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

<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 0605766A / <i>National Capabilities Integration (MIP)</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	-	12.340	7.835	7.670	-	7.670	11.671	11.044	11.289	13.600	0.000	75.449
<i>DX9: National Integration To Tactical Systems(MIP)</i>	-	9.060	4.490	4.219	-	4.219	5.178	4.421	4.533	6.709	0.000	38.610
<i>EX7: Air Vigilance System Development</i>	-	3.280	3.345	3.451	-	3.451	6.493	6.623	6.756	6.891	0.000	36.839

**Note**  
 PE 0605766A 'National Capabilities Integration (MIP)' funds two separate efforts in two separate Projects:  
 (1) Project DX9 'National Integration To Tactical Systems (MIP)' provides system development research and development funds for integration of multiple projects development by Army TENCAP into enduring Programs of Record  
 (2) Project EX7 'Air Vigilance System Development' provides system development research and development funds to the Army's 'Air Vigilance' ACAT III Automated Information System (AIS) Program of Record (POR)

All funding is in support of the ACTIVE COMPONENT

**A. Mission Description and Budget Item Justification**  
 National Integration to Tactical Systems provides centralized monitoring and synchronization by the Army's Tactical Exploitation of National Capabilities (TENCAP) office, for the transition and integration of proven advanced technologies, prototypes and standards developed by the National Intelligence Community (IC) into Army systems and Programs of Record. This Program Element includes System Development and Integration funds for the Air Vigilance Program of Record (POR). It also enables efficient use and oversight of system development funds for final stage integration, development, and testing of successful technologies and prototypes to advance, or make compliant, Army systems and Programs of Record that have or use National capabilities.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2021 Army	<b>Date:</b> February 2020
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<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 0605766A / <i>National Capabilities Integration (MIP)</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2019</u></b>	<b><u>FY 2020</u></b>	<b><u>FY 2021 Base</u></b>	<b><u>FY 2021 OCO</u></b>	<b><u>FY 2021 Total</u></b>
Previous President's Budget	12.340	7.835	7.677	-	7.677
Current President's Budget	12.340	7.835	7.670	-	7.670
Total Adjustments	0.000	0.000	-0.007	-	-0.007
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.007	-	-0.007

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Army										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>				<b>Project (Number/Name)</b> DX9 / <i>National Integration To Tactical Systems(MIP)</i>			
<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>
DX9: <i>National Integration To Tactical Systems(MIP)</i>	-	9.060	4.490	4.219	-	4.219	5.178	4.421	4.533	6.709	0.000	38.610
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

All funding is in support of the ACTIVE COMPONENT  
Project DX9 'National Capabilities Integration (MIP)' was previously funded

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

National Integration to Tactical Systems provides for centralized monitoring and synchronization by the Army's Tactical Exploitation of National Capabilities (TENCAP) office for the transition and integration of new, updated, and emerging National Intelligence Community (IC) technologies, capabilities, and standards into Programs of Record across the Army to: (1) maintain operational relevance of Army programs and address changes in technology and the threat, (2) ensure Army programs maintain interoperability with and access to the National community architecture and systems, and (3) advance Army ability to conduct analysis and tasking, collection, processing, exploitation, dissemination and feedback (TCPEDF) of intelligence data.

FY 2021 Base funding in the amount of \$4.219 million provides integration funds for two (2) validated National Intel Community (IC) efforts: (1) Army TNG Integration, \$3.150 million funds the continued efforts to ensure Army Programs of Record are in compliance to the National standard for Airborne Overhead Cooperative Operations/Theater Net-Centric Geolocation (AOCO/TNG), per the Joint Requirement (JROCM 101-10); (2) TENCAP Radio Frequency Exploitation (TRFE), \$1.069 million funds the system development and integration efforts of the TRFE software.

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b>Title:</b> Army TNG Integration - Airborne Overhead Cooperative Operations (AOCO) / Theater Net-Centric Geolocation (TNG)	3.009	3.088	3.150
<b>Description:</b> National Intelligence Community (IC) standard for interoperability and use of specific intelligence networked capabilities.			
<b>FY 2020 Plans:</b> Continue to provide funds to specified Army Programs of Record (PORs) for final-stage software development and integration efforts, ensuring their compliance to the National requirement and standards that enables these PORs to be interoperable within this National Intelligence Community (IC) "Theater Net-Centric Geolocation (TNG)" network for joint tactical use and improved Army battlefield awareness. (ref. CJCSI 32450.61, AOCO 13 January 2012)			
<b>FY 2021 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Army		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>	<b>Project (Number/Name)</b> DX9 / <i>National Integration To Tactical Systems(MIP)</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Continues to provide funds to specified Army Programs of Record (PORs) for final-stage software development and integration efforts, ensuring their compliance to the National requirement and standards that enables these PORs to be interoperable within this National Intelligence Community (IC) "Theater Net-Centric Geolocation (TNG)" network for joint tactical use and improved Army battlefield awareness. (ref. CJCSI 32450.61, AOCO 13 January 2012)				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Aligns funds for TNG efforts to ensure compliance to National requirements				
<b>Title:</b> AMDAS-Next <b>Description:</b> System development and integration of the prototype Advanced Miniaturized Data Acquisition System 'AMDAS - Next', the subsystem that provides national data to the tactical warfighter via intelligence community partners classified national systems. *Note: capability will transfer to (pending) POR TITAN in FY 2023, funded in project BX9 in FY 2022.		3.506	-	-
<b>Title:</b> TENCAP Radio Frequency Exploitation (TRFE) <b>Description:</b> Prototype capability software that informs, influences and enhances MULTI-INT sensor systems within PEO IEW&S such as Terrestrial Layer System (TLS) by targeting modern digital communications systems employed by near-peer nation state armies. Assists with Battlespace RF Characterization for modern communication environments with the intent to synchronize SIGINT, Cyber and Electronic Warfare operations. Utilizes commercial industry components and architectures to minimize hardware costs, risk and maximizes scalability/modularity. <b>FY 2020 Plans:</b> Continue integration of TRFE cognitive, software-based, SIGINT-Enabled, Electronic-Warfare-and-Cyber-Attack prototype capability focused on countering Peer-State and modern communication targets and threats. <b>FY 2021 Plans:</b> Continues integration of TRFE cognitive, software-based, SIGINT-Enabled, Electronic-Warfare-and-Cyber-Attack prototype capability focused on countering Peer-State and modern communication targets and threats. Will inform and potentially transition to the POR Terrestrial Layer System (TLS). <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Aligns funds for system development and integration of TENCAP Radio Frequency Exploitation efforts ready for transition.		2.530	1.402	1.069
<b>Title:</b> FY 2018 NDAA SEC 825 MDAP Cost Overrun <b>Description:</b> FY 2018 NDAA SEC 825 MDAP Cost Overrun		0.015	-	-
<b>Accomplishments/Planned Programs Subtotals</b>		9.060	4.490	4.219

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Army		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>	<b>Project (Number/Name)</b> DX9 / <i>National Integration To Tactical Systems(MIP)</i>

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>			<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• 0603766A: <i>Tactical Electronic Surveillance System - Adv Dev</i>	35.667	37.490	194.775	-	194.775	105.297	82.506	72.221	42.440	0.000	570.396
• OMA - 122011 OMA: <i>Contractor Logistics Support and Other Weapon Support, OMA 122011</i>	2.052	-	2.132	-	2.132	2.175	2.217	2.285	2.330	0.000	13.191

**Remarks**

**D. Acquisition Strategy**

The 'National Integration To Tactical Systems (Military Intelligence Program - MIP)' funds provide for transition and integration of National Intelligence Community (IC) advanced technologies and prototypes leveraged by the Army's Tactical Exploitation of National Capabilities (TENCAP) program office. The Army TENCAP acquisition strategy is driven by an annual TENCAP General Officer Steering Group (TGOSG), co-chaired by the Army G2; Army G8; and the Military Deputy to the Assistant Secretary of the Army for Acquisition, Logistics, and Technology [ASA(ALT)]; and includes representatives from the Army G3; Army G6; Army Training and Doctrine Command (TRADOC); and the Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S). The TGOSG reviews, validates, prioritizes, and guides Army TENCAP efforts, according to Army and Defense strategy. Based on this TGOSG guidance, Army TENCAP invests BA 6.4 RDTE in Intelligence Community (IC) developments during the more cost-effective advanced development phase to ensure Army requirements are met with minimal redundancy with Army investments. Army TENCAP then uses BA 6.5 RDTE to manage the transition of these advanced development efforts through system development and integration into Army Programs of Record (POR). This strategy ensures these leveraged investments remain viable through multiple budget cycles, significantly increasing successful transition to recipient Army POR. Army TENCAP facilitates the continued access to National Intel Community (IC) 'joint' efforts and compatibility with those National standards and software baseline for those Army PORs that benefit from these leveraged National IC technologies, resulting in cost-savings through cost-sharing, and Army participation in collaborative Intelligence. Funds will be used for final-stage integration efforts identified and vetted through the Army TENCAP annual TGOSG, such as: advanced Air Vigilance software enhancements; POR sensor integration into the Theater Net-Centric Geolocation network; integration of the future Advanced Miniaturized Data Acquisition System (AMDAS - Next) capability into (pending) POR TITAN and operational concepts; transition and integration of Army TENCAP technologies discovered and leveraged by the annual Military Exploitation of Reconnaissance and Intelligent Technology (MERIT) project selection process, as well as other transitioning technologies discovered and/or leverage through other joint TENCAP outreach efforts.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army												Date: February 2020				
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)				Project (Number/Name) DX9 / National Integration To Tactical Systems(MIP)								
<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	
TNG Engineers	MIPR	Multiple : Multiple	0.420	0.913	Jan 2019	0.115	Jan 2020	0.150	Jan 2021	-		0.150	0.000	1.598	Continuing	
FY 2018 NDAA SEC 825 MDAP Cost Overrun	TBD	TENCAP : Alexandria	-	0.015		-		-		-		-	0.000	0.015	-	
<b>Subtotal</b>			0.420	0.928		0.115		0.150		-		0.150	0.000	1.613	N/A	
<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	
TNG for Multiple Army PORs	MIPR	Multiple : Multiple	28.878	4.782	Jan 2019	2.250	Jan 2020	3.000	Jan 2021	-		3.000	0.000	38.910	Continuing	
TRFE	MIPR	Classified : Classified	-	2.327	Jan 2019	1.100	Jan 2020	1.069	Jan 2021	-		1.069	0.000	4.496	Continuing	
<b>Subtotal</b>			28.878	7.109		3.350		4.069		-		4.069	0.000	43.406	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	
TNG Support Costs	Allot	PEO IEW&S/PM SAI : Aberdeen Proving Grounds, MD	0.240	0.554	Jan 2019	0.550	Jan 2020	-		-		-	0.000	1.344	Continuing	
<b>Subtotal</b>			0.240	0.554		0.550		-		-		-	0.000	1.344	N/A	
<b>Test and Evaluation (\$ 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	
TNG Test and Evaluation	MIPR	Multiple : Multiple	0.255	0.275	Jan 2019	0.275	Jan 2020	-		-		-	0.000	0.805	Continuing	
TRFE	MIPR	Classified : Classified	-	0.194	Jan 2019	0.200	Jan 2020	-		-		-	0.000	0.394	Continuing	



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2021 Army</b>			<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>	<b>Project (Number/Name)</b> DX9 / <i>National Integration To Tactical Systems(MIP)</i>	

Event Name	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
Theater Net-centric Geolocation (TNG) Interoperability Standard																												
TRFE Prototype Integration Effort																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Army		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>	<b>Project (Number/Name)</b> DX9 / <i>National Integration To Tactical Systems(MIP)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Theater Net-centric Geolocation (TNG) Interoperability Standards	2	2014	1	2026
TRFE Prototype Integration Effort	1	2018	4	2023

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Army										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>				<b>Project (Number/Name)</b> EX7 / <i>Air Vigilance System Development</i>			
<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>
<i>EX7: Air Vigilance System Development</i>	-	3.280	3.345	3.451	-	3.451	6.493	6.623	6.756	6.891	0.000	36.839
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

All funding is in support of the ACTIVE COMPONENT

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

Air Vigilance systems are a software based solution that collect critical intelligence data on emerging threat aerial systems. The intelligence data provides early warning of operations in restricted airspace to ensure force protection. An Air Vigilance system is comprised of a server unit configured and fielded with a single or multiple sub-component sensors. System Quantities are based upon server units. Operational details are classified.

FY 2021 Base funding in the amount of \$3.451 million provides for system development and integration of latest software developments and hardware configurations in accordance with Capability Drop (CD) 3 requirements. This completes the BOIP of 39 sensors and 10 servers and reaches Full Deployment (FD).

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b>Title:</b> Air Vigilance System Development and Integration	3.280	3.345	3.451
<b>Description:</b> Software and hardware engineering, development and integration efforts.			
<b>FY 2020 Plans:</b> Will provide for software development and integration to ingest latest collected sensor data into the common baseline and enhance system capabilities to meet newly identified threats and latest Capability Drop requirements.			
<b>FY 2021 Plans:</b> Will provide for software development and integration to ingest latest collected sensor data into the common baseline and enhance system capabilities to meet newly identified threats and latest Capability Drop requirements.			
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Funds align to system development which is driven by and in response to collected sensor data			
<b>Accomplishments/Planned Programs Subtotals</b>	3.280	3.345	3.451

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Army		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>	<b>Project (Number/Name)</b> EX7 / <i>Air Vigilance System Development</i>

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

Line Item	FY 2019	FY 2020	FY 2021	FY 2021	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Cost To	
			Base	OCO	Total					Complete	Total Cost
• 0603766A: <i>Tactical Electronic Surveillance System - Adv Dev</i>	35.667	37.490	194.775	-	194.775	105.297	82.506	72.221	42.440	0.000	570.396
• W60001: <i>Air Vigilance (AV) (MIP)</i>	8.497	8.953	8.160	-	8.160	8.521	8.692	8.866	9.043	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

Air Vigilance (AV) is an ACAT III Automated Information System (AIS) program of record (POR) that originated from a Quick Reaction Capability (QRC) developed and fielded cooperatively with the Intelligence Community (IC) through the efforts and mission of the Army's Tactical Exploitation of National Capabilities (TENCAP) office. The QRC was transitioned into an Army AIS POR by the AAE in May 2013 and assigned to Army Program Executive Office - Intelligence Electronic Warfare and Sensors (PEO IEWS), the chartered acquisition authority for management and execution of the Army's TENCAP mission and Milestone Decision Authority (MDA) for the AV POR. The Army TENCAP continues to leverage the IC common software development and support contract to field the AV systems, and ensure this primarily software based system can continue to access and leverage the common software, and input or ingest the latest sensor collects into the common IC data library. As an AIS POR, the AV POR is currently fielding systems per its Basis of Issue Plan (BOIP) and with software and system capabilities that meet its latest validated Capability Drop (CD) requirements. The AV POR is currently scheduled to meet Full Deployment (FD) by 2021, and will continue to evolve to meet future validated Capability Drop requirements and maintain its effectiveness against emerging threats.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army												Date: February 2020				
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605766A / National Capabilities Integration (MIP)				Project (Number/Name) EX7 / Air Vigilance System Development								
<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	
System Engineers and Technical Assistance (SETA)	Option/CPFF	Perspecta : Alexandria, VA	0.480	0.512	Jan 2019	0.530	Jan 2020	0.550	Jan 2021	-		0.550	0.000	2.072	Continuing	
<b>Subtotal</b>			0.480	0.512		0.530		0.550		-		0.550	0.000	2.072	N/A	
<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	
Air Vigilance software updates and integration	Option/CPAF	CACI : Sterling, VA	2.588	1.825	Jan 2019	1.865	Jan 2020	1.900	Jan 2021	-		1.900	0.000	8.178	Continuing	
<b>Subtotal</b>			2.588	1.825		1.865		1.900		-		1.900	0.000	8.178	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	
PM Costs, Travel, Facilities	Allot	PEO IEWS/Air Vigilance POR : Alexandria, VA	0.744	0.830	Dec 2018	0.850	Dec 2019	0.900	Jan 2021	-		0.900	0.000	3.324	Continuing	
<b>Subtotal</b>			0.744	0.830		0.850		0.900		-		0.900	0.000	3.324	N/A	
<b>Test and Evaluation (\$ 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	
Air Vigilance system Testing and Exercises	Option/CPAF	CACI : Sterling, VA	0.250	0.113	Jan 2019	0.100	Jan 2020	0.101	Jan 2021	-		0.101	0.000	0.564	-	
<b>Subtotal</b>			0.250	0.113		0.100		0.101		-		0.101	0.000	0.564	N/A	





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Army		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605766A / <i>National Capabilities Integration (MIP)</i>	<b>Project (Number/Name)</b> EX7 / <i>Air Vigilance System Development</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Air Vigilance system development, integration and fielding contract	2	2016	2	2021
Air Vigilance CD #3 National Assessment Group Test	3	2018	3	2018
Full Deployment - Current RDP s/w Baseline	2	2021	2	2021
TRFE GSA FEDSIM Bridge Contract	2	2018	3	2019
E3I GSA FEDSIM Contract	2	2019	2	2019
E3I GSA FEDSIM Contract 1yr Base, w/4 Options	2	2019	2	2024
Air Vigilance s/w, h/w dev, integration and fielding - Follow-on capabilities	4	2020	4	2023