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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Office of the Secretary Of Defense **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605170D8Z I <i>Support to Networks and Information Integration (NII)</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	89.354	9.230	4.759	9.449	-	9.449	10.441	8.588	8.044	7.995	Continuing	Continuing
170: <i>Support to NII</i>	89.354	9.230	4.759	9.449	-	9.449	10.441	8.588	8.044	7.995	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
New Start (Y/N): No

A. Mission Description and Budget Item Justification

This program supports the Department's initiatives to Deter Aggression, Defend the Homeland, and Build Sustainable and Long-Term Advantage.

Support to Networks and Information Integration (NII) program supports Global Positioning System (GPS) User Equipment Synchronization with GPS space and operational control segments to conduct DoD CIO oversight of GPS management and planning activities required for meeting JCIDs requirements. The NII program also supports policy and guidance for incorporation of alternative means of Positioning, Navigation, and Timing (PNT) delivery to augment GPS. Additionally, the program supports the DoD's PNT Oversight Council and inputs into interagency activities under the National Space-Based Positioning, Navigation, and Timing Executive Committee.

In support of the National Defense Strategy (NDS), GPS continues to provide a force multiplier for the Joint Force and key U.S. allies. Similarly, superior PNT provides enhanced Joint Force lethality through precision targeting, exacting ISR, efficient logistics, blue force tracking, and a myriad of other force enhancements which are utilized by the Joint Force and key U.S. allies. As such, they ensure efficient and effective force employment.

The Integrated Planning and Management Project encompasses the National Leadership Command Capabilities Management Office's (NMO) responsibilities for establishing overall DoD policy and oversight with respect to the capability development, interoperability, standards, and architecture for National Command Capabilities for our Nation's Senior Leadership. The NMO serves as the single point of contact within the Department for policy, long-range plans, programs and budget, integrated mission advocacy, and management of decision-maker capabilities. NMO's objective is to ensure capabilities are in place to provide complete and timely situational awareness and decision tools for senior decision-makers. Additionally, the NMO assists the DoD CIO as the Executive Agent and primary OSD advocate for the White House Military Office with oversight of a wide range of DoD command, control, and communications (C3) assets and oversees the efforts of the Services and Agencies in the design, integration, and deployment of critical and sensitive C3 capabilities. Two overall areas of focus include: 1) National Senior Leader C3 Systems, National Security/Emergency Preparedness (NS/EP), DoD support to Civil Authorities; Continuity of Government (COG); 2) Cyber Mission Indications and Warnings.

NMO provides guidance, oversight and policy direction support for Senior Leadership communications and Continuity communications which supports the Secretary's stated priority to "Defend the Nation" by "Addressing Advanced and Persistent Threats". By coordinating and integrating with the National Security Agency in the development of a security policy that provides guidance to the NMO community on cyber secure connection interfaces and security patterns on a continuous basis to addresses hardware, firmware and software vulnerabilities. Working with Defense Information Systems Agency (DISA), the Services, and other federal

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government agencies to ensure the safety of our Nation's critical undersea cable infrastructure. Provide guidance and oversight to all NMO cryptographic modernization programs, ensure NSA and the appropriate Service delivers their cryptographic capability on time and work with the combatant commanders' staff to ensure they have operationalized any potential risks with potential cryptographic program delays.

Coordinate the DoD's critical time dissemination resiliency plans and initiatives with senior representatives from the precision, navigation and timing (PNT) community. Work with the Joint Staff, Army, Air Force, Navy, and Marine Corps to ensure their PNT plans include primary and alternate capabilities. Continue analysis of White House, DoD Services, DoD Agencies and Combatant Command initiatives to ensure the effectiveness of our airborne command, control and communications, commercial and military satellite communications, and their supporting ground infrastructure. Analysis will ensure our Senior Leadership C3 is operationally effective during all phases of a conflict.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	9.582	4.759	0.000	-	0.000
Current President's Budget	9.230	4.759	9.449	-	9.449
Total Adjustments	-0.352	0.000	9.449	-	9.449
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-0.002	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.350	-			
• Adjustments to Budget Year	-	-	9.449	-	9.449

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: Support to Networks and Information Integration (NII)	9.230	4.759	9.449
FY 2022 Plans: Conduct DoD CIO oversight of GPS/PNT management and planning activities required for meeting warfighter requirements. Manage activities of the DoD PNT Oversight Council and supporting structure and support the National Space-Based Positioning, Navigation and Timing Executive Committee. Support activities include: - Manage the GPS Security Policy (DoDM-O4650.11). - Manage the Information Assurance/Communications Security (COMSEC) elements of DoDM-O4650.11.			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<ul style="list-style-type: none"> - Continue implementation of the GPS Protection Profile matrix from Navigation Warfare Concept of Operations in conjunction with Warfighting Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with United States Space Command (US SPACECOM). - Manage PNT Navigation Warfare Instruction and Annexes to all the Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with United States Strategic Command (US STRATCOM). - Manage National Airspace System activities affecting PNT with the Air Force and Federal Aviation Administration. Continue implementation of Red Key Sundown Policy. - Provide staff support, perform research and conduct studies as directed by Deputy Secretary of Defense (DEPSECDEF) in his role as co-chair of the National Executive Committee for Space-Based PNT and for DoD CIO in his role as co-chair of the Executive Steering Group. - Apply Navigation Warfare Concepts of Operations via the Joint Navigation Warfare Center (JNWC) and US SPACECOM to develop Doctrine, Tactics, Techniques and Procedures, Training, Equipment Validation and Material Solutions to Navigation Warfare challenges to the Military Services and Combatant Commanders in the scenarios defined in the CONPLANS and OPLANS. - Provide oversight and guidance on the DoD PNT investment strategy to insure PNT material solutions are developed in a synchronized fashion in Joint Capabilities Integration and Development System (JCIDs), Defense Acquisition System (DAS), and Planning, Programming, Budgeting and Execution (PPBE) process. - Implement PNT Instructions (DoDIs) for PNT and Navigation Warfare policy and PNT system compliance with Navigation Warfare requirements, and the DoDM for security policy. - Analyze and promote alternative PNT delivery means for inclusion in the force structure for force protection. Assist development of Modular Open Systems Architecture Standards for fielding of alternative PNT and development of M&S tool for alternative PNT analysis. - Biennially task Intelligence Community (IC) to assess threat vectors to GPS and other means of PNT delivery; biennial operational assessments to reveal gaps in PNT delivery against OPLANS and CONPLANS of COCOMS; maintenance of PNT equipment inventories, refreshed biennially. - Develop Directives, Instructions, and Manuals for implementation of the PNT Strategy within the Department. - Continue special tasks directed by DCIO to address acceleration of development and fielding of advanced GPS receivers in the Joint Force. - Maintain and update inventory of existing GPS receiver equipage; expand to include antennae and antennae electronics; expand to include delivery of PNT via other-than-GPS equipment. - Address prioritized platforms in fielding plans and guidance to Services. - Develop Military GPS User Equipment (MGUE) "Roadmap" illustrating necessary fielding milestones for Joint Force MGUE equipage. 			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>- Administer the PNT Oversight Council and PNT Executive Management Board within DoD via supporting DoDDs and DoDIs, agendas and minutes for meetings, task disposition and the PNT Oversight Council Annual Report to Congress. Chair and manage subordinate working works (WGs) for PNT Policy and Naval Information Warfare Systems Command (NAVWAR).</p> <p>- Address The North Atlantic Treaty Organization (NATO) PNT interoperability via Standardization Agreement (STANAGs), Allied Navigation Plans, and associated documentation in NATO CaP-2 under C3 Board direction. Insure complementarity of allied equipage and planning based on USAF GPS development, open systems architecture development, and foreign PNT systems and capabilities.</p> <p>- Ensure cyber security of all elements of the Department PNT enterprise. Assist civil Departments and Agencies, as required.</p> <p>Provide oversight and guidance on Maritime Information Systems (MIS) and Submarine Fiber Optic Cables (SFOC) and associated infrastructure. These activities will encompass overseeing analysis of requirements, identifying communications capability shortfalls and interoperability issues, assessing equipment performance issues and exploring future communications improvements. This includes technical expertise and systems engineering expertise in support of acquisition, planning, procurement, installation, operations and sustainment of MIS and SFOC capabilities.</p> <p>FY 2023 Plans: Conduct DoD CIO oversight of GPS/PNT) management and planning activities required for meeting warfighter requirements. Manage activities of the DoD PNT Oversight Council and supporting structure and support the National Space-Based Positioning, Navigation and Timing Executive Committee. Support activities include:</p> <ul style="list-style-type: none"> - Manage the GPS Security Policy (DoDM-O4650.11). - Manage the Information Assurance/COMSEC elements of DoDM-O4650.11. - Continue implementation of the GPS Protection Profile matrix from Navigation Warfare Concept of Operations in conjunction with Warfighting OPLANS and CONPLANS in coordination with US SPACECOM. - Manage PNT Navigation Warfare Instruction and Annexes to all the OPLANS and CONPLANS in coordination with US STRATCOM. - Manage National Airspace System activities affecting PNT with the Air Force and Federal Aviation Administration. Continue implementation of Red Key Sundown Policy. - Provide staff support, perform research and conduct studies as directed by DEPSECDEF in his role as co-chair of the National Executive Committee for Space-Based PNT and for DoD CIO in his role as co-chair of the Executive Steering Group. - Apply Navigation Warfare Concepts of Operations via the JNWC and US SPACECOM to develop Doctrine, Tactics, Techniques and Procedures, Training, Equipment Validation and Material Solutions to Navigation Warfare challenges to the Military Services and Combatant Commanders in the scenarios defined in the CONPLANS and OPLANS. - Provide oversight and guidance on the DoD PNT investment strategy to insure PNT material solutions are developed in a synchronized fashion in JCIDs, DAS, and PPBE. 			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<ul style="list-style-type: none"> - Implement PNT DoDIs for PNT and Navigation Warfare policy and PNT system compliance with Navigation Warfare requirements, and the DoDM for security policy. - Analyze and promote alternative PNT delivery means for inclusion in the force structure for force protection. Assist development of Modular Open Systems Architecture Standards for fielding of alternative PNT and development of M&S tool for alternative PNT analysis. - Biennially task IC to assess threat vectors to GPS and other means of PNT delivery; biennial operational assessments to reveal gaps in PNT delivery against OPLANS and CONPLANS of COCOMS; maintenance of PNT equipment inventories, refreshed biennially. - Develop Directives, Instructions, and Manuals for implementation of the PNT Strategy within the Department. - Continue special tasks directed by DCIO to address acceleration of development and fielding of advanced GPS receivers in the Joint Force. - Maintain and update inventory of existing GPS receiver equipage; expand to include antennae and antennae electronics; expand to include delivery of PNT via other-than-GPS equipment. - Address prioritized platforms in fielding plans and guidance to Services. - Develop MGUE "Roadmap" illustrating necessary fielding milestones for Joint Force MGUE equipage. - Administer the PNT Oversight Council and PNT Executive Management Board within DoD via supporting DoDDs and DoDIs, agendas and minutes for meetings, task disposition and the PNT Oversight Council Annual Report to Congress. Chair and manage subordinate WGs for PNT Policy and NAVWAR. - Address NATO PNT interoperability via STANAGs, Allied Navigation Plans, and associated documentation in NATO CaP-2 under C3 Board direction. Insure complementarity of allied equipage and planning based on USAF GPS development, open systems architecture development, and foreign PNT systems and capabilities. - Ensure cyber security of all elements of the Department PNT enterprise. Assist civil Departments and Agencies, as required <p>Provide oversight and guidance on MIS and SFOC and associated infrastructure. These activities will encompass overseeing analysis of requirements, identifying communications capability shortfalls and interoperability issues, assessing equipment performance issues and exploring future communications improvements. This includes technical expertise and systems engineering expertise in support of acquisition, planning, procurement, installation, operations and sustainment of MIS and SFOC capabilities.</p> <p>Provide technical expertise and oversight of Senior Leader C3 Systems and platforms including fixed and mobile communications capabilities of the White House, Secretary of Defense, Chairman of the Joint Chiefs of Staff, and other identified Senior Leaders. These activities will encompass consolidating Senior Leader operational mission requirements, identifying communications</p>			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
capability shortfalls and interoperability issues, assessing equipment performance issues and exploring future communications improvements.				
FY 2022 to FY 2023 Increase/Decrease Statement: The FY 2023 increase is due to re-phasing based on prior year execution balances.				
Accomplishments/Planned Programs Subtotals		9.230	4.759	9.449
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy N/A				