

MISSILE

A Digital Platform for Surface Combat Systems Center (SCSC)



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Topic Number: N193-A01

SYSCOM: Naval Sea Systems Command (NAVSEA)
www.navsea.navy.mil

Program Sponsor: PEO SHIPS

Other Potential Programs:

Naval shipyards, other land-based test sites, supervisor of shipbuilding (SUPSHIPS), Surface Maintenance Engineering Planning Program (SURFMEPP), SEA 21, NAVSEA PEOs to include Unmanned and Small Combatants (USC)

Current TRL: 7

Projected TRL: 9 / Q2 2024

Keywords:

Digital Transformation, Infrastructure, Sustainment, Mission Readiness, Situational Awareness, Artificial Intelligence/Machine Learning

Innovation Center at 2022 Navy Gold Coast



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THE CHALLENGE

The Navy must reliably operate, maintain, and sustain the vast shore-based infrastructure critical to testing and fielding evolving Naval capabilities. This challenge includes the need to coordinate and operate across multi-functional teams and processes, while streamlining day-to-day operations of multiple configurations and testing cycles. Furthermore, there is an unrealized opportunity to apply Artificial Intelligence (AI)/Machine Learning to continuously improve operations.

THE INNOVATION

The key innovation is the digital transformation of shore-based operations. The Multiple Systems Status Information Logistics & Equipment System (MISSILE) streamlines the management of multiple lines of high-value assets, combat systems, and platform sensors. While improving performance and increasing operational capacity, MISSILE drives the ability to be both nimble and responsive to Fleet needs. With highly flexible deployment and data integration capability, MISSILE allows silent data from stovepiped resources and cross-functional teams to become actionable while reducing and eliminating paper-based processes. The system enables near real-time visibility into equipment status and availability while interfacing with legacy scheduling tools and Navy logistics systems. By digitizing shore-based operations, MISSILE enables the Navy to provide an enhanced testing & evaluation capability directly supporting the SCSC mission to strengthen the Fleet.

THE NAVY BENEFIT

The capacity-improving aspects of MISSILE enable SCSC to better schedule and deliver the test, evaluation, and training events necessary to prepare surface ships for deployment. Overarching benefits include: efficiency gains; AI-informed decision-making; reduced software sustainment and deployment costs; codification of Subject Matter Expert knowledge; increased situational awareness; and improved readiness, responsiveness and reliability. MISSILE is an Open Architecture Framework, utilizing industry-standard microservices and containerization with native risk management framework (RMF) controls. MISSILE leverages previous investments in digital platforms for the Navy, reducing risk and leading to a quickly usable product.

THE FUTURE

MISSILE is an agile, flexibly configurable technology that will continually advance the capabilities of sustainment as it transitions to SCSC Wallops, other Land Based Test Facilities, and organizations responsible for the sustainment of high-value equipment and facilities. The acquisition path includes SBIR Phase III funding for ongoing development, services, and licensing as well as leveraging dual use in global markets.