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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Army **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605047A / <i>Contract Writing System</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	16.379	22.025	22.960	-	22.960	-	-	-	-	-	-
FA7: <i>Contract Writing System</i>	-	16.379	22.025	22.960	-	22.960	-	-	-	-	-	-

**Note**

ACWS as a Business System follows Acquisition Framework as outlined in DoDI 5000.75. Decisions rendered by the Milestone Decision Authority (MDA), as outlined in DoDI 5000.75, are referred to as "Authority To Proceed" and replace DoDI 5000.02 "Milestones." ACWS official MDA delegation to Program Executive Office, Enterprise Information Systems was on 19 March 2018.

**A. Mission Description and Budget Item Justification**

The Army Contract Writing System (ACWS) will be the Army's single, next-generation, enterprise-wide contract writing, management, execution, and close-out software system. ACWS will facilitate the standardization of Army Procurement business processes and streamline the integration with Army Enterprise Resource Planning (ERP) systems. As a financial feeder system, ACWS will meet the full scope of Army contracting requirements, including those in secure and non-secure locations, those supporting combat or 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, other specialized contracting activities, and the Federal Financial Management Improvement Act of 1996. In November 2020, the MDA approved a Limited Deployment ATP for ACWS to deploy a Minimal Viable Solution (MVS) to the Humphrey's Engineer Center in November 2020. ACWS is on track to deploy an Initial Operating Capability (IOC) Q2FY2022. ACWS will deploy a full replacement capability by the end of FY 2023 to SPS users, allowing the Army to avoid the full SPS bill (\$14M+/ year) from OSD.

FY 2022 RDTE Funding will initiate the development of integration with the Logistics Modernization Program (LMP), to replace important contracting functions in PADDs to manage complex weapons procurements, and other key system interfaces and functionality. Business system interfaces will be developed with these key partners to complete system development. FY 2022 RDTE funding will be used for designing, developing and testing activities to release interim and objective functionality to support the National Guard and Secure contracting activities.

ACWS will also plan for and conduct one or more separate operational Pilots in parallel to ACWS development to review options for enhanced usability and functionality improvements

As a Section 873 Pilot Program, participates in the 873 Community of Practice (CoP), sharing and utilizing lessons learned, shaping agile policy, processes, and tools for DoD. The program will re- introduce Agile practices beginning in its sustainment task order, to be released in FY2021.

During FY 2020, ACWS coordinated with the Navy's eProcurement System (ePS) team to identify and implement efficiencies; the two teams will continue implementing those plans during FY 2021 and 2022, including using combined buying power for potential economies of scale for license purchases.

**UNCLASSIFIED**

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<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2020</u></b>	<b><u>FY 2021</u></b>	<b><u>FY 2022 Base</u></b>	<b><u>FY 2022 OCO</u></b>	<b><u>FY 2022 Total</u></b>
Previous President's Budget	17.082	22.860	18.363	-	18.363
Current President's Budget	16.379	22.025	22.960	-	22.960
Total Adjustments	-0.703	-0.835	4.597	-	4.597
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.703	-0.835			
• Adjustments to Budget Years	-	-	4.597	-	4.597

**Change Summary Explanation**

Fiscal Year 2022 (FY22) RDTE increase of \$4.597 million related to a change in schedule due to vendor performance and identification of complex requirements. This schedule rebaseline coupled with development of complex capabilities supporting the contracting community drove the increase in FY2022.

**UNCLASSIFIED**

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<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
FA7: <i>Contract Writing System</i>	-	16.379	22.025	22.960	-	22.960	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Army Contract Writing System (ACWS) will be the Army's single, next-generation, enterprise-wide contract writing, management, execution, and close-out software system. ACWS will facilitate the standardization of Army Procurement business processes and streamline the integration with Army Enterprise Resource Planning (ERP) systems. As a financial feeder system, ACWS will meet the full scope of Army contracting requirements, including those in secure and non-secure locations, those supporting combat or 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, other specialized contracting activities, and the Federal Financial Management Improvement Act of 1996. In November 2020, the MDA approved a Limited Deployment ATP for ACWS to deploy a Minimal Viable Solution (MVS) to the Humphrey's Engineer Center in November 2020. ACWS is on track to deploy an Initial Operating Capability (IOC) Q2FY2022. ACWS will deploy a full replacement capability by the end of FY 2023 to SPS users, allowing the Army to avoid the full SPS bill (\$14M+/ year) from OSD.

FY 2022 RDTE Funding will initiate the development of integration with the Logistics Modernization Program (LMP), to replace important contracting functions in PADD5 to manage complex weapons procurements, and other key system interfaces and functionality. Business system interfaces will be developed with these key partners to complete system development. FY 2022 RDTE funding will be used for designing, developing and testing activities to release interim and objective functionality to support the National Guard and Secure contracting activities.

ACWS will also plan for and conduct one or more separate operational Pilots in parallel to ACWS development to review options for enhanced usability and functionality improvements

As a Section 873 Pilot Program, participates in the 873 Community of Practice (CoP), sharing and utilizing lessons learned, shaping agile policy, processes, and tools for DoD. The program will re- introduce Agile practices beginning in its sustainment task order, to be released in FY2021.

During FY 2020, ACWS coordinated with the Navy's eProcurement System (ePS) team to identify and implement efficiencies; the two teams will continue implementing those plans during FY 2021 and 2022, including using combined buying power for potential economies of scale for license purchases.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Program Office	5.906	4.533	3.403
<b>Description:</b> These resources in the ACWS Program Management Office include Government, matrixed, and SETA contractor support for capability development, enterprise architecture, contract management, management analysis, capital/ financial planning, life cycle planning, risk management, schedule management, and facilities (for both Government and contractor staff).			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605047A / <i>Contract Writing System</i>	<b>Project (Number/Name)</b> FA7 / <i>Contract Writing System</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b><i>FY 2021 Plans:</i></b> Program management support in the ACWS Government Program Management Office includes Mitre, CECOM, DASA(P), and other contractor support for resource planning, capability development, life cycle planning, risk management, schedule management, and facilities.</p> <p><b><i>FY 2022 Plans:</i></b> Program management support in the ACWS Government Program Management Office includes contractor support, CECOM, DASA(P), and other contractor support for resource planning, capability development, life cycle planning, risk management, schedule management, and facilities.</p> <p><b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b> Year over year decreases reflect shifting cost out from under Program Office to the area of work it supports, including testing, product development, and security. ACWS program office costs have been realigned to more accurately reflect the types of work being performed in each area. Program office includes SETA and matrixed resources to support functions around scheduling, financial management, program documentation, and quality control.</p>			
<p><b><i>Title:</i></b> Product Development</p> <p><b><i>Description:</i></b> Product development is responsible for design and development of ACWS. This cross-functional team of Government and contractor staff analyze and design the Minimum Viable Solution, Initial Operational Capability, and Full Deployment requirements to efficiently ensure completeness in satisfying system requirements. Hosting infrastructure (using Infrastructure as a Service [IaaS]) and managed services are also included as a requirement of the ACWS product.</p> <p><b><i>FY 2021 Plans:</i></b> Activities going on in FY2021 include continued testing and issue resolution of ACWS Initial Operational Capability (IOC) software; which upgrades the Minimum Viable Solution (MVS) software by including capability to interface with the General Fund Enterprise Business System (GFEBS), incorporates construction contracting functionality, and delivers 80% of the overall ACWS requirements; conducting Army Test and Evaluation Command (ATEC) System Qualification Testing (SQT); and deploying the ACWS IOC software to three locations. ACWS IOC functionality allows for the replacement of the Standard Procurement System (SPS) at all Army locations outside of secure and National Guard/Joint Base activities</p> <p><b><i>FY 2022 Plans:</i></b> Product and software development activities include adding complex weapons system procurement functionality, foreign military sales, integration with the Logistics Modernization Program (LMP), Grants Officer management functionality, and functionality necessary to deploy to National Guard/Joint Base activities. This allows for the replacement of the Procurement Automated Data and Document System (PADDS). Deployment planning for the replacement of PADDS also occurs in FY22.</p> <p><b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b></p>	7.061	15.821	13.440

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p>ACWS product development costs have been realigned to more accurately reflect the types of work being performed in each area. Product development costs decrease in FY22 completes IOC and transitions to focus on development of full operating capability. Cyber security support and testing activities have been shifted to those sections driving the decrease. Development priorities have been delayed due to schedule slips due to requirement complexity being underestimation by the vendor. The program recently rebaselined its schedule to more accurately reflect the complexity of requirements to support the Army's contracting community.</p> <p><b>Title:</b> Security</p> <p><b>Description:</b> Security related costs all include Information Assurance (IA)/ Risk Management Framework (RMF) activities, and cyber security support for the Cloud Solution Provider's government approved hosting environment complementing the Interim Authorization to Test (IATT) and Authority to Operate (ATO) controls.</p> <p><b>FY 2021 Plans:</b> System integrator costs to support cybersecurity vulnerability scanning, system hardening, Risk Management Framework costs, and audit readiness. The Secure Activities capability will require a separate Authority to Operate (ATO) and additional work to update existing documentation for PADDs Replacement interfaces. There will also be extensive work to meet audit requirements in FY 2021.</p> <p><b>FY 2022 Plans:</b> System integrator costs to support cybersecurity vulnerability scanning, system hardening, Risk Management Framework costs, and audit readiness. The Secure Activities capability will require a separate Authority to Operate (ATO) and additional work to update existing documentation for Full Deployment interfaces. There will also be extensive work to meet audit requirements in FY 2022.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> ACWS cyber security costs were previously shown under product development. These costs have been realigned to more accurately reflect the types of work being performed in each area. Security resources will focus on supporting ATO compliance and cyber testing requirements during FY2022.</p>		1.206	0.753	2.490
<p><b>Title:</b> Test &amp; Evaluation</p> <p><b>Description:</b> Costs associated with The test and evaluation function to validate and inspect capability requirements ensuring they are satisfactorily addressed through design analysis and development of test scripts. The Army Test and Evaluation Command (ATEC) and Joint Interoperability Test Command (JITC) will support ACWS as testers of the system.</p> <p><b>FY 2021 Plans:</b></p>		2.206	0.918	3.627

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Army Test and Evaluation Command (ATEC) and Joint Interoperability Test Command (JITC) testing for ACWS Full Deployment release.			
<b><i>FY 2022 Plans:</i></b> Operational Evaluation(OE) led by ATEC to assess functionality meets user needs following capability increments.			
<b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b> ACWS test and evaluation costs have been realigned to more accurately reflect the types of work being performed in this area. These resources were previously shown under product development. Test & Evaluation resources will be focused on completing testing in advance of the full operating capability release.			
<b>Accomplishments/Planned Programs Subtotals</b>	16.379	22.025	22.960

**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• B66001: <i>Contract Writing System</i>	6.000	2.459	16.957	-	16.957	-	-	-	-	-	-
• OMA - ERPB / 423612000 / 5T0: <i>ACWS Sustainment OMA</i>	-	7.338	12.826	-	12.826	-	-	-	-	-	-

**Remarks**

FY 2022 base procurement funds in the amount of \$11.848 million to procure requisite ACWS software licenses for IOC deployment and fielding as the solution will ultimately support 10,000 Army users across the world. OPA funds of \$4.225 million support deployment activities including training and deployment teams for the IOC release which will be deployed in second quarter FY2022 and run throughout FY2023. Funding also supports system fielding activities including training, deployment, and Organization Change Management (Soldier Touchpoints). FY2022 OPA funds of \$0.884 million will also support the PADDs replacement/ LMP integration deployment.

FY 2022 OMA funding will be used for sustainment of sites that have already been deployed in FY 2021 and FY 2022, license maintenance, hosting, sustainment, and service desk activities.

**D. Acquisition Strategy**

Through full and open competition, ACWS awarded a Single Award ID/IQ contract with a 10-year ordering period to CGI Federal Inc. on 22 May 2017. Task Order 0001 of this contract conducted risk reduction activities concurrent with development of regulatory and statutory documentation requirements. These activities were conducted for the purpose of meeting the OSD goals to sunset Standard Procurement System (SPS) in FY 2023. Risk reduction activities include Business Process Reengineering, Global Analysis, Blueprinting, Role Design, and Interface Definition. Following risk reduction, ACWS baselined the program at the IOC Authorization to Proceed (ATP), and developed initial software release interfaces (part of the Minimum Viable Solution release). Task Order 0002 was issued in August 2018 for the design, development, and testing of the Minimum Viable Solution and Initial Operational Capability releases. Task Order 0002 has been extended into FY22 to support

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>	<b>Project (Number/Name)</b>
2040 / 5	PE 0605047A / <i>Contract Writing System</i>	FA7 / <i>Contract Writing System</i>

the deployment of IOC. In FY22, ACWS plans to issue a new task order that will extend through FY23 to begin Full Deployment design, development and test, including functionality required to decommission PADDs (LMP Integration), onboard National Guard users (DEAMS integration), and business intelligence capabilities. Future plans starting in FY24 will include the activities associated with the development, testing, and accreditation of the secure contracting and disconnected contracting capabilities.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605047A / <i>Contract Writing System</i>	<b>Project (Number/Name)</b> FA7 / <i>Contract Writing System</i>
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<b>Management Services (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Office	Various	PdM ACWS : Arlington, VA	21.025	5.906	Oct 2019	4.533	Oct 2020	3.403	Oct 2021	-		3.403	0.000	34.867	-
<b>Subtotal</b>			21.025	5.906		4.533		3.403		-		3.403	0.000	34.867	N/A

**Remarks**  
FY2022 projected costs include PMO contractor support labor, and HW/SW tools expenses.

<b>Product Development (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Product Development	Option/ Various	CGI Federal : Arlington, VA	54.544	7.061	Oct 2019	15.821	Oct 2020	13.440	Oct 2021	-		13.440	0.000	90.866	-
<b>Subtotal</b>			54.544	7.061		15.821		13.440		-		13.440	0.000	90.866	N/A

**Remarks**  
FY2022 projected costs include the development of the LMP integration required for PADDs replacement. This funding also includes changes to support hosting infrastructure to support the increased user base (using Infrastructure as a Service [IaaS]) and managed services are also included as a requirement on the ACWS Product Development System Integrator contract with CGI Federal and efforts to satisfy secure contracting requirements.

<b>Support (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Security	Option/ Various	CGI Federal & PdM ACWS : ARL C SSP in AWS GovCloud West	3.007	1.206	Oct 2019	0.753	Oct 2020	2.490	Oct 2021	-		2.490	0.000	7.456	-
<b>Subtotal</b>			3.007	1.206		0.753		2.490		-		2.490	0.000	7.456	N/A

**Remarks**  
FY2022 projected costs include Information Assurance (IA)/ Risk Management Framework (RMF) activities, and required services from a Cyber Security Support Provider (Army Research Lab) for the Cloud Solution Provider's government approved hosting environment. These costs also include cyber security support from the system integrator to support ATO compliance.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army** **Date:** May 2021

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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test and Evaluation	MIPR	ATEC & JTIC & CGI : TBD	1.207	2.206	Oct 2019	0.918	Oct 2020	3.627	Oct 2021	-		3.627	0.000	7.958	-
<b>Subtotal</b>			1.207	2.206		0.918		3.627		-		3.627	0.000	7.958	N/A

**Remarks**  
 FY2022 projected costs include integrated testing activities with the Army Test and Evaluation Command (ATEC) and the Joint Interoperability Test Command (JITC) to complete the IOC release and begin testing of the LMP integration. These costs also include costs from the system integrator to complete testing of the product.

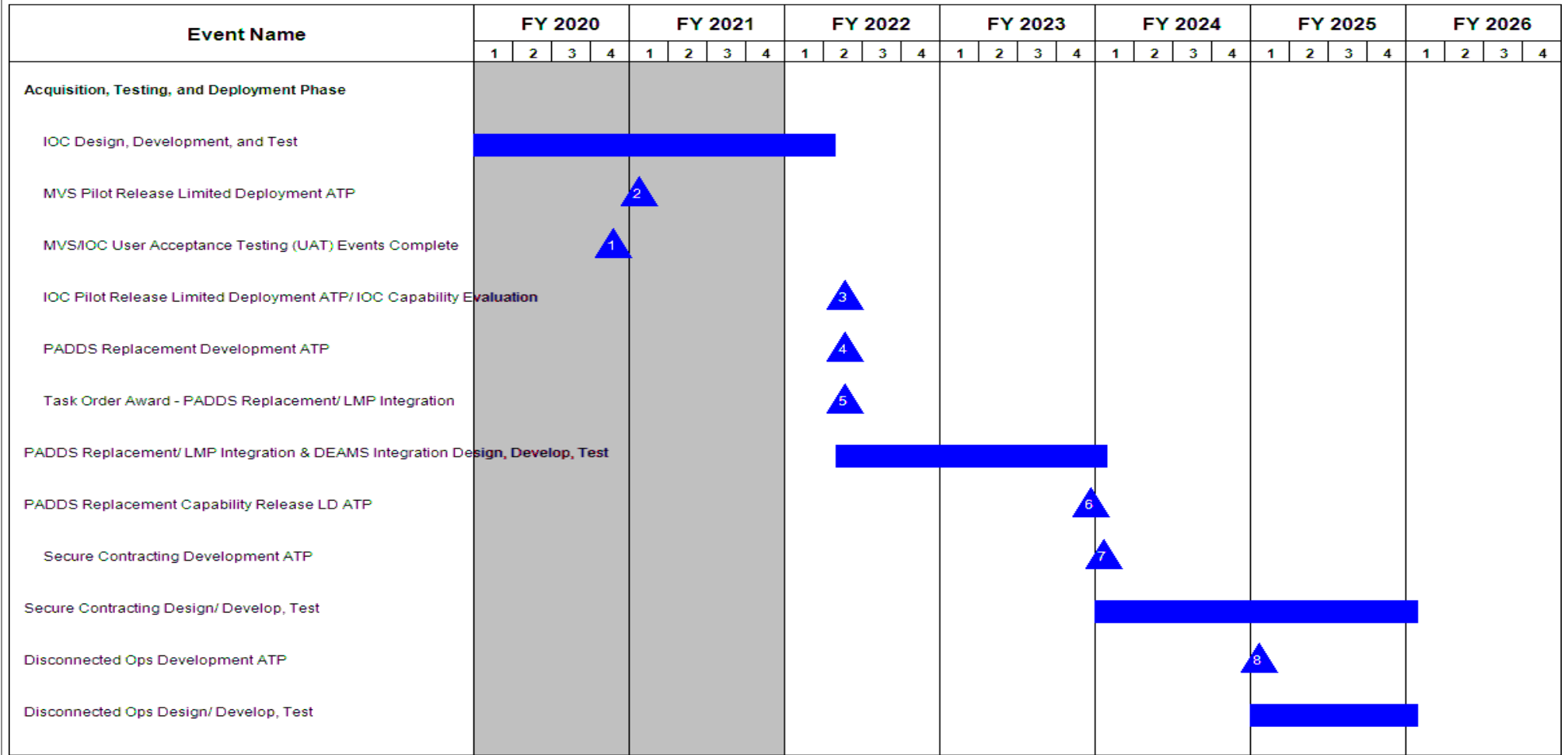
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	79.783	16.379	22.025	22.960	-	22.960	0.000	141.147	N/A

**Remarks**

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605047A / <i>Contract Writing System</i>	<b>Project (Number/Name)</b> FA7 / <i>Contract Writing System</i>
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**UNCLASSIFIED**

**Exhibit R-4A, RDT&E Schedule Details:** PB 2022 Army **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605047A / <i>Contract Writing System</i>	<b>Project (Number/Name)</b> FA7 / <i>Contract Writing System</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
RFP Release ADM (Material Solution Analysis Phase)	3	2016	3	2016
ATP-1 (MS A) / Contract Award - Task Order 0001	3	2017	3	2017
Risk Reduction Activities	3	2017	4	2018
Acquisition, Testing, and Deployment Phase	3	2016	3	2023
IOC Design, Development, and Test	4	2018	2	2022
Baseline ATP / Contract Award - MVS/IOC Release Task Order	4	2018	4	2018
MVS Pilot Release Limited Deployment ATP	1	2021	1	2021
MVS/IOC User Acceptance Testing (UAT) Events Complete	4	2020	4	2020
IOC Pilot Release Limited Deployment ATP/ IOC Capability Evaluation	2	2022	2	2022
PADDS Replacement Development ATP	2	2022	2	2022
Task Order Award - PADDS Replacement/ LMP Integration	2	2022	2	2022
PADDS Replacement/ LMP Integration & DEAMS Integration Design, Develop, Test	2	2022	1	2024
PADDS Replacement Capability Release LD ATP	4	2023	4	2023
Secure Contracting Development ATP	1	2024	1	2024
Secure Contracting Design/ Develop, Test	1	2024	1	2026
Disconnected Ops Development ATP	1	2025	1	2025
Disconnected Ops Design/ Develop, Test	1	2025	1	2026
Secure Contracting & Disconnected Ops Capability Release LD ATP	4	2025	4	2025
Capability Support ATP	2	2026	2	2026
Fielding and Deployment	2	2021	4	2025
IOC Deployment	2	2022	4	2023
PADDS Replacement	1	2024	4	2025
Secure/ Disconnected State Capability Deployment	1	2026	3	2026

**UNCLASSIFIED**

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Events	Start		End	
	Quarter	Year	Quarter	Year
Full Operational Capability	3	2026	3	2026
System Sustainment	2	2022	4	2026
System Sustainment Task Order	2	2022	4	2026