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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

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| 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> |
|--|--|

| 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 | 103.169 | 9.103 | 10.504 | 8.580 | - | 8.580 | 8.049 | 8.009 | 8.179 | 8.342 | Continuing | Continuing |
| 170: <i>Support to NII</i> | 103.169 | 9.103 | 10.504 | 8.580 | - | 8.580 | 8.049 | 8.009 | 8.179 | 8.342 | 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 the military Global Positioning System (GPS) user equipment (MGUE) modernization and synchronization with GPS space and operational control segments to oversee GPS management and planning activities to meet Joint Capabilities Integration and Development System (JCIDS) requirements. The NII program also supports alternative positioning, navigation, and timing (PNT) capability policy and guidance to augment GPS. Additionally, the program supports the DoD's PNT Oversight Council and interagency activities under the National Space-Based PNT Executive Committee and related electromagnetic spectrum (EMS) enterprise activities.

In support of the National Defense Strategy, resilient PNT and GPS services provide the joint force and key U.S. allies with a battlespace PNT advantage. Resilient PNT provides enhanced lethality through precision targeting, exacting intelligence, surveillance, and reconnaissance (ISR), efficient logistics, blue force tracking, and other force enhancements employed by the joint force, U.S. allies, and coalition partners. The joint force is modernizing PNT capabilities to use the new GPS M-code signal and incorporate alternative PNT information via a modular open systems approach (MOSA) to reduce legacy systems dependency.

The integrated planning and management project encompasses the National Leadership Command Capabilities Management Office's (NMO) responsibilities to establish national command capabilities development, interoperability, standards, and architecture policy and oversight. The NMO serves as the DoD's policy, long-range plans, programs and budget, integrated mission advocacy, and decision-maker capabilities point of contact. 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 White House Military Office OSD advocate, to oversee the wide range of DoD command, control, and communications (C3) assets and military department, defense agency, and field activity critical and sensitive C3 capabilities design, integration, and deployment. Two overall focus areas 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.

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| B. Program Change Summary (\$ in Millions) | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 9.449 | 10.504 | 8.650 | - | 8.650 |
| Current President's Budget | 9.103 | 10.504 | 8.580 | - | 8.580 |
| Total Adjustments | -0.346 | 0.000 | -0.070 | - | -0.070 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.346 | - | | | |
| • Program Adjustments | - | - | -0.070 | - | -0.070 |

Change Summary Explanation

FY 2024 program adjustments due to re-phasing based on prior year execution balances.

| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|--|----------------|----------------|----------------|
| Title: Support to Networks and Information Integration (NII) | 9.103 | 10.504 | 8.580 |
| FY 2024 Plans: | | | |
| Oversee GPS/PNT management and planning activities to meet warfighter requirements. Manage DoD PNT Oversight Council activities, supporting structure, and support the National Space-Based PNT Executive Committee. Support activities include: | | | |
| - Manage the PNT Security manual (DoDM-O4650.11). | | | |
| - Continue implementing the GPS protection profile matrix from navigation warfare (NAVWAR) concept of operations in conjunction with warfighting operation plans (OPLANs) and concept plans (CONPLANs) in coordination with U.S. Space Command (USSPACECOM). | | | |
| - Manage the PNT Navigation Warfare instruction (DoDI 4650.08) and all OPLAN and CONPLAN annexes, in coordination with U.S. Strategic Command (USSTRATCOM). | | | |
| - Manage National Airspace System activities affecting PNT with the U.S. Air Force and Federal Aviation Administration. Continue implementing Red Key Sundown policy. | | | |
| - Provide staff support, perform research, and conduct studies as directed by the Deputy Secretary of Defense in her role as the National Space-Based PNT Executive Committee co-chair and for DoD CIO in his role as co-chair of the Space-Based PNT Executive Steering Group, including EMS access activities. | | | |
| - Apply NAVWAR concepts of operation via the Joint Navigation Warfare Center and USSPACECOM to develop doctrine, tactics, techniques and procedures, training, equipment validation, and material solutions to the military departments and combatant commanders, addressing NAVWAR challenges defined in OPLAN and CONPLAN scenarios. | | | |

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| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|----------------|----------------|----------------|
| <ul style="list-style-type: none"> - Provide oversight and guidance on the DoD PNT investment strategy to ensure PNT material solutions development are synchronized in JCIDS, the Defense Acquisition System, and the planning, programming, budgeting, and execution process. - Implement PNT and NAVWAR policy instructions, PNT systems compliance with NAVWAR requirements and PNT Security manual. - Analyze and promote alternative PNT delivery to include in the force protection structure. Assist developing MOSA standards to field alternative PNT and develop alternative PNT modeling and simulation tools. - Task the intelligence community to assess GPS threat vectors and other PNT delivery means; conduct operational assessments to reveal gaps in PNT delivery against OPLANs and CONPLANS; and refresh PNT equipment maintenance. - Develop directives, instructions, and manuals to implement the PNT Strategy within the Department. - Continue special tasks directed by DoD CIO to accelerate development and fielding of advanced GPS receivers in the joint force. - Maintain and update existing GPS receiver equipment inventory, to include antennae, antennae electronics, and PNT delivery via other-than-GPS equipment. - Address prioritized platforms in fielding plans and guidance to military departments. - Develop MGUE “roadmap” illustrating necessary joint force fielding milestones. - Administer the PNT Oversight Council and PNT Executive Management Board within DoD via supporting directives and instructions, meeting agendas and minutes, task disposition and the PNT Oversight Council annual report. Chair and manage subordinate PNT and NAVWAR working groups. - Address North Atlantic Treaty Organization (NATO) PNT interoperability via standardization agreements, allied navigation plans, and associated documentation in the Navigation/Identification Capability Panel (CaP-2) under the NATO Consultation, Command, and Control Board direction. Ensure complementary allied equipment and planning based on U.S. Air Force GPS development, open systems architecture development, and foreign PNT systems and capabilities. - Ensure cybersecurity of all DoD PNT enterprise elements. Assist other federal departments and agencies, as required. <p>Provide oversight and guidance on maritime information systems (MIS) and submarine fiber optic cables (SFOC) and associated infrastructure. These activities encompass requirements analysis, 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 MIS and SFOC capabilities acquisition, planning, procurement, installation, operations, and sustainment.</p> <p>Provide senior leader C3 systems and platforms technical expertise and oversight, including White House, Secretary of Defense, Chairman of the Joint Chiefs of Staff, and other senior leader fixed and mobile communications capabilities. These activities</p> | | | |

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| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|----------------|----------------|----------------|
| consolidate senior leader operational mission requirements, identify communications capability shortfalls and interoperability issues, assess equipment performance issues, and explore future communications improvements. FY 2025 Plans: Continue base program initiatives from prior budget year. FY 2024 to FY 2025 Increase/Decrease Statement: The FY 2024 to FY 2025 decrease is due to research and technical assessment reductions that inform DoD CIO on new operational, policy, and technology concepts. The decrease will also scale down capability assessments that guide the portfolio's sustainment, modernization, and optimization. The portfolio includes mission applications, services, communications transport (terrestrial, aerial, and satellite-based) systems, information sharing, PNT, cloud computing, and computing network capabilities across the full spectrum of DoD operations | | | |
| Accomplishments/Planned Programs Subtotals | 9.103 | 10.504 | 8.580 |

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

N/A