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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Air Force **Date:** February 2020

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / <i>Support to DCGS Enterprise</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	26.579	37.774	33.547	0.000	33.547	14.496	14.699	14.913	15.147	Continuing	Continuing
674826: <i>Common Imagery Ground / Surface Systems</i>	-	15.100	15.382	1.088	0.000	1.088	2.371	2.358	2.350	2.353	Continuing	Continuing
675265: <i>Common Imagery Processor (CIP)</i>	-	11.479	22.392	32.459	0.000	32.459	12.125	12.341	12.563	12.794	Continuing	Continuing

**Note**

In FY 2021, the majority of funding in PE 0305240F, Support to DCGS Enterprise, Project 674826, Common Imagery Ground/Surface Systems, was transferred to PE 0305208L Distributed Common Ground/Surface System for the Defense Intelligence Agency's Common Data Fabric effort.

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

This Program Element funds 1) the Intelligence Integration Office (I2O), formerly the Distributed Common Ground System (DCGS) Multi-service Execution Team (MET) Office (DMO), which oversees the DCGS Integration Backbone (DIB) development, modernization, integration, test, and community support in support of Defense Intelligence Information Enterprise (DI2E), Combatant Commands and Coalition/Partner Intel Operations and 2) the DCGS Enterprise Interoperability effort and 3) the Imagery Processing effort which consists of the Virtual Imagery Processing Capability (VIP-C) program.

1)The I2O oversees Enterprise Interoperability for Defense Intelligence Information Enterprise (DI2E), Combatant Commands and Coalition/Partner Intel Operations. All Services must pursue a common path based on a set of common enterprise services consistent with the DoD's net-centric vision. The DoD charged the Air Force to lead the development, modernization, integration, test, and community support of the Enterprise services to include implementation of international standards (including NATO standardization agreements) to ensure joint, allied, and coalition interoperability. The DIB is a set of enterprise standards and services that enable interoperability and component reuse and provide a flexible and singularly sustainable path to information sharing across the global ISR enterprise including, Next Generation Interoperability (NGI), which will deliver modernized federation profiles, interfaces, methodologies, and data interchange standards without relying upon legacy DIB federation standards and dependencies through common language, common mechanisms, and quality exposure. The deployment of these services into the DI2E Common Data Fabric (CDF) will provide common applications and a managed service framework for the development, test and integration of machine-aided decision making capabilities. The I2O manages the DCGS Test Laboratory (DTL) at Hanscom AFB. This facility supports software development and test for DI2E evaluation during exercises such as Enterprise Challenge and Storm Force.

2) The DCGS Enterprise Interoperability effort provides support to OUSD(I), AF DCGS and NATO interoperability efforts. This includes the development, testing, and implementation of international standards (to include NATO standardization agreements) to ensure joint, allied, and coalition interoperability.

3) The Imagery Processing effort develops the Virtual Imagery Processing Capability (VIP-C) within the DCGS architecture. The VIP-C provides end-to-end image processing to include raw data ingest, data format standardization to facilitate exploitation, secondary image processing, metadata conditioning, and image quality enhancements. Current efforts are focused on 1) ensuring new sensors being fielded and associated data types can be processed and 2) increasing investment in the

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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / <i>Support to DCGS Enterprise</i>
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Machine Assisted Geospatial Intelligence (GEOINT) Exploitation (MAGE) capability.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver AF DCGS system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	26.579	37.774	50.844	0.000	50.844
Current President's Budget	26.579	37.774	33.547	0.000	33.547
Total Adjustments	0.000	0.000	-17.297	0.000	-17.297
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-17.297	0.000	-17.297

**Change Summary Explanation**

In FY 2021, \$13.3 million in PE 0305240F, Support to DCGS Enterprise, Project 674826, Common Imagery Ground/Surface Systems, was transferred to PE 0305208L Distributed Common Ground/Surface System for the Defense Intelligence Agency's Common Data Fabric (CDF) effort.

In addition, the FY 2021 funding request was reduced by \$3.997 million to account for the availability of prior year execution balances.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise				<b>Project (Number/Name)</b> 674826 / Common Imagery Ground / Surface Systems			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
674826: <i>Common Imagery Ground / Surface Systems</i>	-	15.100	15.382	1.088	0.000	1.088	2.371	2.358	2.350	2.353	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

In FY 2021, \$13.3 million in PE 0305240F, Support to DCGS Enterprise, Project 674826, Common Imagery Ground/Surface Systems, was transferred to PE 0305208L Distributed Common Ground/Surface System for the Defense Intelligence Agency's Common Data Fabric (CDF) effort. (A total of \$69.5 million was transferred from FY 2021-2025 for the CDF effort.)

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

This Program Element funds the Intelligence Integration Office (I2O), formerly the Distributed Common Ground System (DCGS) Multi-service Execution Team (MET) Office (DMO), which oversees the DCGS Integration Backbone (DIB) development, modernization, integration, test, and community support in support of Defense Intelligence Information Enterprise (DI2E), Combatant Commands and Coalition/Partner Intel Operations.

The I2O oversees Enterprise Interoperability for Defense Intelligence Information Enterprise (DI2E), Combatant Commands and Coalition/Partner Intel Operations. All Services must pursue a common path based on a set of common enterprise services consistent with the DoD's net-centric vision. The DoD charged the Air Force to lead the development, modernization, integration, test, and community support of the Enterprise services to include implementation of international standards (including NATO standardization agreements) to ensure joint, allied, and coalition interoperability. The DIB is a set of enterprise standards and services that enable interoperability and component reuse and provide a flexible and singularly sustainable path to information sharing across the global ISR enterprise including, Next Generation Interoperability (NGI), which will deliver and maintain modernized federation profiles, interfaces, methodologies, and data interchange standards without relying upon legacy DIB federation standards and dependencies through common language, common mechanisms, and quality exposure. The deployment of these services into the DI2E Common Data Fabric (CDF) will provide common applications and a managed service framework for the development, test and integration of machine-aided decision making capabilities. The I2O manages the DCGS Test Laboratory (DTL) at Hanscom AFB. This facility supports software development and test for DI2E evaluation during exercises such as Enterprise Challenge and Storm Force.

The funding also provides support to OUSD(I), AF DCGS and NATO interoperability efforts. This includes the development, testing, and implementation of international standards (to include NATO standardization agreements) to ensure joint, allied, and coalition interoperability.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver AF DCGS system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise	<b>Project (Number/Name)</b> 674826 / Common Imagery Ground / Surface Systems		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p><b>Title:</b> Distributed Common Ground / Surface System (DCGS) Integration Backbone and Test/Community Support for the DCGS Enterprise</p> <p><b>Description:</b> Develop, modernize, integrate, test and manage the DIB and provide test/community support to the DCGS enterprise.</p> <p><b>FY 2020 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue to re-architect Enterprise Hub Node to cloud native deployment.</li> <li>- Continue to develop/deploy tactical node implementation.</li> <li>- Continue to enhance synchronization of data and products between cloud and tactical node implementations to support Disconnected, Disrupted, Intermittent, and Limited (DDIL) operations.</li> <li>- Continue to implement and deploy NGI capabilities and prove out concepts during Enterprise Challenge/Storm Force, 20 Spirals, and Main Exercise.</li> <li>- Continue to leverage an Object Based Production strategy and utilize machine learning to enhance explicit Content, Discovery and Retrieval (CD&amp;R).</li> </ul> <p><b>FY 2021 Plans:</b> None due to transfer of funds to DIA's Common Data Fabric (CDF) effort.</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Decrease due to funding transfer from PE 0305240F to PE 0305208L</p>		12.933	13.075	0.000
<p><b>Title:</b> DCGS Enterprise Interoperability</p> <p><b>Description:</b> Provide support to OUSD(I), AF DCGS and NATO Interoperability Enterprise efforts.</p> <p><b>FY 2020 Plans:</b> Continue to support to OUSD(I), AF DCGS and NATO Interoperability Enterprise efforts.</p> <p><b>FY 2021 Plans:</b> Will continue to support to OUSD(I), AF DCGS and NATO Interoperability Enterprise efforts.</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funding request was reduced to account for the availability of prior year execution balances.</p>		2.167	2.307	1.088
<b>Accomplishments/Planned Programs Subtotals</b>		15.100	15.382	1.088
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / <i>Support to DCGS Enterprise</i>	<b>Project (Number/Name)</b> 674826 / <i>Common Imagery Ground / Surface Systems</i>

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

**Remarks**

**D. Acquisition Strategy**

The Air Force uses an evolutionary acquisition approach with version releases and periodic upgrades to develop, field, and upgrade the capabilities. The Air Force structures contracts to provide the improved capabilities through full and open competition to the maximum extent possible. For management, the Air Force leads the Intelligence Integration Office (I2O) which coordinates the Multi-Service requirements for the DIB and modern enterprise services in support of USD(I) direction.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force												Date: February 2020				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)							
3600 / 7				PE 0305240F / Support to DCGS Enterprise					674826 / Common Imagery Ground / Surface Systems							
<b>Product Development (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	
DIB Modernization, Integration, DT and Interoperability	C/T&M	Various : Various	-	8.032	Jan 2019	8.729	Feb 2020	-		-		-	Continuing	Continuing	-	
DCGS Test and Community Support and Enterprise Support	C/CPAF	Various : Various	-	1.564	Feb 2019	-		-		-		-	Continuing	Continuing	-	
<b>Subtotal</b>			-	9.596		8.729		-		-		-	Continuing	Continuing	N/A	
<b>Support (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	
HCIC & IA	C/Various	Various : Various	-	0.444	Jan 2019	0.173	Jan 2020	-		-		-	Continuing	Continuing	-	
DCGS Enterprise Interoperability	C/Various	Various : Various	-	2.167	Apr 2019	2.307	Apr 2020	1.088	Apr 2021	-		1.088	Continuing	Continuing	-	
<b>Subtotal</b>			-	2.611		2.480		1.088		-		1.088	Continuing	Continuing	N/A	
<b>Management Services (\$ in Millions)</b>				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	
FFRDC	C/CPFF	Various : Bedford, MA	-	0.121	Apr 2019	-		-		-		-	Continuing	Continuing	-	
A&AS	C/CPAF	Various : Various	-	2.574	Feb 2019	3.326	Feb 2020	-		-		-	Continuing	Continuing	-	
Program Management Administration	C/CPAF	Various : Various	-	0.198	Oct 2019	0.847	Oct 2020	-		-		-	Continuing	Continuing	-	
<b>Subtotal</b>			-	2.893		4.173		-		-		-	Continuing	Continuing	N/A	
<b>Project Cost Totals</b>			-	15.100		15.382		1.088		-		1.088	Continuing	Continuing	N/A	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2021 Air Force							<b>Date:</b> February 2020			
<b>Appropriation/Budget Activity</b> 3600 / 7			<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise			<b>Project (Number/Name)</b> 674826 / Common Imagery Ground / Surface Systems				
	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2021 Air Force</b>		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise	<b>Project (Number/Name)</b> 674826 / Common Imagery Ground / Surface Systems

	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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

<b>DIB</b>																												
DIB Version 4.6.X																												
DIB Version 4.7.X																												
DIB Next Generation Interoperability Version																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise	<b>Project (Number/Name)</b> 674826 / Common Imagery Ground / Surface Systems

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>DIB</i></b>				
DIB Version 4.6.X	1	2019	3	2019
DIB Version 4.7.X	4	2019	4	2020
DIB Next Generation Interoperability Version	4	2019	4	2020

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise				<b>Project (Number/Name)</b> 675265 / Common Imagery Processor (CIP)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
675265: Common Imagery Processor (CIP)	-	11.479	22.392	32.459	0.000	32.459	12.125	12.341	12.563	12.794	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Imagery Processing effort develops the Virtual Imagery Processing Capability (VIP-C) within the DCGS architecture. VIP-C accepts airborne imagery data, processes it into an exploitable format, and provides it to other elements within the weapon system and/or the DCGS Enterprise. Current efforts include further developing the virtual software capability to improve processing across the enterprise and testing, development, and demonstrations integrating updated and new/emerging sensors into DCGS. In addition, the project involves increasing capability through the Machine Assisted Geospatial Intelligence (GEOINT) Exploitation (MAGE) effort.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver AF DCGS system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b>Title:</b> Imagery Processor	11.479	22.392	32.459
<b>Description:</b> Continue developing VIP-C to keep pace with growing sensor baseline and enhance imagery data quality.			
<b>FY 2020 Plans:</b>			
- Continue to upgrade and improve VIP-C to enable better geo-coordinate accuracy, facilitate automated intelligence discovery and integrate new algorithms.			
- Continue MAGE research and development			
<b>FY 2021 Plans:</b>			
- Will continue to upgrade and improve VIP-C to enable better geo-coordinate accuracy, facilitate automated intelligence discovery and integrate new algorithms.			
- Will continue MAGE research and development by leveraging Department of Energy and Air Force Research Laboratory expertise. This includes identification of targets through machine learning algorithms, use and refinement of test harness, validation of new algorithms, and generation test data and methods.			
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force	<b>Date:</b> February 2020
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<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise	<b>Project (Number/Name)</b> 675265 / Common Imagery Processor (CIP)
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021
Increase due to additional funding for the MAGE effort.			
<b>Accomplishments/Planned Programs Subtotals</b>	11.479	22.392	32.459

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u> Base	<u>FY 2021</u> OCO	<u>FY 2021</u> Total	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u> Complete	<u>Total Cost</u> Continuing
• OPAF 04 Line Item 846080: DCGS-AF	38.720	21.918	22.288	-	22.288	22.694	23.091	23.507	23.937	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

For imagery processing the Air Force uses an evolutionary acquisition approach with increments and spirals to develop, field, and upgrade the system and structure contracts for the improved capabilities through full and open competition to the maximum extent possible. In terms of management, Air Force leads the Cross Service Working Group that aligns imagery processing capabilities across the Joint Services in support of USD(I) direction.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2021 Air Force** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise	<b>Project (Number/Name)</b> 675265 / Common Imagery Processor (CIP)
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	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
<b>Virtual Imagery Processing Capability</b>																												
Software Release (3.52)		■	■	■																								
Software Release (3.54)				■	■	■	■																					
Machine Assisted GEOINT Exploitation Investment						■	■	■	■	■	■																	
Software Release (3.56)						■	■	■	■																			
Software Release (3.58)								■	■																			
Software Release (3.60)										■	■	■	■															
Software Release (3.x)													■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305240F / Support to DCGS Enterprise	<b>Project (Number/Name)</b> 675265 / Common Imagery Processor (CIP)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Virtual Imagery Processing Capability</i></b>				
Software Release (3.52)	2	2019	4	2019
Software Release (3.54)	4	2019	2	2020
Machine Assisted GEOINT Exploitation Investment	2	2020	4	2021
Software Release (3.56)	2	2020	4	2020
Software Release (3.58)	4	2020	1	2021
Software Release (3.60)	1	2021	4	2021
Software Release (3.x)	3	2021	4	2025