	452	
Gross/Weapon System Cost (\$ in Millions)			408.711	24.903	34.760	21.489	7.660	29.149	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			408.711	24.903	34.760	21.489	7.660	29.149	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)			408.711	24.903	34.760	21.489	7.660	29.149	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)			-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)			1,269.289	58.049	126.861	52.285	186.829	64.489	

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
M95 M1064 MFCS-M ^(†)	-	-	-	216.924	14	3.037	216.924	12	2.603	222.090	16	3.553	222.090	2	0.444	222.090	18	3.998
M95 M1064 Fire Control Computer ^(†)	-	-	-	42.061	96	4.038	42.061	180	7.571	38.681	183	7.079	-	-	-	38.681	183	7.079
M95 AMPV ^(†)	-	-	-	216.924	39	8.460	216.924	47	10.195	-	-	-	-	-	-	-	-	-
M95 Stryker Fire Control Computer ^(†)	17.251	144	2.484	42.061	72	3.028	42.061	72	3.028	38.681	108	4.178	-	-	-	38.681	108	4.178
M95 Stryker Fire Control Computer BII Sets	-	-	0.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M96 M577 MFCS-M ^(†)	-	-	-	70.571	3	0.212	70.571	3	0.212	-	-	-	67.833	3	0.203	67.833	3	0.203
M96 M1064 Fire Control Computer ^(†)	-	-	-	42.061	16	0.673	42.061	30	1.262	38.681	30	1.160	-	-	-	38.681	30	1.160
M96 AMPV ^(†)	-	-	-	70.571	6	0.423	70.571	9	0.635	-	-	-	-	-	-	-	-	-
M151 Stryker FDC Kit ^(†)	-	-	-	53.691	27	1.450	-	-	-	-	-	-	-	-	-	-	-	-
MFCS-D (M150/M151)	0.879	140	0.123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M150 Windows 10 Fire Control Computer ^(†)	-	-	-	-	-	-	36.664	108	3.960	35.133	64	2.249	-	-	-	35.133	64	2.249

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86						P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System						Item Number / Title [DODIC]: K99300 / Mortar Fire Control System					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
M151 Windows 10 Fire Control Computer ^(†)	-	-	-	-	-	-	36.664	18	0.660	35.133	10	0.351	-	-	-	35.133	10	0.351
TALIN - Dependent of M150/M95	51.808	119	6.165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M150	-	-	-	-	-	-	-	-	-	-	-	-	251.243	24	6.030	251.243	24	6.030
MFCS (M151) - FDC Dismounted	0.117	70	0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	9.681	-	-	21.321	-	-	30.126	-	-	18.570	-	-	6.678	-	-	25.247
<i>Subtotal: Hardware Cost</i>	-	-	9.681	-	-	21.321	-	-	30.126	-	-	18.570	-	-	6.678	-	-	25.247
Software Cost																		
Recurring Cost																		
Software Support	-	-	0.875	-	-	0.518	-	-	0.609	-	-	0.504	-	-	-	-	-	0.504
<i>Subtotal: Recurring Cost</i>	-	-	0.875	-	-	0.518	-	-	0.609	-	-	0.504	-	-	-	-	-	0.504
Non Recurring Cost																		
Windows 10 Qualification	-	-	2.718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	2.718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	3.593	-	-	0.518	-	-	0.609	-	-	0.504	-	-	-	-	-	0.504
Logistics Cost																		
Recurring Cost																		
Government ILS	-	-	1.002	-	-	0.485	-	-	0.492	-	-	0.480	-	-	-	-	-	0.480
<i>Subtotal: Recurring Cost</i>	-	-	1.002	-	-	0.485	-	-	0.492	-	-	0.480	-	-	-	-	-	0.480
<i>Subtotal: Logistics Cost</i>	-	-	1.002	-	-	0.485	-	-	0.492	-	-	0.480	-	-	-	-	-	0.480
Support - Fielding Cost																		
Fielding	-	-	2.561	-	-	0.189	-	-	0.937	-	-	0.409	-	-	0.200	-	-	0.609
<i>Subtotal: Support - Fielding Cost</i>	-	-	2.561	-	-	0.189	-	-	0.937	-	-	0.409	-	-	0.200	-	-	0.609
Support - Production Engineering Cost																		
Production Engineering	-	-	391.874	-	-	2.390	-	-	2.596	-	-	1.526	-	-	0.782	-	-	2.308
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	391.874	-	-	2.390	-	-	2.596	-	-	1.526	-	-	0.782	-	-	2.308
Gross/Weapon System Cost	1,269.289	322	408.711	58.049	429	24.903	126.861	274	34.760	52.285	411	21.489	186.829	41	7.660	64.489	452	29.149

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
M95 M1064 MFCS-M		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	14	216.924	Y		
M95 M1064 MFCS-M		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	12	216.924	Y		
M95 M1064 MFCS-M		2019	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Apr 2020	18	222.090	Y		
M95 M1064 Fire Control Computer ^(†)		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	96	42.061	Y		
M95 M1064 Fire Control Computer ^(†)		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	180	42.061	Y		
M95 M1064 Fire Control Computer ^(†)		2019	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Apr 2020	183	38.681	Y		
M95 AMPV		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	39	216.924	Y		
M95 AMPV		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	47	216.924	Y		
M95 Stryker Fire Control Computer		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	72	42.061	Y		
M95 Stryker Fire Control Computer		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	72	42.061	Y		
M95 Stryker Fire Control Computer		2019	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Apr 2020	108	38.681	Y		
M96 M577 MFCS-M		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	3	70.571	Y		
M96 M577 MFCS-M		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	3	70.571	Y		
M96 M1064 Fire Control Computer		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	16	42.061	Y		
M96 M1064 Fire Control Computer		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	30	42.061	Y		
M96 M1064 Fire Control Computer		2019	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Apr 2020	30	38.681	Y		
M96 AMPV		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	6	70.571	Y		
M96 AMPV		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	9	70.571	Y		
M151 Stryker FDC Kit		2017	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2017	Apr 2018	27	53.691	Y		
M150 Windows 10 Fire Control Computer		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	108	36.664	Y		
M150 Windows 10 Fire Control Computer		2019	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Apr 2020	64	35.133	Y		
M151 Windows 10 Fire Control Computer		2018	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2018	Apr 2019	18	36.664	Y		
M151 Windows 10 Fire Control Computer		2019	EFW, Inc.. / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2019	Apr 2020	10	35.133	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 **P-1 Line Item Number / Title:** 7500K99300 / Mortar Fire Control System **Item Number / Title [DODIC]:** K99300 / Mortar Fire Control System

Cost Elements <i>(Units in Each)</i>						Fiscal Year 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					
M95 M1064 Fire Control Computer																																			
	1	2017	ARMY	96	0	96																													0
	1	2018	ARMY	180	0	180																													180
	1	2019	ARMY	183	0	183																													183
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020												B A L A N C E	
O C 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			
M95 M1064 Fire Control Computer																																	
	1	2017	ARMY	96	96	0																							0				
	1	2018	ARMY	180	0	180	-	-	-	-	-	-	20	20	20	20	20	20	20	20	20								0				
	1	2019	ARMY	183	0	183							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System	Item Number / Title [DODIC]: K99300 / Mortar Fire Control System
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A S O F 1 O C T	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
M95 M1064 Fire Control Computer																															
	1	2017	ARMY	96	96	0																							0		
	1	2018	ARMY	180	180	0																							0		
	1	2019	ARMY	183	120	63	20	20	23																				0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86				P-1 Line Item Number / Title: 7500K99300 / Mortar Fire Control System				Item Number / Title [DODIC]: K99300 / Mortar Fire Control System				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	EFW, Inc.. - Fort Worth, TX	10	24	66	4	4	12	16	1	1	12	13

"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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604823A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	22	17	24	9	14	23	-	-	-	-	-	86
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,099.136	297.509	329.057	162.121	165.200	327.321	11.120	5.972	6.279	30.244	-	3,106.638
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,099.136	297.509	329.057	162.121	165.200	327.321	11.120	5.972	6.279	30.244	-	3,106.638
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,099.136	297.509	329.057	162.121	165.200	327.321	11.120	5.972	6.279	30.244	-	3,106.638

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	95,415.273	17,500.529	13,710.708	18,013.444	11,800.000	14,231.348	-	-	-	-	-	36,123.698

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 replace the current AN/TPQ-36 and AN/TPQ-37 Firefinder Radars. The AN/TPQ-53 system interoperates with mission command systems (MCSs) 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 is 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): 189

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	6	24	6	5	11	-	-	-
	Total Obligation Authority	105.200	329.057	113.418	57.820	171.238	11.120	5.972	6.279
ANG	Quantity	11	-	3	9	12	-	-	-
	Total Obligation Authority	192.309	-	48.703	107.380	156.083	-	-	-
Total: Secondary Distribution	Quantity	17	24	9	14	23	-	-	-
	Total Obligation Authority	297.509	329.057	162.121	165.200	327.321	11.120	5.972	6.279

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
 8386BA5500 / Counterfire Radars

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604823A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar	P-5a, P-21			22 / 2,099.136	17 / 297.509	24 / 329.057	9 / 162.121	14 / 165.200	23 / 327.321
P-40	Total Gross/Weapon System Cost				22 / 2,099.136	17 / 297.509	24 / 329.057	9 / 162.121	14 / 165.200	23 / 327.321

*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) 2019 OPA Base funding in the amount of \$162.121 million supports the procurement of 9 AN/TPQ-53 radars, fielding of systems to United States Army units, engineering changes, and program support.

The Fiscal Year (FY) 2019 Overseas Contingency Operations (OCO) procurement funding in the amount of \$165.200 million supports the procurement of 14 AN/TPQ-53 radars.

When all prior year procurement quantities are counted this program achieves the AAO of 189 in FY 2019.

The FY 2020-2023 procurement funding supports the fielding of systems to United States Army units, contractor support services and program support. Additional funding in FY 2023 supports integration of modernization efforts.

Program Office core employee labor costs for FYs 2019-2023 moved from Procurement to OMA as part of an OSD auditability directive.

Current force structure is:

- Two (2) radars per Active Component (AC) Armored Brigade Combat Team (ABCT)
- Two (2) radars per AC Infantry Brigade Combat Team (IBCT)
- Two (2) radars per AC Stryker Brigade Combat Team (SBCT)
- Two (2) radars per Army National Guard (ARNG) ABCT
- Two (2) radars per ARNG IBCT
- Two (2) radars per ARNG SBCT
- Two (2) radars per AC Field Artillery Brigade (FAB)
- Two (2) radars per ARNG FAB
- Two (2) radars per AC Division Artillery (DIVARTY)
- One (1) radar per Task Force

Army Acquisition Objective (AAO) of 189 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	22	17	24	9	14	23
Gross/Weapon System Cost (\$ in Millions)	2,099.136	297.509	329.057	162.121	165.200	327.321
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,099.136	297.509	329.057	162.121	165.200	327.321
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,099.136	297.509	329.057	162.121	165.200	327.321

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	95,415.273	17,500.529	13,710.708	18,013.444	11,800.000	14,231.348

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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) ^(t)	10,522.720	125	1,315.340	9,846.930	17	167.398	10,204.800	24	244.915	10,566.000	9	95.094	10,483.280	14	146.766	10,515.652	23	241.860
Ancillary Equipment	-	-	189.707	-	-	8.131	-	-	18.534	-	-	6.665	-	-	10.352	-	-	17.017
Subtotal: Recurring Cost	-	-	1,505.047	-	-	175.529	-	-	263.449	-	-	101.759	-	-	157.118	-	-	258.877
Non Recurring Cost																		
Non-Recurring Engineering	-	-	80.275	-	-	7.860	-	-	12.777	-	-	9.356	-	-	-	-	-	9.356
Non-Recurring Production	-	-	89.612	-	-	68.283	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	0.706	-	-	-	-	-	2.276	-	-	0.877	-	-	1.363	-	-	2.240
Post Deployment Software Support	-	-	10.999	-	-	1.270	-	-	3.470	-	-	0.800	-	-	1.200	-	-	2.000
Subtotal: Non Recurring Cost	-	-	181.592	-	-	77.413	-	-	18.523	-	-	11.033	-	-	2.563	-	-	13.596
Subtotal: Flyaway Cost	-	-	1,686.639	-	-	252.942	-	-	281.972	-	-	112.792	-	-	159.681	-	-	272.473
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	32.895	-	-	2.850	-	-	1.800	-	-	0.675	-	-	1.050	-	-	1.725
Subtotal: Support - Acceptance Testing Cost	-	-	32.895	-	-	2.850	-	-	1.800	-	-	0.675	-	-	1.050	-	-	1.725
Support - Fielding Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86	P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	43.495	-	-	0.640	-	-	2.721	-	-	3.309	-	-	-	-	-	3.309
<i>Subtotal: Support - Fielding Cost</i>	-	-	43.495	-	-	0.640	-	-	2.721	-	-	3.309	-	-	-	-	-	3.309
Support - Operational/Site Activation Cost																		
Sustainment/Interim Contractor Support	-	-	161.617	-	-	40.531	-	-	26.302	-	-	32.181	-	-	1.773	-	-	33.954
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	161.617	-	-	40.531	-	-	26.302	-	-	32.181	-	-	1.773	-	-	33.954
Support - Program Management Cost																		
Government Management	-	-	165.173	-	-	0.546	-	-	15.262	-	-	12.164	-	-	2.696	-	-	14.860
<i>Subtotal: Support - Program Management Cost</i>	-	-	165.173	-	-	0.546	-	-	15.262	-	-	12.164	-	-	2.696	-	-	14.860
Support - Training Cost																		
Equipment	-	-	9.317	-	-	-	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Support - Training Cost</i>	-	-	9.317	-	-	-	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
Gross/Weapon System Cost	95,415.273	22	2,099.136	17,500.529	17	297.509	13,710.708	24	329.057	18,013.444	9	162.121	11,800.000	14	165.200	14,231.348	23	327.321

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	6	24	6	5	11
	Total Obligation Authority	105.200	329.057	113.418	57.820	171.238
ANG	Quantity	11	-	3	9	12
	Total Obligation Authority	192.309	-	48.703	107.380	156.083
Total: Secondary Distribution	Quantity	17	24	9	14	23
	Total Obligation Authority	297.509	329.057	162.121	165.200	327.321

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86			P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars				Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar					

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware (AN/TPQ-53) ^(†)		2015	Lockheed Martin / Syracuse, NY.	SS / FPIF	CECOM	Mar 2017	Mar 2019	7	10,044.580	Y		Feb 2015
Hardware (AN/TPQ-53) ^(†)		2016	Lockheed Martin / Syracuse, NY.	SS / FPIF	CECOM	Mar 2017	Oct 2018	14	10,044.580	Y		Feb 2015
Hardware (AN/TPQ-53) ^(†)		2017	Lockheed Martin / Syracuse, NY.	SS / FPIF	CECOM	Mar 2017	Jun 2019	17	9,846.930	Y		Feb 2015
Hardware (AN/TPQ-53) ^(†)		2018	Lockheed Martin / Syracuse, NY.	SS / FPIF	CECOM	Mar 2018	Sep 2019	24	10,204.800	Y		Feb 2015
Hardware (AN/TPQ-53) ^(†)		2019	Lockheed Martin / Syracuse, NY.	SS / FPIF	CECOM	Mar 2019	Sep 2020	23	10,515.650	Y		Feb 2015

^(†) indicates the presence of a P-21

Remarks:
Army Acquisition Objective (AAO) is 189 systems.

FY 2019 procurement of 23 systems will combine base funding (9 systems) with OCO funding (14 systems) to take advantage of price quantity breaks. Delivery schedule shown is based on the schedule specified in the Full Rate Production contract.

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Exhibit P-21, Production Schedule: PB 2019 Army			Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars	
			Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar

Cost Elements (Units in Each)						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
Hardware (AN/TPQ-53)																															
Prior Years Deliveries: 104																															
1	2015	ARMY		7	0	7																								7	
1	2016	ARMY		14	0	14																								14	
1	2017	ARMY		17	0	17																								17	
1	2018	ARMY		24	0	24																								24	
1	2019	ARMY		23	0	23																								23	

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Exhibit P-21, Production Schedule: PB 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars										Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C C #	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			
Hardware (AN/TPQ-53)																																	
Prior Years Deliveries: 104																																	
1		2015	ARMY	7	0	7	-	-	-	-	-	1	3	3																0			
1		2016	ARMY	14	0	14	2	2	2	3	3	2																		0			
1		2017	ARMY	17	0	17	-	-	-	-	-	-	-	3	3	3	3	2	2	1										0			
1		2018	ARMY	24	0	24	-	-	-	-	-	-	-	-	-	1	1	1	1	2	2	2	2	3	3	3	3			0			
1		2019	ARMY	23	0	23						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	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 2019 Army															Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86										P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars										Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021													Fiscal Year 2022													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Hardware (AN/TPQ-53)																																	
Prior Years Deliveries: 104																																	
1		2015	ARMY	7	7	0																							0				
1		2016	ARMY	14	14	0																							0				
1		2017	ARMY	17	17	0																							0				
1		2018	ARMY	24	24	0																							0				
1		2019	ARMY	23	3	20	2	1	1	2	2	2	2	2	2	2	2	1	1										0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86		P-1 Line Item Number / Title: 8386BA5500 / Counterfire Radars
Item Number / Title [DODIC]: B05310 / AN/TPQ-53 Counterfire Target Acquisition Radar		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Syracuse, NY.	12	24	48	0	6	19	25	0	6	18	24

"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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9042B29810 / Army Command Post Integrated Infrastructure (CPI2)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604818ER9
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	1	-	1	13	14	7	14	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	2.855	-	2.855	38.980	48.587	21.735	49.403	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	2.855	-	2.855	38.980	48.587	21.735	49.403	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	2.855	-	2.855	38.980	48.587	21.735	49.403	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>)	-	-	-	2,855.000	-	2,855.000	2,998.462	3,470.500	3,105.000	3,528.786	Continuing	Continuing

Description:

This OPA program is a new start program in FY 2019.

Command Post Integrated Infrastructure (CPI2) is intended to provide expeditionary, survivable and scalable command post infrastructure to support a broad mission set, including offensive, defensive and stability operations (e.g., defense support of civil authorities). The program office intends to integrate information and support systems into formation appropriate vehicles to provide mobile command post infrastructure and capabilities, which are intended to enhance survivability and agility while allowing the commander to tailor the command post configuration based on the mission.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.855	-	2.855	38.980	48.587	21.735	49.403
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	2.855	-	2.855	38.980	48.587	21.735	49.403

Justification:

FY 2019 funding in the amount of \$2.890M will be used to procure and field initial training base equipment.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	2	940	-	500	-	500	800	300	44	226	-	2,812
Gross/Weapon System Cost (<i>\$ in Millions</i>)	504.753	8.907	8.700	19.153	-	19.153	10.283	9.808	6.728	4.575	-	572.907
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	504.753	8.907	8.700	19.153	-	19.153	10.283	9.808	6.728	4.575	-	572.907
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	504.753	8.907	8.700	19.153	-	19.153	10.283	9.808	6.728	4.575	-	572.907

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	252,376.500	9.476	-	38.306	-	38.306	12.854	32.693	152.909	20.243	-	203.736

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 Advanced Field Artillery Tactical Data System (AFATDS), Joint Automated Deep Operations Coordination System (JADOCS), and Pocket-sized Forward Entry Device (PFED).

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint and Coalition targeting, coordination mission management software application. It links Command and Control (C2), Intelligence, and Air Operations information with execution systems using real time collaborative targeting managers, customized for each service or specific functional area. JADOCS is used to significantly enhance the Joint Force and Component Command's capability to simultaneously develop, coordinate and execute Dynamic and Time Sensitive targets and fire missions, as well as battle space coordination worldwide. JADOCS provides coordination and de-confliction of targeting information at all levels of command structure for the military. JADOCS is used by Air, Ground, Maritime, and Special Operations forces. It provides horizontal (across Services) as well as vertical (within Services) coordination of missions to ensure a common picture of targeting operational status across the entire joint force. As a software application, JADOCS can be configured and customized for each user and location.

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 coalition partner 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. Pocket-sized Forward Entry Device (PFED) Increment II is a software application that operates on the Nett Warrior End User Device (EUD). It will provide the dismounted Forward Observer (FO) and Fire Support Teams (FISTs) the capability and functionality to accurately and rapidly locate ground targets and digitally process a Call For Fire. PFED Increment II answers the Mobile Handheld Computing Environment requirement that all handheld applications reside on the Nett Warrior EUD.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	940	0	500	-	500	800	300	44	226
	Total Obligation Authority	8.907	8.700	19.153	-	19.153	10.283	9.808	6.728	4.575
Total: Secondary Distribution	Quantity	940	-	500	-	500	800	300	44	226
	Total Obligation Authority	8.907	8.700	19.153	-	19.153	10.283	9.808	6.728	4.575

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203726A, 0203728A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B28504 / JADOCs				- / -	- / 1.969	- / 1.722	160 / 1.679	- / -	160 / 1.679
P-5	B28620 / MOD OF IN-SVC EQUIP, AFATDS	P-5a			2 / 199.663	940 / 2.598	- / 2.765	340 / 6.830	- / -	340 / 6.830
P-5	BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)	P-5a			- / 305.090	- / 4.340	- / 4.213	- / 10.644	- / -	- / 10.644
P-40	Total Gross/Weapon System Cost				2 / 504.753	940 / 8.907	- / 8.700	500 / 19.153	- / -	500 / 19.153

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

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

Justification:

FY 2019 Base procurement dollars in the amount of \$1.679 million will be used to continue fielding and training efforts for Joint Automated Deep Operations Coordination System (JADOCs) V2.0.

FY 2019 Base procurement dollars in the amount of \$6.830 million will be used to complete fielding, integration and New Equipment Training (NET) of Advanced Field Artillery Tactical Data System (AFATDS) V6.8.X. \$4.775M million dollars of the total \$6.830M has been allocated for the procurement of additional hardware as part of the Grow The Army (GTA) Initiative.

FY 2019 Base procurement dollars in the amount of \$10.644 million funds procurement of fielding services, ancillary items required for initial fielding, and New Equipment Training (NET) support for Pocket-sized Forward Entry Device (PFED Increment II software. Ancillary equipment includes TACLINK box, cables,hubs and \$7.158 million dollars of the total \$10.644M has been allocated for the procurement of additional hardware as part of the Grow The Army (GTA) Initiative.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28504 / JADOCs

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	160	-	160
Gross/Weapon System Cost (\$ in Millions)	-	1.969	1.722	1.679	-	1.679
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.969	1.722	1.679	-	1.679
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	1.969	1.722	1.679	-	1.679

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	10.494	-	10.494

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	0.272	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	0.850	-	-	0.272	-	-	0.250	-	-	-	-	-	0.250
Support - Program Management Cost																		
Government Management	-	-	-	-	-	0.530	-	-	0.350	-	-	0.329	-	-	-	-	-	0.329
Contractor Management	-	-	-	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	0.630	-	-	0.450	-	-	0.429	-	-	-	-	-	0.429
Support - Training Cost																		
Equipment	-	-	-	-	-	0.489	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	0.489	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
Gross/Weapon System Cost	-	-	-	-	-	1.969	-	-	1.722	10.494	160	1.679	-	-	-	10.494	160	1.679

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	0	160	-	160
	Total Obligation Authority	1.969	1.722	1.679	-	1.679
Total: Secondary Distribution	Quantity	-	-	160	-	160
	Total Obligation Authority	1.969	1.722	1.679	-	1.679

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	2	940	-	340	-	340
Gross/Weapon System Cost (\$ in Millions)	199.663	2.598	2.765	6.830	-	6.830
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	199.663	2.598	2.765	6.830	-	6.830
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	199.663	2.598	2.765	6.830	-	6.830

(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)	99,831.500	2.764	-	20.088	-	20.088

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	71.370	2,288	163.294	-	-	-	-	-	-	14.044	340	4.775	-	-	-	14.044	340	4.775
<i>Subtotal: Recurring Cost</i>	-	-	163.295	-	-	-	-	-	-	-	-	4.775	-	-	-	-	-	4.775
<i>Subtotal: Flyaway Cost</i>	-	-	163.295	-	-	-	-	-	-	-	-	4.775	-	-	-	-	-	4.775
Support - Fielding Cost																		
Fielding	-	-	8.634	-	-	0.943	-	-	1.103	-	-	0.745	-	-	-	-	-	0.745
<i>Subtotal: Support - Fielding Cost</i>	-	-	8.634	-	-	0.943	-	-	1.103	-	-	0.745	-	-	-	-	-	0.745
Support - Program Management Cost																		
Government Management	-	-	7.267	-	-	0.368	-	-	0.468	-	-	0.291	-	-	-	-	-	0.291
<i>Subtotal: Support - Program Management Cost</i>	-	-	7.267	-	-	0.368	-	-	0.468	-	-	0.291	-	-	-	-	-	0.291
Support - System Engineering Cost																		
System Engineering	-	-	9.482	-	-	0.599	-	-	0.701	-	-	0.473	-	-	-	-	-	0.473
<i>Subtotal: Support - System Engineering Cost</i>	-	-	9.482	-	-	0.599	-	-	0.701	-	-	0.473	-	-	-	-	-	0.473
Support - Training Cost																		
Equipment	-	-	10.985	-	-	0.688	-	-	0.493	-	-	0.546	-	-	-	-	-	0.546
<i>Subtotal: Support - Training Cost</i>	-	-	10.985	-	-	0.688	-	-	0.493	-	-	0.546	-	-	-	-	-	0.546

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	99,831.500	2	199.663	2.764	940	2.598	-	-	2.765	20.088	340	6.830	-	-	-	20.088	340	6.830

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	940	0	340	-	340
	Total Obligation Authority	2.598	2.765	6.830	-	6.830
Total: Secondary Distribution	Quantity	940	-	340	-	340
	Total Obligation Authority	2.598	2.765	6.830	-	6.830

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

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family				Item Number / Title [DODIC]: B28620 / MOD OF IN-SVC EQUIP, AFATDS					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware - AFATDS & MC Workstations		2019	DRS Tactical / Melbourne, FL	C / FFP	Army Contracting Cmd, APG, MD	Nov 2018	May 2019	340	14.040	Y		

Remarks:
No P21 required for COTS/GOTS solutions. MFOCS is a COTS procured item.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family
		Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		305.090	4.340	4.213	10.644	-	10.644
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		305.090	4.340	4.213	10.644	-	10.644
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		305.090	4.340	4.213	10.644	-	10.644

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	78.925	386	30.465	-	-	-	-	-	-	14.063	509	7.158	-	-	-	14.063	509	7.158
<i>Subtotal: Recurring Cost</i>	-	-	30.465	-	-	-	-	-	-	-	-	7.158	-	-	-	-	-	7.158
<i>Subtotal: Flyaway Cost</i>	-	-	30.465	-	-	-	-	-	-	-	-	7.158	-	-	-	-	-	7.158
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	7.395	-	-	0.689	-	-	0.640	-	-	0.661	-	-	-	-	-	0.661
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	7.395	-	-	0.689	-	-	0.640	-	-	0.661	-	-	-	-	-	0.661
Support - Fielding Cost																		
Fielding	-	-	42.848	-	-	0.820	-	-	0.920	-	-	0.525	-	-	-	-	-	0.525
<i>Subtotal: Support - Fielding Cost</i>	-	-	42.848	-	-	0.820	-	-	0.920	-	-	0.525	-	-	-	-	-	0.525
Support - Production Engineering Cost																		
Production Engineering	-	-	51.589	-	-	0.644	-	-	0.960	-	-	0.760	-	-	-	-	-	0.760
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	51.589	-	-	0.644	-	-	0.960	-	-	0.760	-	-	-	-	-	0.760
Support - Program Management Cost																		
Government Management	-	-	28.702	-	-	0.650	-	-	0.500	-	-	0.450	-	-	-	-	-	0.450
<i>Subtotal: Support - Program Management Cost</i>	-	-	28.702	-	-	0.650	-	-	0.500	-	-	0.450	-	-	-	-	-	0.450

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family	Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	33.631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	33.631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Development Test and Evaluation	-	-	31.205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	31.205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Equipment	-	-	79.255	-	-	1.537	-	-	1.193	-	-	1.090	-	-	-	-	-	1.090
<i>Subtotal: Support - Training Cost</i>	-	-	79.255	-	-	1.537	-	-	1.193	-	-	1.090	-	-	-	-	-	1.090
Gross/Weapon System Cost	-	-	305.090	-	-	4.340	-	-	4.213	-	-	10.644	-	-	-	-	-	10.644

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.340	4.213	10.644	-	10.644
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.340	4.213	10.644	-	10.644

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9060B28501 / Fire Support C2 Family				Item Number / Title [DODIC]: BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2019	DRS Tactical / Melbourne, Fl	C / FFP	Army Contracting Cmd, APG, MD	Nov 2018	May 2019	509	14.060	Y		

Remarks:
No P21 required for COTS/GOTS solutions. MFOCS is a Commercial Off The Shelf (COTS) procurement.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	11	38	15	10	-	10	5	23	26	14	-	142
Gross/Weapon System Cost (<i>\$ in Millions</i>)	735.047	126.539	35.735	33.837	-	33.837	24.983	49.385	68.021	63.273	-	1,136.820
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	735.047	126.539	35.735	33.837	-	33.837	24.983	49.385	68.021	63.273	-	1,136.820
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	735.047	126.539	35.735	33.837	-	33.837	24.983	49.385	68.021	63.273	-	1,136.820

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	66,822.455	3,329.974	2,382.333	3,383.700	-	3,383.700	4,996.600	2,147.174	2,616.192	4,519.500	-	8,005.775

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: 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, Iraq, and around the world. 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, Iraq and Egypt.

Approved Acquisition Objective (AAO) for AMDPCS shelter systems is 225. OPA OCO European Deterrence Initiatives (EDI) and Grow the Army (GTA) requirements are in addition to AAO. FY 2019 through FY 2023 Base procurement dollars contain Army programmed funding for Grow the Army requirements.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	
Army	Quantity	32	15	10	-	10	5	23	26	14
	Total Obligation Authority	89.379	35.735	32.730	-	32.730	23.883	49.385	68.021	63.273
ANG	Quantity	6	-	0	-	0	-	-	-	-
	Total Obligation Authority	37.160	-	1.107	-	1.107	1.100	-	-	-
Total:	Quantity	38	15	10	-	10	5	23	26	14

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	126.539	35.735	33.837	-	33.837	24.983	49.385	68.021	63.273

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604741A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	AD5070 / AIR & MSL Defense Planning & Control Sys	P-5a			11 / 735.047	38 / 126.539	15 / 35.735	10 / 33.837	- / -	10 / 33.837
P-40	Total Gross/Weapon System Cost				11 / 735.047	38 / 126.539	15 / 35.735	10 / 33.837	- / -	10 / 33.837

*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 2019 Base procurement dollars in the amount of \$33.837 million procures one Air and Missile Defense Planning and Control System (AMDPCS)-B shelter for Theater High Altitude Air Defense (THAAD) Battery and one Air Defense and Airspace Management (ADAM) Cell shelter for Division Headquarters. Additionally procures two ADAM shelters, one Air Battle Management Operations Center (ABMOC) shelter, three Battery Command Post (CP) shelters, and two Sensor Command & Control (SC2) shelters for Grow the Army (GTA).

Beginning in FY 2019 Program Office core employee labor costs moved from Procurement to OMA as part of an OSD auditability directive.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys
		Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	11	38	15	10	-	10
Gross/Weapon System Cost (\$ in Millions)	735.047	126.539	35.735	33.837	-	33.837
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	735.047	126.539	35.735	33.837	-	33.837
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	735.047	126.539	35.735	33.837	-	33.837

(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)	66,822.455	3,329.974	2,382.333	3,383.700	-	3,383.700

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	46,012.090	11	506.133	2,459.050	38	93.444	8,581.667	3	25.745	2,120.800	10	21.208	-	-	-	2,120.800	10	21.208
Subtotal: Recurring Cost	-	-	506.133	-	-	93.444	-	-	25.745	-	-	21.208	-	-	-	-	-	21.208
Subtotal: Flyaway Cost	-	-	506.133	-	-	93.444	-	-	25.745	-	-	21.208	-	-	-	-	-	21.208
Software Cost																		
Recurring Cost																		
5. Software Modifications	-	-	30.400	-	-	2.426	-	-	1.659	-	-	3.159	-	-	-	-	-	3.159
Subtotal: Recurring Cost	-	-	30.400	-	-	2.426	-	-	1.659	-	-	3.159	-	-	-	-	-	3.159
Subtotal: Software Cost	-	-	30.400	-	-	2.426	-	-	1.659	-	-	3.159	-	-	-	-	-	3.159
Support - Fielding Cost																		
Fielding	-	-	73.416	-	-	16.717	-	-	2.703	-	-	3.810	-	-	-	-	-	3.810
Subtotal: Support - Fielding Cost	-	-	73.416	-	-	16.717	-	-	2.703	-	-	3.810	-	-	-	-	-	3.810
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	80.379	-	-	10.898	-	-	2.530	-	-	3.136	-	-	-	-	-	3.136
Subtotal: Support - New Equipment Training (NET) Cost	-	-	80.379	-	-	10.898	-	-	2.530	-	-	3.136	-	-	-	-	-	3.136
Support - Program Management Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys	Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Government Management	-	-	44.719	-	-	3.054	-	-	3.098	-	-	2.524	-	-	-	-	-	2.524
<i>Subtotal: Support - Program Management Cost</i>	-	-	44.719	-	-	3.054	-	-	3.098	-	-	2.524	-	-	-	-	-	2.524
Gross/Weapon System Cost	66,822.455	11	735.047	3,329.974	38	126.539	2,382.333	15	35.735	3,383.700	10	33.837	-	-	-	3,383.700	10	33.837

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	32	15	10	-	10
	Total Obligation Authority	89.379	35.735	32.730	-	32.730
ANG	Quantity	6	-	0	-	0
	Total Obligation Authority	37.160	-	1.107	-	1.107
Total: Secondary Distribution	Quantity	38	15	10	-	10
	Total Obligation Authority	126.539	35.735	33.837	-	33.837

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9266AD5070 / AIR & MSL Defense Planning & Control Sys				Item Number / Title [DODIC]: AD5070 / AIR & MSL Defense Planning & Control Sys				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1. System Integration/Hardware		2017	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Dec 2016	May 2017	38	2,459.050	N		
1. System Integration/Hardware		2018	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Dec 2017	May 2018	3	8,581.670	N		
1. System Integration/Hardware		2019	Northrop Grumman / Huntsville, AL	C / CPFF	Huntsville, AL	Dec 2018	May 2019	10	2,120.800	N		

Remarks:
The Air and Missile Defense Planning and Control System (AMDPCS) is a COTS program. COTS and Government Furnished Equipment (GFE) are integrated by the contractor.

Quantities reflect six shelter types (AMDPCS-A, AMDPCS-B, ADAM Cell, ABMOC, Battery CP, and Sensor C2 Node) and Transit Cased ADSI with varying unit costs. This results in fluctuation of unit cost by year based on the quantities procured in support of Army fielding requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9442BD3955 / Life Cycle Software Support (LCSS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	101.262	4.718	1.992	5.136	-	5.136	4.046	3.923	4.001	4.077	-	129.155
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	101.262	4.718	1.992	5.136	-	5.136	4.046	3.923	4.001	4.077	-	129.155
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	101.262	4.718	1.992	5.136	-	5.136	4.046	3.923	4.001	4.077	-	129.155

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	4.718	1.992	5.136	-	5.136	4.046	3.923	4.001	4.077
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	4.718	1.992	5.136	-	5.136	4.046	3.923	4.001	4.077

Justification:

FY 2019 procurement will provide funding to purchase Radio Frequency Simulators in support of maintaining Air/ground Survivability equipment (RADAR warning receivers, RADAR Frequency Interferometer, CREW/Duke, etc). Simulators will simulate enemy/hostile emitters, enabling CECOM SEC to adjust software on systems to identify/counter air (ground to air missiles) and ground threats (IEDs), increasing protection to soldiers and Air/ground assets.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	307.509	11.063	15.179	18.329	-	18.329	25.858	23.883	26.088	33.661	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	307.509	11.063	15.179	18.329	-	18.329	25.858	23.883	26.088	33.661	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	307.509	11.063	15.179	18.329	-	18.329	25.858	23.883	26.088	33.661	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>)	-	-	-	1,832.900	-	1,832.900	1,521.059	1,492.688	1,534.588	1,346.440	Continuing	Continuing

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:

Network Management System (NMS) funds the Network Operations (NetOps) Trail Boss systems engineering to support converged 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.582	10.195	13.898	-	13.898	21.319	20.118	21.597
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.273	3.255	2.894	-	2.894	2.964	2.459	2.933
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.208	1.729	1.537	-	1.537	1.575	1.306	1.558
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	11.063	15.179	18.329	-	18.329	25.858	23.883	26.088	33.661

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	BA9312 / NETWORK MANAGEMENT SYSTEM				- / 32.774	- / 3.985	- / 5.006	- / 9.285	- / -	- / 9.285
P-5	BA9315 / DATA PRODUCTS				- / 274.735	- / 7.078	- / 10.173	- / 9.044	- / -	- / 9.044
P-40	Total Gross/Weapon System Cost				- / 307.509	- / 11.063	- / 15.179	- / 18.329	- / -	- / 18.329

*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 2019, the NetOps Trail Boss will continue to work integration of NetOps and Cyber program functionality with the Command Post Computing Environment to support version 3 deployment through the FY19-20 timeframe.

FY 2019 Base procurement dollars, in the amount of \$9.285 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. Also includes software application support and fielding of Joint Enterprise Network Manager (JENM) and Joint Tactical Networking Toolkit (J-TNT).

FY 2019 Base Procurement dollars in the amount of \$9.044 million provides Data Product Networking Initialization products in support of all Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) software versions, to include current baselines, baselines in sustainment, and emerging or future baselines. These dollars fund the Data Product creation process and follow the Army Forces Generation (ARFORGEN) model, Unit Set Fielding (USF) priority and top Army priorities for deployment, training, and reset. It also procures the fielding, training, and support of the Initialization Tool Suite (ITS) which includes Warfighter Initialization Tool - Server (WIT- S), and Warfighter Initialization Tool - Manager (WIT-M), and utilization of the Automated Initialization Manager (AIM). Although a shift from static data production to initialization being managed by the unit began in 2018, static data products are still required due to the requirements of the systems that consume this data. Data Products are essential for Blue Force Tracker (BFT) Situational Awareness data, for tactical digital messaging (e.g., Improvised 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9312 / NETWORK MANAGEMENT SYSTEM

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	32.774	3.985	5.006	9.285	-	9.285
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	32.774	3.985	5.006	9.285	-	9.285
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	32.774	3.985	5.006	9.285	-	9.285

(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)	-	-	-	928.500	-	928.500

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	23.499	-	-	0.807	-	-	0.808	-	-	1.142	-	-	-	-	-	1.142
Systems Engineering	-	-	8.641	-	-	2.672	-	-	3.691	-	-	7.621	-	-	-	-	-	7.621
Integration & Testing	-	-	0.634	-	-	0.506	-	-	0.507	-	-	0.522	-	-	-	-	-	0.522
Subtotal: Recurring Cost	-	-	32.774	-	-	3.985	-	-	5.006	-	-	9.285	-	-	-	-	-	9.285
Subtotal: Flyaway Cost	-	-	32.774	-	-	3.985	-	-	5.006	-	-	9.285	-	-	-	-	-	9.285
Gross/Weapon System Cost	-	-	32.774	-	-	3.985	-	-	5.006	928.500	-	9.285	-	-	-	928.500	-	9.285

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.985	5.006	9.285	-	9.285
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.985	5.006	9.285	-	9.285

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9315 / DATA PRODUCTS

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				274.735	7.078	10.173	9.044	-	9.044
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				274.735	7.078	10.173	9.044	-	9.044
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				274.735	7.078	10.173	9.044	-	9.044
<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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Recurring Production	-	-	186.211	-	-	3.868	-	-	5.704	-	-	5.590	-	-	-	-	-	5.590
Test	-	-	14.291	-	-	0.356	-	-	-	-	-	-	-	-	-	-	-	-
PMO	-	-	57.523	-	-	1.214	-	-	1.491	-	-	0.660	-	-	-	-	-	0.660
Training	-	-	16.710	-	-	1.640	-	-	2.285	-	-	2.195	-	-	-	-	-	2.195
<i>Subtotal: Recurring Cost</i>	-	-	<i>274.735</i>	-	-	<i>7.078</i>	-	-	<i>9.480</i>	-	-	<i>8.445</i>	-	-	<i>-</i>	-	-	<i>8.445</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>274.735</i>	-	-	<i>7.078</i>	-	-	<i>9.480</i>	-	-	<i>8.445</i>	-	-	<i>-</i>	-	-	<i>8.445</i>
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	-	-	-	0.693	-	-	0.599	-	-	-	-	-	0.599
<i>Subtotal: Support - System Engineering Cost</i>	-	-	<i>-</i>	-	-	<i>-</i>	-	-	<i>0.693</i>	-	-	<i>0.599</i>	-	-	<i>-</i>	-	-	<i>0.599</i>
Gross/Weapon System Cost	-	-	274.735	-	-	7.078	-	-	10.173	-	-	9.044	-	-	-	-	-	9.044

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.597	5.189	4.613	-	4.613
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	2.273	3.255	2.894	-	2.894

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9705BA9301 / Network Management Initialization and Services	Item Number / Title [DODIC]: BA9315 / DATA PRODUCTS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	1.208	1.729	1.537	-	1.537
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	7.078	10.173	9.044	-	9.044

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9742BA9320 / Maneuver Control System (MCS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0203740A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	11,603	5,044	4,208	250	-	250	-	-	-	-	-	21,105
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,559.407	151.464	132.572	38.015	-	38.015	0.260	-	-	-	-	1,881.718
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,559.407	151.464	132.572	38.015	-	38.015	0.260	-	-	-	-	1,881.718
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,559.407	151.464	132.572	38.015	-	38.015	0.260	-	-	-	-	1,881.718

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	134.397	30.029	31.505	152.060	-	152.060	-	-	-	-	-	89.160

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 the following suite of systems: Command Post of the Future (CPOF), Command Web, and Wave VoIP. The TMC suite is the implementation of essential warfighting functions that incorporate a common look and feel, to application based capabilities leveraging common services and infrastructure which are Common Operating Environment (COE) compliant. TMC is procuring the Tactical Server Infrastructure (TSI) through FY18, which replaces legacy Battle Command Common Services (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.

Procurement of the TSI in FY19 and beyond will take place under P-1 Line Item Number B70000/COE Tactical Server Infrastructure. TSI provides the foundation to consolidate the capabilities for missions related to fires, logistics, intelligence, airspace management and maneuver onto a single common server platform.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	2,327	2,016	-	-	-	-	-	-
	Total Obligation Authority	69.955	63.810	-	-	-	0.260	-	-
ANG	Quantity	1,196	1,399	125	-	125	-	-	-
	Total Obligation Authority	35.878	43.662	19.008	-	19.008	-	-	-
AR	Quantity	1,521	793	125	-	125	-	-	-
	Total Obligation Authority	45.631	25.100	19.007	-	19.007	-	-	-
Total: Secondary Distribution	Quantity	5,044	4,208	250	-	250	-	-	-
	Total Obligation Authority	151.464	132.572	38.015	-	38.015	0.260	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9742BA9320 / Maneuver Control System (MCS)
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0203740A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	BA9320 / Maneuver Control System (MCS)	P-5a	B		11,603 / 1,559.407	5,044 / 151.464	4,208 / 132.572	250 / 38.015	- / -	250 / 38.015
P-40	Total Gross/Weapon System Cost				11,603 / 1,559.407	5,044 / 151.464	4,208 / 132.572	250 / 38.015	- / -	250 / 38.015

*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 2019 Base procurement supports purchase of 250 TMC client/laptops and software licenses. It also covers the fielding costs of all suites of system hardware procured prior to the system transitioning into sustainment. This ensures that the Warfighter will be able to communicate effectively allowing for increased situational awareness and executive decision making capability in a collaborative environment above platform level.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89		P-1 Line Item Number / Title: 9742BA9320 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	11,603	5,044	4,208	250	-	250
Gross/Weapon System Cost (\$ in Millions)	1,559.407	151.464	132.572	38.015	-	38.015
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,559.407	151.464	132.572	38.015	-	38.015
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,559.407	151.464	132.572	38.015	-	38.015

(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)	134.397	30.029	31.505	152.060	-	152.060

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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)	7.968	18,394	146.556	3.570	964	3.441	3.586	683	2.449	-	-	-	-	-	-	-	-	-
Workstation (Tech Refresh) ^(f)	4.114	7,616	31.334	3.570	5,648	20.163	3.572	4,208	15.033	3.584	250	0.896	-	-	-	3.584	250	0.896
Other Hardware	-	-	267.494	-	-	61.375	-	-	55.606	-	-	-	-	-	-	-	-	-
Peripherals	-	-	32.166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training Base	-	-	25.751	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	503.307	-	-	84.980	-	-	73.086	-	-	0.896	-	-	-	-	-	0.896
<i>Subtotal: Hardware Cost</i>	-	-	503.307	-	-	84.980	-	-	73.086	-	-	0.896	-	-	-	-	-	0.896
Software Cost																		
Recurring Cost																		
Software Licenses	-	-	283.443	-	-	23.612	-	-	20.847	-	-	8.250	-	-	-	-	-	8.250
PDSS	-	-	169.984	-	-	2.801	-	-	2.000	-	-	2.000	-	-	-	-	-	2.000
<i>Subtotal: Recurring Cost</i>	-	-	453.427	-	-	26.413	-	-	22.847	-	-	10.250	-	-	-	-	-	10.250
<i>Subtotal: Software Cost</i>	-	-	453.427	-	-	26.413	-	-	22.847	-	-	10.250	-	-	-	-	-	10.250
Support - Common Support Equipment Cost																		
Test and Measurement Equipment	-	-	4.555	-	-	1.299	-	-	2.198	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Common Support Equipment Cost</i>	-	-	4.555	-	-	1.299	-	-	2.198	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89						P-1 Line Item Number / Title: 9742BA9320 / 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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	65.984	-	-	4.667	-	-	3.250	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Data Cost</i>	-	-	65.984	-	-	4.667	-	-	3.250	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	396.995	-	-	26.740	-	-	23.719	-	-	19.471	-	-	-	-	-	19.471
<i>Subtotal: Support - Fielding Cost</i>	-	-	396.995	-	-	26.740	-	-	23.719	-	-	19.471	-	-	-	-	-	19.471
Support - Program Management Cost																		
Government Management	-	-	42.446	-	-	2.946	-	-	3.065	-	-	3.058	-	-	-	-	-	3.058
Contractor Management	-	-	63.051	-	-	4.420	-	-	4.407	-	-	4.340	-	-	-	-	-	4.340
<i>Subtotal: Support - Program Management Cost</i>	-	-	105.497	-	-	7.366	-	-	7.472	-	-	7.398	-	-	-	-	-	7.398
Support - System Engineering Cost																		
System Engineering	-	-	29.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	29.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	134.397	11,603	1,559.407	30.029	5,044	151.464	31.505	4,208	132.572	152.060	250	38.015	-	-	-	152.060	250	38.015

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	2,327	2,016	-	-	-
	Total Obligation Authority	69.955	63.810	-	-	-
ANG	Quantity	1,196	1,399	125	-	125
	Total Obligation Authority	35.878	43.662	19.008	-	19.008
AR	Quantity	1,521	793	125	-	125
	Total Obligation Authority	45.631	25.100	19.007	-	19.007
Total: Secondary Distribution	Quantity	5,044	4,208	250	-	250
	Total Obligation Authority	151.464	132.572	38.015	-	38.015

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9742BA9320 / 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	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	3.570	Y		
Workstation (Initial Procurement)		2017	CHS / Taunton, MA	C / IDIQ	Aberdeen Proving Ground	Jan 2017	Jul 2017	964	3.570	Y		
Workstation (Initial Procurement)		2018	CHS / Taunton, MA	C / IDDQ	Aberdeen Proving Ground	Jan 2018	Jul 2018	683	3.590	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		
Workstation (Tech Refresh)		2018	CHS / Taunton, MA	C / IDDQ	Aberdeen Proving Ground	Jan 2018	Jan 2018	4,208	3.570	Y		
Workstation (Tech Refresh)		2019	CHS / Taunton, MA	C / IDDQ	Aberdeen Proving Ground	Jan 2019	Jan 2019	250	3.580	Y		

Remarks:
Items are COTS/GOTS.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	34,930	-	-	-	-	-	-	-	-	-	-	34,930
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,804.433	131.839	37.201	15.164	-	15.164	33.439	38.054	14.409	41.040	-	2,115.579
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,804.433	131.839	37.201	15.164	-	15.164	33.439	38.054	14.409	41.040	-	2,115.579
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,804.433	131.839	37.201	15.164	-	15.164	33.439	38.054	14.409	41.040	-	2,115.579

(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>)	51.659	-	-	-	-	-	-	-	-	-	-	60.566

Description:

Global Combat Support System-Army (GCSS-Army) 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.

Building on the foundation of GCSS-Army Increment 1, Increment 2 will provide the Army Enterprise Aviation maintenance, enhanced Business Intelligence / Business Warehouse (BI/BW) and Army Pre-Positioned Stock (APS) functional capabilities to deliver greater efficiencies and to improve information flow and accuracy in real time to decision makers. Upon the completion of Increment II, the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A(E)), Unmanned Aircraft System-Initiative (UAS-I), and Army War Reserve Deployment System (AWRDS) will be eligible for retirement since the necessary functionality will have been replaced by GCSS-Army increments. GCSS-Army will provide the Army sustainment support for the warfighter with a seamless flow of timely, accurate, accessible and secure management information that gives combat forces a decisive edge.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	59.405	23.305	15.164	-	15.164	33.439	38.054	14.409	41.040

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	31.000	6.016	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	41.434	7.880	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	131.839	37.201	15.164	-	15.164	33.439	38.054	14.409	41.040

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems **P-1 Line Item Number / Title:** 9875W30001 / Global Combat Support System-Army (GCSS-A)

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	W00800 / GCSS-A Increment 1	P-5a			34,930 / 1,750.786	- / 131.434	- / 30.637	- / 7.085	- / -	- / 7.085
P-5	W11001 / AESIP Increment 1	P-5a			- / 53.647	- / 0.405	- / 2.697	- / 1.238	- / -	- / 1.238
P-5	W11011 / GCSS-Army Increment 2	P-5a			- / -	- / -	- / 3.867	- / 6.841	- / -	- / 6.841
P-40	Total Gross/Weapon System Cost				34,930 / 1,804.433	- / 131.839	- / 37.201	- / 15.164	- / -	- / 15.164

*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 2019 Base procurement dollars in the amount of \$15.164 million will be used as follows:
 \$7.085 million primarily supports GCSS-Army Increment 1 new software/hardware requirements to provide new capabilities. These include near real-time analytics such as integration of Enterprise and Non-Enterprise data without needless replication; dashboards that will present a common operating picture across relevant classes of supply that will allow a commander to see himself/herself; and mobile access to the software system that will allow soldiers in the field to access up to date information.
 \$1.238 million supports AESIP and will be used to purchase hardware and new software products: SPLUNK which replaces ARCSIDE and ViewTrust.
 \$6.841 million will be used for GCSS-Army Increment 2 for new equipment training costs for limited deployment.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	34,930	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,750.786	131.434	30.637	7.085	-	7.085
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,750.786	131.434	30.637	7.085	-	7.085
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,750.786	131.434	30.637	7.085	-	7.085

(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)	50.123	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	1,631,578.000	1	1,631.578	-	-	68.222	-	-	12.337	-	-	-	-	-	-	-	-	-
ERP Deployment Support	-	-	43.848	-	-	15.960	-	-	-	-	-	-	-	-	-	-	-	-
Matrix and Other Support	-	-	33.447	-	-	10.037	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>1,708.873</i>	-	-	<i>94.219</i>	-	-	<i>12.337</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,708.873</i>	-	-	<i>94.219</i>	-	-	<i>12.337</i>	-	-	-	-	-	-	-	-	-
Software Cost																		
Non Recurring Cost																		
Software/Hardware ^(†)	41,913.000	1	41.913	-	-	37.215	-	-	18.300	-	-	7.085	-	-	-	-	-	7.085
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>41.913</i>	-	-	<i>37.215</i>	-	-	<i>18.300</i>	-	-	<i>7.085</i>	-	-	-	-	-	<i>7.085</i>
<i>Subtotal: Software Cost</i>	-	-	<i>41.913</i>	-	-	<i>37.215</i>	-	-	<i>18.300</i>	-	-	<i>7.085</i>	-	-	-	-	-	<i>7.085</i>
Gross/Weapon System Cost	50.123	34,930	1,750.786	-	-	131.434	-	-	30.637	-	-	7.085	-	-	-	-	-	7.085

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1

ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:				
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	59.000	16.741	7.085	-	7.085
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	31.000	6.016	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	41.434	7.880	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	131.434	30.637	7.085	-	7.085

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89				P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)				Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	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	0	85,642.000	Y		
System Integrator Fielding/Training		2015	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Oct 2014	Oct 2014	0	117,524.000	Y		
System Integrator Fielding/Training		2016	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Dec 2015	Dec 2015	0	143,287.000	Y		
System Integrator Fielding/Training		2017	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Dec 2016	Dec 2016	0	0.000	Y		
System Integrator Fielding/Training		2018	Northrop Grunman / Midlothian, VA	C / CPFF	ACCRI, Rock Island Arsenal, IL	Dec 2017	Dec 2017	0	0.000	Y		
Software/Hardware		2018	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Mar 2018	Mar 2018	0	0.000	Y		
Software/Hardware		2019	TBD / TBD	C / CPFF	ACCRI, Rock Island IL	Mar 2019	Mar 2019	0	0.000	Y		

Remarks:
 FY 2019 OPA funding of \$7.085 Million primarily to fund new software/hardware requirements to provide new capabilities. These include near real-time analytics such as integration of Enterprise and Non-Enterprise data without needless replication; dashboards that will present a common operating picture across relevant classes of supply that will allow a commander to see himself/herself; and mobile access to the software system that will allow soldiers in the field to access up to date information. FY19 purchase of software products contractor TBD.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W11001 / AESIP Increment 1

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	53.647	0.405	2.697	1.238	-	1.238
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	53.647	0.405	2.697	1.238	-	1.238
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	53.647	0.405	2.697	1.238	-	1.238

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	53,647.000	1	53.647	405.000	1	0.405	2,697.000	1	2.697	1,238.000	1	1.238	-	-	-	1,238.000	1	1.238
<i>Subtotal: Recurring Cost</i>	-	-	53.647	-	-	0.405	-	-	2.697	-	-	1.238	-	-	-	-	-	1.238
<i>Subtotal: Flyaway Cost</i>	-	-	53.647	-	-	0.405	-	-	2.697	-	-	1.238	-	-	-	-	-	1.238
Gross/Weapon System Cost	-	-	53.647	-	-	0.405	-	-	2.697	-	-	1.238	-	-	-	-	-	1.238

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.405	2.697	1.238	-	1.238
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	0.405	2.697	1.238	-	1.238

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)				Item Number / Title [DODIC]: W11001 / AESIP Increment 1				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AESIP Hardware & Software		2015	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Dec 2014	Jan 2015	0	1,076.000	Y		
AESIP Hardware & Software		2016	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	Jan 2016	Feb 2016	1	3,392.000	Y		
AESIP Hardware & Software		2017	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	May 2017	Jun 2017	1	405.000	Y		
AESIP Hardware & Software		2018	Multiple Hardware/Software / Various	C / FP	ACCRI, Rock Island Arsenal, IL	May 2018	Jun 2018	1	2,697.000	N		
AESIP Hardware & Software		2019	Multiple Hardware/Software / Various	C / FP	ACCRI Rock Island Arsenal IL	May 2019	Jun 2019	1	1,238.000			

Remarks:
 FY19 OPA funding in the amount of \$1.238M will be used for new software products: Splunk and ViewTrust. Splunk is software for searching, monitoring, and analyzing machine-generated big data, via a Web-style interface. This software captures, indexes, and correlates real-time data in a searchable repository from which it can generate graphs, reports, alerts, dashboards, and visualizations. Viewtrust is designed to automate risk and compliance monitoring across the IT environment-regardless of function, geographic location or vendor.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)	Item Number / Title [DODIC]: W11011 / GCSS-Army Increment 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	3.867	6.841	-	6.841
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	3.867	6.841	-	6.841
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	3.867	6.841	-	6.841

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Non Recurring Cost																		
SAP Licenses and Hardware ^(†)	-	-	-	-	-	-	3,867.000	1	3.867	6,841.000	1	6.841	-	-	-	6,841.000	1	6.841
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	3.867	-	-	6.841	-	-	-	-	-	6.841
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	3.867	-	-	6.841	-	-	-	-	-	6.841
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	3.867	-	-	6.841	-	-	-	-	-	6.841

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	3.867	6.841	-	6.841
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	3.867	6.841	-	6.841

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9875W30001 / Global Combat Support System-Army (GCSS-A)				Item Number / Title [DODIC]: W11011 / GCSS-Army Increment 2					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SAP Licenses and Hardware		2018	SAP / TBD	TBD	TBD	Jan 2018	Mar 2018	1	3,867.000		Apr 2018	Oct 2017
SAP Licenses and Hardware		2019	SAP / TBD	TBD	TBD	Jan 2019	Mar 2019	1	6,841.000	N		

Remarks:
FY19 OPA funding in the amount of \$6.841M will be used for new equipment training and fielding costs for limited deployment to support accelerated fielding schedule.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	21.416	4.214	16.140	29.239	-	29.239	18.674	9.576	9.880	9.880	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	21.416	4.214	16.140	29.239	-	29.239	18.674	9.576	9.880	9.880	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	21.416	4.214	16.140	29.239	-	29.239	18.674	9.576	9.880	9.880	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 Integrated Personnel and Pay System-Army (IPPS-A) provides the Army with an integrated, multi-Component, military personnel and pay system, which streamlines Army Human Resources (HR) systems and processes enhancing efficiency and accuracy of personnel and pay procedures in support of 1.1 million Soldiers and their families. IPPS-A will subsume approximately 40 Army legacy systems across the Army, Reserve, and National Guard into a single integrated system. 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 by providing the necessary internal controls and audit procedures as well as preventing erroneous payments and loss of funds.

IPPS-A Increment II will deliver fully 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 and Reserve/National Guard Components to ensure accurate credit for service and individual pay as well as enable disciplined human resource management.

IPPS-A Increment I and Increment II are both designated Acquisition Category IA Major Automation Information Systems (MAIS).

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.214	16.140	29.239	-	29.239	18.674	9.576	9.880
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.214	16.140	29.239	-	29.239	18.674	9.576	9.880

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B66706 / IPPS-A INC 2	P-5a			- / 21.416	- / 4.214	- / 16.140	- / 29.239	- / -	- / 29.239
P-40	Total Gross/Weapon System Cost				- / 21.416	- / 4.214	- / 16.140	- / 29.239	- / -	- / 29.239

*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 2019 Base procurement dollars in the amount of \$29.239 million continue to support New Equipment Training (NET) for Release 3.0. FY 2019 training includes Instructor-Led Training for 66,000 end-users. Distance Learning and Computer-Based Training will be delivered to 1.1 million Soldiers in all 54 states and territories in support of all Army Commands (ACOMs), Army Service Component Commands (ASCCs), Direct Reporting Units (DRUs), Combatant Commands (COCOMs), Corps and Divisions for Active and Reserve personnel stationed in CONUS and OCONUS. Training products will be developed using the Oracle Usability Productivity Kit, which includes instructor manuals, lessons plans, an Electronic Performance Support System and job aids. The deployment approach will implement pre-deployment activities at each location, beginning 360 days in advance of deployment start date. This approach includes on-site data conversion, workflow verification, and "over-the-shoulder" support.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	Item Number / Title [DODIC]: B66706 / IPPS-A INC 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	21.416	4.214	16.140	29.239	-	29.239
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	21.416	4.214	16.140	29.239	-	29.239
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	21.416	4.214	16.140	29.239	-	29.239

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Non Recurring Cost																		
Software Non-Recurring	12,933.000	1	12.933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	12.933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	12.933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Cost																		
Non Recurring Cost																		
System Infrastructure Hardware	4,037.000	1	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	4.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package Fielding Cost																		
Recurring Cost																		
New Equipment Training ^(†)	4,446.000	1	4.446	4,214.000	1	4.214	16,140.000	1	16.140	29,239.000	1	29.239	-	-	-	29,239.000	1	29.239
<i>Subtotal: Recurring Cost</i>	-	-	4.446	-	-	4.214	-	-	16.140	-	-	29.239	-	-	-	-	-	29.239
<i>Subtotal: Package Fielding Cost</i>	-	-	4.446	-	-	4.214	-	-	16.140	-	-	29.239	-	-	-	-	-	29.239
Gross/Weapon System Cost	-	-	21.416	-	-	4.214	-	-	16.140	-	-	29.239	-	-	-	-	-	29.239

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)	Item Number / Title [DODIC]: B66706 / IPPS-A INC 2

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.214	16.140	29.239	-	29.239
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.214	16.140	29.239	-	29.239

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9921B66701 / Integrated Personnel and Pay System-Army (IPPS-A)				Item Number / Title [DODIC]: B66706 / IPPS-A INC 2					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
New Equipment Training		2016	VAR / VAR	Option / CPIF	ACC-NJ	Sep 2016	Aug 2017	1	4,446.000	Y		
New Equipment Training		2017	VAR / VAR	Option / CPIF	ACC-NJ	Sep 2017	Jun 2018	1	4,214.000	Y		
New Equipment Training		2018	VAR / VAR	Option / CPIF	ACC-NJ	Aug 2018	Aug 2018	1	16,140.000	Y		
New Equipment Training		2019	VAR / VAR	Option / CPIF	ACC-NJ	Apr 2019	Nov 2019	1	29,239.000			

Remarks:
 IPPS-A is one program for the entire Army. Release 2.0 will field IPPS-A to the Army National Guard. Release 3.0 will see IPPS-A fielded to the Army Reserve and the Active Army component. New Equipment Training (NET) is funded for FY2017 at \$4,214,000; FY2018 at \$16,140,000 and FY2019 at \$29,239,000. Procurement of Training Development and Execution contract is with the current Systems Integrator, CACI.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 9934W60002 / Logistics Automation
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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	65.426	23.821	-	-	-	-	-	-	-	-	-	89.247
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	65.426	23.821	-	-	-	-	-	-	-	-	-	89.247
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	65.426	23.821	-	-	-	-	-	-	-	-	-	89.247

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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:

Logistics Automation is comprised of the current logistics automation systems that support Army logistical operations throughout the world during both peace and wartime missions. Logistics Automation has the funding subcomponents of the current Standard Army Management Information Systems (STAMIS) which include Standard Army Maintenance System - Enhanced (SAMS-E), Standard Army Retail Supply System (SARSS), Unit Level Logistics Systems - Aviation Enhanced (ULLS-AE), Property Book Unit Supply Enhanced (PBUSE), and Standard Army Ammunition System - Modernized (SAAS-MOD). Logistics Automation is not directly related to Global Combat Support System - Army (GCSS-A), SSN W30001.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	23.821	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	23.821	-	-	-	-	-	-	-	-

Justification:

This program does not have a FY 2019 procurement funding request.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9966BZ9966 / Reconnaissance and Surveying Instrument Set
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ID Code (A=Service Ready, B=Not Service Ready):	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	380	191	77	61	-	61	98	112	120	100	-	1,139
Gross/Weapon System Cost (<i>\$ in Millions</i>)	106.438	16.185	6.093	6.823	-	6.823	12.470	12.719	13.202	12.173	-	186.103
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	106.438	16.185	6.093	6.823	-	6.823	12.470	12.719	13.202	12.173	-	186.103
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	106.438	16.185	6.093	6.823	-	6.823	12.470	12.719	13.202	12.173	-	186.103

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	280.100	84.738	79.130	111.852	-	111.852	127.245	113.563	110.017	121.730	-	163.392

Description:

The Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) is a Digital technical stand off engineering and data collection tool set, designed to perform reconnaissance, obstacle reporting, construction management, and surveying using precision measuring devices in conjunction with a tablet computer that contains user friendly Geographic Information System (GIS) to auto populate Road, Bridge, Minefield, and UXO report forms. It allows greater accuracy and precision of measurements and faster, automatic information collection and less error-prone dissemination. ENFIRE is Common Joint Mapping Tool Kit (CJMTK) compatible for geospatial interoperability and allows data collection from a distance, minimizing exposure to enemy observation; greatly improving safety to soldiers. ENFIRE kits are comprised of commercial off the shelf equipment

ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, ford, tunnel and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the Battalion, Company, Platoon, and Squad levels as a means to facilitate rapid collection and dissemination of information to commanders in the field. Information may be disseminated via the Battle Command Common Services to other ENFIRE sets and to other Mission Command (MC) and Intelligence systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate research and development efforts that have application across Military and General Engineering disciplines.

The long distance laser range finder allows soldiers to quickly and accurately determine a target's bearing and distance from the users' location at a significant standoff range. Used in conjunction with the Defense Advanced Global Positioning System Receiver and ESRI Runtime software, ENFIRE users are able to create overlays of bridges, roads, hasty minefields, and IEDs on digital maps as they collect information related to these targets. Using the video camcorder and digital scanner, ENFIRE users can also collect picture and scanned image files that can be associated with bridge, road, hasty minefield and IED information for reporting purposes. Reports can be generated in hard or soft copy for rapid dissemination.

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	50	77	52	-	52	17	17	-	20

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					P-1 Line Item Number / Title: 9966BZ9966 / Reconnaissance and Surveying Instrument Set					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
	Total Obligation Authority	4.185	6.093	5.805	-	5.805	2.213	1.564	-	3.805
ANG	Quantity	95	-	-	-	-	60	45	73	40
	Total Obligation Authority	8.000	-	-	-	-	7.556	4.180	9.075	4.184
AR	Quantity	46	-	9	-	9	21	50	47	40
	Total Obligation Authority	4.000	-	1.018	-	1.018	2.701	6.975	4.127	4.184
Total:	Quantity	191	77	61	-	61	98	112	120	100
Secondary Distribution	Total Obligation Authority	16.185	6.093	6.823	-	6.823	12.470	12.719	13.202	12.173

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9966BZ9966 / Reconnaissance and Surveying Instrument Set
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	BZ9966 / Reconnaissance and Surveying Instrument Set	P-5a			380 / 106.438	191 / 16.185	77 / 6.093	61 / 6.823	- / -	61 / 6.823
P-40	Total Gross/Weapon System Cost				380 / 106.438	191 / 16.185	77 / 6.093	61 / 6.823	- / -	61 / 6.823

*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 2019 Base procurement dollars in the amount of \$6.823 million supports the procurement of up to 61 ENFIRE systems, fielding, New Equipment Training (NET), integration of Security and Interoperability updates for ENFIRE systems issued to Active Duty, National Guard and Army Reserve Engineer units. Security and interoperability updates are critical to the cyber security posture of the system and are required for connection to NIPR and SIPR networks. Further, ENFIRE kits are comprised of commercial off the shelf equipment.

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9966BZ9966 / 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:			
Resource Summary		Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)		380	191	77	61	-	61
Gross/Weapon System Cost (\$ in Millions)		106.438	16.185	6.093	6.823	-	6.823
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		106.438	16.185	6.093	6.823	-	6.823
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		106.438	16.185	6.093	6.823	-	6.823
<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)		280.100	84.738	79.130	111.852	-	111.852

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	66.093	1,125	74.355	60.000	191	11.460	-	-	-	58.361	61	3.560	-	-	-	58.361	61	3.560
Project Management and Administration	-	-	9.172	-	-	1.229	-	-	1.229	-	-	1.229	-	-	-	-	-	1.229
Fielding / New Equipment Training	-	-	5.242	-	-	1.376	-	-	1.376	-	-	1.376	-	-	-	-	-	1.376
Spares	-	-	0.551	-	-	0.048	-	-	-	-	-	-	-	-	-	-	-	-
Tech Refresh Systems	-	-	2.958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering and Integration and ILS ^(†)	1,416.000	10	14.160	-	-	2.072	-	-	3.488	-	-	0.658	-	-	-	-	-	0.658
<i>Subtotal: Recurring Cost</i>	-	-	106.438	-	-	16.185	-	-	6.093	-	-	6.823	-	-	-	-	-	6.823
<i>Subtotal: Flyaway Cost</i>	-	-	106.438	-	-	16.185	-	-	6.093	-	-	6.823	-	-	-	-	-	6.823
Gross/Weapon System Cost	280.100	380	106.438	84.738	191	16.185	79.130	77	6.093	111.852	61	6.823	-	-	-	111.852	61	6.823

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	50	77	52	-	52
	Total Obligation Authority	4.185	6.093	5.805	-	5.805
ANG	Quantity	95	-	-	-	-
	Total Obligation Authority	8.000	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89	P-1 Line Item Number / Title: 9966BZ9966 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
AR	Quantity	46	-	9	-	9
	Total Obligation Authority	4.000	-	1.018	-	1.018
Total: Secondary Distribution	Quantity	191	77	61	-	61
	Total Obligation Authority	16.185	6.093	6.823	-	6.823

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89			P-1 Line Item Number / Title: 9966BZ9966 / 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		2016	Chenega Technical Innovations / Dumfries, VA	C / CPFF	US Army Geospatial Center	Jun 2016	Oct 2017	190	62.860	Y		Feb 2016
ENFIRE Systems		2017	Chenega Technical Innovations / Dumfries, VA	Option / CPFF	US Army Geospatial Center	Jun 2017	Nov 2017	191	60.000	Y		
ENFIRE Systems		2018	Chenega Technical Innovations / Dumfries, VA	Option / CPFF	US Army Geospatial Center	Jun 2018	Nov 2018	0	0.000	Y		
Engineering and Integration and ILS		2016	Leidos INC / Reston, VA	Option / FFP	US Army Geospatial Center	Aug 2016	Oct 2016	0	0.000	Y		
Engineering and Integration and ILS		2017	Leidos INC / Reston, VA	Option / FFP	US Army Geospatial Center	Aug 2017	Oct 2017	0	0.000	Y		
Engineering and Integration and ILS		2018	Leidos INC / Reston, VA	Option / FFP	US Army Geospatial Center	Aug 2018	Oct 2018	0	0.000	Y		
Engineering and Integration and ILS		2019	Leidos INC / Reston, VA	Option / CPFF	US Army Geospatial Center	Aug 2019	Oct 2019	0	0.000	Y		

Remarks:
ENFIRE Hardware and Software are 100% COTS/GOTS procurements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems	P-1 Line Item Number / Title: 9971B99901 / MOD of In-Svc Equipment (ENFIRE)
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ID Code (A=Service Ready, B=Not Service Ready):	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	153	212	137	142	-	142	482	120	181	483	-	1,910
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.138	1.565	1.134	1.177	-	1.177	7.886	1.962	2.964	7.905	-	25.731
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.138	1.565	1.134	1.177	-	1.177	7.886	1.962	2.964	7.905	-	25.731
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.138	1.565	1.134	1.177	-	1.177	7.886	1.962	2.964	7.905	-	25.731

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	7.438	7.382	8.277	8.289	-	8.289	16.361	16.350	16.376	16.366	-	13.472

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 tech refresh kits are comprised of commercial off the shelf equipment.

The Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) is a digital technical stand off engineering and data collection tool set, designed to perform reconnaissance, obstacle reporting, construction management, and surveying using precision measuring devices in conjunction with a tablet computer that contains user friendly Geographic Information System (GIS) to auto populate road, bridge, minefield, and Unexploded Ordnance (UXO) report forms. It allows greater accuracy and precision of measurements and faster, automatic information collection and less error-prone dissemination. ENFIRE is Common Joint Mapping Tool Kit (CJMTK) compatible for geospatial interoperability and allows data collection from a distance, minimizing exposure to enemy observation; greatly improving safety to soldiers.

ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, ford, tunnel and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the Battalion, Company, Platoon, and Squad levels as a means to facilitate rapid collection and dissemination of information to commanders in the field. Information may be disseminated via the Battle Command Common Services to other ENFIRE sets and to other Mission Command (MC) and Intelligence systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate research and development efforts that have application across Military and General Engineering disciplines.

The long distance laser range finder allows soldiers to quickly and accurately determine a target's bearing and distance from the users' location at a significant standoff range. Used in conjunction with the Defense Advanced Global Positioning System Receiver and 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 rapid dissemination.

ENFIRE Army Acquisition Objective (AAO) = 2,864

ENFIRE Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems					P-1 Line Item Number / Title: 9971B99901 / MOD of In-Svc Equipment (ENFIRE)				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A									

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	212	137	142	-	142	482	120	181	483
	Total Obligation Authority	1.565	1.134	1.177	-	1.177	7.886	1.962	2.964	7.905
Total:	Quantity	212	137	142	-	142	482	120	181	483
Secondary Distribution	Total Obligation Authority	1.565	1.134	1.177	-	1.177	7.886	1.962	2.964	7.905

Justification:
 FY 2019 Base procurement dollars in the amount of \$1.177million supports tech refresh of up to 142 ENFIRE systems. ENFIRE tech refresh kits are comprised of commercial off the shelf equipment.

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 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	317.140	17.693	11.575	12.265	-	12.265	15.150	15.322	15.332	14.445	-	418.922
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	317.140	17.693	11.575	12.265	-	12.265	15.150	15.322	15.332	14.445	-	418.922
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	317.140	17.693	11.575	12.265	-	12.265	15.150	15.322	15.332	14.445	-	418.922

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	33.046	-	-	-	-	-	-	-	-	-	-	43.651

Description:

Army Training Modernization (ATM) consists of three related efforts to include Distributive Training Technology Project (DTTP), Other Training Modernization, and the Distributed Learning System (DLS) to acquire Digital Training Facilities (DTF). DTFs allow rapid delivery of high quality instruction to Army personnel. Infrastructure acquired is based on industry standards and complies with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This assures compatibility with other military services and that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support all Army components.

ATM provides a cost effective solution for training Army personnel. Supported training enhancements will help reduce the current backlog of Military Operational Specialty (MOS) training. Army can significantly increase levels of MOS qualification, 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. 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 30 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.

DLS provides the information technology for delivery and management of training in support of individual and collective task training. Benefits include increased training effectiveness and efficiency, improved readiness, and increased training for customers. Key customers: Soldiers (Active, National Guard, and Reserve) and Army Civilians. Key Stakeholders: Army Training and Doctrine Command (Functional Proponent Agent), all other Army Commands, Program Executive Officer - Enterprise Information Systems, and Army General Staff. DLS provides capabilities using Commercial-Off-The-Shelf (COTS) solutions: (1) Digital Training Facilities (DTF): electronic classrooms that deliver multimedia courseware for self-paced training or group training events; (2) Enterprise Management Center (EMC): centralized system management of the DLS information resources; (3) Army Learning Management System (ALMS): a web-based information system for centralizing, standardizing, and optimizing training, training management, and training delivery functions; (4) Deployed Digital Training Campuses (DDTC): electronic transportable classrooms that deliver multimedia courseware for self-paced instruction or group training events in a deployed location; and, (5) Army e-Learning: web-based training products used to acquire and sustain business, information technology or foreign language skills. As a whole, DLS facilitates the Training Mission Area mission to teach technical and tactical proficiency, develop military occupational specialty (MOS) skills, develop Leaders, support Army Training Transformation, Army Force Generation (ARFORGEN) and Lifelong Learning, promote self-development, and sustain individual and unit combat skills.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

The United States Army Intelligence Center of Excellence (USAICoE) trains Military Intelligence (MI) Soldiers, Leaders from all services, the professional civilian Intelligence workforce and mobilized reserve components as a power support platform for the Active Army. Because of Military Intelligence's reliance on Information Technology, information systems are the primary weapons for the Military Intelligence Corps, and a digital infrastructure that comprises the systems, networks, and databases that MI Soldiers and Leaders will use in the Force is required for training. The USAICoE G-6 is chartered with continuously maintaining and improving this vital digital training infrastructure, which encompasses 5 discreet network enclaves, each operating at different levels of classification, 25 training buildings, 4 field sites, 325 digital classrooms, and 3 data centers. The USAICoE G-6 operates and maintains the largest single site installation of Distributed Common Ground System-Army (DCGS-A).

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.693	11.575	12.265	-	12.265	15.150	15.322	15.332	14.445
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.693	11.575	12.265	-	12.265	15.150	15.322	15.332	14.445

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 92: Elect Equip - Automation

P-1 Line Item Number / Title:
 3001BE4169 / Army Training Modernization

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BE4171 / DISTRIBUTIVE TRAINING TECHNOLOGY	P-5a			- / 58.511	- / 4.066	- / 4.710	- / 4.624	- / -	- / 4.624
P-5	BE4172 / OTHER TRAINING MODERNIZATION	P-5a			- / 69.018	- / -	- / 4.382	- / -	- / -	- / -
P-5	BE4173 / Distributed Learning System (DLS)	P-5a			9,597 / 189.611	- / 13.627	- / 2.483	- / 7.641	- / -	- / 7.641
P-40	Total Gross/Weapon System Cost				- / 317.140	- / 17.693	- / 11.575	- / 12.265	- / -	- / 12.265

*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:

FY 2019 (BE4171) Base procurement dollars in the amount of \$4.624 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 Cyber security 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 2019 (BE4173) Base procurement dollars in the amount of \$7.641 million funds the DLS Enterprise Technology Refreshment (Tech Refresh) program in support of all increments (Digital Training Facilities (DTF), Enterprise Management Center (EMC), Army Learning Management System (ALMS), and Deployed Digital Training Campus (DDTC)). Tech Refresh extends the service life by staying ahead of the obsolescence curve with cost-effective planned technology upgrades, refreshers, and insertions, based on market research and system performance requirements (current and projected). With the advance of information technology, 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization	Item Number / Title [DODIC]: BE4171 / DISTRIBUTIVE TRAINING TECHNOLOGY

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	58.511	4.066	4.710	4.624	-	4.624
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	58.511	4.066	4.710	4.624	-	4.624
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	58.511	4.066	4.710	4.624	-	4.624

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	29,255.500	2	58.511	4,066.000	1	4.066	4,710.000	1	4.710	4,624.000	1	4.624	-	-	-	4,624.000	1	4.624
<i>Subtotal: Recurring Cost</i>	-	-	58.511	-	-	4.066	-	-	4.710	-	-	4.624	-	-	-	-	-	4.624
<i>Subtotal: Flyaway Cost</i>	-	-	58.511	-	-	4.066	-	-	4.710	-	-	4.624	-	-	-	-	-	4.624
Gross/Weapon System Cost	-	-	58.511	-	-	4.066	-	-	4.710	-	-	4.624	-	-	-	-	-	4.624

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	4.066	4.710	4.624	-	4.624
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	4.066	4.710	4.624	-	4.624

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization				Item Number / Title [DODIC]: BE4171 / DISTRIBUTIVE TRAINING TECHNOLOGY				

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
Distributive Training Facility Refresh		2017	CACI Enterprise Solutions, Inc / Reston, VA	C / CR	Washington, DC	Mar 2017	Apr 2017	1	4,066.000	Y		
Distributive Training Facility Refresh		2018	TBD / TBD	C / CR	TBD	Mar 2018	Apr 2018	1	4,710.000	Y		Nov 2017
Distributive Training Facility Refresh		2019	TBD / TBD	C / CR	TBD	Mar 2019	Apr 2019	1	4,624.000	Y		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization
		Item Number / Title [DODIC]: BE4172 / OTHER TRAINING MODERNIZATION

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	69.018	-	4.382	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	69.018	-	4.382	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	69.018	-	4.382	-	-	-

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Non Recurring Cost																		
NTNF ^(†)	34,509.000	2	69.018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USAICoE MI Systems IMT ^(†)	-	-	-	-	-	-	4,382.000	1	4.382	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>69.018</i>	-	-	-	-	-	<i>4.382</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>69.018</i>	-	-	-	-	-	<i>4.382</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	69.018	-	-	-	-	-	4.382	-	-	-	-	-	-	-	-	-

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	4.382	-	-	-
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	-	4.382	-	-	-

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization					Item Number / Title [DODIC]: BE4172 / OTHER TRAINING MODERNIZATION				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
NTNF		2016	GCSS Army Supply System / Fort Leonard Wood	Reqn	Fort Leonard Wood, MO	Sep 2017	Jan 2018	1	38.000	Y		
USAICoE MI Systems IMT		2018	TBS / TBS	C / TBD	Fort Leavenworth, KS	Oct 2018	Jan 2019	1	4,382.000	Y		

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

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization	Item Number / Title [DODIC]: BE4173 / Distributed Learning System (DLS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	9,597	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	189.611	13.627	2.483	7.641	-	7.641
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	189.611	13.627	2.483	7.641	-	7.641
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	189.611	13.627	2.483	7.641	-	7.641

(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)	19.757	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	60,886.500	1	60.887	1,468.000	1	1.468	323.000	1	0.323	1,245.000	1	1.245	-	-	-	1,245.000	1	1.245
Army Learning Management System ^(†)	27,237.000	1	27.237	7,459.000	1	7.459	1,009.000	1	1.009	3,328.000	1	3.328	-	-	-	3,328.000	1	3.328
Enterprise Technology Refreshment ^(†)	101,486.500	1	101.487	4,700.000	1	4.700	1,151.000	1	1.151	3,068.000	1	3.068	-	-	-	3,068.000	1	3.068
<i>Subtotal: Recurring Cost</i>	-	-	189.610	-	-	13.627	-	-	2.483	-	-	7.641	-	-	-	-	-	7.641
<i>Subtotal: Flyaway Cost</i>	-	-	189.610	-	-	13.627	-	-	2.483	-	-	7.641	-	-	-	-	-	7.641
Gross/Weapon System Cost	19.757	9,597	189.611	-	-	13.627	-	-	2.483	-	-	7.641	-	-	-	-	-	7.641

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	-	-	-	-	-
Total:	13.627	2.483	7.641	-	7.641
Secondary Distribution	13.627	2.483	7.641	-	7.641

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3001BE4169 / Army Training Modernization	Item Number / Title [DODIC]: BE4173 / Distributed Learning System (DLS)
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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 Fielding & Implementation		2017	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2016	Nov 2016	1	1,468.000	Y		
System Fielding & Implementation		2018	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2017	Nov 2017	1	323.000	N		
System Fielding & Implementation		2019	Info Sys Engr Cmd / Ft. Detrick, MD	MIPR	CECOM, Ft Detrick, MD	Oct 2018	Nov 2018	1	1,245.000	N		
Army Learning Management System		2017	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft Eustis, VA	Apr 2017	Apr 2017	1	7,459.000	Y		
Army Learning Management System		2018	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft Eustis, VA	Feb 2018	Apr 2018	1	1,009.000	N		
Army Learning Management System		2019	IBM Corporation / Fairfax, VA	C / FFP	MICC, Ft Eustis, VA	Feb 2019	Apr 2019	1	3,328.000	N		
EnterpriseTechnology Refreshment		2017	CDW Government LLC / Vernon Hills, IL	C / FFP	MICC, Ft Eustis, VA	May 2017	May 2017	1	4,700.000	Y		
EnterpriseTechnology Refreshment		2018	To Be Determined / TBD	C / FFP	MICC, Ft Eustis, VA	Apr 2018	Apr 2018	1	1,151.000	N		
EnterpriseTechnology Refreshment		2019	To Be Determined / TBD	C / FFP	MICC, Ft Eustis, VA	Apr 2019	Apr 2019	1	3,068.000	N		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,551.617	146.480	91.983	201.875	28.475	230.350	212.711	215.267	184.811	102.962	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,551.617	146.480	91.983	201.875	28.475	230.350	212.711	215.267	184.811	102.962	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,551.617	146.480	91.983	201.875	28.475	230.350	212.711	215.267	184.811	102.962	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, site, and geographical location.

The Automated Data Processing Equipment (ADPE) program supports the Army's sustaining base automation systems. Each system/program/initiative provides a separate and unique capability that is not funded or supported in another procurement budget line. The Army's primary sustaining base Information Management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. The Army's modernization strategy to support its warfighting forces in the 21st Century leverages and aligns the use of automation technology to consolidate, streamline, and modernize its management information systems to support Command, Control, Communications, Computers (C4) for the Warfighter, power projection strategies, battle space awareness, Army Transformation, 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. 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. This program transferred from Army to DoD in FY18.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<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 0665013A, 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 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>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</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
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<p>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>U.S. ARMY FORCES COMMAND (FORSCOM) HEADQUARTERS MISSION COMMAND SYSTEM (FMCS): Mission Command capability support provides the FORSCOM Commander with the ability to perform Command & Control, have situational awareness, and collaboration to accomplish the training mission and ready Operating Forces for deployment. This includes the provisioning of the ARFORGEN Synchronization Tool (AST), that coordinates and tracks Operating Forces, training, Readiness, and deployments across the Army; the Army Training Information Management System (ARTIMS), an online service/database of record for all Overseas Deployment Training (ODT); the Deployment & Reconstitution Tracking Systems (DARTS), that receives personnel and unit data from a variety of Army information systems, including the Reserve Component Automated System (RCAS), Medical Protection System (MEDPROS), Electronic Military Personnel Office (eMILPO); the Department of the Army Mobilization & Processing System (DAMPS) for coordinating deployments and reconstitution of Operating Forces; the Computerized Movement Planning and Status System (COMPASS), a system that supports collaboration of Unit Movement Data (UMD), Bulk Load Process (BLP), Reference Data, Equipment Characteristics Data (ECD), and Army Type Unit Characteristics (TUCHA) Cargo Generator; the Force & Asset Search Tool (FAAST) is a database driven website (Business Intelligence/Reporting data mining) that assists Commanders, Property Book Officers, Supply Clerks and Command Asset Managers with the management of Class VII Property Book accountable items at multiple levels; the FORSCOM SharePoint Portal is used for extensive collaboration within FORSCOM HQs on both SIPR and NIPR; the Personnel Verification Systems (PVS) is used for collecting and storing personal contact information from the FORSCOM workforce for emergency or urgent situations; the Tasker Management Tool (TMT) manages taskers, coordinates work by action officers both internal and external to FORSCOM HQ; and Video Teleconferencing operations.</p> <p>HEADQUARTERS U.S. ARMY INSTALLATION MANAGEMENT COMMAND (IMCOM) OPERATIONS CENTER AND VTC LIFECYCLE REPLACEMENT: The Operations Center and video telecommunications (VTC) campus infrastructure replacement is required to enable the IMCOM Commander to perform critical Command and Control functions. This equipment enables the Commander to provide necessary communications and situational awareness, cross command collaboration, independent staff communication, and video streaming across 74 Garrisons, 5 Army Commands (ACOM), Army Service Component Commands (ASCC), and collocated Directorates across the globe.</p> <p>CYBER CENTER OF EXCELLENCE (CCOE) SYSTEMS REPLACEMENT FOR CYBER INITIATIVES (IT BASED CYBER TRAINING): This Operation Freedom's Sentinel requirement resources programmatic systems sustenance required to support the building and maintenance of the IT architecture that will be utilized to train CYBER Soldiers. The current servers and computers within the Ft. Gordon Georgia Relocatable SCIF and the Technical Control Facility that train Microwave System Operator Soldiers have insufficient speed and capacity to handle the high level of Cyber Operations to train the Army's Cyber Force. Equipment lifecycle replacement is for IT systems that replicate applications, connectivity, data sets, full spectrum environment, and capabilities in order to train defensive and offensive Cyber Core competencies.</p> <p>CYBER IT BASED TRAINING ACCELERATED LIFE CYCLE REPLACEMENT: Due to the ever evolving Cyber threat, normal 3-5 year Life Cycle Replacement of C4IT Infrastructure across US Army's Cyber School investment IT is not sufficient to maintain the most current IT Infrastructure at the US Army's Cyber School. Current IT system life cycle replacement indicates that CYBER CoE will have to replace systems much earlier and more frequently to maintain the cutting edge Cyber Training Environment. This Operation Freedom's Sentinel requirement allows the Cyber School to react quickly to the latest technological breakthroughs in the CYBER OE Domain allowing CYBER Soldiers to receive the latest and most up to date training on the latest CYBER OE Domain Technology.</p>		

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Line Item MDAP/MAIS Code: N/A		
<p>INTELLIGENCE CENTER OF EXCELLENCE (ICOE) SYSTEMS REPLACEMENT FOR INTELLIGENCE INITIATIVES (AIT/IT BASED MI TRAINING): This Operation Freedom's Sentinel requirement resources programmatic systems sustainment required to support maintenance of the IT architecture utilized to train Military Intelligence (MI) Soldiers. Includes lifecycle replacement for IT systems that Replicate applications, connectivity, data sets, full spectrum environment, and capabilities in order to train MI Soldiers and Leaders to operate worldwide from tactical through strategic levels. Equipment provides the Institutional Training of approximately 20,000 Military Intelligence Soldiers and Leaders annually on MI Core competencies of Information Collection, Analysis, ISR Synchronization, and Dissemination, while using DCGS-A and other MI systems trained at the US Army Intelligence Center of Excellence. Also supports approximately 26 capstone exercise rotations annually for USAICOE Institutional Training courses.</p> <p>WINDOWS 10 UPGRADE OFFICE OF MILITARY COMMISSION (OMC): The OMC at Guantanamo Bay (GTMO) requires upgrade and expansion of the existing IT operating system from Windows 7 to Windows 10 in accordance with the Deputy Secretary of Defense directive to complete rapid deployment and transition to Microsoft Windows 10 Secure Host Baseline (SHB). The Windows 10 upgrade and zero client implementation will strengthen the cyber security posture, transition to the OSD NIPR/SIPR network at GTMO, and concurrently streamline the IT operating environment. This will allow GTMO to provide all services except for Internet and mail service locally in the event that connection to the Enterprise is lost, and reduce latency/response time for the user. The OMC receives enterprise services from DoD Joint Service Provider (JSP). Although the JSP mandated that all tenant organizations must migrate to Windows 10 enterprise operating system by 31 January 2018, OMC is behind the implementation schedule. This requirement supports Counter Terrorism/Other Forces operations.</p> <p>NETWORK PROXY SERVERS FOR GTMO: The Joint Task Force-GTMO requires additional network proxy servers that include firewalls to monitor internal and external network traffic in order to secure network against cyber-attacks. The current proxy hardware is reaching end of life and will no longer be supported by manufacturer. This requirement supports Counter Terrorism/Other Forces operations.</p> <p>ZERO CLIENT AND VIRTUAL DESKTOP INFRASTRUCTURE (VDI) JTF GTMO: The Zero Client infrastructure enables JTF GTMO troopers access SIPR. The VDI servers are the back-end infrastructure that enables this function. Current VDI servers cannot be upgraded from Windows 7 to the Windows 10 operating system. Lifecycle replacement of the VDI servers will enable transition to Windows 10 and expand the VDI footprint to the entire JTF. This requirement supports Counter Terrorism/Other Forces operations.</p> <p>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 effort will reduce the quantity of installation based Army Data Center requirements into Army Core Data Centers servicing all Army Data processing requirements.</p> <p>BATTLE LAB COLLABORATIVE SIMULATION ENVIRONMENT (BLCSE): The Battle Lab Collaborative Simulation Environment (BLCSE) provides warfighters and concept/capability developer's critical mission essential means to experiment and collaborate in a secure, persistent, integrated, innovated, and operationally relevant simulation environment across multiple Army, Joint, and Academia communities. BLCSE provides the critical collaboration connections between ARCIC, the Army Battle Labs (Maneuver, Fires, Aviation, Maneuver Support, Intel, Sustainment, Mission Command, Cyber, Space, and Special Operations), Critical Academia partnerships, and Joint community which provide the overall experimentation community the ability to support Critical Mission Essential Army Experimentation. BLCSE is a federation of constructive simulations, mission command systems, infrastructure, network, collaborative tools, certified common scenarios, and authoritative system performance data on a persistent network supporting over 20 sites permanently with the ability to connect to other sites, to include OCONUS sites, based on mission requirements. It currently has two separate network enclaves: secret and secret releasable Five Eyes. BLCSE is not a stand-alone capability, but an integrated and distributed simulation capability that enables multi-echelon, integrated experiments in support of Army Experimentation by immersing leaders and soldiers in the future Operational Environment. 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. Funding, in the amount of \$1.487M, enables the mission critical replacement of the BLCSE wide area networking infrastructure equipment, to include servers, switches, routers, etc. Additionally, funding in the amount of \$4.0M allows for execution of life cycle replacement of a critical mission essential technical infrastructure of IT equipment that has been in place in excess of five years which has had no sustained life cycle replacement. The Army experimentation program requires a consistent, reliable, innovated, joint supporting and upgraded technical infrastructure to support execution of complex distributed experiments in support of critical mission essential capabilities development. The BLCSE network is a key enabler as part of the Army Experimentation of Force 2025 Maneuvers in developing the mission critical concepts that will ultimately lead to the determination and fielding of required Force 2025 and Beyond critical capabilities.</p>		

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Line Item MDAP/MAIS Code: N/A		
<p>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.</p> <p>ARMY TRAINING INFORMATION ARCHITECTURE (ATIA): The ATIA infrastructure provides the operational environment supporting the Army's learning management systems, the Central Army Registry (CAR), Training Development Capability (TDC), and system interfaces to the Army Training Requirements and Resources System (ATRRS). These systems are the official repository of Army training products and services in accordance with Army Regulation 25-30 and TRADOC Regulation 350-70. The ATIA facilitates mission information infrastructure critical to all Army training development and management. It is used by over 480,000 Active, Guard, and Reserve Soldiers and trainers in residence and is available to deployed Soldiers via distance learning.</p> <p>ACQUISITION, LOGISTICS, AND TECHNOLOGY ENTERPRISE SYSTEMS AND SERVICES (ALTESS): The ALTESS is an accredited Army Data Center providing full life-cycle information technology solutions, support and services to the Acquisition community, the Army and Department of Defense (DoD). ALTESS host over 63 critical enterprise information systems in an all hazards secure environment at the lowest possible cost serving millions of users worldwide. These systems include direct war fighter support, Congressional budget reporting, and major Army IT systems that serve the entire Army population. Funding provides for the minimal infrastructure and services capabilities as mandated in the DOD Core Data Center Architecture and Cybersecurity requirements. These capabilities are the infrastructure costs, mandated security (physical and IT), foundation network, storage, business processes and FTEs to meet the attributes mandated by DoD to deliver standardized capabilities to host and service IT systems in an efficient manner.</p> <p>ARMY TRAINING INFORMATION SYSTEM (ATIS): The ATIS will provide a common operational picture (COP) of the training environment through integrated, interoperable training development, management, scheduling, and delivery capabilities. Existing training information systems do not provide Commanders, leaders, Soldiers, and civilians a centralized COP of the training environment that enables persistent, consistent access to the Training and Education information and products necessary to support readiness to meet emerging threats. Without ATIS, Army organizations will continue to develop and maintain a multitude of training information systems that are not part of an enterprise, thus inhibiting visualization, understanding, and informed decision making.</p> <p>ACADEMIC NETWORK VIRTUALIZATION (ANV): The Defense Language Institute Foreign Language Center (DLIFLC) academic network provides high-speed access to authentic language materials accelerating language acquisition for DoD linguists. The network provides virtualized desktop capability on mobile computing platforms to improve efficiency and security. The ANV leverages mobile computing technology to improve time on task for the DLIFLC student population. The DLIFLC has directly correlated both the speed of language acquisition and proficiency levels reached by students to the amount of exposure students have to authentic language content. The intent is to recapitalize the investment to ensure the continued functionality of the current mobile technology fleet by delivering virtual desktop capability through the student mobile devices. This will be accomplished through the replacement of end-of-life equipment to provide better virtual learning opportunities to the total force through immersive training events delivered via the web and mobile applications as well as language training detachments.</p> <p>PERSISTENT TRAINING ENVIRONMENT (PTE) CYBER RANGE: The United States Army Cyber School Virtual Training Area (CSVTA) provides global, always-on access for members of the Cyber Mission Force to hone individual skills in their own time on their own terms. It provides a safe, sandboxed environment that prevents inadvertent damage to the Department of Defense Information Network as a result of training and experimentation. The CSVTA also supports official courseware and provides for rapid changes and near-limitless scalability at a dramatically lower cost than traditional contracted Cyber Ranges. The CSVTA was developed entirely by uniformed personnel using free and open-source commercial tools and commodity hardware, which prevents vendor lock-in and maximizes the utility of increasingly-limited resources. Instead of requiring a large team of IT personnel to manage, update, and maintain, the CSVTA can be run by a very small, competent team and be grown without practical limit to support new requirements of the Cyber Mission Force at a cost comparable to large public cloud providers.</p>		

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<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>U.S. SOUTHERN COMMAND (SOUTHCOM) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The SOUTHCOM HQ ADPE provides the end user computing services and application environments for SOUTHCOM. It supports users at the United States Army Garrison - Miami (USAG-M) in Doral, Florida, and Security Cooperation Offices (SCO) co-located with U.S. Embassies throughout the USSOUTHCOM area of responsibility (AOR) with both classified and unclassified computing capabilities as well as the hardware supporting these services within the SOUTHCOM HQ. The systems and services include cyber protection to further automate infrastructure scanning and patching to identify security vulnerabilities, investigate security incidents, and take corrective actions. The program provides unified communications servers integrating voice, teleconferencing, video teleconferencing, collaboration, and messaging services to enhance mission success throughout the SOUTHCOM AOR. 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 server processing; storage and switching; data replication for Continuity of Operations Planning (COOP); and data recovery.</p> <p>U.S. ARMY PACIFIC (USARPAC) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): Supports USARPAC Major Subordinate Command (MSC) Center Modernization efforts in Hawaii, Alaska, Japan and Korea and will enable USARPAC to maintain the C4IT equipment purchased for the Mission Command Facility. Due to the geographical disbursement of the theater assets, VTC technology is heavily relied upon for collaboration and command and control. Resources enable USARPAC with the ability to upgrade its distributed Command Centers with mission networks and associated equipment that meet mandated Information Assurance guidelines, Physical Security standards and that are compatible with the Home Station Mission Command Center standards.</p> <p>U.S. EUROPEAN COMMAND (EUCOM) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): DoD Instruction 3020.42 directs the Chairman of the Joint Chiefs of Staff to ensure that all Combatant Commanders develop and maintain continuity plans that support the Defense Continuity Plan. EUCOM lacks an operational Continuity of Operations Planning (COOP) capability, a critical shortfall identified through major theater exercises, the August 2017 Command Cyberspace Readiness Inspection (CCRI), and National Institute of Standards and Technology (NIST) Special Publication (SP) 800-53 and SP 800-34. This capability provides classified and unclassified computing capabilities for EUCOM, SOCEUR, NATO, DIA, and Defense Security Cooperation Agency (DSCA) personnel located at Patch Barracks, Germany; SHAPE, Belgium; Molesworth, United Kingdom; and 39 Offices of Security Cooperation across the Area of Responsibility in the event that operations are disrupted or threatened with disruption and/or primary facilities are rendered inoperative. EUCOM ADPE also supports critical EUCOM HQ staff and Joint Operations Centers (JOC) functions supporting DOD primary mission essential functions (MEFs). Requirements focus on systems and services for establishment and expansion of a viable COOP, network cyber protection, interoperability support for the Joint Operations Center, and addressing IT vulnerabilities at all EUCOM locations without compromising operational readiness. ARMY KNOWLEDGE ONLINE (AKO): As the Army's Enterprise Portal and Army Intranet service provider, AKO is the centerpiece of the Army's Knowledge Management (AKM) strategy and supports the Army Campaign Plan. AKO Forward, a subset of AKO services, is designed to reduce response times for Soldiers on the edge of the Army's network (South West Asia, Europe and Pacific). AKO and AKO-Secret provide enterprise services (Single Sign-On (SSO) user authentication, global web-based collaboration, community pages, shared files and storage) for Army military, civilian, and retiree populations.</p> <p>CONMY HALL LIGHTING SYSTEM MODERNIZATION: The U.S. Military District of Washington (MDW) is the DA and DOD Executive Agent for the coordination and execution of all official ceremonies in the National Capital Region (NCR). Conmy Hall provides MDW and the Army with the largest (and only) DoD indoor ceremonial and concert facility on the East Coast. It is the only year-round indoor venue available to support of DOD/DA directed missions and is an alternate facility for inclement weather in support of official events directed by The White House (WH), Secretary of Defense, The Joint Chiefs of Staff, Department of the Army (DA), Service Components, and the U.S. Army Military District of Washington (USAMDW). In addition, this critical facility hosts official ceremonies for Heads-of-State visiting The White House and Department of State and Army strategic outreach engagements such as Twilight Tattoo, theatrical productions, and concerts. Conmy Hall is also used as a training facility for DOD/DA directed missions to include, but not limited to, State Funerals, Presidential Inaugurations, National Memorial/Veteran's Day Rehearsal of Concept (ROC) Dills and Department of Homeland Security-designated National Special Security Event ROC Drills.</p>		

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<p>FORT EUSTIS ENTERPRISE MULTIMEDIA CENTER (EMC): The EMC delivers Multimedia/Visual Information (M/VI) products to CONUS garrisons, senior commanders and the Army school systems. Requirements include command and control, training, education, logistics, medical, personnel, special operations, engineering, public affairs, and intelligence to convey accurate information to the Soldier, decision-maker, and supporting organizations by utilizing video to communicate this vital information. The EMC utilizes digital editing equipment, to include a video storage system, to produce video productions of the highest quality which support national strategic communications objectives, commander decision making, and training for all regions, missions and functions of the Army, OSD, JCS and HQDA. The Federal Communications Commission (FCC) mandate to transition to digital delivery of video has forced modernization of the video capture systems and studio support equipment.</p> <p>ARMY KNOWLEDGE ONLINE (AKO): As the Army's Enterprise Portal and Army Intranet service provider, AKO is the centerpiece of the Army's Knowledge Management (AKM) strategy and supports the Army Campaign Plan. AKO Forward, a subset of AKO services, is designed to reduce response times for Soldiers on the edge of the Army's network (South West Asia, Europe and Pacific). AKO and AKO-Secret provide enterprise services (Single Sign-On (SSO) user authentication, global web-based collaboration, community pages, shared files and storage) for Army military, civilian, and retiree populations.</p> <p>ARMY ENTERPRISE SIPRNET SHAREPOINT SERVICE (AES3): The AES3 is hosted on the Global Mission Network (GMN) with the capabilities designed to seamlessly link Commander of Coalition Joint Forces Land Component Command-Iraq (CCJFLCC- I) Operation Inherent Resolve (OIR) rotational and supporting units over existing CONUS and Europe infrastructure from Home Station to the Southwest Asia (SWA) theater of operations. This link is accomplished by way of regional hubs established within CONUS and two OCONUS locations, SWA (Kuwait) and Europe (Grafenwoehr), that support the extension of Enterprise SIPRNET SharePoint from deploying units to the SWA Theater or in split-base operations in direct support of OIR in accordance with the Army Force Generation rotational cycle. As directed in USARCENT Fragmentary and Operational Orders, this requirement will provide SharePoint services to the warfighter in Afghanistan and other deployment areas. The CONUS effort supports unit preparation and SharePoint site collections prior to deployment and split based operations once deployed.</p> <p>GLOBAL MISSION NETWORK: This Operation Inherent Resolve (OIR) requirement supports multi-mission networks including Centrix SWA A-I which provides secure data voice and video communication services from the war fighter in Afghanistan to the rotational forces staging to deploy in relief. The GMN mission is currently providing SIPR/Centrix support from Iraq/Afghanistan to multiple installations in CONUS to support the Theater or in direct support of OIR in accordance with the Army Force Generation (ARFORGEN) rotational cycle.</p> <p>PERSONNEL AUTOMATION SYSTEMS (BE4164): PERSONNEL ENTERPRISE SUPPORT-AUTOMATION (PES-A): The PES-A is an Information Technology (IT) Enterprise infrastructure acquisition program that provides integrated support to the Army Human Resources (HR) community and the Army Accessioning IT Mission which encompasses the entire automation support for the Army recruiting, accessioning, and Reserve Officers' Training Corps commissioning missions that satisfy Army manning and force strength requirements supporting the Warfighter. The PES-A is critical to the execution of the day-to-day operations for the Active Army and its components in terms of strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization by providing the hardware, network, and connectivity capabilities that serve as the technical foundation for core Army HR systems, applications, and services supporting the Warfighter. These systems include the Enlisted, Officer, and General Officer Selection Boards, the Soldier's Management System (SMS), the Wounded Warrior System, and the Defense Casualty Information Processing System (DCIPS). The PES-A supports the readiness and well-being of Army personnel enabling efficient and effective management of Soldiers world-wide. This integrated infrastructure serves as the backbone for applications to ensure that crucial data and information is available at all times to Soldiers, Army Leaders, the Department of Defense, and ultimately, Congress. The Army Accessioning IT Mission serves as an enabler for Total Army recruiting [Active, Reserve, and Army National Guard (ARNG)], in the public, educational, and commercial sectors, where the accessioning force and future force reside while exchanging data with Army and Department of Defense (DoD) automated personnel systems. The Army Accessioning IT Mission provides essential automation capabilities to field recruiters, special mission recruiters, and guidance counselors for the Regular Army, Reserves, and ARNG. It reduces administrative tasks while providing essential data on applicants and newly enlisted Soldiers to leadership. The Army Accessioning IT Mission facilitates responses to changes from Office of the Secretary of Defense and Department of the Army concerning accessioning business processes. Operationally it captures applicant information and supports electronic projection of that data and supporting documents. It also provides Continuity of Operations and disaster recovery for Primary Mission Essential Function applications and databases. It maintains historical production data, produces management reports, supports the presentation of Army opportunities, and is the sole information source for delivering leads to recruiters. The Army Accessioning IT Mission also provides the overarching support structure for cyber recruiting and applicant self-processing.</p> <p>UNITED STATES MILITARY ENTRANCE PROCESSING COMMAND (USMEPCOM) INTEGRATED RESOURCE SYSTEM (USMIRS): The USMIRS provides the automation and communications capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Department of Defense (DoD). The USMIRS is used at 65 Military Entrance Processing Stations (MEPS) and approximately 365 Military Entrance Test (MET) sites throughout the US and its territories. The USMIRS is the only official DoD joint accession resource system that processes applicants for enlistment into all Services. It collects, stores, edits, processes, and reports applicant and enlistment data on every US Military applicant to determine their aptitude, medical, and past conduct qualifications for</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

service. The USMIRS interfaces with the Social Security Administration, the United States Citizen and Immigration Service, the Federal Bureau of Investigation through the Office of Personnel Management, commercial and DoD drug laboratories, the recruiting services, the Defense Manpower Data Center, and many other DoD systems. The USMIRS processes approximately 926.8 thousand individual records annually through its Data Services. This program is linked to RDTE Program Element 0605013A, Project Number T04, Project Title USMEPCOM Transformation - IT Modernization.

SOLDER FOR LIFE-TRANSITION ASSISTANCE PROGRAM XXI (SFL-TAP XXI): The Transition Assistance Program (TAP-XXI) application provides an interactive, multimedia approach to pre-separation counseling and job assistance training. This application uses full motion video, graphics, and sound to train clients; and schedules clients for classroom-type instruction. It integrates a complete range of transition services and benefits for Soldiers, Department of Army civilian employees, and their family members as they transition from the military. TAP-XXI is a web-based, three-tiered application with a centralized database for all Transition sites. The user interface is browser-based, the application is based on a storefront intranet model to provide access from within Transition centers. There is no application processing on the desktops located at Transition Centers. TAP-XXI application suite consists of the following subsystems: Transition Assistance Program - Support (TAP-Support), Transition Assistance Program -Online (TAP-Online) and TAP Virtual (Immersive Terf). The infrastructure modernization will provide system stability, support expansion requirements, and ensure reliable customer support.

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. 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.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	146.480	91.983	201.875	28.475	230.350	212.711	215.267	184.811	102.962
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	146.480	91.983	201.875	28.475	230.350	212.711	215.267	184.811	102.962

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army	Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip

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

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B01002 / ITA Resources	P-5a			- / -	- / 41.219	- / -	- / -	- / -	- / -
P-5	BD3956 / OPTICAL DIGITAL EQUIP	P-5a			- / 98.965	- / 2.689	- / 1.347	- / 1.914	- / -	- / 1.914
P-5	BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP)	P-5a			- / 383.737	- / 0.992	- / 0.751	- / 0.757	- / -	- / 0.757
P-5	BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS	P-5a			- / 896.944	- / 43.884	- / 23.317	- / 28.409	2,328 / 19.122	2,328 / 47.531
P-5	BE4162 / MACOM AUTOMATION SYSTEMS	P-5a			- / 1,348.297	- / 30.870	- / 43.069	- / 133.513	- / 9.353	- / 142.866
P-5	BE4164 / PERSONNEL AUTOMATION SYSTEMS	P-5a			- / 820.355	- / 23.965	- / 20.199	- / 26.888	- / -	- / 26.888
P-5	BE4175 / Personnel Automation Systems - West Point	P-5a			- / 3.319	- / 2.861	- / 3.300	- / 10.394	- / -	- / 10.394
P-40	Total Gross/Weapon System Cost				- / 3,551.617	- / 146.480	- / 91.983	- / 201.875	- / 28.475	- / 230.350

*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:
 ITA RESOURCES (B01002):
 FY2019 ITA Resources has no Base or OCO procurement request. Program transferred from the Army to the DoD in FY 2018.

OPTICAL DIGITAL EQUIP (BD3956):
 FY2019 Base procurement dollars in the amount of \$0.849 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' Post-Traumatic Stress Disorder (PTSD) claims and Freedom of Information Act (FOIA) inquiries, reduce the data center foot print, and reduce overall maintenance costs.

FY2019 Base procurement dollars in the amount of \$1.065 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):
 FY2019 Base procurement dollars in the amount of \$0.757 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. FY19 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.

HQ MANAGEMENT INFORMATION SYSTEMS (BE4161):

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY2019 Base procurement dollars in the amount of \$1.261 million support HQDA ADPE replacement of aged Video Teleconferencing (VTC) systems. The VTC systems include high definition monitors, cameras, integrated microphones, and Internet Protocol-based connectivity. Funds also support HQDA staff elements such as the U.S. Army Combat Readiness Center (safety systems, audio visual, and training tools) and G-3 (audio visual and conference rooms) with life cycle replacement requirements.</p> <p>FY2019 Base procurement dollars in the amount of \$6.970 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>FY2019 Base procurement dollars in the amount of \$16.340 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>FY2019 Base procurement dollars in the amount of \$0.479 million support FORSCOM Commander's Mission Command including Command and Control, developing situational awareness, and enhancing collaboration with life cycle replacement of outdated Storage Area Network (SANS) (storage), data back-up capability and application servers. Virtual servers are required to ensure systems are DoD and HQDA compliant, upgraded SANS will meet future storage requirements, and replacement of the data back-up systems will enable information to flow freely between users and the FORSCOM HQ Disaster Recovery Center (DRC).</p> <p>FY2019 Base procurement dollars in the amount of \$3.359 million will support IMCOM LCR of VTC infrastructure and equipment that was installed in 2011 at five IMCOM HQ buildings. Funds will correct non-compliance with cyber security requirements, replace obsolete equipment that is no longer supported by manufacturers, and provide large format video, audio, dual class VTC systems. It also replaces VTC Compression/Decompression (CODEC) devices that are being removed from the DISA Authorized Product List.</p> <p>FY2019 OCO procurement dollars in the amount of \$5.140 million support CCOE Initiatives for Operation Freedoms Sentinel and provides the Ft. Gordon C4IT with Life Cycle Replacement of end user computing and applications environments required for training Army Cyber Soldiers. Items include Virtual Servers, Physical Servers and conventional off the shelf (COTS) solutions required to form the infrastructure of the RLB SCIF and Tech Control Facility virtual training environment. Equipment provides the environment required to train the US Army's Cyber Soldiers to defeat Cyber threats.</p> <p>FY2019 OCO procurement dollars in the amount of \$7.140 million support Cyber IT Based Training for Operation Freedoms Sentinel by providing Ft. Gordon C4IT with accelerated Life Cycle Replacement of end user computing and applications environments required for training Army Cyber Soldiers across the Cyber Domain. Items include Virtual Servers that support DCGS-A and Cloud Nodes, Physical Servers for DCGS-A, network switches and conventional off the shelf (COTS) solutions required to replace investment infrastructure of the Cyber School's virtual training environment. Equipment provides the most up to date environment required to train the US Army's Cyber Soldiers to defeat Cyber threats.</p> <p>FY2019 OCO procurement dollars in the amount of \$4.514 million support ICOE Initiatives for Operation Freedoms Sentinel by providing Lifecycle Replacement of virtual and physical servers, network switches, and C4/IT infrastructure for the Military Intelligence School's virtual training environment.</p> <p>FY2019 OCO procurement dollars in the amount of \$1.600 million support WIN10 OMC-GTMO for Counter Terrorism/Other Forces operations with back end servers, switches, storage devices, and zero client NIPR/SIPR end user devices.</p> <p>FY2019 OCO procurement dollars in the amount of \$0.370 million support Network Proxy-GTMO for Counter Terrorism/Other Forces operations with life cycle replacement of network proxy servers, software licenses, and installation and configuration.</p> <p>FY2019 OCO procurement dollars in the amount of \$0.358 million support JTF-GTMO Zero Client and VDI infrastructure for Counter Terrorism/Other Forces operations with additional servers.</p> <p>MACOM AUTOMATION SYSTEMS (BE4162):</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY2019 Base procurement dollars in the amount of \$55.609 million support ACI procurement of standardized Network Operations tools and licensing, ancillary equipment, and software required to achieve a common operating environment for Army Installation Service Nodes and Army Installation Processing Nodes. It also provides the hardware/software, and servers required for the establishment of the Army Core Enterprise Data Center standardization efforts at Fort Bragg and Fort Knox.</p> <p>FY2019 Base procurement dollars in the amount of \$5.300 million support the BLCSE with routers, switches and video teleconferencing IT equipment.</p> <p>FY2019 Base procurement dollars in the amount of \$0.434 million support TIABCSTB infrastructure and control tools including servers, virtualization hardware, switches, and blade server kits.</p> <p>FY2019 Base procurement dollars in the amount of \$0.786 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>FY2019 Base procurement dollars in the amount of \$0.644 million support ALTESS technical refresh on mandatory core infrastructure elements of the Acquisition Domain's enterprise data center. This includes network and communication equipment, storage area network, chiller and UPS infrastructure, and various peripheral devices which allows for cost avoidance being utilized in a shared environment.</p> <p>FY2019 Base procurement dollars in the amount of \$4.656 million support ATIS infrastructure to include Virtual Storage Area Network storage, virtual servers, and associated software for life cycle support of the existing infrastructure.</p> <p>FY2019 Base procurement dollars in the amount of \$1.168 million support ANV with network equipment including servers, routers, switches, wireless access points, firewalls, Storage Area Network (SAN), and fiber optic cable.</p> <p>FY2019 Base procurement dollars in the amount of \$2.569 million support PTE CYBER Range with network equipment including switches, firewalls, and other related infrastructure.</p> <p>FY2019 Base procurement dollars in the amount of \$4.428 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>FY2019 Base procurement dollars in the amount of \$10.112 million support SOUTHCOM ADPE network devices, computer hardware and procures audio/visual switches and displays as wells as storage.</p> <p>FY2019 Base procurement dollars in the amount of \$2.580 million support USARPAC ADPE display systems, VTC systems, Multi-Network IP Codec Systems, HD Camera Systems, Control Systems, Digital switcher solution Options, Audio systems, source and accessories, rack and hardware materials and all the associated cables needed to connect all the systems. The Command Centers also require infrastructure upgrades to ensure the user can connect to the various networks (NIPR, SIPR and MNIS). Infrastructure upgrades include new switches, patch panels, and associated materials such as transceivers, KVMs, and power upgrades.</p> <p>FY2019 Base procurement dollars in the amount of \$37.538 million support EUCOM ADPE modernization and systematic replacement of obsolete equipment to ensure continuity of operations and systems availability/reliability at multiple EUCOM sites. Equipment provides unified communications servers integrating voice, teleconferencing, high definition video teleconferencing, collaboration, and messaging services to enable robust command and control functions throughout the area of operation. It also provides centralized management of physical and virtual servers to expand computing capabilities while reducing the physical footprint of the hardware infrastructure that supports directory, file, and print services; web servers processing; storage and switching; COOP data replication; and data recovery at the primary HQ, COOP location, and remote sites. Software upgrades are required to implement cyber protection and physical security measures to enable network scanning and patching to identify security vulnerabilities, investigate incidents, and take corrective actions.</p> <p>FY2019 Base procurement dollars in the amount of \$0.088 million support AKO Tech Refresh and will include 35 appliance upgrades for Search, Single Sign On (SSO), Network Oracle, and Monitoring.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY2019 Base procurement dollars in the amount of \$7.014 million support the Conmy Hall facility upgrade design incorporating the required lighting, HD imagery projection and special effects systems. \$4.825 million supports the Floor Projection system that includes a large video display (rear wall and upstage wall projection) comprised of 4K projection on the rear and upstage wall, video projection systems used to illuminate the hall performance floor, and a special front/rear special project effect. \$2.189 million supports the Upstage Wall Projection system that includes a networked graphics server system that is programmed to feed formatted video content to the visual displays according to a timeline created for each type of application. The timeline is triggered by an external control system so that content is played synchronously with audio, stage automation and lighting cues.</p> <p>FY2019 Base procurement dollars in the amount of \$0.587 million support the EMC LCR of the end of life video storage system equipment with 600TB of capacity and operations over 10Gb Ethernet switches and computer interfaces. Camera equipment will include 4/8K recording to removable drives and formatted in a MXF delivery file. Studio equipment will provide the routing and switching of 4/8K and above to broadcast standards established by the FCC and the National Broadcast Association.</p> <p>FY2019 OCO procurement dollars in the amount of \$4.370 million support Army Enterprise SIPR SharePoint Service. Requirement includes 2 NINTEX workflow and forms renewal software for SharePoint 2013 Enterprise (\$870K per year), 3 METALOGIX Suite 12 application renewals for SharePoint 2013 Enterprise (\$1.9M per year), and \$1.6M each year for hardware lifecycle replacement (data domains, CISCO blades, EMC SAN, EMC axbrick, etc.) in support of AES3.</p> <p>FY2019 OCO procurement dollars in the amount of \$4.983 million support Global Mission Network with lifecycle replacement of Riverbeds WAN accelerators, firewalls, routers, 7000 switches, TACLANE, UCS blades (18 per site, 4 sites; 72 total) in support of the GMN mission.</p> <p>PERSONNEL AUTOMATION SYSTEMS (BE4164): FY2019 Base procurement dollars in the amount of \$18.315 million support PES-A and AA-IAA Enterprise application migration, integration into a single architecture, and lifecycle replacement of the Human Resources Center of Excellence (HRCoE) Datacenter IT infrastructure at Ft. Knox, to include: mainframe, web and blade servers, network, backup/recovery, storage, Storage Area Network (SAN), routers, switches, load balance appliances telephony, disaster recovery equipment, Information Assurance compliance, and data center/architecture consolidation requirements.</p> <p>FY2019 Base procurement dollars in the amount of \$7.967 million will be used to purchase infrastructure items to support USMIRS, the Defense Accession Network (DAN) and general operations. This includes user equipment to support Military Health System (MHS) - GENESIS implementation, as well as lifecycle replacement items such as servers, network, backup/recovery, storage, telephony equipment, disaster recovery, and other system components to maintain security and operational support for USMIRS and administrative systems.</p> <p>FY2019 Base procurement dollars in the amount of \$0.606 million support SFL-TAP XXI with additional infrastructure, to include servers and storage devices, to support the Commanders Reporting Requirement and the Terf Immersive Migration into the HRC Data Center. The addition of servers to the TAPXXI footprint will support increasing storage requirements and improve system response times.</p> <p>PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175) FY2019 Base procurement dollars in the amount of \$10.394 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 Academic Expansion - Phase IV - Building 606, Arvin, Bartlett; a cloud-based email system transition to a FEDRAMP certified service and migration from a local Microsoft Exchange platform to a cloud-based supported platform; expansion of the campus wireless infrastructure to support the Cadets, faculty and staff in areas where there is a continued academic requirement to be connected to the Defense Research and Engineering Network (DREN) and its available resources.</p>		

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Exhibit P-5, Cost Analysis: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	41.219	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	41.219	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	36.219	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	36.219	-	-	-	-	-	-	-	-	-	-	-	-
Software Cost																		
Recurring Cost																		
PITI Software ^(†)	-	-	-	5,000.000	1	5.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	-	-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	41.219	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	-	-	-	-	-
Total Obligation Authority	41.219	-	-	-	-
Total: Secondary Distribution	41.219	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / 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 2018	Aug 2018	0	4,830.000	Y		
PITI Hardware		2017	Program Support Center / Washington, DC	C / FFP	WHS, Washington, DC	Jul 2017	Sep 2017	1	13,429.000	Y		
PITI Hardware		2017	Immersive Concepts, LLC / Beltsville, MD	C / FFP	WHS, Washington, DC	Jul 2017	Sep 2017	0	1,931.000	Y		
PITI Hardware		2017	Contracting Division - PL8 / VA	C / FFP	DISA/DITCO, Ft. Meade, MD	May 2017	Jul 2017	0	12,751.000	Y		
PITI Hardware		2017	VAE, Inc. / Reston, VA	C / FFP	WHS, Washington, DC	Jul 2017	Sep 2017	0	3,278.000	Y		
PITI Software		2017	Contracting Division - PL8 / VA	C / FFP	DISA/DITCO	May 2017	Jul 2017	1	5,000.000	Y		

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. WHS - Washington Headquarters Services; DISA - Defense Information Systems Agency; DITCO - Defense Information Technology Contracting Organization

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Exhibit P-5, Cost Analysis: PB 2019 Army													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92					P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP								
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary				Prior Years		FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				98.965		2.689		1.347		1.914		-		1.914				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				98.965		2.689		1.347		1.914		-		1.914				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				98.965		2.689		1.347		1.914		-		1.914				
<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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ARIMS) Hardware ^(†)	10,854.000	1	10.854	1,354.000	1	1.354	933.000	1	0.933	849.000	1	0.849	-	-	-	849.000	1	0.849
<i>Subtotal: Recurring Cost</i>	-	-	10.854	-	-	1.354	-	-	0.933	-	-	0.849	-	-	-	-	-	0.849
Non Recurring Cost																		
(iPERMS) Hardware ^(†)	88,111.000	1	88.111	619.000	1	0.619	414.000	1	0.414	1,065.000	1	1.065	-	-	-	1,065.000	1	1.065
<i>Subtotal: Non Recurring Cost</i>	-	-	88.111	-	-	0.619	-	-	0.414	-	-	1.065	-	-	-	-	-	1.065
<i>Subtotal: Hardware Cost</i>	-	-	98.965	-	-	1.973	-	-	1.347	-	-	1.914	-	-	-	-	-	1.914
Software Cost																		
Non Recurring Cost																		
(iPERMS) Software ^(†)	-	-	-	716.000	1	0.716	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.716	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	-	-	-	0.716	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	98.965	-	-	2.689	-	-	1.347	-	-	1.914	-	-	-	-	-	1.914
Secondary Distribution				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total						
Army				Quantity		-		-		-		-						
				Total Obligation Authority		2.689		1.347		1.914		-						

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Exhibit P-5, Cost Analysis: PB 2019 Army				Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip		Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.689	1.347	1.914	-	1.914

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
(ARIMS) Hardware		2017	TBS / TBS	C / FFP	NAVAIR, Patuxent River, MD	Jun 2018	Aug 2018	1	1,354.000	Y		
(ARIMS) Hardware		2018	TBS / TBS	C / FFP	NAVAIR, Patuxent River, MD	Jun 2018	Aug 2018	1	933.000	Y		
(ARIMS) Hardware		2019	TBS / TBS	C / FFP	NAVAIR, Patuxent River, MD	Jun 2019	Aug 2019	1	849.000	N		
(iPERMS) Hardware		2017	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2018	Jul 2018	0	321.000	Y		
(iPERMS) Hardware		2017	World Wide Technology, Inc. / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Jul 2017	Oct 2017	1	298.000	Y		
(iPERMS) Hardware		2018	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2018	Jun 2018	1	414.000	Y		
(iPERMS) Hardware		2019	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	May 2019	Jul 2019	1	1,065.000	N		
(iPERMS) Software		2017	UNICOM Government, Inc. / Chantilly, VA	C / FFP	MICC, Ft. Knox, KY	Jul 2017	Oct 2017	1	716.000	Y		

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 2019 Army											Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92					P-1 Line Item Number / Title: 3002BD3000 / 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:								
Resource Summary				Prior Years		FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO		FY 2019 Total		
Procurement Quantity (Units in Each)				-		-			-			-			-		-		
Gross/Weapon System Cost (\$ in Millions)				383.737		0.992			0.751			0.757			-		0.757		
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-		
Net Procurement (P-1) (\$ in Millions)				383.737		0.992			0.751			0.757			-		0.757		
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-		
Total Obligation Authority (\$ in Millions)				383.737		0.992			0.751			0.757			-		0.757		
<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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)		298,370.000	1	298.370	150.000	1	0.150	114.000	1	0.114	116.000	1	0.116	-	-	-	116.000	1	0.116
<i>Subtotal: Non Recurring Cost</i>		-	-	298.370	-	-	0.150	-	-	0.114	-	-	0.116	-	-	-	-	-	0.116
<i>Subtotal: Hardware Cost</i>		-	-	298.370	-	-	0.150	-	-	0.114	-	-	0.116	-	-	-	-	-	0.116
Software Cost																			
Non Recurring Cost																			
Logistics Technology Assessment (LTA) SW ^(†)		85,367.000	1	85.367	842.000	1	0.842	637.000	1	0.637	641.000	1	0.641	-	-	-	641.000	1	0.641
<i>Subtotal: Non Recurring Cost</i>		-	-	85.367	-	-	0.842	-	-	0.637	-	-	0.641	-	-	-	-	-	0.641
<i>Subtotal: Software Cost</i>		-	-	85.367	-	-	0.842	-	-	0.637	-	-	0.641	-	-	-	-	-	0.641
Gross/Weapon System Cost		-	-	383.737	-	-	0.992	-	-	0.751	-	-	0.757	-	-	-	-	-	0.757
Secondary Distribution				FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total			
Army				Quantity			-			-			-			-			
				Total Obligation Authority			0.992			0.751			0.757			-			

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.992	0.751	0.757	-	0.757

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Logistics Technology Assessment (LTA) HW		2017	Leidos / McLean, VA	C / FP	Redstone Arsenal, AL	Sep 2017	Nov 2017	1	150.000	Y		
Logistics Technology Assessment (LTA) HW		2018	TBS / TBS	C / FP	TBS	Aug 2018	Oct 2018	1	114.000	N		
Logistics Technology Assessment (LTA) HW		2019	TBS / TBS	C / FP	TBS	Aug 2019	Oct 2019	1	116.000	N		
Logistics Technology Assessment (LTA) SW		2017	Leidos / McLean, VA	C / FP	Redstone Arsenal, AL	Sep 2017	Nov 2017	1	842.000	Y		
Logistics Technology Assessment (LTA) SW		2018	TBS / TBS	C / FP	Redstone Arsenal, AL	Aug 2018	Oct 2018	1	637.000	Y		Jun 2018
Logistics Technology Assessment (LTA) SW		2019	TBS / TBS	C / FP	TBS	Aug 2019	Oct 2019	1	641.000	N		Jun 2019

Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site.

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Exhibit P-5, Cost Analysis: PB 2019 Army						Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip			Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS		
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:		
Resource Summary			Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)			-	-	-	-	2,328	2,328
Gross/Weapon System Cost (\$ in Millions)			896.944	43.884	23.317	28.409	19.122	47.531
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			896.944	43.884	23.317	28.409	19.122	47.531
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			896.944	43.884	23.317	28.409	19.122	47.531
<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)			-	-	-	-	8.214	20.417

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	33,008.000	1	33.008	4,128.000	1	4.128	-	-	-	-	-	-	-	-	-	-	-	-
(PITI) Hardware	749,689.000	1	749.689	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(DCIN/PCIS) Hardware	10,102.000	1	10.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCC Hardware ^(†)	18,389.000	1	18.389	6,434.000	1	6.434	6,394.000	1	6.394	6,970.000	1	6.970	-	-	-	6,970.000	1	6.970
-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	6,693.000	1	6.693	16,340.000	1	16.340	-	-	-	16,340.000	1	16.340
Domain and VTC Bridge	500.000	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORSCOM Hardware ^(†)	-	-	-	-	-	-	6,520.000	1	6.520	479.000	1	0.479	-	-	-	479.000	1	0.479
(HQDA ADPE) USACRC Hardware ^(†)	-	-	-	-	-	-	1,505.000	1	1.505	1,261.000	1	1.261	-	-	-	1,261.000	1	1.261
(HQDA ADPE) G3 Hardware ^(†)	-	-	-	-	-	-	825.000	1	0.825	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS		

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
TRADOC CCOE Cyber Initiatives OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	5,140.000	1	5.140	5,140.000	1	5.140
TRADOC Cyber IT Training OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	7,140.000	1	7.140	7,140.000	1	7.140
TRADOC ICOE Intel Initiatives OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	4,514.000	1	4.514	4,514.000	1	4.514
ARSOUTH Windows 10 OMC-GTMO OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	1,600.000	1	1.600	1,600.000	1	1.600
ARSOUTH Network Proxy-GTMO OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	370.000	1	0.370	370.000	1	0.370
ARSOUTH JTF-GTMO Zero Client/VDI OCO ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	358.000	1	0.358	358.000	1	0.358
INSCOM Operations Center/VTC Infrastructure ^(†)	-	-	-	-	-	-	-	-	-	3,359.000	1	3.359	-	-	-	3,359.000	1	3.359
G-2 FALCON-I OCO ^(†)	-	-	-	28,500.000	1	28.500	-	-	-	-	-	-	-	-	-	-	-	-
G-2 Dionysus OCO ^(†)	-	-	-	1,600.000	1	1.600	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	814.584	-	-	42.152	-	-	21.937	-	-	28.409	-	-	19.122	-	-	47.531
<i>Subtotal: Hardware Cost</i>	-	-	814.584	-	-	42.152	-	-	21.937	-	-	28.409	-	-	19.122	-	-	47.531
Software Cost																		
Non Recurring Cost																		
(HQDA ADPE) Software	4,034.000	1	4.034	479.000	1	0.479	-	-	-	-	-	-	-	-	-	-	-	-
(PITI) Software	75,840.000	1	75.840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	79.874	-	-	0.479	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	79.874	-	-	0.479	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Contractor Management ^(†)	2,486.000	1	2.486	1,253.000	1	1.253	1,380.000	1	1.380	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	2.486	-	-	1.253	-	-	1.380	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	-	-	896.944	-	-	43.884	-	-	23.317	-	-	28.409	8.214	2,328	19.122	20.417	2,328	47.531

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	0	0	2,328	2,328
	Total Obligation Authority	43.884	23.317	28.409	19.122	47.531
Total:	Quantity	-	-	-	2,328	2,328
Secondary Distribution	Total Obligation Authority	43.884	23.317	28.409	19.122	47.531

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS				
Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(HQDA ADPE) Hardware		2017	TBS / TBS	C / FFP	TBS	Mar 2018	May 2018	1	1,761.000	Y		
(HQDA ADPE) Hardware		2017	General Dynamics / Scottsdale, AZ	C / FFP	NSA, Ft. Meade, MD	Jan 2017	Mar 2017	0	76.000	Y		
(HQDA ADPE) Hardware		2017	Iron Bow Technologies, LLC / Chantilly, VA	C / FFP	ACC-APG Natick, Natick, MA	Sep 2017	Oct 2017	0	235.000	Y		
(HQDA ADPE) Hardware		2017	World Wide Technology, Inc / Maryland Heights, MO	C / FFP	ACC-APG Natick, Natick, MA	Sep 2017	Oct 2017	0	1,343.000	Y		
(HQDA ADPE) Hardware		2017	Futron Inc. / Woodbridge, VA	C / FFP	GSA T&NS, Washington, DC	Apr 2017	Aug 2017	0	713.000	Y		
SCC Hardware		2017	IAP Worldwide Service Inc / Cape Canaveral, FL	C / FFP	ACC-RI, Rock Island, IL	May 2017	Jun 2017	1	6,434.000	Y		
SCC Hardware		2018	TBS / TBS	C / FP	TBS	Mar 2018	May 2018	1	6,394.000	N		
SCC Hardware		2019	TBS / TBS	C / FP	TBS	Mar 2019	May 2019	1	6,970.000	N		
USFK Hardware		2017	Iron Bow Technologies, LLC / Chantilly, VA	C / FFP	Yongsan, Korea	Jun 2017	Aug 2017	0	638.000	Y		
USFK Hardware		2017	Insight Public Sector, Inc. / Chantilly, VA	C / FFP	Yongsan, Korea	May 2017	Jul 2017	1	761.000	Y		
USFK Hardware		2018	TBS / TBS	C / FFP	TBS	May 2018	Jun 2018	1	6,693.000	Y		
USFK Hardware		2019	TBS / TBS	C / FFP	TBS	May 2019	Jun 2019	1	16,340.000	N		
FORSCOM Hardware		2018	TBS / TBS	C / FP	TBS	Apr 2018	Jun 2018	1	6,520.000	Y		
FORSCOM Hardware		2019	TBS / TBS	C / FP	TBS	Apr 2019	Jun 2019	1	479.000	N		
(HQDA ADPE) USACRC Hardware		2018	TBS / TBS	C / FFP	TBS	Apr 2018	Jun 2018	1	1,505.000	Y		
(HQDA ADPE) USACRC Hardware		2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jun 2019	1	1,261.000	N		
(HQDA ADPE) G3 Hardware		2018	TBS / TBS	C / FFP	TBS	May 2018	Jul 2018	1	825.000	Y		
TRADOC CCOE Cyber Initiatives OCO	✓	2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jun 2019	1	5,140.000	N		
TRADOC Cyber IT Training OCO	✓	2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jun 2019	1	7,140.000	N		
TRADOC ICOE Intel Initiatives OCO	✓	2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jul 2019	1	4,514.000	N		
ARSOUTH Windows 10 OMC-GTMO OCO	✓	2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jul 2019	1	1,600.000	N		
ARSOUTH Network Proxy-GTMO OCO	✓	2019	TBS / TBS	C / FFP	TBS	Mar 2019	Jun 2019	1	370.000	N		
ARSOUTH JTF-GTMO Zero Client/VDI OCO	✓	2019	TBS / TBS	C / FFP	TBS	Mar 2019	Jul 2019	1	358.000	N		
INSCOM Operations Center/VTC Infrastructure		2019	TBS / TBS	C / FFP	TBS	Mar 2019	May 2019	1	3,359.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
G-2 FALCON-I OCO		2017	TBS / TBS	C / FFP	TBS	Sep 2018	Jan 2019	1	28,500.000	N		
G-2 Dionysus OCO		2017	TBS / TBS	C / FFP	TBS	Sep 2018	Jan 2019	1	1,600.000	N		
Contractor Management		2017	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2016	Sep 2017	1	1,253.000	N		
Contractor Management		2018	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2017	Sep 2018	1	1,380.000	N		

Remarks:
 All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. ACC-APG - Army Contracting Command-Aberdeen Proving Ground; 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; National Security Agency; GSA T&NS - General Services Administration Telecommunications and Network Services.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92		P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip
		Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,348.297	30.870	43.069	133.513	9.353	142.866
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,348.297	30.870	43.069	133.513	9.353	142.866
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,348.297	30.870	43.069	133.513	9.353	142.866

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	2,068.000	1	2,068	762.000	1	0,762	615.000	1	0,615	786.000	1	0,786	-	-	-	786.000	1	0,786
(ANV) Hardware ^(†)	3,989.000	1	3,989	1,112.000	1	1,112	1,150.000	1	1,150	1,168.000	1	1,168	-	-	-	1,168.000	1	1,168
(AOS) Hardware ^(†)	1,688.000	1	1,688	-	-	-	421.000	1	0,421	-	-	-	-	-	-	-	-	-
(ATIS) Hardware ^(†)	-	-	-	-	-	-	3,417.000	1	3,417	2,700.000	1	2,700	-	-	-	2,700.000	1	2,700
<i>Subtotal: Recurring Cost</i>	-	-	7,745	-	-	1,874	-	-	5,603	-	-	4,654	-	-	-	-	-	4,654
Non Recurring Cost																		
(ACI) Army-wide Hardware ^(†)	299,618.000	1	299,618	11,497.000	1	11,497	14,533.000	1	14,533	55,609.000	1	55,609	-	-	-	55,609.000	1	55,609
(BLCSE) Hardware ^(†)	10,702.000	1	10,702	1,439.000	1	1,439	1,064.000	1	1,064	5,300.000	1	5,300	-	-	-	5,300.000	1	5,300
(TIABCSTB) Hardware ^(†)	2,992.000	1	2,992	-	-	-	1,162.000	1	1,162	434.000	1	0,434	-	-	-	434.000	1	0,434
(SPS) Hardware	3,101.000	1	3,101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ALTESS) Hardware ^(†)	44,715.000	1	44,715	-	-	-	-	-	-	644.000	1	0,644	-	-	-	644.000	1	0,644
(AcqBiz) Hardware	4,825.000	1	4,825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AFRICOM HQ ADPE) Hardware ^(†)	485.000	1	0,485	4,369.000	1	4,369	4,375.000	1	4,375	4,428.000	1	4,428	-	-	-	4,428.000	1	4,428
(KT) Hardware	105,171.000	1	105,171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(DRSN) Hardware	9,653.000	1	9,653	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
(AKO) Refresh Hardware ^(t)	71,534.000	1	71.534	-	-	-	3,700.000	1	3.700	88.000	1	0.088	-	-	-	88.000	1	0.088
(EKR) Hardware	1,570.000	1	1.570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TJAGLCS Infrastructure) Hardware ^(t)	-	-	-	1,354.000	1	1.354	417.000	1	0.417	-	-	-	-	-	-	-	-	-
Mission Command Facility (MCF) XVIII ABN Corp	1,504.000	1	1.504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHCOM Hardware ^(t)	-	-	-	-	-	-	3,000.000	1	3.000	10,112.000	1	10.112	-	-	-	10,112.000	1	10.112
PTE CYBER RANGE Hardware ^(t)	-	-	-	-	-	-	1,858.000	1	1.858	2,569.000	1	2.569	-	-	-	2,569.000	1	2.569
USARPAC Hardware ^(t)	-	-	-	-	-	-	4,218.000	1	4.218	2,580.000	1	2.580	-	-	-	2,580.000	1	2.580
MDW Conmy Hall Hardware ^(t)	-	-	-	-	-	-	-	-	-	7,014.000	1	7.014	-	-	-	7,014.000	1	7.014
EUCOM ADPE Hardware ^(t)	-	-	-	-	-	-	-	-	-	37,538.000	1	37.538	-	-	-	37,538.000	1	37.538
IMCOM EUSTIS EMC Hardware ^(t)	-	-	-	-	-	-	-	-	-	587.000	1	0.587	-	-	-	587.000	1	0.587
ARCYBER AES3 OCO ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	4,370.000	1	4.370	4,370.000	1	4.370
ARCYBER GMN OCO ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	4,983.000	1	4.983	4,983.000	1	4.983
EUCOM EMCC JOC Fusion Wall OCO ^(t)	-	-	-	929.000	1	0.929	-	-	-	-	-	-	-	-	-	-	-	-
ARCENT SWA COIC Modernization OCO ^(t)	-	-	-	6,971.000	1	6.971	-	-	-	-	-	-	-	-	-	-	-	-
FORSCOM 20th CBRNE ^(t)	-	-	-	1,099.000	1	1.099	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	555.870	-	-	27.658	-	-	34.327	-	-	126.903	-	-	9.353	-	-	136.256
<i>Subtotal: Hardware Cost</i>	-	-	563.615	-	-	29.532	-	-	39.930	-	-	131.557	-	-	9.353	-	-	140.910
Software Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
(ACI) R Army-wide Software	723,286.000	1	723.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ATIS) Software ^(†)	-	-	-	-	-	-	911.000	1	0.911	1,956.000	1	1.956	-	-	-	1,956.000	1	1.956
<i>Subtotal: Recurring Cost</i>	-	-	723.286	-	-	-	-	-	0.911	-	-	1.956	-	-	-	-	-	1.956
Non Recurring Cost																		
(ACI) N-R Army-wide Software	41,084.000	1	41.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(BLSCE) Software	523.000	1	0.523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TIABCSTB) Software	885.000	1	0.885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ATIA) Software ^(†)	216.000	1	0.216	-	-	-	162.000	1	0.162	-	-	-	-	-	-	-	-	-
(SPS) Software	804.000	1	0.804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ISM) Software	835.000	1	0.835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(KT) Software	17,049.000	1	17.049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(TJAGLCS Infrastructure) Software ^(†)	-	-	-	637.000	1	0.637	208.000	1	0.208	-	-	-	-	-	-	-	-	-
ATIS Software ^(†)	-	-	-	-	-	-	229.000	1	0.229	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	61.396	-	-	0.637	-	-	0.599	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	784.682	-	-	0.637	-	-	1.510	-	-	1.956	-	-	-	-	-	1.956
Support - Program Management Cost																		
Contractor Management ^(†)	-	-	-	701.000	1	0.701	1,629.000	1	1.629	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	0.701	-	-	1.629	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1,348.297	-	-	30.870	-	-	43.069	-	-	133.513	-	-	9.353	-	-	142.866

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	30.870	43.069	133.513	9.353	142.866
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	30.870	43.069	133.513	9.353	142.866

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(ATIA) Hardware		2017	Dell Federal Systems LP / Rock Round, TX	C / FFP	MICC, Fort Eustis, VA	Sep 2017	Oct 2017	1	657.000	Y		
(ATIA) Hardware		2017	Wildflower International, LTD / Santa Fe, NM	C / FFP	MICC, Fort Eustis, VA	Aug 2017	Aug 2017	0	60.000	Y		
(ATIA) Hardware		2017	GovConnections, Inc. / Rockville, MD	C / FFP	MICC, Fort Eustis, VA	Jul 2017	Jul 2017	0	19.000	Y		
(ATIA) Hardware		2018	TBS / TBS	C / FP	MICC, Fort Eustis, VA	Jul 2018	Sep 2018	1	615.000	N		
(ATIA) Hardware		2019	TBS / TBS	C / FP	MICC, Fort Eustis, VA	Jul 2019	Sep 2019	1	786.000	N		
(ANV) Hardware		2017	Iron Bow Technologies / Chantilly, VA	C / FFP	MICC, Ft. Leavenworth, KS	May 2017	Jun 2017	1	1,112.000	Y		
(ANV) Hardware		2018	TBS / TBS	C / FP	TBS	Jun 2018	Aug 2018	1	1,150.000	N		
(ANV) Hardware		2019	TBS / TBS	C / FP	TBS	Jun 2019	Aug 2019	1	1,168.000	N		
(AOS) Hardware		2017	TBS / TBS	C / FP	TBS	Apr 2018	Jul 2018	0	0.000	Y		
(AOS) Hardware		2018	TBS / TBS	C / FP	TBS	Apr 2018	Jul 2018	1	421.000	Y		
(ATIS) Hardware		2018	TBS / TBS	C / FP	TBS	Apr 2018	Jul 2018	1	3,417.000			
(ATIS) Hardware		2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jul 2019	1	2,700.000	N		
(ACI) Army-wide Hardware		2017	TBS / TBS	C / FFP	ACC-APG, Aberdeen Proving Ground, MD	Mar 2018	Apr 2018	0	2,249.000	Y		
(ACI) Army-wide Hardware		2017	ISEC Engineering Support / Ft. Huachuca, AZ	MIPR	PEO EIS, Fort Belvoir, VA	Nov 2017	Nov 2017	0	816.000	Y		
(ACI) Army-wide Hardware		2017	Iron Bow Technologies / Chantilly, VA	C / FFP	ACC-APG, Aberdeen Proving Ground, MD	Sep 2017	Dec 2017	1	7,814.000	Y		
(ACI) Army-wide Hardware		2017	NES Associates LLC / Alexandria, VA	C / FFP	DOI, Herndon, VA	Mar 2017	Apr 2017	0	618.000	Y		
(ACI) Army-wide Hardware		2018	TBS / TBS	C / FP	ACC-APG, Aberdeen Proving Ground, MD	Apr 2018	Jun 2018	1	14,533.000	Y		
(ACI) Army-wide Hardware		2019	TBS / TBS	C / FP	ACC-APG, Aberdeen Proving Ground, MD	Apr 2019	Jun 2019	1	55,609.000	N		
(BLCSE) Hardware		2017	World Wide Technology / Maryland Heights, MO	C / FFP	MICC, Ft. Eustis, VA	Aug 2017	Sep 2017	1	878.000	Y		
(BLCSE) Hardware		2017	Dell Federal Systems LP / Rock Round, TX	C / FFP	MICC, Ft. Eustis, VA	Sep 2017	Sep 2017	0	112.000	Y		
(BLCSE) Hardware		2017	Hewlett Packard / Herndon, VA	C / FFP	MICC, Ft. Eustis, VA	May 2017	Jun 2017	0	108.000	Y		
(BLCSE) Hardware		2017	HPI Federal LLC / Washington, DC	C / FFP	MICC, Ft. Eustis, VA	May 2017	Jun 2017	0	341.000	Y		
(BLCSE) Hardware		2018	TBS / TBS	C / FP	TBS	Jun 2018	Aug 2018	1	1,064.000	N		
(BLCSE) Hardware		2019	TBS / TBS	C / FP	TBS	Jun 2019	Aug 2019	1	5,300.000	N		
(TIABCSTB) Hardware		2018	TBS / TBS	C / FFP	MICC, Ft. Eustis, VA	May 2018	Jun 2018	1	1,162.000	Y		
(TIABCSTB) Hardware		2019	TBS / TBS	C / FFP	MICC, Ft. Eustis, VA	May 2019	Jun 2019	1	434.000	N		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS				
Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
(ALTESS) Hardware		2019	TBS / TBS	C / FFP	TBS	Mar 2019	May 2019	1	644.000	N		
(AFRICOM HQ ADPE) Hardware		2017	DISA DITCO / Scott Air Force Base, IL	MIPR	AFRICOM, Stuttgart, Germany	Aug 2017	Sep 2017	0	2,395.000	Y		
(AFRICOM HQ ADPE) Hardware		2017	GSA-FAS / Philadelphia, PA	MIPR	AFRICOM, Stuttgart, Germany	Apr 2017	Jul 2017	1	1,974.000	Y		
(AFRICOM HQ ADPE) Hardware		2018	TBS / TBS	C / FP	TBS	Apr 2018	Jul 2018	1	4,375.000	Y		
(AFRICOM HQ ADPE) Hardware		2019	TBS / TBS	C / FP	TBS	Apr 2019	Jul 2019	1	4,428.000	N		
(AKO) Refresh Hardware		2018	TBS / TBS	C / FFP	TBS	May 2018	Jul 2018	1	3,700.000	Y		
(AKO) Refresh Hardware		2019	TBS / TBS	C / FFP	TBS	Mar 2019	Apr 2019	1	88.000	N		
(TJAGLCS Infrastructure) Hardware		2017	TBS / TBS	MIPR	USACE, Huntsville, AL	Jun 2018	Jul 2018	1	1,354.000	Y		
(TJAGLCS Infrastructure) Hardware		2018	TBS / TBS	C / FP	TBS	Feb 2018	Mar 2018	1	417.000	N		
SOUTHCOM Hardware		2018	TBS / TBS	C / FP	TBS	Apr 2018	Jun 2018	1	3,000.000	Y		
SOUTHCOM Hardware		2019	TBS / TBS	C / FP	TBS	Apr 2019	Jun 2019	1	10,112.000	N		
PTE CYBER RANGE Hardware		2018	TBS / TBS	C / FP	TBS	Mar 2018	Apr 2018	1	1,858.000	Y		
PTE CYBER RANGE Hardware		2019	TBS / TBS	C / FP	TBS	Mar 2019	Apr 2019	1	2,569.000	N		
USARPAC Hardware		2018	TBS / TBS	C / FFP	TBS	May 2018	Aug 2018	1	4,218.000	Y		
USARPAC Hardware		2019	TBS / TBS	C / FFP	TBS	May 2019	Aug 2019	1	2,580.000	N		
MDW Conmy Hall Hardware		2019	TBS / TBS	C / FFP	TBS	Mar 2019	Apr 2019	1	7,014.000	N		
EUCOM ADPE Hardware		2019	TBS / TBS	C / FFP	TBS	May 2019	Jul 2019	1	37,538.000	N		
IMCOM EUSTIS EMC Hardware		2019	TBS / TBS	C / FFP	TBS	Jul 2019	Oct 2019	1	587.000	N		
ARCYBER AES3 OCO	✓	2019	TBS / TBS	C / FP	TBS	Jun 2019	Aug 2019	1	4,370.000	N		
ARCYBER GMN OCO	✓	2019	TBS / TBS	C / FP	TBS	Jul 2019	Sep 2019	1	4,983.000	N		
EUCOM EMCC JOC Fusion Wall OCO		2017	CSRA, Inc. / Falls Church, VA	C / CPFF	GSA FAS, Philadelphia, PA	Jun 2017	Apr 2018	1	929.000	Y		
ARCENT SWA COIC Modernization OCO		2017	TBS / TBS	C / FFP	TBS	Jun 2018	Sep 2018	1	6,971.000	Y		
FORSCOM 20th CBRNE		2017	General Dynamics Mission Sys / Taunton, MA	C / FFP	ACC-APG, Aberdeen Proving Ground, MD	Sep 2017	Dec 2017	1	1,099.000	Y		
(ATIS) Software		2018	TBS / TBS	C / FFP	TBS	Apr 2018	Jul 2018	1	911.000	N		
(ATIS) Software		2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jul 2019	1	1,956.000	N		
(ATIA) Software		2018	TBS / TBS	C / FP	TBS	Jul 2018	Sep 2018	1	162.000	Y		
(TJAGLCS Infrastructure) Software		2017	TBS / TBS	MIPR	USACE, Huntsville, AL	Jun 2018	Jul 2018	1	637.000	Y		
(TJAGLCS Infrastructure) Software		2018	TBS / TBS	C / FP	TBS	Jun 2018	Jul 2018	1	208.000	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip				Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ATIS Software		2018	TBS / TBS	C / FFP	TBS	May 2018	Jul 2018	1	229.000	N		
Contractor Management		2017	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2016	Jul 2017	1	701.000	N		
Contractor Management		2018	PM I3C2 / Ft. Belvoir, VA	RO	PEO EIS, Ft. Belvoir, VA	Oct 2017	Jul 2018	1	1,629.000	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; ACC-APG - Army Contracting Command-Aberdeen Proving Ground; USACE - U.S. Army Corps of Engineers; PM I3C2 - Product Manager Installation Information Infrastructure-Communications and Capabilities; PEO EIS - Program Executive Office, Enterprise Information Systems; GSA FAS - General Services Administration-Federal Acquisition Services

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	820.355	23.965	20.199	26.888	-	26.888
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	820.355	23.965	20.199	26.888	-	26.888
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	820.355	23.965	20.199	26.888	-	26.888

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
(ACCHR) Recurring Hardware ^(†)	-	-	-	-	-	-	1,829.000	1	1.829	-	-	-	-	-	-	-	-	-
(USMA) Hardware	17,602.000	1	17.602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA-IAA) Hardware Recurring	71,182.000	1	71.182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	88.784	-	-	-	-	-	1.829	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
(AA-IAA) Hardware Non-Recurring ^(†)	-	-	-	6,236.000	1	6.236	-	-	-	-	-	-	-	-	-	-	-	-
(PES-A) Hardware ^(†)	686,600.000	1	686.600	1,734.000	1	1.734	8,252.000	1	8.252	18,315.000	1	18.315	-	-	-	18,315.000	1	18.315
(MIRS) Hardware ^(†)	33,432.000	1	33.432	11,758.000	1	11.758	6,521.000	1	6.521	7,967.000	1	7.967	-	-	-	7,967.000	1	7.967
(ACCHR) Non-Recurring Hardware	9,098.000	1	9.098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SFL-TAP Hardware ^(†)	-	-	-	-	-	-	597.000	1	0.597	606.000	1	0.606	-	-	-	606.000	1	0.606
EUCOM ^(†)	-	-	-	-	-	-	3,000.000	1	3.000	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	729.130	-	-	19.728	-	-	18.370	-	-	26.888	-	-	-	-	-	26.888
Subtotal: Hardware Cost	-	-	817.914	-	-	19.728	-	-	20.199	-	-	26.888	-	-	-	-	-	26.888
Software Cost																		

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Non Recurring Cost																		
(ACCHR) Software	2,441.000	1	2.441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(Keystone) Software Non-Recurring ^(t)	-	-	-	900.000	1	0.900	-	-	-	-	-	-	-	-	-	-	-	-
(PES-A) Software ^(t)	-	-	-	3,337.000	1	3.337	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	2.441	-	-	4.237	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	2.441	-	-	4.237	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	820.355	-	-	23.965	-	-	20.199	-	-	26.888	-	-	-	-	-	26.888

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	23.965	20.199	26.888	-	26.888
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	23.965	20.199	26.888	-	26.888

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS
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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
(ACCHR) Recurring Hardware		2018	TBS / TBS	C / FP	TBS	May 2018	Jun 2018	1	1,829.000	Y		
(AA-IAA) Hardware Non-Recurring		2017	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Mar 2018	May 2018	0	167.000	Y		
(AA-IAA) Hardware Non-Recurring		2017	World Wide Technology / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Sep 2017	Nov 2017	1	3,085.000	Y		
(AA-IAA) Hardware Non-Recurring		2017	Government Acquisition Inc. / Cincinnati, OH	C / FFP	MICC, Ft. Knox, KY	Sep 2017	Oct 2017	0	1,115.000	Y		
(AA-IAA) Hardware Non-Recurring		2017	DDC Construction Services, LLC / Albuquerque, NM	C / FFP	MICC, Ft. Knox, KY	Aug 2017	Oct 2017	0	1,869.000	Y		
(PES-A) Hardware		2017	World Wide Technology / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Jul 2017	Sep 2017	1	1,734.000	Y		
(PES-A) Hardware		2018	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jun 2018	Aug 2018	1	8,252.000	N		
(PES-A) Hardware		2019	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jun 2019	Aug 2019	1	18,315.000	N		
(MIRS) Hardware		2017	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2018	Jun 2018	1	11,758.000	Y		
(MIRS) Hardware		2018	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Apr 2018	Jun 2018	1	6,521.000	Y		
(MIRS) Hardware		2019	TBS / TBS	C / FFP	MICC, Ft. Knox, KY	Jan 2019	Apr 2019	1	7,967.000	N		
SFL-TAP Hardware		2018	TBS / TBS	C / FFP	TBS	Apr 2018	Jul 2018	1	597.000	Y		
SFL-TAP Hardware		2019	TBS / TBS	C / FFP	TBS	Apr 2019	Jul 2019	1	606.000	N		
EUCOM		2018	TBS / TBS	C / FFP	TBS	Jun 2018	Jul 2018	1	3,000.000	N		
(Keystone) Software Non-Recurring		2017	Affigent LLC / Herndon, VA	C / FFP	MICC, Ft. Knox, KY	Apr 2017	Jun 2017	1	900.000	Y		
(PES-A) Software		2017	World Wide Technology / Maryland Heights, MO	C / FFP	MICC, Ft. Knox, KY	Sep 2017	Nov 2017	1	2,726.000	Y		
(PES-A) Software		2017	Four LLC / Herndon, VA	C / FFP	MICC, Ft. Knox, KY	Mar 2017	Jun 2017	0	611.000	Y		

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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip	Item Number / Title [DODIC]: BE4175 / Personnel Automation Systems - West Point

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3.319	2.861	3.300	10.394	-	10.394
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3.319	2.861	3.300	10.394	-	10.394
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3.319	2.861	3.300	10.394	-	10.394

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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	3,300.000	1	3.300	10,394.000	1	10.394	-	-	-	10,394.000	1	10.394
Subtotal: Recurring Cost	-	-	3.319	-	-	2.861	-	-	3.300	-	-	10.394	-	-	-	-	-	10.394
Subtotal: Hardware Cost	-	-	3.319	-	-	2.861	-	-	3.300	-	-	10.394	-	-	-	-	-	10.394
Gross/Weapon System Cost	-	-	3.319	-	-	2.861	-	-	3.300	-	-	10.394	-	-	-	-	-	10.394

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	-	-	-	-	-
Total:	2.861	3.300	10.394	-	10.394
Secondary Distribution	2.861	3.300	10.394	-	10.394

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3002BD3000 / Automated Data Processing Equip					Item Number / Title [DODIC]: BE4175 / Personnel Automation Systems - West Point				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
U. S. Military Academy (USMA) Hardware		2017	TBS / TBS	C / FFP	MICC, West Point, NY	Mar 2018	Jun 2018	1	38.000	Y		
U. S. Military Academy (USMA) Hardware		2017	Dell Federal Systems / Round Rock, TX	C / FP	MICC, West Point, NY	Jan 2017	Jun 2017	0	552.000	Y		
U. S. Military Academy (USMA) Hardware		2017	Telecommunication Solution Gro / Raleigh, NC	C / FP	MICC, West Point, NY	Jan 2017	Jun 2017	0	505.000	Y		
U. S. Military Academy (USMA) Hardware		2017	Microtechnologies LLC / Vienna, VA	C / FP	MICC, West Point, NY	Jan 2017	Jun 2017	0	816.000	Y		
U. S. Military Academy (USMA) Hardware		2017	Iron Bow Technologies / Chantilly, VA	C / FP	MICC, West Point, NY	Jan 2017	Jun 2017	0	304.000	Y		
U. S. Military Academy (USMA) Hardware		2017	Donnelly Moore Inc / New City, NY	C / FP	MICC, West Point, NY	Jan 2017	Jun 2017	0	596.000	Y		
U. S. Military Academy (USMA) Hardware		2017	Tri-Force Consulting Services / Lansdale, PA	C / FP	MICC, West Point, NY	Dec 2017	Dec 2017	0	50.000	Y		
U. S. Military Academy (USMA) Hardware		2018	TBS / TBS	C / FFP	MICC, West Point, NY	Mar 2018	May 2018	1	3,300.000	Y		
U. S. Military Academy (USMA) Hardware		2019	TBS / TBS	C / FFP	MICC, West Point, NY	Feb 2019	May 2019	1	10,394.000	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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3004B55500 / General Fund Enterprise Business Systems Fam
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	263.562	6.416	4.465	10.976	-	10.976	10.802	9.768	4.516	4.602	-	315.107
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	263.562	6.416	4.465	10.976	-	10.976	10.802	9.768	4.516	4.602	-	315.107
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	263.562	6.416	4.465	10.976	-	10.976	10.802	9.768	4.516	4.602	-	315.107

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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:

B55511 - General Fund Enterprise Business System-Sensitive Activities (GFEBs-SA): GFEBs-SA is a designated National Security System (NSS) and is leveraging the GFEBs base system that is a commercial off-the-shelf Enterprise Resource Planning System certified by the Chief Financial Officers Council. The GFEBs base system has reached Full Deployment and is currently in sustainment. The Army still has classified and sensitive financial activity remaining in legacy systems that cannot be processed in the fully-fielded GFEBs system; therefore, GFEBs-SA is an essential financial program designed to enable the auditability that is needed to comply with the Chief Financial Officers (CFO) Act and the Federal Financial Management Improvement Act (FFMIA), and prevent compromise of data that could cause grave harm to U.S. forces. To protect sensitive information and enable clean auditability, the Army requires a separate instance of GFEBs operated on a secure network for processing sensitive and classified financial transactions. GFEBs-SA will integrate with GFEBs to provide secure, web-based financial execution and reporting capabilities for the Army's classified and sensitive activities. GFEBs-SA is envisioned as a fully functional GFEBs application operated on a secure network (SIPRNET), leveraging off of the sustained system design and implementation that includes additional performance requirements designed to protect sensitive intelligence operations and special operations missions. It will process Secret Collateral and below information while providing GFEBs capabilities such as distribution and execution of appropriated funds, cost management, financial reporting, and asset management. GFEBs-SA will be implemented and deployed to 3,000 users across 100 locations worldwide. GFEBs-SA will support information exchanges with organizations that support the Army's sensitive activities mission, including cross-security domain integration between SIPRNet and NIPRNet with GFEBs and other system partners. Services will be capable of being upgraded throughout the life of the program in order to incorporate advances in best business practices and technology.

BE4168 - General Fund Business Enterprise System (GFEBs): GFEBs is a Defense Business System currently in the sustainment phase. It follows the DoD Business Enterprise Architecture which is aligned to the mandated Federal Enterprise Architecture. GFEBs was implemented to fulfill the needs and comply with the Federal Financial Management Improvement Act, The Chief Financial Officers Act of 1990, the Government Performance and Results Act of 1993, the Government Management Reform Act of 1994, the Clinger-Cohen Act of 1996, and to fulfill the stated mission of the Assistant Secretary of the Army for Financial Management and Comptroller. GFEBs subsumed the capabilities, in full or in part, of financial systems operating in excess of 40 years including the Standard Finance System (STANFINS) and other costly feeder systems which do not allow the Department of Defense or the U.S. government to achieve an unqualified audit opinion on its financial statements. GFEBs is used to administer the Army's General Fund. GFEBs was developed using a commercial off-the-shelf Enterprise Resource Planning system that is certified by the Chief, Financial Officer Council and provides six core financial functions (United States General Ledger (USGL), Cost Management, Funds Control, Payable Management, Real Property, Receivable Management and Reports). GFEBs allows tactical commanders to make informed decisions with virtually real time information. On 1 October 2008, GFEBs deployed Wave 1 to end users at Fort Jackson Garrison, Defense Finance Accounting Service (DFAS) Indianapolis, and several other organizations. The Full Deployment Decision was received by the Milestone Decision Authority on 24 June 2011, and Full Deployment was achieved on 1 July 2012. Current efforts include sustaining the system and infrastructure, making modifications needed for audit readiness, compliancy, and upgrades required to maintain the system and meet SAP standards. Additionally, GFEBs continues to make changes as requested by the user community through the Process Owners Group; an SES and General Officers level board that prioritizes user needs. Procurement funding is required to upgrade hardware and software as necessary to maintain system infrastructure in order to support enhancement requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation					P-1 Line Item Number / Title: 3004B55500 / General Fund Enterprise Business Systems Fam					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.416	4.465	10.976	-	10.976	10.802	9.768	4.516	4.602
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.416	4.465	10.976	-	10.976	10.802	9.768	4.516	4.602

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3004B55500 / General Fund Enterprise Business Systems Fam
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	B55511 / GFEBS SENSITIVE ACTIVITIES	P-5a			- / 8.228	- / -	- / -	- / 6.424	- / -	- / 6.424
P-5	BE4168 / General Fund Enterprise Business System	P-5a			- / 255.334	- / 6.416	- / 4.465	- / 4.552	- / -	- / 4.552
P-40	Total Gross/Weapon System Cost				- / 263.562	- / 6.416	- / 4.465	- / 10.976	- / -	- / 10.976

*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:
 B55511 - GFEBS-SA: FY19 Procurement dollars for GFEBS-SA in the amount of \$6.424 million is required for Enterprise Resource Planning (ERP) licenses, and fielding activities which include organizational change management, on-site support, and user training.

 BE4168 - GFEBS: FY19 Procurement dollars for GFEBS in the amount of \$4.552 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). Software upgrades also support auditability and compliancy requirements, to maintain the system up to required software standards.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3004B55500 / General Fund Enterprise Business Systems Fam	Item Number / Title [DODIC]: B55511 / GFEB SENSITIVE ACTIVITIES

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.228	-	-	6.424	-	6.424
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8.228	-	-	6.424	-	6.424
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.228	-	-	6.424	-	6.424

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Software Cost																		
Non Recurring Cost																		
Software ^(†)	8,228.000	1	8.228	-	-	-	-	-	-	6,424.000	1	6.424	-	-	-	6,424.000	1	6.424
Subtotal: Non Recurring Cost	-	-	8.228	-	-	-	-	-	-	-	-	6.424	-	-	-	-	-	6.424
Subtotal: Software Cost	-	-	8.228	-	-	-	-	-	-	-	-	6.424	-	-	-	-	-	6.424
Gross/Weapon System Cost	-	-	8.228	-	-	-	-	-	-	-	-	6.424	-	-	-	-	-	6.424

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	6.424	-	6.424
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	6.424	-	6.424

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3004B55500 / General Fund Enterprise Business Systems Fam				Item Number / Title [DODIC]: B55511 / GFEB S 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Software		2019	Various SW Manufacturers / Various	C / Various	Rock Island, IL	Oct 2018	Oct 2018	1	6,424.000	N		

Remarks:
 Multiple (various) competitive contracts will be awarded for software (SW) requirements including user licenses, data storage, and system engineering tools.
 Contract type (cost or fixed price) will be determined by the type of SW requirement.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3004B55500 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	255.334	6.416	4.465	4.552	-	4.552
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	255.334	6.416	4.465	4.552	-	4.552
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	255.334	6.416	4.465	4.552	-	4.552

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 ^(f)	-	-	-	3,100.000	1	3.100	2,100.000	1	2.100	2,100.000	1	2.100	-	-	-	2,100.000	1	2.100
Subtotal: Non Recurring Cost	-	-	-	-	-	3.100	-	-	2.100	-	-	2.100	-	-	-	-	-	2.100
Subtotal: Hardware Cost	-	-	-	-	-	3.100	-	-	2.100	-	-	2.100	-	-	-	-	-	2.100
Software Cost																		
Recurring Cost																		
Software Recurring ^(f)	255,334.000	1	255.334	3,316.000	1	3.316	2,365.000	1	2.365	2,452.000	1	2.452	-	-	-	2,452.000	1	2.452
Subtotal: Recurring Cost	-	-	255.334	-	-	3.316	-	-	2.365	-	-	2.452	-	-	-	-	-	2.452
Subtotal: Software Cost	-	-	255.334	-	-	3.316	-	-	2.365	-	-	2.452	-	-	-	-	-	2.452
Gross/Weapon System Cost	-	-	255.334	-	-	6.416	-	-	4.465	-	-	4.552	-	-	-	-	-	4.552

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	6.416	4.465	4.552	-	4.552
Total:	Quantity	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3004B55500 / 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Secondary Distribution	Total Obligation Authority	6.416	4.465	4.552	-	4.552

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 3004B55500 / 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		2019	Various HW Manufacturers / Various	C / Various	Rock Island, IL	Oct 2018	Sep 2019	1	2,100.000	N		
Software Recurring		2019	Various SW Manufacturers / Various	C / Various	Rock Island, IL	Oct 2018	Sep 2019	1	2,452.000	N		

Remarks:

Multiple (various) competitive contracts will be awarded for hardware (HW) and SW efforts to support infrastructure upgrades.

Contract type (cost or fixed price) will be determined by the type of HW or SW requirement.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	190.254	58.614	66.363	66.330	-	66.330	67.610	68.477	70.852	72.276	-	660.776
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	190.254	58.614	66.363	66.330	-	66.330	67.610	68.477	70.852	72.276	-	660.776
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	190.254	58.614	66.363	66.330	-	66.330	67.610	68.477	70.852	72.276	-	660.776

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	16,590.750	16,582.500	-	16,582.500	16,902.500	17,119.250	17,713.000	18,069.000	-	27,532.333

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), Test and Evaluation (T&E), and acquisition communities. The program deploys supercomputers to provide world-class high performance computing (HPC) capability to the DoD-wide user community.

The HPC Modernization program provides focused modernization efforts crafted to ensure DoD's S&T and T&E communities are supported with current generation supercomputing capabilities. The HPC modernization program resulted from congressional language that recognized supercomputing as a national strategic asset and directed the DoD to focus on supercomputing modernization at laboratories and test centers to keep its forces and military systems on the leading technological edge.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	58.614	66.363	66.330	-	66.330	67.610	68.477	70.852	72.276
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	58.614	66.363	66.330	-	66.330	67.610	68.477	70.852	72.276

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B66501 / High Perf Computing Mod Pgm (HPCMP)	P-5a			- / 190.254	- / 58.614	- / 66.363	- / 66.330	- / -	- / 66.330
P-40	Total Gross/Weapon System Cost				- / 190.254	- / 58.614	- / 66.363	- / 66.330	- / -	- / 66.330

*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 2019 Base procurement dollars in the amount of \$61.747 million supports large supercomputers for DoD Supercomputing Resource Center (DRSC) locations, including Air Force Research Lab (AFRL) located at Wright-Patterson Air Force Base, OH and Navy located at Stennis Space Center, MS.

 FY 2019 Base procurement in the amount of \$4.583 million is projected to support two (2) DoD HPC Project Investments (DHPIs) 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 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)	Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	190.254	58.614	66.363	66.330	-	66.330
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	190.254	58.614	66.363	66.330	-	66.330
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	190.254	58.614	66.363	66.330	-	66.330

(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)	-	-	16,590.750	16,582.500	-	16,582.500

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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)	1,330.700	7	9.315	2,268.100	2	4.536	2,275.000	2	4.550	2,291.400	2	4.583	-	-	-	2,291.400	2	4.583
Defense Supercomputing Resource Centers ^(t)	30,156.500	6	180.939	27,039.000	2	54.078	30,906.500	2	61.813	30,873.600	2	61.747	-	-	-	30,873.600	2	61.747
<i>Subtotal: Non Recurring Cost</i>	-	-	190.254	-	-	58.614	-	-	66.363	-	-	66.330	-	-	-	-	-	66.330
<i>Subtotal: Hardware Cost</i>	-	-	190.254	-	-	58.614	-	-	66.363	-	-	66.330	-	-	-	-	-	66.330
Gross/Weapon System Cost	-	-	190.254	-	-	58.614	16,590.750	-	66.363	16,582.500	-	66.330	-	-	-	16,582.500	-	66.330

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	-	-	-	-	-
Total:	58.614	66.363	66.330	-	66.330
Quantity	-	-	-	-	-
Total Obligation Authority	58.614	66.363	66.330	-	66.330

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

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3005B66501 / High Perf Computing Mod Pgm (HPCMP)	Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP)
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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		2016	SGI, Silicon Graphics, Inc / Silver Spring, MD	C / CR	Air Force AF/A9	Sep 2016	Mar 2017	1	1,099.000	Y		Jul 2016
Dedicated HPC Project Investments		2016	Cray, Inc. / Seattle, WA	C / BOA	DTRA J9CXA/TAT	Apr 2016	Sep 2018	1	1,600.000			Nov 2015
Dedicated HPC Project Investments		2017	Cray, Inc. / Seattle, WA	C / CR	Navy (OPNAV N974B)	Aug 2017	Oct 2017	1	2,577.300	Y		
Dedicated HPC Project Investments		2017	HPE / Vienna, VA	SS / FFP	Army (ATEC)	Sep 2017	Nov 2017	1	1,958.800	Y		Aug 2017
Dedicated HPC Project Investments		2018	TBD / TBD	TBD	TBD	Sep 2018	May 2019	2	2,275.000	N		Jul 2018
Dedicated HPC Project Investments		2019	TBD / TBD	TBD	TBD	Sep 2019	May 2020	2	2,291.500	N		Jul 2018
Defense Supercomputing Resource Centers		2016	SGI, Silicon Graphics, Inc / Silver Spring, MD	C / BOA	Army ARL DSRC Aberdeen, MD	Oct 2016	Feb 2017	1	29,810.000	Y		Mar 2016
Defense Supercomputing Resource Centers		2016	Cray, Inc. / Seattle, WA	C / BOA	Army ERDC DSRC Vicksburg, MS	Oct 2016	Feb 2017	1	29,810.000	Y		Mar 2016
Defense Supercomputing Resource Centers		2017	HPE / SGI / Annapolis Junction, MD	C / BOA	AFRL, Wright Patterson AFB	Sep 2017	Feb 2018	1	27,039.000	Y		Mar 2017
Defense Supercomputing Resource Centers		2017	HPE/SGI / Annapolis Junction, MD	C / BOA	Navy DSRC Stennis Space Ctr	Sep 2017	Feb 2018	1	27,039.000	Y		Mar 2017
Defense Supercomputing Resource Centers		2018	TBD / TBD	C / BOA	Army ERDC DSRC, Vicksburg, MS	Sep 2018	Feb 2019	1	30,906.500	N		Mar 2018
Defense Supercomputing Resource Centers		2018	TBD - 1 / TBD - 1	C / BOA	Army ARL DSRC, Aberdeen, MD	Sep 2018	Feb 2019	1	30,906.500	N		Mar 2018
Defense Supercomputing Resource Centers		2019	TBD / TBD	C / BOA	AFRL, Wright Patterson AFB	Sep 2019	Feb 2020	1	31,253.900	N		Mar 2019
Defense Supercomputing Resource Centers		2019	TBD - 1 / TBD - 1	C / BOA	Navy DSRC Stennis Space Ctr	Sep 2019	Feb 2020	1	31,253.900	N		Mar 2019

Remarks:
The High Performance Computing Modernization Program (HPCMP) has a five year broad ordering agreement (BOA) arrangement through Huntsville Engineering Support Center (Army Corps of Engineers), increasing speed to award and acceptance. All procurements are commercial off the shelf or government off the shelf (COTS/GOTS).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 3009B66001 / Contract Writing System
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.789	1.001	5.927	-	5.927	14.942	8.468	5.827	-	-	36.954
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.789	1.001	5.927	-	5.927	14.942	8.468	5.827	-	-	36.954
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.789	1.001	5.927	-	5.927	14.942	8.468	5.827	-	-	36.954

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

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

Description:

The Army Contract Writing System (ACWS) will be the Army's single, next-generation, enterprise-wide contract writing, management, execution, and close-out software system. ACWS will facilitate the standardization of Army Procurement business processes and streamline the integration with Army Enterprise Resource Planning (ERP) systems. As a financial feeder system, ACWS will meet the 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 is consistent with Undersecretary of Defense, Acquisition, Technology and Logistics (USD(AT&L)) Memorandum; Department of Defense (DoD) Functional Contract Writing and Administration, dated 21 October 2011, which directed each of the Services to develop a new contract writing system. Accordingly, Army received an OSD Deputy Chief Management Officer (DCMO) validated problem statement and the Army Acquisition Executive approved the ACWS Materiel Development Decision (MDD) on 29 October 2014. On 24 March 2016, the USD(AT&L) signed the program's RFP Release Acquisition Decision Memorandum (ADM) which designated ACWS as an unbaselined, Major Automated Information System (MAIS) Acquisition Category IAM program, and approved the Army's request to release an RFP to industry to procure a Commercial-off-the-Shelf (COTS) system.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.789	1.001	5.927	-	5.927	14.942	8.468	5.827	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.789	1.001	5.927	-	5.927	14.942	8.468	5.827	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 2035A: Other Procurement, Army / BA 02: Communications and Electronics
 Equipment / BSA 92: Elect Equip - Automation

P-1 Line Item Number / Title:
 3009B66001 / Contract Writing System

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B66002 / Army Contract Writing System				- / -	- / 0.789	- / 1.001	- / 5.927	- / -	- / 5.927
P-40	Total Gross/Weapon System Cost				- / -	- / 0.789	- / 1.001	- / 5.927	- / -	- / 5.927

*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 2019 base procurement funds in the amount of \$5.927 million procures requisite ACWS software licenses for Initial Operating Capability (IOC) (estimated delivery to 950 users for receiving Release 1 capability at IOC). The license procurement in FY 2019 supports pre-deployment activities including establishing both training and deployment teams for Release 1 which will be deployed in first quarter FY 2020. Funding also supports and system fielding activities (Organization Change Management) throughout the Acquisition, Testing, and Deployment Phase.

Note: Effective February 2, 2017 DoD Instruction (DoDI) 5000.75 was issued to establish policy for use of Business Capability Acquisition Cycle (BCAC) for Defense Business Systems, applying to Army Contract Writing System. This DoDI supersedes DoDI 5000.02, improving the alignment of business systems to commercial best practices as well as optimizing efficiencies and effectiveness across DoD for the acquisition of business systems. Decisions rendered by the Milestone Decision Authority, as outlined in DoDI 5000.75, are referred to as "Authority To Proceed (ATPs)" and replace DoDI 5000.02 "Milestones."

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 3009B66001 / Contract Writing System	Item Number / Title [DODIC]: B66002 / Army Contract Writing System

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.789	1.001	5.927	-	5.927
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.789	1.001	5.927	-	5.927
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.789	1.001	5.927	-	5.927

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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 License	-	-	-	789.000	1	0.789	-	-	1.001	5,927.000	1	5.927	-	-	-	5,927.000	1	5.927
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.789	-	-	1.001	-	-	5.927	-	-	-	-	-	5.927
<i>Subtotal: Software Cost</i>	-	-	-	-	-	0.789	-	-	1.001	-	-	5.927	-	-	-	-	-	5.927
Gross/Weapon System Cost	-	-	-	-	-	0.789	-	-	1.001	-	-	5.927	-	-	-	-	-	5.927

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.789	1.001	5.927	-	5.927
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.789	1.001	5.927	-	5.927

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,875.243	23.828	26.183	27.896	-	27.896	27.879	27.864	28.428	28.431	-	2,065.752
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,875.243	23.828	26.183	27.896	-	27.896	27.879	27.864	28.428	28.431	-	2,065.752
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,875.243	23.828	26.183	27.896	-	27.896	27.879	27.864	28.428	28.431	-	2,065.752

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	26.183	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.296	-	16.738	-	16.738	16.727	16.718	17.057
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.532	-	11.158	-	11.158	11.152	11.146	11.371
Total:	Quantity	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	23.828	26.183	27.896	-	27.896	27.879	27.864	28.428	28.431

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BE4167 / Reserve Component Automation Sys (RCAS)	P-5a			- / 1,875.243	- / 23.828	- / 26.183	- / 27.896	- / -	- / 27.896
P-40	Total Gross/Weapon System Cost				- / 1,875.243	- / 23.828	- / 26.183	- / 27.896	- / -	- / 27.896

*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 2019 Base procurement dollars in the amount of \$27.896 million will support 20% refresh of the RCAS hardware infrastructure. Funding supports modernization at 746 Army National Guard (ARNG) Readiness and U.S. Army Reserve (USAR) Centers which represents 20% of the 3,731 fielded ARNG Readiness and USAR Centers. Refresh schedule is based on a 5 year cycle. RCAS executes a single hardware procurement contract for refresh of 746 sites for FY19 funds. The level of effort for Technical Refresh of each site (ARNG/USAR readiness centers) is different depending on the construct of the operation. Tech Refresh at the scheduled sites is planned in advance on a 5 year cycle, but age and performance dictate the amount of Technical Refresh at the scheduled sites, so it is not always a one for one replacement of hardware. The program will support hardware and software refresh to ARNG and USAR commands and units based on priorities established by the respective Components. The program will satisfy agency information technology mandates with respect to information assurance, net worthiness, server consolidation, and a common operating environment.

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)	Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,875.243	23.828	26.183	27.896	-	27.896
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,875.243	23.828	26.183	27.896	-	27.896
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,875.243	23.828	26.183	27.896	-	27.896

(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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	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⁾	1,875,243.000	1	1,875.243	23,828.000	1	23.828	26,183.000	1	26.183	27,896.000	1	27.896	-	-	-	27,896.000	1	27.896
Subtotal: Recurring Cost	-	-	1,875.243	-	-	23.828	-	-	26.183	-	-	27.896	-	-	-	-	-	27.896
Subtotal: Hardware Cost	-	-	1,875.243	-	-	23.828	-	-	26.183	-	-	27.896	-	-	-	-	-	27.896
Gross/Weapon System Cost	-	-	1,875.243	-	-	23.828	-	-	26.183	-	-	27.896	-	-	-	-	-	27.896

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	26.183	-	-	-
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	14.296	-	16.738	16.738
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	9.532	-	11.158	11.158
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	23.828	26.183	27.896	27.896

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Exhibit P-5, Cost Analysis: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92	P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)	Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2019 Army							Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92			P-1 Line Item Number / Title: 9956BE4167 / Reserve Component Automation Sys (RCAS)				Item Number / Title [DODIC]: BE4167 / Reserve Component Automation Sys (RCAS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Life Cycle Replacement Hardware		2017	CACI Enterprise Solutions, INC / Reston, VA	C / CR	Washington, DC	Mar 2017	Apr 2017	1	23,828.000	Y		
Life Cycle Replacement Hardware		2018	TBD / TBD	C / CR	TBD	Mar 2018	Apr 2018	1	26,183.000	Y		Nov 2017
Life Cycle Replacement Hardware		2019	TBD / TBD	C / CR	TBD	Mar 2019	Sep 2019	1	27,896.000	Y		

Remarks:
CACI Enterprise Solutions Inc. is the prime contractor for RCAS. All items are COTS/GOTS solutions.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 9993B68501 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	40	150	150	-	150	326	325	335	162	-	1,488
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1.391	4.441	4.392	-	4.392	4.917	4.998	5.267	2.415	-	27.821
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1.391	4.441	4.392	-	4.392	4.917	4.998	5.267	2.415	-	27.821
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1.391	4.441	4.392	-	4.392	4.917	4.998	5.267	2.415	-	27.821

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	34.775	29.607	29.280	-	29.280	15.083	15.378	15.722	14.907	-	18.697

Description:

Tactical Digital Media (TDM) kits provide Commercial-Off-The-Shelf (COTS) components to capture and edit, still and video imagery, to produce multimedia products, and live interviews, which directly contributes to successful execution of a Commander's strategic engagement & communications strategy across the full range of military operations. Specific support provided to the National Command Authority 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.

Justification:

FY 2019 Base procurement funding in the amount of \$4.392 million procures and fields TDM variant kits tailored to unit mission requirements. FY 2019 funding also provides Program Management, Product Support/Distribution 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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: 9998BL5300 / Items Less Than \$5M (Surveying Equipment)
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ID Code (A=Service Ready, B=Not Service Ready):	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	84	13	27	13	-	13	9	31	38	34	-	249
Gross/Weapon System Cost (<i>\$ in Millions</i>)	64.149	2.509	3.414	1.970	-	1.970	1.391	4.629	5.750	5.198	-	89.010
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	64.149	2.509	3.414	1.970	-	1.970	1.391	4.629	5.750	5.198	-	89.010
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	64.149	2.509	3.414	1.970	-	1.970	1.391	4.629	5.750	5.198	-	89.010

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	763.679	193.000	126.444	151.538	-	151.538	154.556	149.323	151.316	152.882	-	357.470

Description:

This budget line supports the procurement and upgrade of the Automated Integrated Survey Instrument (AIS) and Global Positioning System - Survey (GPS-S). This equipment supports the survey mission of both the Topographic and Construction Engineer. Capabilities provided by this equipment enable engineers to establish the geodetic control necessary for construction and topographic surveys with centimeter level precision in electronic contested environments. GPS-S integrates Selective Availability, Anti-Spoofing Module (SAASM) and Precise Positioning System GPS software upgrades into a Commercial Off the Shelf (COTS) GPS for military survey applications. Additionally, this equipment supports Construction Engineering surveys (e.g., roads, buildings, logistics sites, staging areas, airfield construction). Software functionality, included as part of this procurement, allows the user to accomplish the design work necessary for site design and construction (e.g., materiel calculations, labor, resources). GPS-S interfaces with current Army Survey equipment to perform integrated GPS/optical surveys. Leverages the Instrument Set, Reconnaissance and Surveying (ENFIRE) tablet PC to post process survey data files and import survey design files. GPS-S meets FAA standards for airfield survey and allows for standardized commercial data exchanges such that it is interoperable with commercial software and hardware equivalents. GPS-S kits are comprised of commercial off the shelf equipment.

GPS-Survey Army Acquisition Objective (AAO) = 773

GPS-S Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	
Army	Quantity	4	12	5	-	5	3	6	14	16
	Total Obligation Authority	0.889	1.414	0.636	-	0.636	0.464	1.524	2.180	1.908
ANG	Quantity	4	8	3	-	3	3	19	12	9
	Total Obligation Authority	0.821	1.000	0.667	-	0.667	0.463	1.553	1.785	1.645
AR	Quantity	5	7	5	-	5	3	6	12	9
	Total Obligation Authority	0.799	1.000	0.667	-	0.667	0.464	1.552	1.785	1.645
Total:	Quantity	13	27	13	-	13	9	31	38	34

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)	P-1 Line Item Number / Title: 9998BL5300 / Items Less Than \$5M (Surveying Equipment)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	2.509	3.414	1.970	-	1.970	1.391	4.629	5.750	5.198

Justification:
 FY 2019 Base procurement dollars in the amount of \$1.970 million supports the procurement of up to 13 Global Positioning System - Survey (GPS-S) for Active Duty, National Guard and Army Reserve units. GPS-S kits are comprised of commercial off the shelf equipment.

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

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: 2716BF5400 / 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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	115.182	0.403	0.499	0.506	-	0.506	0.516	0.525	0.540	0.551	-	118.722
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	115.182	0.403	0.499	0.506	-	0.506	0.516	0.525	0.540	0.551	-	118.722
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	115.182	0.403	0.499	0.506	-	0.506	0.516	0.525	0.540	0.551	-	118.722

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.403	0.499	0.506	-	0.506	0.516	0.525	0.540	0.551
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.403	0.499	0.506	-	0.506	0.516	0.525	0.540	0.551

Justification:

FY 2019 Base procurement dollars in the amount of \$0.506 million acquires modern instrumentation for EPG's Global Positioning System (GPS) laboratory. Funding will purchase upgrades to its existing commercial simulators and a custom m-code simulator, signal generator hardware and software to provide emerging threat capability; purchase additional portable computers and improve GPS receiver data collection software; and purchase instrumentation for testing Military beacons. 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.

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-40, Budget Line Item Justification: PB 2019 Army **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support	P-1 Line Item Number / Title: 2723B88801 / BCT Emerging Technologies
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.438	1.750	25.050	-	-	-	-	-	-	-	-	34.238
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.438	1.750	25.050	-	-	-	-	-	-	-	-	34.238
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.438	1.750	25.050	-	-	-	-	-	-	-	-	34.238

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are 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 Network Integration Evaluation (NIE) / Joint Warfighting Assessment (JWA) evaluated and Army approved commodities (hardware and software) and installation of these network enhancements onto BCT vehicle platforms. These funds provide for the procurement and installation of hardware/software products/ components which are not a part of a current Program of Record (POR) and have been evaluated and approved through the Army's Agile NIE process for inclusion into the Army's Capability Sets (CS) Synchronized Fielding plan. Hardware/software products/component include the tested and approved system, vehicle mounting hardware (A-Kits), and ancillary equipment such as power amplifiers/splitters, GPS units, loudspeakers, routers, battery isolators, filters, cables, connectors, AC inverters, utility outlets, environmental control units (ECU), fans, thermal & power switches, diplexers, and antennas.

BCT Emerging Technologies also supports the Army Rapid Capabilities Office (RCO) efforts to provide capabilities to improve future solutions, to inform future Army capability requirements, and to potentially transition the capability to an Army acquisition program. The Army RCO expedites the provisioning and fielding of critical combat materiel capabilities to the Warfighter to meet Combatant Commanders' needs. The Army RCO was established per Headquarters, Department of the Army, memo, SUBJECT: Establishment of the Army Rapid Capabilities Office, signed by the Secretary of the Army: Eric K. Fanning, dated 11 August 2016. The RCO assesses Commercial-Off-The Shelf (COTS), Government Off-The- Shelf (GOTS), and Non-Developmental Item (NDI) (non-standard equipment) solutions for modification and/or integration to address changes in contested environments with enduring materiel solutions for forces deployed globally. Procure prototypes and evaluate solutions to be fielded and transition to an acquisition program for production and sustainment.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.750	25.050	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.750	25.050	-	-	-	-	-	-

Justification:

FY 2019 has no funding requested for this line.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Army		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support		P-1 Line Item Number / Title: 2723B88801 / BCT Emerging Technologies
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>FY 2018 Base funding in the amount of \$25.050 million supports the Army's Rapid Capabilities Office expedited provisioning and fielding of critical combat materiel capabilities in support of Electronic Warfare (EW) and Position, Navigation and Timing (PNT) Technologies to meet Warfighter and Combatant Commanders' needs.</p> <p>FY 2017 Base funding in the amount of \$1.750 million supports the Army's Rapid Capabilities Office expedited provisioning and fielding of critical combat materiel capabilities in support of Electronic Warfare (EW) to meet Warfighter and Combatant Commanders' needs.</p> <p>In accordance with Section 1815 of the FY 2008 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.</p>		