

Defense Information Systems Network (DISN)

An Essential Weapon for the Nation's Defense

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DISN's Strategic Focus

Extending the American Warfighter throughout the World

- * A global enterprise network that enables information superiority and critical communications
- * The core of the Department of Defense (DoD) Information Network (DoDIN)
- * A combined campaign of DoD owned and leased telecommunications networks, undersea and terrestrial transport, satellites, gateways, multinational coalition information networks, subsystems, and operations support to:
 - <u>Enable</u> the U.S. Military and mission partners to leverage, sustain and exercise the distinct advantages over our adversaries by ensuring that the voice, video and data traversing the DISN are immune from unfriendly attacks and are able to operate in a degraded environment
 - Support command and control, intelligence, logistics, medical, and other essential missions across the full spectrum of military operations
 - Connect Warfighters with each other and their sustaining bases; U.S. Forces to their coalition partners; and DoD to intelligence, federal, state, and local agencies
 - Integrate & Deliver capabilities fluidly across domains, ranks, U.S. Territories and Allies.

DISN's Operational Focus





Deliver Senior Leadership Command and Control and Cybersecurity Sovereignty



Allow Commanders to conduct Joint Operations through a resilient, robust, secure and normalized network



Support Warfighter missions by providing access to a global network that is virtual, intelligent, consolidated, secure, elastic, provisioned and managed in real time



Homeland Defense Drug Interdiction USSOUTHCOM/ USNORTHCOM

Jukebox Lotus/ Juniper Micron/ Juniper Nimbus USAFRICOM



Inherent Resolve, Iraq/ Syria USCENTCOM

Freedom Sentinel, Afghanistan USCENTCOM



Resolute Support, Afghanistan USCENTCOM

Operation Gladiator Shield USCYBERCOM



The Unblinking Eye USSOCOM

Atlantic Resolve USEUCOM



White House Federal Government **Executive Branch** Communications Southern Command Agency Office of Personnel Africa Command Military Services Management National Security Office of the Council Pacific Command President (e.g., Situation Room) Army BEEN AND THE BEEN European Command Navy Northern Command Air Force Transportation Command **USMC** Strategic Command Central Command **Special Operations** Defense Defense Finance Command Defense Health **Defense Logistics** Intelligence and Accounting Agency Agency Agency Service Cyber Command Plus 14 other DOD Agencies & 9 Field Activities **Combatant Commands**



DISN

\$24 Billion Commercial Equivalency Network Infrastructure

Network Portfolio

- Terrestrial Transport
- Gateways
- Multi-National Information Sharing
- Senior National Leadership Communications
- Special Services



SATCOM Portfolio

- Gateway & Teleport Programs
- Enhanced Mobile Satellite Services
 - Unified Video Dissemination System - Airborne Intelligence, Surveillance, and Reconnaissance
- Digital Intermediate Frequency
- Path Finders
- Commercial SATCOM





DISN Grand Design – Evolution Vision

FY 2023

United In Service

- ✓ Centralized global management framework focused on the warfighter
- ✓ Expanding the service portfolio to meet changing mission needs
- ✓ Enhanced situational awareness providing superior cyber security and perimeter protection against threats

Connecting The User

- ✓ Access to any data, any device, anywhere
- ✓ Single point of entry
- ✓ Global, high bandwidth satellite coverage
- ✓ Encrypted & protected data
- ✓ High bandwidth & secure Internet and telephone network access

Evolving The Network

- ✓ Service layer converged on a common resilient IP core
- ✓ Dynamic congestion control and enhanced network quality of service
- Auto-provisioning and network function virtualization
- ✓ Resilient & survivable network infrastructure
- ✓ Next generation self-recovering optical transport network
- ✓ Transport layer security via DISN edge-to-edge encryption
- √ 400 Gbps link capacity
- ✓ Integrated, automated IP-optical network capacity management

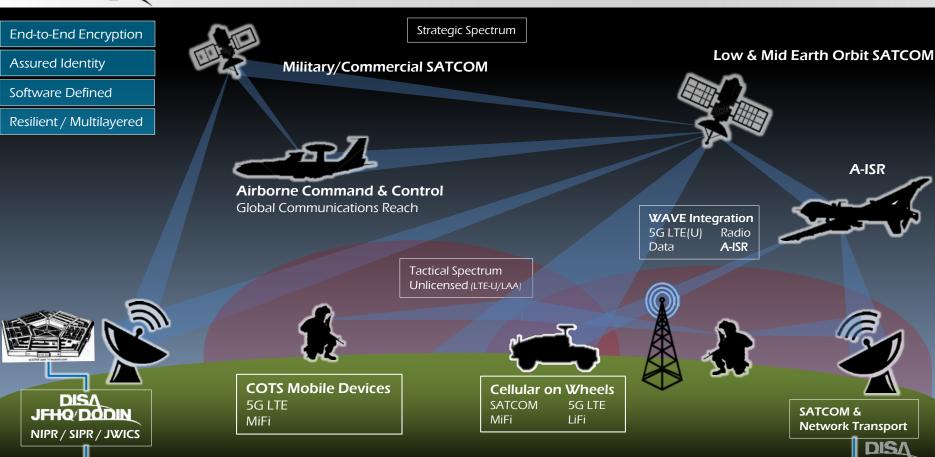
Emerging DISN Services

- ✓ Everything over IP (EoIP) Service
- ✓ High Data Rate Wavelength Service
- ✓ Bandwidth Calendaring
- ✓ On Demand Capacity
- ✓ High Data Rate SATCOM Service
- ✓ Virtualized Network Function Service



DISN Transport of the Future

From the Foxhole to the Pentagon: Leveraging Industry-Proven Capabilities for Terrestrial, Airborne & Space

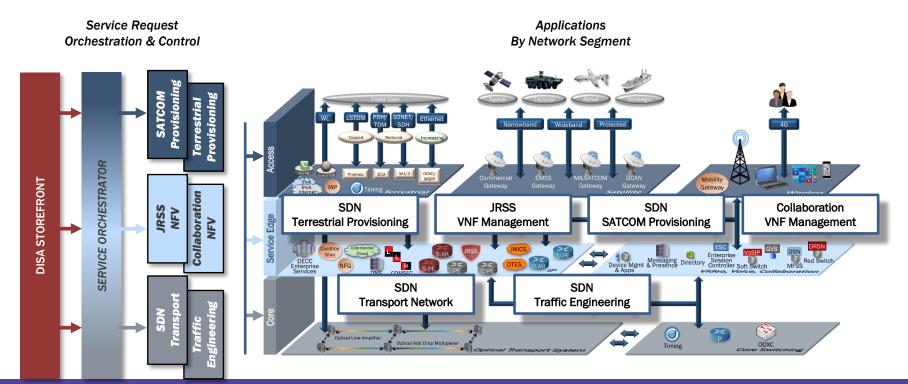




DISN Software Defined and Virtualized

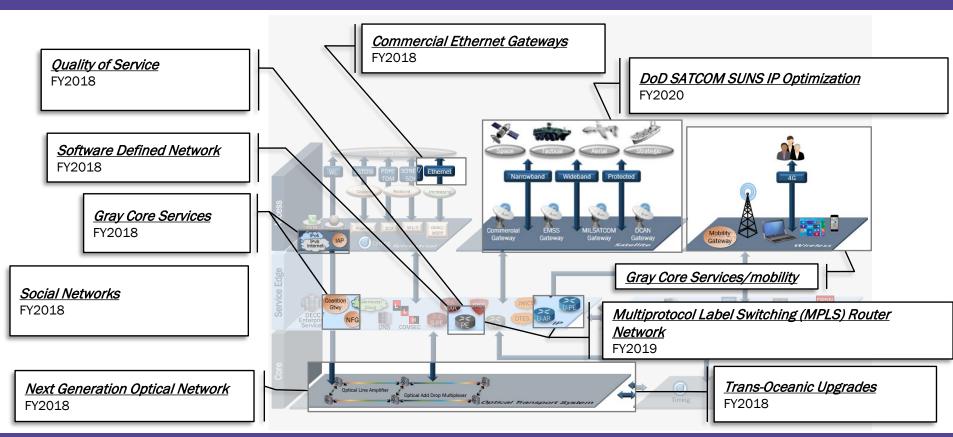
Applications and Required Orchestration & Control Architecture

<u>Software Defined Network (SDN) & Network Function Virtualization (NFV)</u>



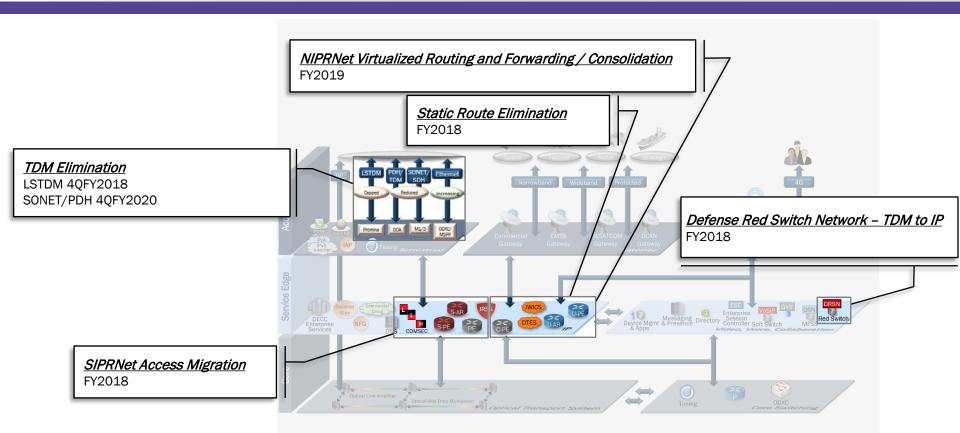


1 - DISN Enhancements



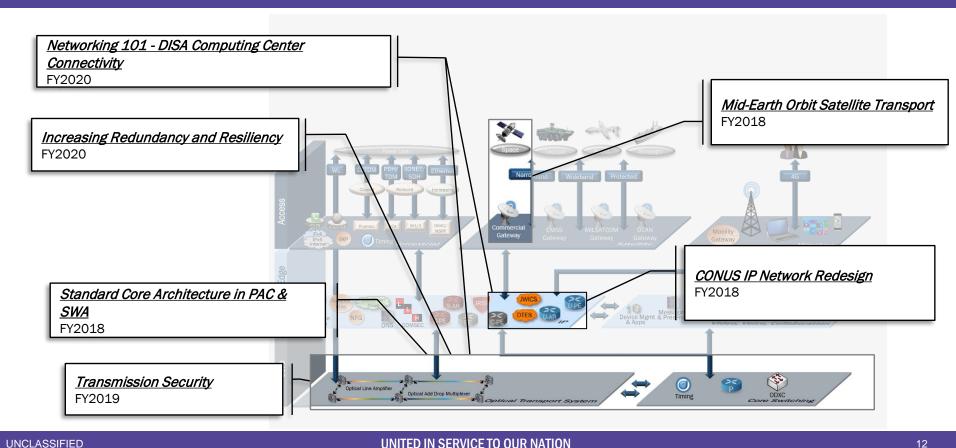


2 - Legacy Elimination



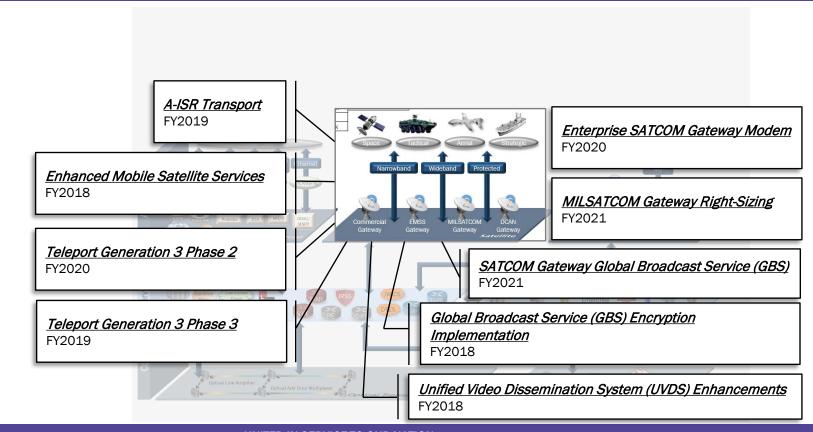


3 - Survivable Infrastructure



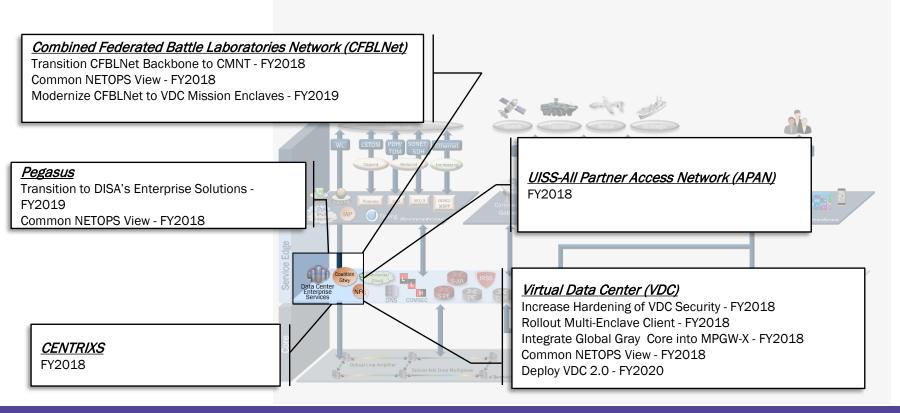


4 – Satellite Improvements



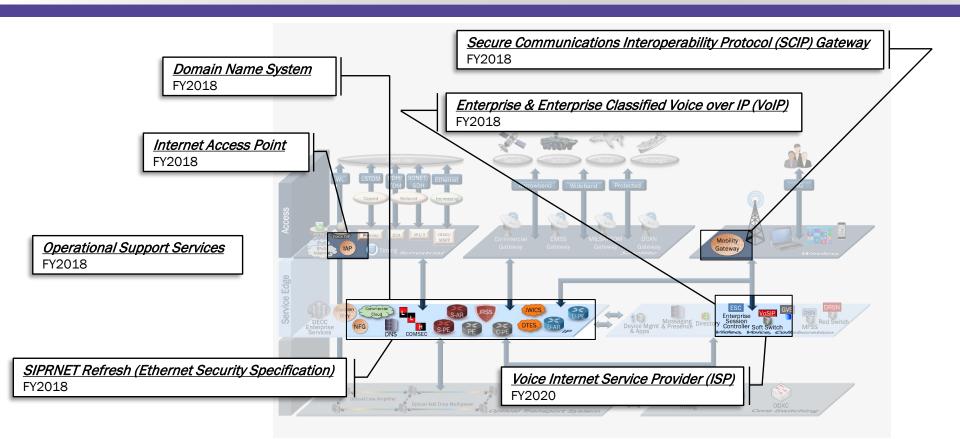


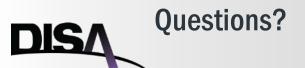
5 – Coalition Information Sharing





6 - DISN Technology Refreshment







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DEFENSE INFORMATION SYSTEMS AGENCY

The IT Combat Support Agency





