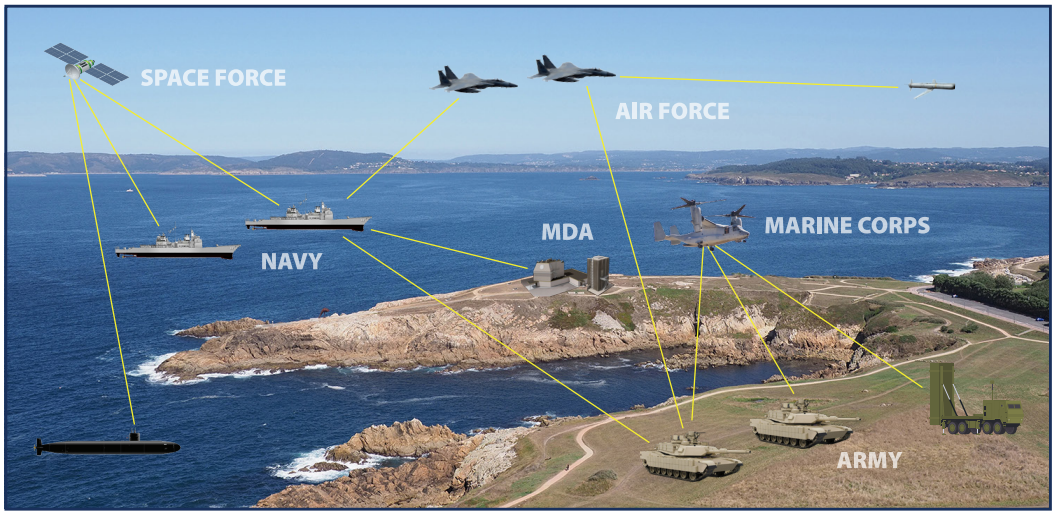
ATRT RAPID CAPABILITY SYSTEM INTEGRATOR

Mission Statement

IDT delivers disruptive innovation with discipline which dramatically improves the quality and accelerates the delivery of capability to the warfighter.

IDT Delivers on a Rapid Capability Path

IDT accelerates the integration and testing of complex defense systems, seamlessly combining legacy and next-generation technologies from traditional and non-traditional partners. As an independent rapid capability integrator, IDT ensures interoperability and adaptability, reducing the time to deliver new capabilities by over 90% on average. We achieve this through highly automated processes and advanced technology, enabling systems to constantly learn, adapt, and rapidly deploy advanced capabilities such as artificial intelligence – keeping warfighters ahead of evolving threats.



IDT's Unique Technologies

ATRT Enterprise Platform (AEP): Provides on-demand access to Virtual Operational Units – Strike Groups, Divisions, Wings, Brigades – for integration and interoperability testing and analysis. Automated Test and Re-Test (ATRT) is a series of automated test and analysis technologies. The AEP, a building block for digital engineering, supports unstructured data management and AI/ML testing.

Edge Analytics: Conducted on in-theater platforms, system performance analysis and real-time network analysis are integrated with network visualization, data management, and event reconstruction. Post-event automated analysis based on user and operational requirements generates reports, plots, and objective quality evidence (OQE).

Edge Virtual Twins: VTwins, operating at the edge in parallel with legacy systems, deploy tactical capability in theater without the need to change existing legacy software code, while providing a comprehensive capability for rapid system integration, testing and analysis.

Universal Data Adapter: Established on Universal Command Control principles, a common API and middleware service to allow systems not originally designed to interface together, such as sensors, weapons, and command and control (C2) systems, to interoperate.

IDT
INNOVATIVE
DEFENSE TECHNOLOGIES

UNIQUE TECHNOLOGIES

- ATRT Enterprise Platform
- Edge Analytics
- Edge Virtual Twins
- Universal Data Adapter

8 Patents Awarded

Non-Traditional Contractor

Headquarters:
Arlington, VA

Offices:
Mount Laurel, NJ
Fall River, MA
San Diego, CA

idtus-website@idtus.com

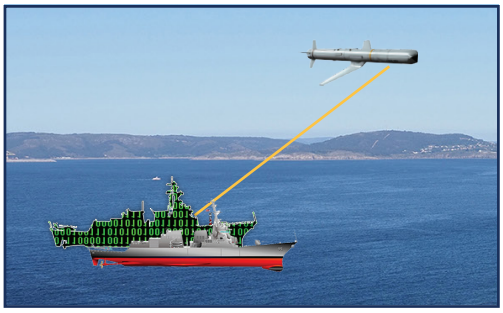
www.IDTus.com

www.linkedin.com/company/idtus/

ATRT RAPID CAPABILITY SYSTEM INTEGRATION SUCCESSES

IDT leads the way in integrating complex and disparate defense systems, delivering transformative results. Through advanced technology and automation, IDT accelerates system modernization, ensuring seamless interoperability and peak performance. With a proven track record of innovation and speed, IDT enables defense platforms to rapidly evolve and maintain mission superiority. Explore our success stories to see how IDT is making a lasting impact.

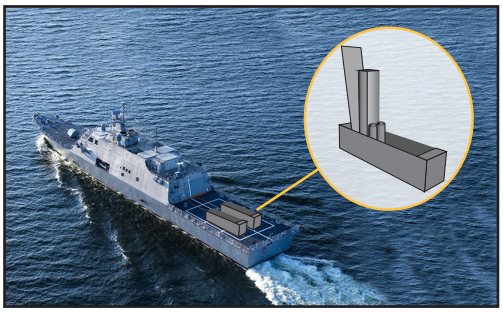
Reduced Integration to Live-Fire Time by 75% – from 2 Years to 6 Months



Counter Unmanned Aerial Systems (CUAS)

In 6 months, IDT demonstrated exceptional capability by integrating Navy sensors through a virtual AEGIS twin (VTwin) with 3 new CUAS effectors deployed on a DDG. These effectors were produced by the Army, Navy, and 1 non-traditional defense contractor. This was made possible by utilizing IDT's UDA, which serves as a common interface across various APIs and middleware, seamlessly sending track data through 3 different command and control systems to complete the CUAS mission.

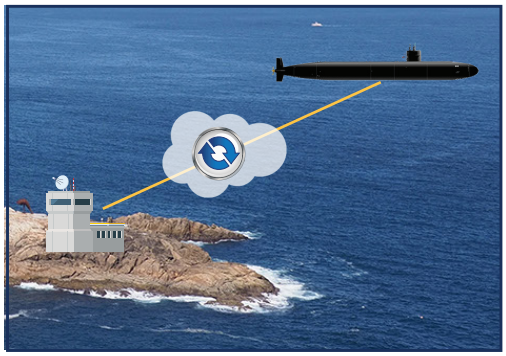
Enhanced Missile Capabilities: 7+ Operational Kill Chains Unveiled



Mid and Long-Range Missile Capabilities

IDT demonstrated its exceptional integrative capabilities by utilizing its UDA, and virtual AEGIS twin to synchronize Army, Navy, and Marine Corps systems, establishing 7+ novel kill chains. This integration significantly enhanced both offensive and defensive missile capabilities in multi-theater environments. By working with 3 major primes and 3 non-traditional contractors, IDT facilitated seamless communication and critical data exchange across diverse platforms, contributing to a robust, layered Integrated Air and Missile Defense architecture.

Boosted Fleet Support Efficiency by 90+%: Cut Time from Weeks to Hours



Tactical System Updates and Certification

By recreating tactical issues in the AEP, Navy support team wait-times were cut from 2 weeks to 1 hour, greatly improving fleet readiness by removing the need to recreate issues in labs or pier-side. Accessible via a classified cloud, IDT's AEP enables data playback, hardware emulation, and simulation, with availability to hundreds of government and industry users for rapid updates. Submarine Learning Centers in Groton, CT and San Diego, CA will leverage AEP for Modernization Training, giving hundreds of sailors hands-on experience with the software they will deploy.

Decreased Mission Analysis Time 95% with Automation

Combat System Performance Analysis

At a land-based test site, ATRT was used in real-world performance analysis of recent operations to reduce the timeline from over 1 month to just 1 day. This capability is deployable on edge platforms, enabling pre-mission configuration validation and the production of quick look reports within 15 minutes of an event. By pushing this directly to operational platforms, commanders can rapidly assess performance, accelerate decision-making, and sustain mission readiness.