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Department of Defense Fiscal Year (FY) 2025 Budget Estimates

March 2024



Army

Justification Book Volume 4c of 4

Research, Development, Test & Evaluation, Army

RDT&E – Volume III, Budget Activity 8

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Army • Budget Estimates FY 2025 • RDT&E Program

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RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY
APPROPRIATION LANGUAGE

For expenses necessary for basic and applied scientific research, development, test and evaluation, including maintenance, rehabilitation, lease, and operation of facilities and equipment, \$14,073,308,000.00 to remain available for obligation until September 30, 2026.

The FY 2025 Overseas Operational Costs accounted for in the Base budget total \$3,157 thousand.

FY 2023 includes \$7,626 thousand in Overseas Operations Costs (OOC) Actuals. FY 2024 includes \$3,166 thousand in OOC Requested. FY 2025 includes \$3,157 thousand for the OOC Budget Estimate. OOC were financed previously with former Overseas Contingency Operations (OCO) funding.

COST STATEMENT

The following Justification Books were prepared at a cost of \$277,115.51 Aircraft (ACFT), Missiles (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 – Tactical & Support Vehicles, Other Procurement Army (OPA) 2 – Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 5D, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

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FY 2025 RDT&E, ARMY PROGRAM ELEMENT DESCRIPTIVE SUMMARIES

Introduction and Explanation of Contents

1. **General.** The purpose of this document is to provide summary information concerning the Research, Development, Test and Evaluation, Army program. The descriptive summaries are comprised of R-2 (Army RDT&E Budget Item Justification – program element level), R-2A (Army RDT&E Budget Item Justification – project level), R-3 (Army RDT&E Cost Analysis), R-4 (Schedule Profile Detail) and R-5 (Termination Liability Funding for MDAPs) Exhibits, which provide narrative information on all RDT&E program elements and projects through FY 2025.
2. **Relationship of the FY 2025 Budget Submitted to Congress to the FY 2024 Budget Submitted to Congress.** This paragraph provides a list of program elements/projects that are major new starts and terminated programs. Explanations for these changes can be found in the narrative sections of the Program Element R-2A Exhibits.

New Start Programs:

<u><i>Budget Activity</i></u>	<u><i>OSDPE / Project</i></u>	<u><i>Project Title</i></u>
02	0602148A / CC3	FVL Radar Technologies
02	0602183A / DK1	Air Vehicle Integrated & Alternative Tech (AVIATe)
02	0602386A / SM1	Scale-Up Microbial Products for Biomanufacturing
02	0602150A / SU1	Counter Small Unmanned Aircraft Sys (C-sUAS) Tech
03	0603464A / CE9	Armaments Advanced Technology
03	0603119A / DI9	Comprehensive Adapt Operational Energy Adv Tech
03	0603043A / DK2	Air Vehicle Improvement & Adv Tech (AVIATe)
03	0603044A / EA7	Enhanced Indirect Fire Adv Tech
03	0603466A / IB1	Integrated Beam Control Systems Demo for C-CM
03	0603116A / LR1	Long Range Sensing Adv Tech
03	0603465A / CK2	High Speed Maneuverable Missile (HSMM) Adv Tech
03	0603042A / DI6	Anti-Tamper Advanced Tech Development
04	0604386A / CQ9	Biotechnology for Materials - Dem/Val
04	0604019A / DJ5	Multi-Domain Artillery Cannon System (MDACS)
04	0305251A / FA8	Cyberspace Operations Forces and Force Support
04	0603639A / FG1	Cannon-Delivered Area Effects Munitions (C-DAEM)
04	0603639A / XT5	30mm Anti-Personnel and Counter UAS

05	0604805A / DH4	CMOSS Mounted Form Factor (CMFF) Radio Cards
05	0604710A / DI5	FALCONS
05	0605244A / DJ3	Joint Reduced Range Rocket
05	0605242A / DJ4	Theater SIGINT System (TSIGS)
05	0605247A / DJ8	Spectrum Situational Awareness System (S2AS)
05	0605054A / DJ9	Guam Defense System - Management
05	0604854A / DH7	Next Generation Howitzer
05	0604818A / DK3	Sensor Computing Environment (SCE)
05	0604713A / EL2	Army Field Feeding Equipment
05	0605038A / EQ7	NBC Reconnaissance Vehicle (NBCRV) Sensor Suite
05	0605051A / ITD	Improved Threat Detection System (ITDS)
05	0604827A / LS2	Lethal Semi-Autonomous Aerial Unmanned Sys-Eng Dev
05	0604802A / MS1	Battalion Mortar System Modernization
05	0605241A / DG5	Future Long Range Assault Aircraft
05	0604805A / DH5	CMOSS Mounted Form Factor (CMFF)Chassis
06	0605805A / 857	DoD Explosives Safety Standards
07	0607101A / DJ7	Radiological Detection System Development

Program Terminations (including transfers to Procurement and Sustainment):

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<u>Budget Activity</u>	<u>OSDPE / Project</u>	<u>Project Title</u>
02	0602002A / DC5	Team Ignite
02	0602145A / BI4	Materials Application and Integration Tech
03	0603464A / AG5	Extended Range Artillery Munition Suite Adv Tech
03	0603118A / AY7	Small Arms Fire Control Advanced Technology
03	0603118A / BB8	Soldier Centric Advanced Technology
03	0603462A / BI5	Materials Application and Integration Adv Tech
03	0603462A / BK4	Next Gen Intelligent Fire Control(NG-IFC) Adv Tech

03	0603041A / CM8	Convergence Battlefield Integration
04	0603801A / CK7	FARA Ecosystem
04	0603801A / F12	Future Attack Reconnaissance Aircraft
04	0604120A / EJ2	MOUNTED
04	0604120A / BV4	Area Protection and Alt Nav Technology Development
05	0604802A / EP2	Shoulder-Launched Munitions
05	0604802A / EP4	One-Way Luminescence for Small Caliber Ammo
05	0604802A / FA6	30mm Lethality
05	0604818A / EJ6	TACTICAL ENHANCEMENT
05	0605041A / CY5	CYBER Situational Understanding
05	0605053A / BS9	Robotic Payloads
05	0604808A / CS3	Next Generation Advanced Bomb Suit (NGABS)
06	0605326A / 33B	Soldier-Centered Analyses For Future Force
07	0203735A / 280	RECOV VEH IMPROV PROG
07	0303028A / FG2	Counterintelligence & Human Intel Modernization
07	0607142A / EW9	Aviation Rocket System Product Improvement and Dev

3. **Classification:** This document contains no classified data. Appropriately cleared individuals can obtain further information on Classified/Special Access Programs by contacting the Department of the Army.

Department of the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Mar 2024

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments	FY 2025 Request
1	0601102A	Defense Research Sciences	01	U	386,594	296,670	310,191
2	0601103A	University Research Initiatives	01	U	97,598	75,672	78,166
3	0601104A	University and Industry Research Centers	01	U	119,270	108,946	109,726
4	0601121A	Cyber Collaborative Research Alliance	01	U	5,355	5,459	5,525
5	0601601A	Artificial Intelligence and Machine Learning Basic Research	01	U	7,985	10,708	10,309
		Basic Research			616,802	497,455	513,917
6	0602002A	Army Agile Innovation and Development-Applied Research	02	U	127	5,613	8,032
7	0602134A	Counter Improvised-Threat Advanced Studies	02	U	5,966	6,242	6,163
8	0602141A	Lethality Technology	02	U	180,191	85,578	96,094
9	0602142A	Army Applied Research	02	U	27,833	34,572	
10	0602143A	Soldier Lethality Technology	02	U	266,501	104,470	102,236
11	0602144A	Ground Technology	02	U	256,916	60,005	66,707
12	0602145A	Next Generation Combat Vehicle Technology	02	U	273,166	166,500	149,108
13	0602146A	Network C3I Technology	02	U	221,293	81,618	84,576
14	0602147A	Long Range Precision Fires Technology	02	U	113,099	34,683	32,089
15	0602148A	Future Verticle Lift Technology	02	U	103,022	73,844	52,685
16	0602150A	Air and Missile Defense Technology	02	U	94,972	33,301	39,188
17	0602180A	Artificial Intelligence and Machine Learning Technologies	02	U	15,481	24,142	20,319
18	0602181A	All Domain Convergence Applied Research	02	U	26,362	14,297	12,269
19	0602182A	C3I Applied Research	02	U	26,913	30,659	25,839
20	0602183A	Air Platform Applied Research	02	U	40,372	48,163	53,206
21	0602184A	Soldier Applied Research	02	U	15,427	18,986	21,069

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22	0602213A	C3I Applied Cyber	02	U	13,605	22,714	28,656
23	0602386A	Biotechnology for Materials - Applied Research	02	U	21,015	16,736	11,780
25	0602785A	Manpower/Personnel/Training Technology	02	U	19,343	19,969	19,795
26	0602787A	Medical Technology	02	U	79,851	66,266	68,481
999	999999999	Classified Programs	02	U			35,766
	Applied Research				1,801,455	948,358	934,058
27	0603002A	Medical Advanced Technology	03	U	31,398	4,147	3,112
28	0603007A	Manpower, Personnel and Training Advanced Technology	03	U	15,146	16,316	16,716
29	0603025A	Army Agile Innovation and Demonstration	03	U	17,757	23,156	14,608
30	0603040A	Artificial Intelligence and Machine Learning Advanced Technologies	03	U	6,162	13,187	18,263
31	0603041A	All Domain Convergence Advanced Technology	03	U	40,955	33,332	23,722
32	0603042A	C3I Advanced Technology	03	U	12,252	19,225	22,814
33	0603043A	Air Platform Advanced Technology	03	U	13,062	14,165	17,076
34	0603044A	Soldier Advanced Technology	03	U	462	1,214	10,133
35	0603116A	Lethality Advanced Technology	03	U	11,460	20,582	33,969
36	0603117A	Army Advanced Technology Development	03	U	138,774	136,280	
37	0603118A	Soldier Lethality Advanced Technology	03	U	150,020	102,778	94,899
38	0603119A	Ground Advanced Technology	03	U	415,104	40,597	45,880
39	0603134A	Counter Improvised-Threat Simulation	03	U	20,782	21,672	21,398
40	0603386A	Biotechnology for Materials - Advanced Research	03	U	54,778	59,871	36,360
41	0603457A	C3I Cyber Advanced Development	03	U	41,354	28,847	19,616
42	0603461A	High Performance Computing Modernization Program	03	U	293,043	255,772	239,597
43	0603462A	Next Generation Combat Vehicle Advanced Technology	03	U	467,533	217,394	175,198

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44	0603463A	Network C3I Advanced Technology	03	U	174,768	105,549	94,424
45	0603464A	Long Range Precision Fires Advanced Technology	03	U	225,921	153,024	164,943
46	0603465A	Future Vertical Lift Advanced Technology	03	U	265,429	158,795	140,578
47	0603466A	Air and Missile Defense Advanced Technology	03	U	108,758	21,015	28,333
49	0603920A	Humanitarian Demining	03	U	20,674	9,068	9,272
999	999999999	Classified Programs	03	U			155,526
	Advanced Technology Development				2,525,592	1,455,986	1,386,437
51	0603305A	Army Missile Defense Systems Integration	04	U	117,723	12,904	13,031
52	0603308A	Army Space Systems Integration	04	U	30,453	19,120	19,659
53	0603327A	Air and Missile Defense Systems Engineering	04	U	15,000		
54	0603619A	Landmine Warfare and Barrier - Adv Dev	04	U	59,911	47,537	58,617
55	0603639A	Tank and Medium Caliber Ammunition	04	U	49,609	91,323	116,027
56	0603645A	Armored System Modernization - Adv Dev	04	U	133,300	43,026	23,235
57	0603747A	Soldier Support and Survivability	04	U	4,030	3,550	4,059
58	0603766A	Tactical Electronic Surveillance System - Adv Dev	04	U	72,364	65,567	90,265
59	0603774A	Night Vision Systems Advanced Development	04	U	96,819	73,675	64,113
60	0603779A	Environmental Quality Technology - Dem/Val	04	U	75,614	31,720	34,091
61	0603790A	NATO Research and Development	04	U	3,666	4,143	4,184
62	0603801A	Aviation - Adv Dev	04	U	1,113,295	1,502,160	6,591
63	0603804A	Logistics and Engineer Equipment - Adv Dev	04	U	24,287	7,604	12,445
64	0603807A	Medical Systems - Adv Dev	04	U	5,598	1,602	582
65	0603827A	Soldier Systems - Advanced Development	04	U	20,807	27,681	24,284
66	0604017A	Robotics Development	04	U	27,444	3,024	3,039
67	0604019A	Expanded Mission Area Missile (EMAM)	04	U	250,351	97,018	102,589

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68	0604020A	Cross Functional Team (CFT) Advanced Development & Prototyping	04	U	74,189	117,557	63,831
69	0604035A	Low Earth Orbit (LEO) Satellite Capability	04	U	34,213	38,851	21,935
70	0604036A	Multi-Domain Sensing System (MDSS) Adv Dev	04	U	47,915	191,394	239,135
71	0604037A	Tactical Intel Targeting Access Node (TITAN) Adv Dev	04	U	863	10,626	4,317
72	0604100A	Analysis Of Alternatives	04	U	10,270	11,095	11,234
73	0604101A	Small Unmanned Aerial Vehicle (SUAV) (6.4)	04	U	1,373	5,144	1,800
74	0604103A	Electronic Warfare Planning and Management Tool (EWPMT)	04	U		2,260	2,004
75	0604113A	Future Tactical Unmanned Aircraft System (FTUAS)	04	U	134,719	53,143	127,870
76	0604114A	Lower Tier Air Missile Defense (LTAMD) Sensor	04	U	366,637	816,663	149,463
77	0604115A	Technology Maturation Initiatives	04	U	209,220	281,314	252,000
78	0604117A	Maneuver - Short Range Air Defense (M-SHORAD)	04	U	269,186	281,239	315,772
79	0604119A	Army Advanced Component Development & Prototyping	04	U	198,111	204,914	
80	0604120A	Assured Positioning, Navigation and Timing (PNT)	04	U	54,728	40,930	24,168
81	0604121A	Synthetic Training Environment Refinement & Prototyping	04	U	236,396	109,714	136,029
82	0604134A	Counter Improvised-Threat Demonstration, Prototype Development, and Testing	04	U	14,298	16,426	17,341
83	0604135A	Strategic Mid-Range Fires	04	U	379,535	31,559	
84	0604182A	Hypersonics	04	U	309,068	43,435	
85	0604386A	Biotechnology for Materials - Dem/Val	04	U			20,862
86	0604403A	Future Interceptor	04	U	7,880	8,040	8,058
88	0604531A	Counter - Small Unmanned Aircraft Systems Advanced Development	04	U	36,629	64,242	59,983
90	0604541A	Unified Network Transport	04	U	35,616	40,915	31,837

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91	0305251A	Cyberspace Operations Forces and Force Support	04	U	55,599		2,270
999	999999999	Classified Programs	04	U		19,200	277,181
	Advanced Component Development & Prototypes				4,576,716	4,420,315	2,343,901
92	0604201A	Aircraft Avionics	05	U	3,213	13,673	7,171
93	0604270A	Electronic Warfare Development	05	U	3,987	12,789	35,942
94	0604601A	Infantry Support Weapons	05	U	80,115	64,076	52,586
95	0604604A	Medium Tactical Vehicles	05	U	21,354	28,226	15,088
96	0604611A	JAVELIN	05	U	15,899	7,827	10,405
97	0604622A	Family of Heavy Tactical Vehicles	05	U	51,261	44,197	50,011
98	0604633A	Air Traffic Control	05	U	2,527	1,134	982
99	0604641A	Tactical Unmanned Ground Vehicle (TUGV)	05	U	107,975	142,125	92,540
100	0604642A	Light Tactical Wheeled Vehicles	05	U	13,667	53,564	100,257
101	0604645A	Armored Systems Modernization (ASM) - Eng Dev	05	U	60,827	102,201	48,097
102	0604710A	Night Vision Systems - Eng Dev	05	U	89,273	48,720	89,259
103	0604713A	Combat Feeding, Clothing, and Equipment	05	U	1,509	2,223	3,286
104	0604715A	Non-System Training Devices - Eng Dev	05	U	17,910	21,441	28,427
105	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	05	U	54,244	74,738	69,653
106	0604742A	Constructive Simulation Systems Development	05	U	28,404	30,985	30,097
107	0604746A	Automatic Test Equipment Development	05	U	4,989	13,626	12,927
108	0604760A	Distributive Interactive Simulations (DIS) - Eng Dev	05	U	7,890	8,802	8,914
109	0604798A	Brigade Analysis, Integration and Evaluation	05	U	22,207	20,828	26,352
110	0604802A	Weapons and Munitions - Eng Dev	05	U	284,859	243,851	242,949
111	0604804A	Logistics and Engineer Equipment - Eng Dev	05	U	74,150	37,420	41,829

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Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
112	0604805A	Command, Control, Communications Systems - Eng Dev	05	U	43,533	34,214	92,300
113	0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	05	U	25,035	6,496	7,143
114	0604808A	Landmine Warfare/Barrier - Eng Dev	05	U	36,707	13,581	19,134
115	0604818A	Army Tactical Command & Control Hardware & Software	05	U	128,240	168,574	165,229
116	0604820A	Radar Development	05	U	77,158	94,944	76,090
117	0604822A	General Fund Enterprise Business System (GFEBS)	05	U	10,022	2,965	1,995
118	0604827A	Soldier Systems - Warrior Dem/Val	05	U	19,237	11,333	29,132
119	0604852A	Suite of Survivability Enhancement Systems - EMD	05	U	75,520	79,250	77,864
120	0604854A	Artillery Systems - EMD	05	U	42,261	42,490	50,495
121	0605013A	Information Technology Development	05	U	85,713	104,024	120,076
122	0605018A	Integrated Personnel and Pay System-Army (IPPS-A)	05	U	65,055	102,084	126,354
123	0605030A	Joint Tactical Network Center (JTNC)	05	U	17,274	18,662	20,191
124	0605031A	Joint Tactical Network (JTN)	05	U	29,050	30,328	31,214
125	0605035A	Common Infrared Countermeasures (CIRCM)	05	U	9,602	11,509	11,691
126	0605036A	Combating Weapons of Mass Destruction (CWMD)	05	U		1,050	7,846
127	0605038A	Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite	05	U			7,886
128	0605041A	Defensive CYBER Tool Development	05	U	33,029	27,714	4,176
129	0605042A	Tactical Network Radio Systems (Low-Tier)	05	U	4,265	4,318	4,288
130	0605047A	Contract Writing System	05	U	13,220	16,355	9,276
131	0605049A	Missile Warning System Modernization (MWSM)	05	U		27,571	
132	0605051A	Aircraft Survivability Development	05	U	18,425	24,900	38,225
133	0605052A	Indirect Fire Protection Capability Inc 2 - Block 1	05	U	126,308	196,248	167,912
134	0605053A	Ground Robotics	05	U	25,131	35,319	28,378

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135	0605054A	Emerging Technology Initiatives	05	U	212,750	201,274	164,734
136	0605143A	Biometrics Enabling Capability (BEC)	05	U	9,186		
137	0605144A	Next Generation Load Device - Medium	05	U	24,094	36,970	2,931
138	0605148A	Tactical Intel Targeting Access Node (TITAN) EMD	05	U	103,987	132,136	157,036
139	0605203A	Army System Development & Demonstration	05	U	143,616	81,657	
140	0605205A	Small Unmanned Aerial Vehicle (SUAV) (6.5)	05	U	6,292	31,284	37,876
141	0605206A	CI and HUMINT Equipment Program-Army (CIHEP-A)	05	U		2,170	1,296
142	0605216A	Joint Targeting Integrated Command and Coordination Suite (JTIC2S)	05	U		9,290	28,553
143	0605224A	Multi-Domain Intelligence	05	U	6,008	41,003	18,913
144	0605231A	Precision Strike Missile (PrSM)	05	U	250,034	272,786	184,046
145	0605232A	Hypersonics EMD	05	U	533,520	900,920	538,017
146	0605233A	Accessions Information Environment (AIE)	05	U	9,720	27,361	32,265
147	0605235A	Strategic Mid-Range Capability	05	U	4,833	348,855	182,823
148	0605236A	Integrated Tactical Communications	05	U	11,993	22,901	23,363
149	0605241A	Future Long Range Assault Aircraft Development	05	U			1,253,637
150	0605242A	Theater SIGINT System (TSIGS)	05	U			6,660
151	0605244A	Joint Reduced Range Rocket (JR3)	05	U			13,565
152	0605247A	Spectrum Situational Awareness System (S2AS)	05	U			9,330
153	0605450A	Joint Air-to-Ground Missile (JAGM)	05	U	2,280	3,014	3,030
154	0605457A	Army Integrated Air and Missile Defense (AIAMD)	05	U	245,791	284,095	602,045
155	0605531A	Counter - Small Unmanned Aircraft Systems Sys Dev & Demonstration	05	U	11,548	36,016	59,563
157	0605625A	Manned Ground Vehicle	05	U	519,131	996,653	504,841
158	0605766A	National Capabilities Integration (MIP)	05	U	16,790	15,129	16,565

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159	0605812A	Joint Light Tactical Vehicle (JLTV) Engineering and Manufacturing Development Phase (EMD)	05	U	9,033	27,243	27,013
160	0605830A	Aviation Ground Support Equipment	05	U	2,851	1,167	979
161	0303032A	TROJAN - RH12	05	U	3,761	3,879	3,930
162	0303767A	AMBIT - Pre-Auctioned SRF	05	U	21,730		
163	0304270A	Electronic Warfare Development	05	U	97,616	137,186	131,096
999	999999999	Classified Programs	05	U			83,136
	System Development & Demonstration				4,077,609	5,639,364	6,150,910
164	0604256A	Threat Simulator Development	06	U	138,264	38,492	71,298
165	0604258A	Target Systems Development	06	U	53,434	11,873	15,788
166	0604759A	Major T&E Investment	06	U	144,173	76,167	78,613
167	0605103A	Rand Arroyo Center	06	U	30,800	37,078	38,122
168	0605301A	Army Kwajalein Atoll	06	U	297,859	314,872	321,755
169	0605326A	Concepts Experimentation Program	06	U	83,668	95,551	86,645
170	0605502A	Small Business Innovative Research	06	U	382,638		
171	0605601A	Army Test Ranges and Facilities	06	U	414,662	439,118	461,085
172	0605602A	Army Technical Test Instrumentation and Targets	06	U	72,760	42,220	75,591
173	0605604A	Survivability/Lethality Analysis	06	U	35,750	37,518	37,604
174	0605606A	Aircraft Certification	06	U	4,777	2,718	2,201
175	0605702A	Meteorological Support to RDT&E Activities	06	U	6,820		
176	0605706A	Materiel Systems Analysis	06	U	22,004	26,902	27,420
177	0605709A	Exploitation of Foreign Items	06	U	6,186	7,805	6,245
178	0605712A	Support of Operational Testing	06	U	69,879	75,133	76,088
179	0605716A	Army Evaluation Center	06	U	67,058	71,118	73,220

Department of the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Mar 2024

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments	FY 2025 Request
180	0605718A	Army Modeling & Sim X-Cmd Collaboration & Integ	06	U	5,874	11,204	11,257
181	0605801A	Programwide Activities	06	U	88,780	93,895	91,895
182	0605803A	Technical Information Activities	06	U	36,821	31,327	32,385
183	0605805A	Munitions Standardization, Effectiveness and Safety	06	U	59,088	50,409	50,766
184	0605857A	Environmental Quality Technology Mgmt Support	06	U	1,842	1,629	1,659
185	0605898A	Army Direct Report Headquarters - R&D - MHA	06	U	53,003	55,843	59,727
186	0606002A	Ronald Reagan Ballistic Missile Defense Test Site	06	U	85,873	91,340	73,400
187	0606003A	CounterIntel and Human Intel Modernization	06	U	1,424	6,348	4,574
188	0606942A	Assessments and Evaluations Cyber Vulnerabilities	06	U	5,816	6,025	10,105
189	0909999A	Financing for Cancelled Account Adjustments	06	U	135		
	Management Support				2,169,388	1,624,585	1,707,443
190	0603778A	MLRS Product Improvement Program	07	U	17,790	14,465	14,188
191	0605024A	Anti-Tamper Technology Support	07	U	9,028	7,472	7,489
192	0607101A	Combating Weapons of Mass Destruction (CWMD) Product Improvement	07	U			271
193	0607131A	Weapons and Munitions Product Improvement Programs	07	U	54,216	8,425	9,363
194	0607136A	Blackhawk Product Improvement Program	07	U		1,507	25,000
195	0607137A	Chinook Product Improvement Program	07	U	65,596	9,265	4,816
196	0607139A	Improved Turbine Engine Program	07	U	219,713	201,247	67,029
197	0607142A	Aviation Rocket System Product Improvement and Development	07	U	10,899	3,014	
198	0607143A	Unmanned Aircraft System Universal Products	07	U	10,493	25,393	24,539
199	0607145A	Apache Future Development	07	U	26,607	10,547	8,243
200	0607148A	AN/TPQ-53 Counterfire Target Acquisition Radar System	07	U	59,312	54,167	53,652
201	0607150A	Intel Cyber Development	07	U	13,343	4,345	9,753

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Department of the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Mar 2024

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments	FY 2025 Request
202	0607312A	Army Operational Systems Development	07	U	26,131	19,000	
203	0607313A	Electronic Warfare Development	07	U	11,417	6,389	5,559
204	0607315A	Enduring Turbine Engines and Power Systems	07	U		2,411	2,620
206	0607665A	Family of Biometrics	07	U	1,073	797	590
207	0607865A	Patriot Product Improvement	07	U	146,753	177,197	168,458
208	0203728A	Joint Automated Deep Operation Coordination System (JADOCS)	07	U	18,606	42,177	27,582
209	0203735A	Combat Vehicle Improvement Programs	07	U	187,377	146,635	272,926
210	0203743A	155mm Self-Propelled Howitzer Improvements	07	U	112,257	122,902	55,205
211	0203752A	Aircraft Engine Component Improvement Program	07	U	148	146	142
212	0203758A	Digitization	07	U		1,515	1,562
213	0203801A	Missile/Air Defense Product Improvement Program	07	U	2,996	4,520	1,511
214	0203802A	Other Missile Product Improvement Programs	07	U	8,698	10,044	23,708
215	0205412A	Environmental Quality Technology - Operational System Dev	07	U	764	281	269
216	0205778A	Guided Multiple-Launch Rocket System (GMLRS)	07	U	19,443	75,952	20,590
217	0208053A	Joint Tactical Ground System	07	U	8,813	203	
220	0303028A	Security and Intelligence Activities	07	U		301	
221	0303140A	Information Systems Security Program	07	U	15,554	15,323	15,733
222	0303141A	Global Combat Support System	07	U	21,775	13,082	2,566
223	0303142A	SATCOM Ground Environment (SPACE)	07	U	14,551	26,838	26,643
226	0305179A	Integrated Broadcast Service (IBS)	07	U	9,426	9,456	5,701
227	0305204A	Tactical Unmanned Aerial Vehicles	07	U	4,500		
228	0305206A	Airborne Reconnaissance Systems	07	U	6,402		
229	0305219A	MQ-1 Gray Eagle UAV	07	U		6,629	6,681

Department of the Army
FY 2025 President's Budget
Exhibit R-1 FY 2025 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Mar 2024

Appropriation: 2040A Research, Development, Test and Evaluation, Army

Line No	Program Element Number	Item	Act	Sec	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
230	0708045A	End Item Industrial Preparedness Activities	07	U	128,617	75,317	67,187
999	999999999	Classified Programs	07	U	6,664	8,786	32,518
	Operational Systems Development				1,238,962	1,105,748	962,094
231	0608041A	Defensive CYBER - Software Prototype Development	08	U	92,460	83,570	74,548
	Software And Digital Technology Pilot Programs				92,460	83,570	74,548
232	0901560A	Continuing Resolution Programs	20	U		1,366,740	
	Undistributed					1,366,740	
Total Research, Development, Test and Evaluation, Army					17,098,984	17,142,121	14,073,308

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

*FY 2023 includes \$7,626 thousand in Overseas Operations Costs (OOC) Actuals. FY 2024 includes \$3,166 thousand in OOC Requested. FY 2025 includes \$3,157 thousand for the OOC Budget Estimate. OOC were financed previously with former Overseas Contingency Operations (OCO) funding.

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Program Element Table of Contents (by Budget Activity then Line Item Number)

Appropriation 2040: Research, Development, Test & Evaluation, Army

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
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Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 8: Software and Digital Technology Pilot Programs					R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development							
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	92.460	83.570	74.548	-	74.548	80.023	80.554	80.747	80.752	Continuing	Continuing
CD1: Defensive Cyber - Software Prototype Devel	-	83.921	83.570	74.548	-	74.548	80.023	80.554	80.747	80.752	Continuing	Continuing
DD2: Joint Cyber Warfighting Architecture Software	-	8.539	-	-	-	-	-	-	-	-	0.000	8.539

Note

FY 2025 funding in the amount of \$23.339 million was realigned from PE 0605041A/ Defensive CYBER Tool Development, Project EV5/ Defensive CYBER Operations, PE 0128B63000 Defensive Cyber Operations, and PE 0131B89000 Insider Threat Program-Unit Activity Monitoring to BA-08 PE 060841A Project CD1 Defensive Cyber Software Prototype Development.

PE 0608041A Project DD2 Joint Cyber Warfighting Architecture Software has no funding request in FY 2025 and outyears.

A. Mission Description and Budget Item Justification

Defensive Cyber Operations (DCO) programs are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. The employment of defensive capabilities achieves the following objectives: deter, destroy and defeat cyberspace threats; gain time; economy of force; control key terrain; protect tasked critical assets and infrastructure; and develop intelligence.

Defensive Cyber Operations (DCO) consists of platform and software programs which are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. DCO supports the Army Cyber Command (ARCYBER), Information Warfare Operations Center (IWOC), FORSCOM, (5) Regional Cyber Centers (RCCs), Cyber Warfare Battalion (CWB), Multi-Domain Task Force (MDTF), Cyber Protection Brigade (CPB), and (41) Cyber Protection Teams (CPTs) in COMPO 1/2/3.

Defensive Cyber Tools and Analytics:

- * DCO - Cyberspace Analytics - (PEO EIS) - Strategic Level
- * DCO - Mission Planning - (PEO EIS) - Strategic Level (Program sunseting in FY 2023)
- * DCO - Tools Suite - (PEO EIS) - Garrison/Tactical Level
- * DCO - User Activity Monitoring - (PEO EIS) - Strategic Level
- * DCO - Forensics and Malware Analysis - (PEO EIS) - Garrison/Tactical Level
- * DCO - Threat Emulation - (PEO EIS) - Strategic Level
- * DCO - DCO Development Environment (DCODE) (Forge/Armory) - (PEO EIS)
- * DCO - Counter Infiltration - (PEO EIS) - Garrison/Tactical Level
- * ARCYBER Rapid Cyber Prototyping - (ARCYBER) - Strategic Level

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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army			Date: March 2024		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 8: Software and Digital Technology Pilot Programs		R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development			
Platforms/Levels: * DCO - Garrison DCO Platform - (PEO EIS) - Base Level * DCO - Defensive DCO Systems - (PEO EIS) - Tactical/Command Post Level					
B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	94.831	83.570	72.059	-	72.059
Current President's Budget	92.460	83.570	74.548	-	74.548
Total Adjustments	-2.371	0.000	2.489	-	2.489
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.371	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	2.489	-	2.489
Change Summary Explanation					
FY 2025 funding increase reflects a realignment. It is a continuation of effort previously included within PE 0605041A Project EV5 Defensive Cyber Tool Development, PE 0128B63000 Defensive Cyber Operations, and PE 0131B89000 Insider Threat Program-Unit Activity Monitoring.					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 8					R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>				Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Devel</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
CD1: <i>Defensive Cyber - Software Prototype Devel</i>	-	83.921	83.570	74.548	-	74.548	80.023	80.554	80.747	80.752	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY 2025 funding in the amount of \$23.339 million was realigned from PE 0605041A Project EV5 Defensive Cyber Tool Development, PE 0128B63000 Defensive Cyber Operations, and PE 0131B89000 Insider Threat Program-Unit Activity Monitoring to BA-08 PE 060841A Project CD1 Defensive Cyber Software Prototype Development.

A. Mission Description and Budget Item Justification

Defensive Cyber Operations (DCO) programs are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. The employment of defensive capabilities achieves the following objectives: deter, destroy and defeat cyberspace threats; gain time; economy of force; control key terrain; protect tasked critical assets and infrastructure; and develop intelligence.

Defensive Cyber Operations (DCO) consists of platform and software programs which are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. DCO supports the Army Cyber Command (ARCYBER), Information Warfare Operations Center (IWOC), FORSCOM, (5) Regional Cyber Centers (RCCs), Cyber Warfare Battalion (CWB), Multi-Domain Task Force (MDTF), Cyber Protection Brigade (CPB), and (41) Cyber Protection Teams (CPTs) in COMPO 1/2/3.

Defensive Cyber Tools and Analytics:

- * DCO - Cyberspace Analytics - (PEO EIS) - Strategic Level
- * DCO - Mission Planning - (PEO EIS) - Strategic Level (Program sunseting in FY 2023)
- * DCO - Tools Suite - (PEO EIS) - Garrison/Tactical Level
- * DCO - User Activity Monitoring - (PEO EIS) - Strategic Level
- * DCO - Forensics and Malware Analysis - (PEO EIS) - Garrison/Tactical Level
- * DCO - Threat Emulation - (PEO EIS) - Strategic Level
- * DCO - DCO Development Environment (DCODE) (Forge/Armory) - (PEO EIS)
- * DCO - Counter Infiltration - (PEO EIS) - Garrison/Tactical Level
- * ARCYBER Rapid Cyber Prototyping - (ARCYBER)

Platforms/Levels:

- * DCO - Garrison DCO Platform - (PEO EIS) - Base Level
- * DCO - Deployable DCO System - (PEO EIS) - Tactical/Command Post Level

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024	
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>	Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Development</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024
Title: Defensive Cyber Operations - Cyber Analytics (PEO EIS) Description: DCO Cyberspace Analytics Big Data Platform (BDP) is a scalable software-based capability hosted in the cloud, called Gabriel Nimbus (GN), which offers interfaces and visualization accessible by cyberspace defenders at all levels to facilitate counter-reconnaissance activities meant to discover the presence of advanced or sophisticated cyber threats and vulnerabilities. FY 2024 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5). FY 2024 funds managed professional services, hardware integration, LEAP/LTAC fielding and testing, security updates, system support, patches, and Rapid Analytic Deployment Management Framework (RADMF) licenses for management, orchestration, and continuous modernization of Gabriel Nimbus up to 14.7 petabytes (PB). Additionally, FY 2024 funds supports the continuous development of BDP applications and analytics to include the associated engineering, integration, cybersecurity, testing, and training for new capability releases through the Cyberspace Analytics Development Support Contract. FY 2025 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5). FY 2025 funds manage professional services, continue Lower Echelon Analytic Platform (LEAP) / LEAP Tactical (LTAC) and hardware integration, security updates, system support, patches, and Rapid Analytic Deployment Management Framework (RADMF) licenses for orchestration, and continuous modernization of Gabriel Nimbus (GN) Expansion up to 14.7 petabytes (PB). Additionally, FY 2025 funds support the continuous development of BDP applications and analytics to include the associated engineering, integration, cybersecurity, testing, and training for new capability releases through the Cyberspace Analytics Development Support Contract. FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 funding increased to support the development of BDP applications and analytics to include the associated engineering, integration, cybersecurity, testing, training for new capability releases, and continuous modernization through the Cyberspace Analytics Development Support Contract and development of an organic BDP management and orchestration tool.		28.190	22.106
Title: Defensive Cyber Operations (DCO) - Tools Suite (PEO EIS) Description: DCO Tools Suite is a flexible and dynamic software based suite of warfighting capabilities that enables Cyber Protection Teams (CPTs), Regional Cyber Centers (RCCs), and in some cases local defenders to perform DCO and cybersecurity actions. DCO tools consists of prepositioned and tailorable software packages that are integrated and available at all echelons to support or directly cause effects through the execution of Cyber Mission Force (CMF) and cyberspace workforce tasks. They are executed or managed within a DCO platform. FY 2024 Plans:		18.890	22.963
			13.750

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024		
Appropriation/Budget Activity 2040 / 8		R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development	Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2023	FY 2024	FY 2025
<p>Prior to BA8 Pilot program, this capability would have been funded with OPA funding (PE 0128B63000) and OMA funding. FY 2024 OPA Plans: \$2.985 million FY 2024 OMA Plans: \$19.978 million FY 2024 funding continues to support new tools, training, license renewals, and professional services.</p> <p>FY 2025 Plans: Prior to BA8 Pilot program, this capability would have been funded with OMA funding. FY 2025 funding continues to support (87) fielded Deployable DCO System (DDS) Kits, and (47) fielded Garrison DCO Platform (GDP) operating systems (OS). The DDS and GDP capabilities require virtual OS to run DCO Tools on the hardware platforms. Additionally, FY 2025 funding also supports Security Information and Event Management (SIEM) and the hypervisor that runs through the OS.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Army requirement for additional DCO Tools delayed until FY 2026 and beyond thereby reducing FY 2025 funding.</p>					
<p>Title: Defensive Cyber Operations (DCO) - User Activity Monitoring (PEO EIS)</p> <p>Description: DCO User Activity Monitoring (UAM) is the primary capability within the Army's overall Insider Threat (InT) program. UAM is mainly a software-based, scalable solution that has an on-premise solution and a cloud solution. It 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.</p> <p>FY 2024 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5). FY 2024 funding supports continued hardware maintenance, system security updates and patching, and software licenses for the current COTS UAM tool suite of the on-premises UAM (UAM-P) capability and migration of data to the Army's Big Data Platform to support the deployment of the UAM-C capability. Additionally, FY 2024 funding supports the hardware maintenance, system security updates and patching, and software licenses for the UAM Special Access Program (SAP) solution fielded in FY 2023. FY 2024 funding also supports the continued development, engineering, testing, accreditation, and integration of the Big Data Platform (BDP) applications to deploy the UAM-C capability to replace the current UAM-P capability.</p> <p>FY 2025 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5). FY 2025 funding supports hardware maintenance, system security updates and patching, software licenses, and data migration from the COTS UAM tool suite of the on-premises UAM (UAM-P) capability to the GOTS cloud UAM (UAM-C) during migration and integration to the cloud and the Army's Big Data Platform (BDP). Additionally, FY 2025 funding supports the hardware maintenance, system security updates and patching, and software licenses for the UAM Special Access Program (SAP) capability</p>			9.602	10.514	11.000

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>	Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>fielded in FY 2023. FY 2025 funding also supports the continued development, engineering, testing, accreditation, and integration of the GOTS UAM Endpoint Collection Tool application to fully deploy the UAM-C capability into the BDP and eliminate COTS license dependencies.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 funding increased to support UAM continuous modernization.</p>				
<p>Title: Defensive Cyber Operations (DCO) - Forensics and Malware Analysis (PEO EIS)</p> <p>Description: DCO Forensics and Malware Analysis (F&MA) capability is a software/hardware based solution enabling global, regional, and local cyberspace defenders to perform forensics either remotely or locally. Forensics is evidence related and Malware capabilities provides a sandboxlike, virtual environment that allows for the conduct of real-time, automated and dynamic malware decomposition and behavior analysis. Forensics gives cyberspace defenders the ability to collect, process, search, and analyze evidence from portable electronic devices, removable media, system hard drives, and random access memory. This process rapidly triages an incident and place the impacted system(s) back in service.</p> <p>FY 2024 Plans: Prior to BA8 Pilot program, this capability would have been funded with OMA funding. FY 2024 funding supports annual licenses renewals, maintenance, professional services for completion of fielding, and program support costs.</p> <p>FY 2025 Plans: Prior to BA8 Pilot program, this capability would have been funded with OMA funding. FY 2024 funding supports annual licenses renewals, maintenance, professional services for completion of fielding, and program support costs.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Army requirement for Forensics and Malware Analysis capability delayed until FY 2026 and beyond thereby reducing FY 2025 funding.</p>		1.007	2.477	1.100
<p>Title: Defensive Cyber Operations (DCO) - Threat Emulation (PEO EIS)</p> <p>Description: DCO Threat Emulation capability is a software based suite of tools used to gain access to evaluated networks through multi-vectors of unknown, partially known, or known access methods. Threat Emulation will enable the implementation of real world threat tactics, techniques, and procedures (TTPs) against risk areas such as web services, endpoints, passwords and identities, phishing and social engineering, mobile devices, and wired/wireless network systems in order to reveal critical security exposures.</p>		-	5.239	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development	Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
FY 2024 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5). FY 2024 funds yearly licenses to support 25 On-Premises VM Management Consoles and Network Modules and up to the 10,000 endpoint agents needed to operate Threat Emulation software fielded at all designated locations. Additionally, FY 2024 funds system security updates, patches, and continuous modernization of the Threat Emulation software.				
FY 2024 to FY 2025 Increase/Decrease Statement: Army requirement for Threat Emulation capability delayed until FY 2026 and beyond thereby reducing FY 2025 funding.				
Title: Defensive Cyber Operations (DCO) - DCO Development Environment (Forge/Armory) (PEO EIS) Description: DCO Development Environment (DCODE) (Forge/Armory) are both physical and virtual assets that provide continual integration, upgrade, assessment, optimization in support of the warfighter's operational environment. Purpose is to provide centralized lifecycle management and consist of the following capabilities: 1) physical and/or virtual assets that provide integration and assessment capabilities during the development and integration phases of operations. These assets are centrally managed in order to provide accountability, modernization, standardization, software updating and patching and security posture in order to maintain the Authority to Operate (ATO); 2) provide the capability for Cyber Protection Teams (CPTs) to remotely access multiple networks, simultaneously, thru a safe and secure infrastructure framework.		7.369	-	8.800
FY 2025 Plans: Prior to BA8 Pilot program, this capability would have been funded with RDTE funding (PE 0605041A EV5), and OPA funding (PE 0128B63000). FY 2025 DCODE funding continues to provide tiered support for deployable systems for cyber mission and service retained forces, development and maintenance of deployable software, and tool integration and engineering.				
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 DCODE funding is a realignment. It is a continuation of effort previously included within PE 0128B63000 Defensive Cyber Operations, and PE 0605041A Project EV5 Defensive Cyber Tools Development				
Title: Defensive Cyber Operations (DCO) - Counter Infiltration (PEO EIS) Description: Counter Infiltration (formerly Threat Deception) supports the global defenders the ability to conduct Counter Infiltration operations to detect and respond to advanced persistent threat (APT) within the defended network enclave. Our Cyber Defenders employ this capability to conduct defensive cyberspace operations (DCO) internal defensive measures (DCO-IDM) to detect and respond to adversary malicious presence and actions. This capability provides the functional ability conduct DCO-IDM using deception tactics, techniques, and procedures (TTP). This capability provides the means employing fundamental military principles of deception (ways) to conduct effective DCO-IDM mission.		-	1.833	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024	
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>	Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Development</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024
FY 2024 Plans: Prior to BA8 Pilot program, this capability would have been funded with OPA funding (PE 0128B63000). FY 2024 funding supports the procurement of 25,000 licenses per Regional Cyber Center (RCC). FY 2024 to FY 2025 Increase/Decrease Statement: Army requirement for Counter Infiltration capability delayed until FY 2026 and beyond thereby reducing FY 2025 funding.			
Title: Defensive Cyber Operations (DCO) - Garrison DCO Platform - Next Generation (PEO EIS) Description: The Garrison DCO Platform (GDP) is a system that provides the Army's cyberspace defenders with the capability to defend garrison network environments from a remote location. It ingests data via Test Access Points (TAPs), enables the employment of the software tools necessary to compute and analyze the data, and offers a storage and forwarding capability to ensure necessary data is retained locally or easily accessible via the Big Data Platform (BDP). FY 2024 Plans: Prior to BA8 Pilot program, this capability was funded with OPA funding (PE 0128B63000). FY 2024 funding supports the research and development of the next generation / enhancement of the GDP and continued procurement of the capability. FY 2025 Plans: Prior to BA8 Pilot program, this capability would have been funded with OPA funding (PE 128B63000). FY 2025 funding supports GDP hardware integration and support for fielded systems. FY 2024 to FY 2025 Increase/Decrease Statement: Army requirement for additional GDP systems delayed until FY 2026 and beyond thereby reducing FY 2025 funding.		4.369	7.002
Title: Defensive Cyber Operations (DCO) - Deployable DCO System (PEO EIS) Description: Deployable DCO System - Modular (DDS-M) is a multi-configurable air transportable deployable kit supports DCO deployed missions. DDS-M has the hardware/software capability that serves as primary weapon system for our Army's Cyber Protection Teams (CPTs) to conduct the DCO mission on the Department of Defense Information Network (DoDIN). FY 2025 Plans: Prior to BA8 Pilot program, this capability would have been funded with OPA funding (PE 0128B63000). FY 2025 Deployable DCO System funding provides continuous operational support to fielded systems. FY 2024 to FY 2025 Increase/Decrease Statement:		-	0.900

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development	Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
FY 2025 Deployable DCO System funding is a realignment. It is a continuation of effort previously included within PE 0128B63000 Defensive Cyber Operations.				
<p>Title: Defensive Cyber Operations (DCO) - Management Services (PEO EIS)</p> <p>Description: Funding provides program management services and support from a mix of government matrix and contractors that perform mission critical implementation, fielding, system engineering, logistics, programmatic, and acquisition support for nine ACAT IV programs in various phases of development and production.</p> <p>FY 2024 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5) and OPA funding (PE 0128B63000). FY 2024 funding provides continued program management services and support from a mix of government matrix personnel and contractor that perform mission critical implementation, fielding, system engineering, logistics, programmatic, and acquisition support for eight ACAT IV programs in various phases of development and production.</p> <p>FY 2025 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5) and OPA funding (PE 0128B63000). FY 2025 funding provides program management services and support from a mix of government matrix personnel and contractor that perform mission critical implementation, fielding, system engineering, logistics, programmatic, and acquisition support in various phases of development and production.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Army delay in procuring additional DDS and GDP systems, DCO Tools, Forensics and Malware Analysis, Threat Emulation and Counter Infiltration capabilities until FY 2026 and beyond reduced FY 2025 funding for program management services.</p>		14.494	10.136	6.798
<p>Title: Defensive Cyber Operations (DCO) - Rapid Cyber Prototyping (ARCYBER)</p> <p>Description: ARCYBER Rapid Cyber Prototyping program provides the ability to very quickly identify, prototype, pilot, and assess cutting-edge non-program-of-record cyber-operations peculiar technologies and capabilities against ARCYBER's realistic environments and data to tailor capabilities and prototypes to ARCYBER's needs.</p> <p>FY 2024 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5). ARCYBER plans to focus its FY 2024 rapid cyber prototyping efforts on identifying and assessing novel non-program-of-record defensive cyberspace operations and big data platform-related solutions for automated vulnerability and anomaly detection, network monitoring and visualization, and advanced modeling and predictive analytics. ARCYBER will continue to mature</p>		-	1.300	1.300

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 8				R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>				Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Development</i>				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2023	FY 2024	FY 2025
its Cyber Fusion Innovation Center (CFIC) by increasing industry and academia outreach to drive ARCYBER, industry, and academia collaboration on state-of-the-art approaches to cyber operations problem-sets.												
FY 2025 Plans: Prior to BA8 Pilot program, this capability was funded with RDTE funding (PE 0605041A EV5). FY 2025 funding supports continuous ARCYBER rapid cyber prototyping efforts on identifying and assessing novel non-program-of-record defensive cyberspace operations and big data platform-related solutions for automated vulnerability and anomaly detection, network monitoring and visualization, and advanced modeling and predictive analytics. ARCYBER will continue to mature its Cyber Fusion Innovation Center (CFIC) by increasing industry and academia outreach to drive ARCYBER, industry, and academia collaboration on state-of-the-art approaches to cyber operations problem-sets.												
Accomplishments/Planned Programs Subtotals										83.921	83.570	74.548
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost	
• B63103: <i>Advanced Cyber Tool Development</i>	-	13.848	0.000	-	0.000	-	-	-	-	0.000	13.848	
• B66350: <i>ARCYBER DEFENSIVE CYBER OPERATIONS</i>	13.940	-	0.000	-	0.000	-	-	-	-	0.000	13.940	
• B89001: <i>Insider Threat Program - Unit Activity Monitoring</i>	1.437	1.502	0.000	-	0.000	-	-	-	-	0.000	2.939	
• 0605041A: <i>Defensive CYBER Tool Development</i>	33.029	27.714	4.176	-	4.176	4.261	4.146	4.193	4.235	0.000	81.754	
Remarks												
OPA PE B63103 - DCO hardware procurement, fielding, and new equipment training for Garrison DCO Platform (GDP), Deployable Defensive Systems (DDS), and DCODE Armory.												
OPA PE B66350 (FY 2023 only) - DCO hardware procurement, fielding, and new equipment training for GDP, DDS, and DCODE Armory.												
OPA PE B89001 - DCO Insider Threat Program - Unit Activity Monitoring for UAM operations conducted in support of the Army's insider threat program.												
RDTE PE 0605041A Project EV5 - DCO platform infrastructure, integration, and assessments.												
D. Acquisition Strategy												
The DCO Information System Initial Capabilities Document (IS ICD) was approved on 19 December 2017 by the Army Requirements Oversight Council (AROC). DCO programs are under an IT Box construct with five-year term (FY 2018-2022) which aligns with current Requirements Definition Packages (RDPs). IT Box establishes												

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>	Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Devel</i>
<p>funding thresholds, by appropriation, for a program over the capability's projected lifecycle of five (5) years. FY 2018-2022 IT Box expired in 4Q FY 2022. FY 2023-2027 IT Box Revalidation Army Requirement Oversight Council Memorandum (AROCM) approved on 31 August 2023.</p> <p>The ARB approved GDP and DDS on 27 February 2018; Cyber Analytics and DCO Tool Suite RDPs on 18 May 2018; Mission Planning on 8 November 2018 (sunsetting in FY 2023); User Activity Monitoring and Forensics and Malware Analysis on 18 March 2019; Threat Emulation on 24 August 2020; and Counter Infiltration on 10 February 2023. The MDA designated these as ACAT IV programs. Under subsequent reviews, the MDA approved agile acquisition approach to develop and deliver pre-configured software in a series of releases and capability drops in order to deliver full functional values of the RDP that align with DCO priorities. DCO programs utilize standard and FY 2018 National Defense Authorization Act (NDAA) Section 874 agile pilot evolutionary acquisition processes (30-90 rapid acquisition approach). DCO continually delivers new technologies and capabilities as a prototype and fields updated capabilities. DCO contract strategy utilizes multiple existing contracts vehicles to include Other Transactional Authority (OTA), Federal Acquisition Regulation (FAR)-based, Blanket Purchase Agreement (BPA), and Basic Ordering Agreement (BOA).</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity 2040 / 8						R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>						Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Development</i>			
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCO - Management Services (PEO EIS)	Various	Various : Various	19.676	14.494	Mar 2023	10.136	Mar 2024	6.798	Mar 2025	-		6.798	Continuing	Continuing	-
Subtotal			19.676	14.494		10.136		6.798		-		6.798	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCO - Cyber Analytics	C/FFP	Army Contracting Command - Rock Island (ACC-RI) : Rock Island, IL	51.826	28.190	Feb 2023	22.106	Jan 2024	28.100	Jan 2025	-		28.100	Continuing	Continuing	-
DCO - Mission Planning	C/FFP	ACC-RI : Rock Island, IL	3.195	-		-		-		-		-	0.000	3.195	-
DCO - Tools Suite	MIPR	GSA, FEDSIM : Washington, DC	39.969	18.890	Mar 2023	22.963	Mar 2024	13.750	Mar 2025	-		13.750	Continuing	Continuing	-
DCO - User Activity Monitoring	C/FFP	ACC-RI : Rock Island, IL	18.491	9.602	Jan 2023	10.514	Jan 2024	11.000	Jan 2025	-		11.000	Continuing	Continuing	-
DCO - Forensics and Malware	C/FFP	ACC-RI : Rock Island, IL	2.421	1.007	Mar 2023	2.477	Mar 2024	1.100	Mar 2025	-		1.100	Continuing	Continuing	-
DCO - Threat Emulation	C/FFP	ACC-RI : Rock Island, IL	4.934	-		5.239	Feb 2024	-		-		-	Continuing	Continuing	-
DCO - Counter Infiltration	C/FFP	ACC-RI : Rock Island, IL	-	-		1.833	Apr 2024	-		-		-	Continuing	Continuing	-
DCO - Garrison DCO Platform	C/FFP	ACC-RI : Rock Island, IL	-	4.369	Mar 2023	7.002	Mar 2024	2.800	Mar 2025	-		2.800	Continuing	Continuing	-
DCO - Deployable DCO System	SS/BOA	Cyber Procurement : Ft Meade	-	-		-		0.900	Mar 2025	-		0.900	Continuing	Continuing	-
ARCYBER - Rapid Cyber Prototyping	C/FFP	ACC-RI : Rock Island, IL	2.966	-		1.300		1.300	Jun 2025	-		1.300	Continuing	Continuing	-
Subtotal			123.802	62.058		73.434		58.950		-		58.950	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity 2040 / 8						R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development						Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development			
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCO Development Environment (Forge/Armory)	TBD	TBD : TBD	-	7.369	Jan 2023	-		8.800	Jan 2025	-		8.800	Continuing	Continuing	-
Subtotal			-	7.369		-		8.800		-		8.800	Continuing	Continuing	N/A
			Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			143.478	83.921		83.570		74.548		-		74.548	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024		
Appropriation/Budget Activity 2040 / 8		R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development		Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development	

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DCO-Cyber Analytics Enhancements, Testing & Deployment	DCO Cyber Analytics Enhancements, Testing & Deployment																											
DCO-Cyber Analytics Capability Release 11	DCO Cyber Analytics CR11																											
DCO-Cyber Analytics Development Support Contract	DCO Cyber Analytics Development Support Contract																											
DCO-Cyber Analytics Development Support Contract Option 1																												
DCO-Cyber Analytics Development Support Contract Option 2																												
DCO-Cyber Analytics Development Support Contract Follow-on																												
DCO-Cyber Analytics Capability Release 12																												
DCO-Cyber Analytics Capability Release 13																												
DCO-Cyber Analytics Capability Release 14																												
DCO-Cyber Analytics - Full Operational Capability																												
DCO-Cyber Analytics Capability Release 15																												
DCO-Cyber Analytics GN Expansion III																												
DCO-Cyber Analytics GN Expansion III Option 1																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024	
Appropriation/Budget Activity 2040 / 8		R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development		Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DCO-Cyber Analytics GN Expansion III Option 2																												
DCO-Cyber Analytics Capability Release 16																												
DCO-Cyber Analytics Capability Release 17																												
DCO-Cyber Analytics Capability Release 18																												
DCO-Cyber Analytics Capability Release 19																												
DCO-Cyber Analytics Capability Release 20																												
DCO-Cyber Analytics Capability Release 21																												
DCO-Cyber Analytics Capability Release 22																												
DCO-Tools Suite v5																												
DCO-Tools Suite v6																												
DCO-Tools Suite v7																												
DCO-User Activity Monitor POR Contract																												
DCO-User Activity Monitoring - New FAR UAM Maintenance C...																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army

Date: March 2024

Appropriation/Budget Activity

2040 / 8

R-1 Program Element (Number/Name)

PE 0608041A / Defensive CYBER - Software Prototype Development

Project (Number/Name)

CD1 / Defensive Cyber - Software Prototype Development

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DCO-User Activity Monitoring - New Viper OTA Prototype A...																												
DCO-User Activity Monitoring - Behavioral Analysis																												
DCO-User Activity Monitoring - Integrate with BDP																												
DCO-User Activity Monitoring - UAM Cloud Development																												
DCO-User Activity Monitoring - Total NET Employment																												
DCO-User Activity Monitoring Capability - SAP Full Opera...																												
DCO-User Activity Monitoring Capability - Full Operation...																												
DCO-User Activity Monitoring - UAM-P Operation & Maintenance																												
DCO-Forensics and Malware -Initial Operating Capability																												
DCO-Forensics and Malware - Ida Pro Procurement 1 (Option 1)																												
DCO-Forensics and Malware - Full Operating Capability																												
DCO-Forensics and Malware - Ida Pro Procurement 1 (Option 2)																												
DCO-Forensics and Malware - Ida Pro New Award																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024		
Appropriation/Budget Activity 2040 / 8		R-1 Program Element (Number/Name) PE 0608041A / <i>Defensive CYBER - Software Prototype Development</i>		Project (Number/Name) CD1 / <i>Defensive Cyber - Software Prototype Development</i>	

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DCO-Forensics and Malware - Ida Pro Option 1																												
DCO-Forensics and Malware - Encase Investigator Maintenance (CY1)																												
DCO-Forensics and Malware - Encase Investigator Maintenance (CY2)																												
DCO-Forensics and Malware - Encase Investigator Maintenance (CY3)																												
DCO-Forensics and Malware - Encase Investigator Maintenance Renewal																												
DCO-DCO Development Environment (Forge/Armory)																												
DCO-Garrison DCO Platform - Next Generation Pilot																												
DCO-Garrison DCO Platform - Maintenance Support																												
DCO-Deployable DCO System - Maintenance Support																												
DCO-ARCYBER Rapid Cyber Prototyping (Rapid Proto / Capab...)																												
DCO-ARCYBER Rapid Cyber Prototyping (Rapid Proto / Capab...)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development	Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DCO - Cyber Analytics POR Contract	2	2019	1	2022
DCO-Cyber Analytics GN Expansion II	1	2021	4	2022
DCO-Cyber Analytics Capability Release 7	1	2021	1	2021
DCO-Cyber Analytics Lower Echelon Analytics Platform (LEAP) Release	1	2021	4	2022
DCO-Cyber Analytics LEAP Tactical (LTAC) Release	2	2021	4	2022
DCO-Cyber Analytics Enhancements, Testing & Deployment	2	2021	4	2025
DCO-Cyber Analytics Capability Release 8	2	2021	2	2021
DCO-Cyber Analytics Capability Release 9	3	2021	3	2021
DCO-Cyber Analytics Capability Release 10	4	2021	4	2021
DCO-Cyber Analytics Capability Release 11	1	2023	1	2023
DCO-Cyber Analytics Development Support Contract	2	2022	2	2023
DCO-Cyber Analytics Development Support Contract Option 1	2	2023	2	2024
DCO-Cyber Analytics Development Support Contract Option 2	2	2024	2	2025
DCO-Cyber Analytics Development Support Contract Follow-on	2	2025	2	2026
DCO-Cyber Analytics Capability Release 12	2	2023	2	2023
DCO-Cyber Analytics Capability Release 13	3	2023	3	2023
DCO-Cyber Analytics Capability Release 14	4	2023	4	2023
DCO-Cyber Analytics - Full Operational Capability	4	2024	4	2024
DCO-Cyber Analytics Capability Release 15	1	2024	1	2024
DCO-Cyber Analytics GN Expansion III	1	2023	4	2023
DCO-Cyber Analytics GN Expansion III Option 1	1	2024	4	2024
DCO-Cyber Analytics GN Expansion III Option 2	1	2025	4	2025

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army

Date: March 2024

Appropriation/Budget Activity

2040 / 8

R-1 Program Element (Number/Name)

PE 0608041A / Defensive CYBER - Software Prototype Development

Project (Number/Name)

CD1 / Defensive Cyber - Software Prototype Development

Events	Start		End	
	Quarter	Year	Quarter	Year
DCO-Cyber Analytics Capability Release 16	2	2024	2	2024
DCO-Cyber Analytics Capability Release 17	3	2024	3	2024
DCO-Cyber Analytics Capability Release 18	4	2024	4	2024
DCO-Cyber Analytics Capability Release 19	1	2025	1	2025
DCO-Cyber Analytics Capability Release 20	2	2025	2	2025
DCO-Cyber Analytics Capability Release 21	3	2025	3	2025
DCO-Cyber Analytics Capability Release 22	4	2025	4	2025
DCO-Mission Planning POR Contract	1	2021	4	2022
DCO-Mission Planning Capability Release 5	2	2021	4	2021
DCO-Tools Suite v2	4	2020	2	2021
DCO-Tools Suite v3	2	2021	4	2021
DCO-Tools Suite v4	2	2022	4	2022
DCO-Tools Suite v5	2	2023	4	2023
DCO-Tools Suite v6	2	2024	4	2024
DCO-Tools Suite v7	2	2025	4	2025
DCO-User Activity Monitor POR Contract	1	2021	3	2024
DCO-User Activity Monitoring - New FAR UAM Maintenance Contract	1	2024	1	2028
DCO-User Activity Monitoring - New Viper OTA Prototype Agreement	1	2024	4	2026
DCO-User Activity Monitoring - Behavioral Analysis	1	2021	4	2023
DCO-User Activity Monitoring - Integrate with BDP	2	2021	2	2024
DCO-User Activity Monitoring - UAM Cloud Development	1	2023	3	2025
DCO-User Activity Monitoring - Total NET Employment	1	2024	2	2024
DCO-User Activity Monitoring Capability - SAP Full Operational Capability	2	2024	2	2024
DCO-User Activity Monitoring Capability - Full Operational Capability	2	2025	2	2025
DCO-User Activity Monitoring - UAM-P Operation & Maintenance	1	2023	4	2026

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army			Date: March 2024	
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development		Project (Number/Name) CD1 / Defensive Cyber - Software Prototype Development	
	Start		End	
Events	Quarter	Year	Quarter	Year
DCO-Forensics and Malware -Initial Operating Capability	4	2024	4	2024
DCO-Forensics and Malware - Ida Pro Procurement 1 (Base Year)	2	2021	2	2022
DCO-Forensics and Malware - Sandbox Solution	1	2022	4	2022
DCO-Forensics and Malware - Ida Pro Procurement 1 (Option 1)	2	2022	2	2023
DCO-Forensics and Malware - Full Operating Capability	3	2025	3	2025
DCO-Forensics and Malware - Ida Pro Procurement 1 (Option 2)	2	2023	2	2024
DCO-Forensics and Malware - Ida Pro New Award	2	2024	2	2025
DCO-Forensics and Malware - Ida Pro Option 1	2	2025	2	2026
DCO-Forensics and Malware - Encase Investigator Maintenance (BY)	2	2021	2	2022
DCO-Forensics and Malware - Encase Investigator Maintenance (OY1)	2	2022	2	2023
DCO-Forensics and Malware - Encase Investigator Maintenance (OY2)	2	2023	2	2024
DCO-Forensics and Malware - Encase Investigator Maintenance (OY3)	2	2024	2	2025
DCO-Forensics and Malware - Encase Investigator Maintenance Renewal	2	2025	2	2026
DCO-Threat Emulation - Social Engineering Toolkit	1	2021	4	2022
DCO-Threat Emulation - Exploit Code Generator	3	2021	2	2022
DCO-Threat Emulation - Proprietary Interface	1	2022	4	2022
DCO-DCO Development Environment	1	2022	4	2022
DCO-DCO Development Environment (Forge/Armory)	1	2023	4	2025
DCO-Garrison DCO Platform - Next Generation Pilot	2	2023	4	2024
DCO-Garrison DCO Platform - Maintenance Support	2	2025	4	2025
DCO-Deployable DCO System - Maintenance Support	2	2025	4	2025
DCO-ARCYBER Rapid Cyber Prototyping (Rapid Proto / Capablity Assessments) (FY 2022)	3	2021	2	2023
DCO-ARCYBER Rapid Cyber Prototyping (Rapid Proto / Capablity Assessments)	1	2024	4	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 8					R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development				Project (Number/Name) DD2 / Joint Cyber Warfighting Architecture Software			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
DD2: Joint Cyber Warfighting Architecture Software	-	8.539	-	-	-	-	-	-	-	-	0.000	8.539
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

PE 0608041A Project DD2 Joint Cyber Warfighting Architecture Software has no funding request in FY 2025 and outyears.

A. Mission Description and Budget Item Justification

Defensive Cyber Operations (DCO) programs are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. The employment of defensive capabilities achieves the following objectives: deter, destroy and defeat cyberspace threats; gain time; economy of force; control key terrain; protect tasked critical assets and infrastructure; and develop intelligence.

Defensive Cyber Operations (DCO) consists of platform and software programs which are key elements of the DCO Maneuver Baseline infrastructure, platform, and tools. DCO supports the Army Cyber Command (ARCYBER), Information Warfare Operations Center (IWOC), FORSCOM, (5) Regional Cyber Centers (RCCs), Cyber Warfare Battalion (CWB), Multi-Domain Task Force (MDTF), Cyber Protection Brigade (CPB), and (41) Cyber Protection Teams (CPTs) in COMPO 1/2/3.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Defensive Cyber Operations (DCO) - Tools Suite (PEO EIS)	6.546	-	-
Description: DCO Tools Suite is a flexible and dynamic software based suite of warfighting capabilities that enables Cyber Protection Teams (CPTs), Regional Cyber Centers (RCCs), and in some cases local defenders to perform DCO and cybersecurity actions. DCO tools consists of prepositioned and tailorable software packages that are integrated and available at all echelons to support or directly cause effects through the execution of Cyber Mission Force (CMF) and cyberspace workforce tasks. They are executed or managed within a DCO platform.			
Title: Defensive Cyber Operations (DCO) - DCO Development Environment (Forge/Armory) (PEO EIS)	1.993	-	-
Description: DCO Development Environment (DCODE) (Forge/Armory) are both physical and virtual assets that provide continual integration, upgrade, assessment, optimization in support of the warfighter's operational environment. Purpose is to provide centralized lifecycle management and consist of the following capabilities: 1) physical and/or virtual assets that provide integration and assessment capabilities during the development and integration phases of operations. These assets are centrally managed in order to provide accountability, modernization, standardization, software updating and patching and security posture in order to maintain the Authority to Operate (ATO); 2) provide the capability for Cyber Protection Teams (CPTs) to remotely access multiple networks, simultaneously, thru a safe and secure infrastructure framework.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army										Date: March 2024		
Appropriation/Budget Activity 2040 / 8				R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development				Project (Number/Name) DD2 / Joint Cyber Warfighting Architecture Software				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2023	FY 2024	FY 2025
Accomplishments/Planned Programs Subtotals										8.539	-	-
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost	
• 0605041A: Defensive CYBER Tool Development	33.029	27.714	4.176	-	4.176	4.261	4.146	4.193	4.235	0.000	81.754	
• B63103: Advanced Cyber Tool Development	-	13.848	0.000	-	0.000	-	-	-	-	0.000	13.848	
• B66350: ARCYBER DEFENSIVE CYBER OPERATIONS	13.940	-	0.000	-	0.000	-	-	-	-	0.000	13.940	
• B89001: Insider Threat Program - Unit Activity Monitoring	1.437	1.502	0.000	-	0.000	-	-	-	-	0.000	2.939	
Remarks												
RDTE PE 0605041A Project EV5 - DCO platform infrastructure, integration, and assessments.												
OPA PE B63103 - DCO hardware procurement, fielding, and new equipment training for Garrison DCO Platform (GDP), Deployable Defensive Systems (DDS), and DCODE Armory.												
OPA PE B66350 (FY 2023 only) - DCO hardware procurement, fielding, and new equipment training for GDP, DDS, and DCODE Armory.												
OPA PE B89001 - DCO Insider Threat Program - Unit Activity Monitoring for UAM operations conducted in support of the Army's insider threat program.												
D. Acquisition Strategy												
The DCO Information System Initial Capabilities Document (IS ICD) was approved on 19 December 2017 by the Army Requirements Oversight Council (AROC). DCO programs are under an IT Box construct with five-year term (FY 2018-2022) which aligns with current Requirements Definition Packages (RDPs). IT Box establishes funding thresholds, by appropriation, for a program over the capability's projected lifecycle of five (5) years. FY 2018-2022 IT Box expired in 4Q FY 2022. FY 2023-2027 IT Box Revalidation Army Requirement Oversight Council Memorandum (AROCM) approved on 31 August 2023.												
The ARB approved DDS RDP on 27 February 2018, and DCO Tools Suite on 18 May 2018. The MDA designated this as ACAT IV program. Under subsequent reviews, the MDA approved agile acquisition approach to develop and deliver pre-configured software in a series of releases and capability drops in order to deliver full functional values of the RDP that align with DCO priorities. DCO programs utilize standard and FY 2018 National Defense Authorization Act (NDAA) Section 874 agile pilot evolutionary acquisition processes (30-90 rapid acquisition approach). DCO continually delivers new technologies and capabilities as a prototype and fields updated capabilities. DCO contract strategy utilizes multiple existing contracts vehicles to include Other Transactional Authority (OTA), Federal Acquisition Regulation (FAR)-based, Blanket Purchase Agreement (BPA), and Basic Ordering Agreement (BOA).												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity 2040 / 8						R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development						Project (Number/Name) DD2 / Joint Cyber Warfighting Architecture Software			
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCO - Tools Suite (PEO EIS)	MIPR	GSA, FEDSIM National : Washington, DC	-	8.539	Mar 2023	-		-		-		-	0.000	8.539	-
Subtotal			-	8.539		-		-		-		-	0.000	8.539	N/A
			Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	8.539		-		-		-		-	0.000	8.539	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army																Date: March 2024												
Appropriation/Budget Activity 2040 / 8										R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development								Project (Number/Name) DD2 / Joint Cyber Warfighting Architecture Software										
Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DCO - Tools Suite	<div>DCO - Tools Suite</div>																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 8	R-1 Program Element (Number/Name) PE 0608041A / Defensive CYBER - Software Prototype Development	Project (Number/Name) DD2 / Joint Cyber Warfighting Architecture Software

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DCO - Tools Suite	2	2023	4	2023