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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2020 Army **Date:** March 2019

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / <i>WWMCCS/Global Command and Control System</i>
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COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	10.055	2.031	2.073	-	2.073	2.110	2.157	2.198	0.000	Continuing	Continuing
C86: <i>Army Global C2 System</i>	-	5.786	2.031	2.073	-	2.073	2.110	2.157	2.198	0.000	Continuing	Continuing
EA5: <i>Strategic and Joint Mission Command</i>	-	4.269	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.269

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

All Fiscal Year 2020 base funding will support Defense Readiness Reporting capabilities. The Defense Readiness Reporting System-Army (DRRS-A) is the Army's Authoritative Readiness Reporting System. This information technology system provides unit readiness reporting, unit registration and force planning and projection activities to enable Title 10 reporting to Congress. Specifically this funding will provide additional system enhancements and testing to support emerging developmental requirements to satisfy the Army's and Joint readiness reporting capabilities along with ensuring interoperability of Army and Joint Systems. DRRS-A is the Army's critical enabler which directly enables the Quarterly Readiness report to Congress.

Global Command and Control System-Army (GCCS-A): This project is the Army component of the Global Command and Control System (GCCS) Family of Systems (FoS). GCCS-A will transition into sustainment in FY 2019.

Army Joint and Strategic Command and Control (AJaSC2) is a modernization development effort for the Army's joint and strategic C2 capabilities. AJaSC2 provides the materiel solution in response to the Army Mission Command for Unified Action Capability Definition Package (AMCUA CDP). AJaSC2 enables Army operational headquarters to integrate with the Joint Force Commands and Unified Action Partners (UAP). AJaSC2 provides Army leaders: Joint Common Operating Picture (COP); Adaptive planning and execution capabilities for distributed, synchronous and asynchronous collaboration services to develop, revise, and execute their warfighting plans supported by theaterwide analytics; strategic Situational Awareness (SA) to coalition operations and other mission partners and Coordination and synchronization of Joint Execution Mission Management.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2020 Army	<b>Date:</b> March 2019
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<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / <i>WWMCCS/Global Command and Control System</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>
Previous President's Budget	10.475	2.034	2.073	-	2.073
Current President's Budget	10.055	2.031	2.073	-	2.073
Total Adjustments	-0.420	-0.003	0.000	-	0.000
• Congressional General Reductions	-0.009	-0.003			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.411	-			

**Change Summary Explanation**

FY 2020 base funding will support DRRS-A, the Army's capability for unit readiness reporting, unit registration and force planning and projection activities that enable Title 10 reporting to Congress. Specifically the funding will provide program oversight, technical development, testing and training support to enable the readiness and force projection capabilities.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Army										<b>Date:</b> March 2019		
<b>Appropriation/Budget Activity</b> 2040 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0303150A / WWMCCS/Global Command and Control System				<b>Project (Number/Name)</b> C86 / Army Global C2 System			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
C86: Army Global C2 System	-	5.786	2.031	2.073	-	2.073	2.110	2.157	2.198	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

All Fiscal Year 2020 base funding will support Defense Readiness Reporting capabilities. The Defense Readiness Reporting System-Army (DRRS-A) is the Army's Authoritative Readiness Reporting System. This information technology system provides unit readiness reporting, unit registration and force planning and projection activities to enable Title 10 reporting to Congress. Specifically this funding will provide additional system enhancements and testing to support emerging developmental requirements to satisfy the Army's and Joint readiness reporting capabilities along with ensuring interoperability of Army and Joint Systems. DRRS-A is the Army's critical enabler which directly enables the Quarterly Readiness report to Congress.

Global Command and Control System-Army (GCCS-A): This project is the Army component of the Global Command and Control System (GCCS) Family of Systems (FoS). GCCS-A will transition into sustainment in FY 2019.

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Program Support and Management (GCCS-A)	0.150	-	-
<b>Description:</b> Program management includes overall management of program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning meetings and IPTs			
<b>Title:</b> Program Support and Management for Readiness Capabilities (GCCS-A)	0.153	-	-
<b>Description:</b> Provides program management and acquisition oversight functions to enable the Army's readiness capabilities.			
<b>Title:</b> Defense Readiness Reporting System (DRRS-A) - Software Enhancements (Design/Develop)	4.616	1.658	1.037
<b>Description:</b> Support to design, develop, and deploy emerging requirements into the Army's authoritative readiness reporting system to include. Software enhancements to support evolving DoD and Army readiness policies, processes, technical standards and new interace and interoperability requirements needed to share Army authoritative readiness data with Joint and Army data sharing partners.			
<b>FY 2019 Plans:</b> Continue software enhancements for the Army's authoritative readiness reporting system.			
<b>FY 2020 Plans:</b> Will continue support to design, develop, and deploy emerging requirements into the Army's authoritative readiness reporting system to include: Software enhancements to support evolving DoD and Army readiness policies, processes, technical standards			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Army		<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / WWMCCS/Global Command and Control System	<b>Project (Number/Name)</b> C86 / Army Global C2 System

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
and new interface and interoperability requirements needed to share Army authoritative readiness data with Joint and Army data sharing partners. <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Decrease due to cost savings.			
<b>Title:</b> Defense Readiness Reporting Sytem (DRRS-A) - Test and Integration <b>Description:</b> Support for developmental and interoperability testing required for the Army's authoritative readiness reporting system. <b>FY 2019 Plans:</b> Continue developmental and interoperability testing. <b>FY 2020 Plans:</b> Will continue developmental and interoperability testing. <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Increase attributable to inflation	0.867	0.308	1.036
<b>Title:</b> FY 2019 SBIR / STTR Transfer <b>Description:</b> FY 2019 SBIR / STTR Transfer <b>FY 2019 Plans:</b> FY 2019 SBIR / STTR Transfer <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> FY 2019 SBIR / STTR Transfer	-	0.065	-
<b>Accomplishments/Planned Programs Subtotals</b>	5.786	2.031	2.073

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BA8250: Army Global Cmd & Control Sys (AGCCS)	2.658	-	0.000	-	0.000	-	-	-	-	0.000	2.658

**Remarks**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Army		<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / <i>WWMCCS/Global Command and Control System</i>	<b>Project (Number/Name)</b> C86 / <i>Army Global C2 System</i>

**D. Acquisition Strategy**

The Readiness Reporting development effort in FY 2020 is accomplished through a Cost Plus Fixed Fee contract with Sotera Defense Solutions Inc. and testing is managed at the Army Software Engineering Center at Aberdeen Proving Grounds, Maryland. This project will continue to satisfy readiness reporting requirements from Army Readiness Division (DAMO-ODR). The acquisition approach consists of a support agreement with CECOM LCMC SEC as the prime software developer utilizing a mix of government and contractor support.

**E. Performance Metrics**

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Army												Date: March 2019			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
2040 / 7				PE 0303150A / WWMCCS/Global Command and Control System					C86 / Army Global C2 System						
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Program Office Management (GCCS-A)	Various	Various : Various Locations	15.938	0.150		-		-		-		-	0.000	16.088	Continuing
<b>Subtotal</b>			15.938	0.150		-		-		-		-	0.000	16.088	N/A
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Defense Readiness Reporting System-Army Software Development	Option/CPFF	Software Engineering Center : APG, MD	10.217	4.603	Sep 2018	1.658	Mar 2019	1.037	Mar 2020	-		1.037	0.000	17.515	Continuing
GCCS-A/DRRS-A Bridge Effort Software Development (GCCS-A)	MIPR	Software Engineering Center : APG, MD	17.845	-		-		-		-		-	0.000	17.845	4.893
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	-	-		0.065		-		-		-	0.000	0.065	-
<b>Subtotal</b>			28.062	4.603		1.723		1.037		-		1.037	0.000	35.425	N/A
Support (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Support Contractors (GCSS-A)	C/FP	Various : Various	17.333	0.166		-		-		-		-	0.000	17.499	17.333
<b>Subtotal</b>			17.333	0.166		-		-		-		-	0.000	17.499	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2020 Army</b>			<b>Date: March 2019</b>		
<b>Appropriation/Budget Activity</b> 2040 / 7		<b>R-1 Program Element (Number/Name)</b> PE 0303150A / WWMCCS/Global Command and Control System		<b>Project (Number/Name)</b> C86 / Army Global C2 System	

Event Name	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Modernization of Defense Readiness Reporting System - Army																												
DRRS-A Modernization																												
DRRS-A Testing																												
DRRS-A Event 1																												
DRRS-A Event 2																												
DRRS-A Event 3																												
DRRS-A Event 4																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Army		<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / <i>WWMCCS/Global Command and Control System</i>	<b>Project (Number/Name)</b> C86 / <i>Army Global C2 System</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Modernization of Defense Readiness Reporting System - Army	1	2018	4	2023
DRRS-A Testing	3	2019	3	2019
DRRS-A Event 1	3	2019	3	2019
DRRS-A Event 2	4	2019	4	2019
DRRS-A Event 3	3	2020	3	2020
DRRS-A Event 4	4	2020	4	2020

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Army										<b>Date:</b> March 2019		
<b>Appropriation/Budget Activity</b> 2040 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0303150A / WWMCCS/Global Command and Control System					<b>Project (Number/Name)</b> EA5 / Strategic and Joint Mission Command		
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
EA5: Strategic and Joint Mission Command	-	4.269	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.269
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Army Joint and Strategic Command and Control (AJaSC2) is a modernization development effort for the Army's joint and strategic C2 capabilities. AJaSC2 provides the materiel solution in response to the Army Mission Command for Unified Action Capability Definition Package (AMCUA CDP). AJaSC2 enables Army operational headquarters to integrate with the Joint Force Commands and Unified Action Partners (UAP). AJaSC2 is a software only implementation of strategic applications and interoperability services that leverage the unified software architecture design (core infrastructure and selected common applications being implemented in the CPCE) that provides Army leaders: Joint Common Operating Picture (COP); Adaptive planning and execution capabilities for distributed, synchronous and asynchronous collaboration services to develop, revise, and execute their warfighting plans supported by theaterwide analytics; strategic Situational Awareness (SA) to coalition operations and other mission partners and coordination and synchronization of Joint Execution Mission Management. Capability Packages enabled by AJaSC2 are providing Force Employment, Joint Force Synchronization, and Total Force Analysis. The operational payoff providing the Joint Force Commander a linkage between Army Mission Command and Unified Action Partners, enabling Unified Action through integration with existing and future applications (including CPCE and MCE) and contributes to achieving Shared Understanding during Unified Land Operations (ULO) facilitating effective Mission Command.

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> Software Design and Systems Engineering (Pre Milestone B)	1.853	-	-
<b>Description:</b> Software Development and Systems Engineering of Capability Packages (Common Operating Environment (COE) System Engineering)			
<b>Title:</b> Program Support and Management	1.137	-	-
<b>Description:</b> Program management includes overall management of program execution, major events, reporting, funds execution, contract management, and logistical support. Includes participation in program planning meetings and IPTs			
<b>Title:</b> Joint Requirements Validation Process	1.279	-	-
<b>Description:</b> Synchronization and Systems Engineering efforts with COE and Command Post Computing Environment (CPCE) and Joint C2 objective Architecture for CP 3, 4 and 5.			
<b>Accomplishments/Planned Programs Subtotals</b>	4.269	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2020 Army		<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / WWMCCS/Global Command and Control System	<b>Project (Number/Name)</b> EA5 / Strategic and Joint Mission Command

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

Line Item	FY 2018	FY 2019	FY 2020	FY 2020	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Cost To	
			Base	OCO	Total					Complete	Total Cost
• BA8250: Army Global Cmd & Control Sys (AGCCS)	2.658	-	0.000	-	0.000	-	-	-	-	0.000	2.658

**Remarks**

**D. Acquisition Strategy**

In accordance with the Army Mission Command for Unified Action (AMCUA) CDP approved December of 2014. The AMCUA CDP provides an overarching structure for future Army Mission Command systems. The AMCUA initiative will meet the requirements to enable planning and share situational awareness within an interdependent enterprise services network comprised of Unified Action Partners (UAP) and sister service components to achieve integrated mission operations. The AMCUA CDP defines the Land Component-unique Mission Command (MC) capabilities that the Army will develop to enable unified action through integration with existing and future Joint and Service command and control applications. MC capability contributions will enable Joint Forces Land Component Command (JFLCC) Commanders to gain and maintain Situational Awareness (SA), make decisions, and exercise authority and direction via a flexible, distributive and seamless system.

The acquisition strategy for AJaSC2 consists of the development, testing and fielding of Capability Packages implemented over time and synchronized with Command Post Computing Environment infrastructure. AJaSC2 will utilize the "Information Technology (IT) Box" construct. As such, evolutionary development of the software will continue as defined Capability Packages to meet emerging requirements that fall within the bounds of the approved IT Box. AJaSC2 strategy will consist of agile application development which will utilize and leverage existing and emerging technologies from Programs of Record and Common Operating Environment (COE) infrastructure. The product development under this R-Form will be accomplished in part under a Project Manager, Mission Command engineering services contract approach which will consist of multiple prime contractors competitively bidding on development efforts.

**E. Performance Metrics**


N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Army												Date: March 2019				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
2040 / 7				PE 0303150A / WWMCCS/Global Command and Control System				EA5 / Strategic and Joint Mission Command								
<b>Management Services (\$ in Millions)</b>				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	
Program Office Management	Various	APG, MD : APG, MD	0.400	1.137		-		-		-		-	0.000	1.537	-	
<b>Subtotal</b>			0.400	1.137		-		-		-		-	0.000	1.537	N/A	
<b>Product Development (\$ in Millions)</b>				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	
Software Development and Systems Engineering	TBD	TBD : TBD	3.177	1.853		-		-		-		-	0.000	5.030	-	
Synchronization with COE, CP CE, and Joint C2	TBD	TBD : TBD	0.510	1.279		-		-		-		-	0.000	1.789	-	
<b>Subtotal</b>			3.687	3.132		-		-		-		-	0.000	6.819	N/A	
<b>Project Cost Totals</b>			4.087	4.269		0.000		-		-		-	0.000	8.356	N/A	
<b>Remarks</b>																

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2020 Army</b>		<b>Date: March 2019</b>
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / WWMCCS/Global Command and Control System	<b>Project (Number/Name)</b> EA5 / Strategic and Joint Mission Command

Event Name	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
MDD Program Documentation	[REDACTED]																											
MDD Delegation	 MDD Delegation																											

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<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0303150A / <i>WWMCCS/Global Command and Control System</i>	<b>Project (Number/Name)</b> EA5 / <i>Strategic and Joint Mission Command</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Validate C-BA	2	2017	4	2017
Design and Systems Engineering	1	2017	3	2017
MDD Program Documentation	4	2017	4	2018
MDD Delegation	3	2018	3	2018