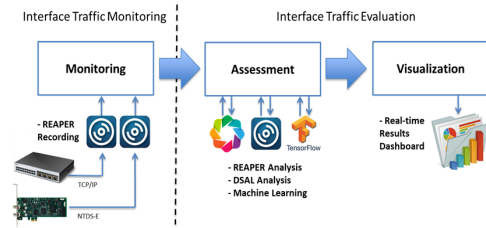


WHO

**SYSCOM:** NAVSEA  
**Sponsoring Program:** PEO IWS 5.0  
**Transition Target:** AEGIS + SQQ89  
**TPOC:** (202) 781-4233  
**Other Transition Opportunities:** Other tactical interfaces with AEGIS, submarine platforms.

**Notes:** REAPER: Recording, Extraction, Automated Playback, Event Reconstruction - Provides live data recording and provisioning to automated analysis subsystems  
DSAL: Data Science Analysis Library - Executes model-based analysis in real-time



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WHAT

**Operational Need and Improvement:** The Navy requires a real-time integration analysis tool to perform combat system interface testing to reduce testing time and cost associated with integration.

**Specifications Required:** A real-time monitoring, visualization, and assessment software tool to detect interface errors.

**Technology Developed:** Interface Traffic Monitoring and Evaluation (IT-ME) software tool capable of performing interface monitoring, visualization, and assessment of combat system applications.

**Warfighter Value:** The IT-ME will perform interface monitoring, visualization, and assessment in real-time so root-cause analysis can happen in real-time, reducing the cost and time associated with integration, test, and certification efforts .

WHEN

**Contract Number:** N68335-22-C-0098      **Ending on:** Jan 25, 2024

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Demonstration of integrated system in unclassified environment	N/A	Verified correct operation of data pipeline and subsystem interfaces	4	3rd QTR FY23
Integration of system in classified environment	Low	Demonstration of analysis execution on real-time data from tactical subsystems	5	1st QTR FY24
f Option exercised, fit-for-use certification in classified environment	Medium	Verification and refinement of automated analysis in conjunction with government and SME stakeholders	6	TBD

HOW

**Projected Business Model:** Given the close relation of the IT-ME solution to tactical hardware, a partnership with appropriate prime contractors will be needed. IDT is currently working with Lockheed Martin as we work towards our transition target.

**Company Objectives:** Develop an innovative, rapid, iterative capability to monitor, visualize, and assess combat system interface traffic in real-time during integration and testing of combat systems.

**Potential Commercial Applications:** IT-ME is easily tailored commercial applications with complex but well-defined interfaces. IDT is planning to conduct a SWOT analysis to identify target systems.