

Automated Digital Network Systems (ADNS) for NIWC PAC

NIWC PAC awarded Automated Digital Network Systems (ADNS) contraction to SOLUTE, a Sigma Defense company, in November 2020 to provide system, network, cyber, software engineering and program management services

ADNS is the Tactical Internet Protocol (IP) Routing and Switching system for all Wide Area Network (WAN) IP services, which connect afloat and undersea units to the various global ADNS shore sites. ADNS provides ship, to sub to shore IP connectivity and promotes the efficient use of available satellite and line of sight communications bandwidth. ADNS is engaged in converging all voice, video, cyber and data communications between ship, sub, and shore allowing for transmission of data efficiently and securely. ADNS automates the routing and switching of tactical and strategic Command, Control, Communications, Computer, Intelligence (C4I) data via Transmission Control Protocol/Internet Protocol (TCP/IP) networks linking deployed battle group units with each other and with the Defense Information Systems Network (DISN) ashore.

SOLUTE is proud to support the NIWC PAC ADNS mission of conducting research, development, engineering, and support of integrated (C4I), cyber and space systems across all warfighting domains, and to rapidly prototype, test, evaluate, and deliver in service engineering support.

Why ADNS for NIWC PAC:

- ▶ Improve the Navy's Tactical Wide Area Network (WAN) solution
- ▶ Enables C4I in Naval/Joint/Coalition operations and serves as an entry into the Department of Defense's Information Networks (DoDIN)
- ▶ Provides cleared engineering staff supporting UNCLASS, SECRET, SCI, and Secret Releasable enclaves
- ▶ Supports multiple ADNS tactical transport, fielded systems, external networks, configuration management, cybersecurity, and unmanned aerial systems engineering task orders at TS/SCI Level

SOLUTE ADNS Customers:



Department of
Defense



Department of
the Navy



Navy PEO



Navy Air Systems
Command



Unmanned Carrier
Aviation



PMW 160 Tactical
Afloat Networks

How SOLUTE Delivers:

► Enables engineering, technical, and programmatic services

- Route data between ashore, afloat, and airborne networks
- Improve operations with end-to-end tactical transport solutions
- Deliver access to the Tactical WAN for US Navy IP Networks

► Supports cross-functional mission execution for

- Anti-Submarine Warfare (ASW)
- Ballistic Missile Defense (BMD)
- Close Air Support (CAS)
- Commander Joint Task Force (CJTF)
- Intelligence, Surveillance and Reconnaissance (ISR)
- Maritime Domain Awareness (MDA)
- Navy Networking Environment (NNE)

► Ensures Quality of Service (QoS)

- Tactical transport engineering solutions
- Information assurance validation
- WAN integration and testing
- Fleet installation and operational support

► Proven Technical Execution

- Develop, demonstrate, and test concepts to ensure high quality capabilities, products, and results
- Design, build and integrating system and software improvements
- IP convergence and WAN optimization
- Enable the development of interoperable WAN capabilities
- Incorporate the adoption of future technologies

ADNS At-a-Glance:

- ADNS Contract #: N66001-21-D-0010
- ADNS Prime Contractor: SOLUTE, a Sigma Defense Company
- NIWC PAC Code 551 Engineering Support Award
- ADNS Period of Performance end date: November 29th, 2030
- Point of Contact:

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About Sigma Defense:

Sigma Defense Systems is a leading technology company serving the Department of Defense (DoD), providing tactical communications systems and services for digital modernization since 2006. Through our acquisition of SOLUTE in 2022, we have broadened our portfolio of solutions and services to include JADC2, C5ISR, SATCOM and DEVSECOPS for customers in the Army, Navy, Air Force, Marine Corps and Space Force. Through our software-focused approach we provide a platform and tools that accelerates information collection and sharing for faster decision making and better mission outcomes. Customers turn to Sigma Defense for engineering, program management, and logistics services for technical solutions that encompass ground, air, and space-based systems and sensors and network and satellite communications. We enable faster access to data and intelligence from edge to core to cloud for better insights for everyone in the decision-making process. Sigma is headquartered in Perry, GA with satellite offices both CONUS and OCONUS. Visit www.sigmadefense.com and follow Sigma Defense on LinkedIn for news and updates.