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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>
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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	-	21.775	13.082	2.566	-	2.566	2.601	2.637	2.674	2.674	0.000	48.009
083: <i>Global Combat Support Sys - Army</i>	-	21.775	13.082	2.566	-	2.566	2.601	2.637	2.674	2.674	0.000	48.009

A. Mission Description and Budget Item Justification

GCSS-Army gives combat forces a decisive edge by providing soldiers a seamless flow of timely, accurate, accessible, and secure logistics information to get combat power at the right place, at the right time. The GCSS-Army program is an information and communications technology investment that provides key enabling support to the transformation of the Army into a network-centric, knowledge-based future force. The GCSS-Army approved Capability Development Document (CDD) and Capability Production Document (CPD) require an enterprise approach to replace current logistics and maintenance Standard Army Management Information Systems (STAMIS) to include supply, maintenance, ammunition, aviation, and property book. GCSS-Army implements best business practices to streamline supply, accountability, maintenance, distribution, and reporting procedures in support of the future force transition path of The Army Campaign Plan.

GCSS-Army must take critical steps towards integration and implementation of the next generation of Enterprise Business Systems capabilities. This effort will address the obsolescence of existing SAP Enterprise Resource Planning (ERP) logistics and financial management platforms. GCSS-Army's modernization work sets the conditions for development of a converged, post-modern Defense Business System that streamlines and integrates the Army's core business functions.

GCSS-Army must identify redundant processes as candidates for business process re-engineering. Funding will support the 1) market research of Industry best practices, 2) Initiation of an Army Enterprise Development Environment to enable prototyping which reduces risk by aiding the requirements development. This environment includes: Cloud-hosted infrastructure, applications, and programs and tools, 3) government Program Management and Systems Engineering and Technical Assistance (SETA) contractors needed to plan for and manage the initiation of the post-modern system implementation effort.

The funds in the GCSS-Army Research Development Test & Evaluation (RDT&E) line are for building the software solution for disconnected supply, ground maintenance and accountability, and Store and Forward Capability.

Enterprise Resource Plan (ERP) modernization supported EBS-C in FY 2023 before full transition of efforts to EBS-C in FY 2024.

GCSS-Army Project EK2 (Aviation logistics) completed in FY 2023. The Aviation sustainment effort has been rolled into the GCSS-Army Capability Support using mostly OMA.

In FY 2024 after transition to capability support, RDT&E funding for Continuous Enhancements will be used to execute system change requests (SCRs) to enhance sustainment activities, accountability, auditability, and calculations of total cost of ownership. Implementation of SCRs enhance capability support and effectiveness by synchronizing system data and utilizing enterprise interface tools to eliminate input errors.

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FY 2025 Base dollars in the amount of \$2.566 million will continue to support GCSS-Army Audit related fixes and Cyber updates. Other planned FY 2025 enhancements include: G-Invoicing, Enhancement Pack 8, and follow-on Identity, Credential, and Access Management (ICAM) to include privilege user access management and zero trust. The FY 2025 RDT&E funds will also be used to complete the software solution for disconnected supply, ground maintenance and accountability, and Store and Forward Capability.

GCSS-Army Enterprise Aviation is integrating the Aircraft Notebook (ACN) data into GCSS-Army via an interface with the Enterprise Aviation Middleware components.

Advanced Manufacturing (AdvM) Data Repository (DR) is an Army priority. AdvM DR will fully integrate AdvM capabilities and enable Digital Thread (DT) within the Army ERPs. It will integrate the AdvM DR with the Army Futures Command (AFC) Enterprise Product Management (ePDM) system providing a fully automated capability for the transfer of the AdvM product configuration data to the AdvM DR. Capability will reduce manual efforts to transfer configuration data to the AdvM DR ensuring accuracy and maintaining configuration of AdvM print data.

B. Program Change Summary (\$ in Millions)	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	22.600	13.082	2.561	-	2.561
Current President's Budget	21.775	13.082	2.566	-	2.566
Total Adjustments	-0.825	0.000	0.005	-	0.005
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.825	-			
• Adjustments to Budget Years	-	-	0.005	-	0.005

Change Summary Explanation

Increased funding due to revised economic assumptions.

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>				Project (Number/Name) 083 / <i>Global Combat Support Sys - Army</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
083: <i>Global Combat Support Sys - Army</i>	-	21.775	13.082	2.566	-	2.566	2.601	2.637	2.674	2.674	0.000	48.009
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

GCSS-Army provides critical Army sustainment support to the soldier with a seamless flow of timely, accurate, accessible, and secure information management that gives combat forces a decisive edge and is essential for combat readiness. The GCSS-Army approved Capability Development Document (CDD) and Capability Production Document (CPD) require an enterprise approach to replace current logistics and maintenance Standard Army Management Information Systems (STAMIS) to include supply, maintenance, ammunition and property book. GCSS-Army implements best business practices to streamline supply, accountability, maintenance, distribution, and reporting procedures in support of the future force transition path of The Army Campaign Plan. GCSS-Army is financially compliant and is a key component for the Army Enterprise Strategy to be financially auditable.

FY 2023 RDT&E funds for ERP Modernization supported EBS-C efforts until the efforts transition to EBS-C program in FY 2024.

The FY 2024 funds in the GCSS-Army Research Development Test & Evaluation (RDT&E) line are for building the software solution for disconnected supply, maintenance and accountability, and Store and Forward capability. The Army requires a disconnected operations architecture for GCSS-Army to support ground mission. Currently the Army has battlefield gaps without network connectivity: inability to maintain or regenerate combat power, order/process spare parts, track battle losses, or conduct maintenance. The disconnected operations architecture will alleviate these problems when there are disruptions in communications or cyber-attacks. The FY 2024 funding also supports critical change requests in each fiscal year, coming from the warfighter and prioritized by the Combat Developer, for the baseline system. Implementation of SCRs enhance capability support and effectiveness by synchronizing system data and utilizing enterprise interface tools to eliminate input errors.

Also in FY 2024, RDT&E funds will support Advanced Manufacturing (AdvM) Data Repository (DR). AdvM DR will fully integrate AdvM capabilities and enable the Digital Thread (DT) within the Army ERPs. It will integrate the AdvM DR with the Army Futures Command (AFC) Enterprise Product Management (ePDM) system providing a fully automated capability for the transfer of AdvM product configuration data to the AdvM DR. Capability will reduce manual efforts to transfer configuration data to the AdvM DR ensuring accuracy and maintaining configuration control of AdvM print data.

FY 2025 Base dollars in the amount of \$2.566 million will continue to support GCSS-Army Audit related fixes and Cyber updates. Other enhancements include: G-Invoicing, Enhancement Pack 8, and follow-on ICAM to include privilege user access management and zero trust. The FY 2025 RDT&E funds will also be used to complete the software solution for disconnected supply, ground maintenance and accountability, and Store and Forward Capability.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: Product Development	-	7.800	0.853

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: The funds in the GCSS-Army RDT&E line are for building the software solution for disconnected supply, ground maintenance and accountability, and Store and Forward capability. The Army requires a disconnected operations architecture for GCSS-Army to support ground mission. The FY 2024 funding continues the development of the software solution for disconnected supply, ground maintenance and accountability.</p> <p>FY 2024 Plans: The FY 2024 RDT&E funds are for building the software solution for disconnected supply, maintenance and accountability, and Store and Forward capability. The Army requires a disconnected operations architecture for GCSS-Army to support ground mission.</p> <p>FY 2025 Plans: The FY 2025 funding completes the development of the software solution for disconnected supply, ground maintenance and accountability.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: RDT&E funding decreases by \$6.947 million from FY 2024 to FY 2025 due to completing the majority of Disconnected Operations test and product development in FY 2024.</p>			
<p>Title: Product Development and Modernization</p> <p>Description: RDT&E funding in FY 2023 to support ERP Modernization focused on risk reduction, market research, analysis and prototype(s) demonstrating key Audit, Finance and Logistics capabilities, application and technical architecture to support the next phases of the ERP modernization. In support of this, government Program Management and Systems Engineering and Technical Assistance (SETA) contractors were used to plan for and manage the initiation of the ERP systems implementation effort. Work to develop a cloud prototype(s) environment(s) was performed to support the development of modernized finance and logistics capabilities in compliance with Impact Level 4 (IL4) and Impact Level 6 (IL6) requirements. In addition, significant and continuous Business Process Re-engineering was performed to end processes based on commercial off the shelf software best practices to support limited to no customization approach and produce a solution that is commercial as possible and military as necessary.</p>	8.829	-	-
<p>Title: ERP Modernization Program Management Support</p> <p>Description: RDT&E funding in FY 2023 to support ERP Modernization focused on risk reduction, market research, provide analysis and prototype(s) demonstrating key Audit, Finance and Logistics capabilities, application and technical architecture to support the next phases of the ERP modernization. In support of this, government Program Management and Systems Engineering and Technical Assistance (SETA) contractors were needed to plan for and manage the initiation of the ERP systems implementation effort. A cloud prototype(s) environment(s) was established to support the development of modernized finance and logistics capabilities in compliance with Impact Level 4 (IL4) and Impact Level 6 (IL6) requirements. In addition, significant and</p>	8.570	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
continuous Business Process Re-engineering was performed to develop end to end processes based on commercial off the shelf software best practices to support limited to no customization approach and produce a solution that is commercial as possible and military as necessary.				
<p>Title: Cloud Support Development</p> <p>Description: RDT&E funding in FY 2023 to support ERP Modernization focused on risk reduction, market research, provide analysis and prototype(s) demonstrating key Audit, Finance and Logistics capabilities, application and technical architecture to support the next phases of the ERP modernization. In support of this, government Program Management and Systems Engineering and Technical Assistance (SETA) contractors were used to plan for and manage the initiation of the ERP systems implementation effort. A cloud prototype(s) environment(s) was being established to support the development of modernized finance and logistics capabilities in compliance with Impact Level 4 (IL4) and Impact Level 6 (IL6) requirements. In addition, significant and continuous Business Process Re-engineering was required to develop end to end processes based on commercial off the shelf software best practices to support limited to no customization approach and produce a solution that is commercial as possible and military as necessary.</p>		4.376	-	-
<p>Title: Advanced Manufacturing Data Repository</p> <p>Description: Advanced Manufacturing (AdvM) Data Repository (DR) is an Army priority. AdvM DR will fully integrate AdvM capabilities and enable the Digital Thread (DT) within the Army ERPs. It will integrate the AdvM DR with the Army Futures Command (AFC) Enterprise Product Management (ePDM) system providing a fully automated capability for the transfer of AdvM product configuration data to the AdvM DR. Capability will reduce manual efforts to transfer configuration data to the AdvM DR ensuring accuracy and maintaining configuration control of AdvM print data.</p> <p>FY 2024 Plans: Planned accomplishments FY 2024: Commence work developing integration with the Army Futures Command (AFC) Enterprise Product Data Management (ePDM) system eliminating manual processes and ensuring configuration control of print data.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: No funding in FY 2025 due to integration effort complete by end of FY 2024.</p>		-	3.610	-
<p>Title: Continuous Enhancements</p> <p>Description: The funds in the GCSS-Army RDT&E line are for continuous enhancements. In capability support phase, the RDT&E funding will be used to execute system change requests to enhance sustainment activities, accountability, auditability, and calculations of total cost of ownership.</p>		-	1.672	1.713

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> The funds will support GCSS-A Audit related fixes and Cyber updates as required. The remaining balance of funds are for critical change requests, coming from the Combat Developer and prioritized by the HQDA G4 and USA CASCOM.</p> <p><i>FY 2025 Plans:</i> The funds will continue to support GCSS-Army Audit related fixes and Cyber updates. Other enhancements include: G-Invoicing, Enhancement Pack 8, and follow-on ICAM to include privilege user access management and zero trust.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding increase in FY 2025 due to economic adjustments.</p>			
Accomplishments/Planned Programs Subtotals	21.775	13.082	2.566

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
• W11011: <i>GCSS-Army Increment 2</i>	4.102	1.987	4.103	-	4.103	-	-	-	-	0.000	10.192
• OMA - GCSS-ARMY APE	50.582	70.095	52.119	-	52.119	55.801	61.759	61.569	62.068	0.000	413.993
432612000: <i>GCSS-ARMY OMA</i>											

Remarks

D. Acquisition Strategy
GCSS-Army will design and develop the software solution for disconnected ground operations . The program will design and build user screens for disconnected supply, ground maintenance, and accountability. The Army will use a disconnected operations architecture for GCSS-Army to support the ground missions. In FY 2021, the program office awarded the initial contract supporting disconnected prototyping. In FY 2023 and FY 2024, the program will complete the OTA and prepare for production decision.

FY 2025 will include continuous enhancements to support GCSS-Army Audit related fixes and Cyber updates as well as G-Invoicing, Enhancement Pack 8, and follow-on ICAM to include privilege user access management and zero trust. The FY 2025 RDT&E funds will also be used to complete the software solution for disconnected supply, ground maintenance and accountability, and Store and Forward Capability.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / Global Combat Support System	Project (Number/Name) 083 / Global Combat Support Sys - Army
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Enterprise Resource Planning (ERP) design and development	C/Various	Accenture Federal LLC : Arlington, VA 22203	467.058	-		1.672	Dec 2023	1.713	Dec 2024	-		1.713	0.000	470.443	457.056
Disconnected Operations Solution	SS/TBD	Ernst & Young : Arlington VA	35.271	-		7.800	Jan 2024	0.853	Jan 2025	-		0.853	0.000	43.924	-
ERP Modernization SW Development	Option/Various	Various : Various	-	8.829	Aug 2023	-		-		-		-	0.000	8.829	-
ERP Modernization Cloud Support Development	Option/Various	Various : Various	-	4.376	Aug 2023	-		-		-		-	0.000	4.376	-
Advanced Manufacturing Data Repository	C/CPFF	Accenture : Springfield VA	-	-		3.610	Dec 2023	-		-		-	0.000	3.610	-
Subtotal			502.329	13.205		13.082		2.566		-		2.566	0.000	531.182	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
ERP Modernization Program Management	C/T&M	Logistics Management Institute : Tysons VA	-	8.570	Aug 2023	-		-		-		-	0.000	8.570	-
Subtotal			-	8.570		-		-		-		-	0.000	8.570	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		502.329	21.775	13.082	2.566	-	2.566	0.000	539.752	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
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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
Continuous Enhancements (Design and Development)	[Blue bar spanning all quarters from FY 2023 to FY 2029]																											
Disconnected Operations Solution (Test and Development)	[Blue bar spanning Q1-Q4 FY 2023, Q1-Q2 FY 2024]																											
Disconnected Operations Solution (Deployment)	[Blue bar spanning Q3-Q4 FY 2025]																											
Disconnected Operations Solution Full Deployment	[Blue triangle with '3' pointing up at Q3 FY 2026]																											
ERP Modernization Prototype Award 1	[Blue triangle with '1' pointing up at Q1 FY 2023]																											
ERP Modernization Capability Build 1	[Blue bar spanning Q2-Q3 FY 2023]																											
ERP Modernization transition to EBS-C	[Blue triangle with '2' pointing up at Q3 FY 2023]																											
Advanced Manufacturing Data Repository	[Blue bar spanning Q1-Q4 FY 2024]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Seg 2 Contract Award	1	2008	1	2008
Increment 1 - Acquisition Review	2	2008	2	2008
Increment 1/Segment 1 Operational Assessment	1	2008	3	2010
Increment 1 - Milestone B	4	2008	4	2008
Increment 1/Release 1.1 DTOE	3	2010	4	2010
GCSS-Army Release 1.1 Design, Build, Test & Stabilize	1	2011	3	2011
Increment 1 - Milestone C	4	2011	4	2011
Release 1.1 Initial Operational Test and Evaluation (IOT&E)	1	2012	1	2012
Release 1.1 Stabilization	2	2011	1	2013
Lead Site Verification	1	2013	1	2013
Release 1.1 Full Deployment Decision	1	2013	1	2013
Field Wave 1	1	2013	1	2016
GCSS-Army Release 1.2 (Wave 2) Plan, Analyze, Design, Build & Test	3	2011	4	2015
Release 1.2 (Wave 2) Lead Site Verification Test	3	2015	3	2015
Release 1.2 (Wave 2) In Progress Review	4	2015	4	2015
Field Release 1.2 (Wave 2)	1	2015	1	2018
Continuous Enhancements (Design and Development)	1	2018	4	2029
Disconnected Operations Solution (Test and Development)	1	2021	1	2025
Disconnected Operations Solution (Deployment)	2	2025	4	2025
Disconnected Operations Solution Full Deployment	1	2026	1	2026
ERP Modernization Functional Requirements ATP	4	2021	4	2021
ERP Modernization Risk Reduction Acquisition Decision Memorandum	1	2022	1	2022

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
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Events	Start		End	
	Quarter	Year	Quarter	Year
ERP Modernization Other Transaction Authority Start	3	2022	3	2022
ERP Modernization Prototype Award 1	1	2023	1	2023
ERP Modernization Capability Build 1	1	2023	4	2023
ERP Modernization transition to EBS-C	4	2023	4	2023
Advanced Manufacturing Data Repository	1	2024	4	2024