DISN Evolution

TDM Elimination

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Coordinate, synchronize, and direct agency enterprise capabilities
Provide a network of operations centers
Provide end-to-end service management
Enterprise Infrastructure and Services

Robust, diverse, resilient, and protected communications and computing environment enabling the warfighter
DISN Evolution

Core Evolution
- Deploying 100G Optical Transport
- Eliminating Legacy Technology Using Packet Capable Optical Switches

Access Evolution
- Providing Virtual Private Networks
- Protecting the Boundaries
- Providing Gateways for Mission Partners

Critical Infrastructure Enhancements
- Providing Access to Government and Commercial Cloud Services

Operations
- Improving Resiliency (Always On) with Software Defined Networking
- Consolidating Operational Support Systems
- Improving Security with Total Bandwidth Encryption
DISN Evolution
Overview and Objectives

- DISN Overview
  - Multi-Layered and supports All Domains
  - Strategic focus – Supports Mission Goals for the Department

- Objectives
  - Network resiliency – Consolidate network layers
  - Hardening – Leveraging commercial encryption technologies
  - Reduced network complexity
  - Improved agility – Support changing mission needs
    - Rapid deployment and “on the go” configuration changes
Multiple Technology Layers spanning Terrestrial, Satellite and Wireless
- TDM present across all Infrastructure
- Duplicate technology layers to support same capability

Services
- “Dedicated” service is predominant
- IP / MPLS based services available – Adoption increasing with DISN users
- VoIP based services available – Adoption increasing
Reduced Technology Layers

• Dedicated Transport Network layer is eliminated including the “Low Speed” TDM components
• Reduced network complexity
• Improved network resiliency

Services

• Wide adoption of MPLS VPN Services
• “Dedicated” service use is drastically reduced
• Greater adoption of VoIP based services
Optimization and Network Convergence Activities

- **Legacy and “Low Speed” TDM Eliminated – EoFY18**
  - Infrastructure and Services – DATMS, Red Promina and Promina
  - Technical Outreach – Help customers migrate to MPLS VPN Services; Solution Options

- **Commercial Ethernet Gateways – FY18**
  - Dramatically reduce TDM requirements – T-1s, DS-3s
  - Leverage CSP Networks with Ethernet hand-offs for DISN access

- **Complete MPLS Network Footprint Deployment – FY18**
  - Coordinated IP Optimization efforts to migrate customers from Point 2 Point (Dedicated) services to MPLS VPN Services
  - Elimination of legacy IP technology Layers; Reduce TDM footprint
  - Continue Technical Outreach to DoD User Community – Important for MPLS services adoption

- **Complete SUNS-T architecture deployment**
  - Seamless and ubiquitous availability of DISN services to Warfighter
Improve Customer Adoption of modern MPLS and VoIP Services

- **Expand Technical Outreach**
  - Extremely successful and vital with customer migrations from LSTDM Technologies and Services; Good participation from DISA FO and Component circuit management offices
  - Expand cross-functional team – Joint leadership with MPEO, Other DISA stakeholders and Key stakeholders from Components
  - Vital for adoption of MPLS and VoIP services

- **Improved service fulfillment capabilities**
  - Request fulfillment systems evolving with significant automation and integration into DISN Operational Support Systems
    - Enables for improved capacity planning and forecasting
  - Automate and Simplify the RF / RD process – Some are internal and some exposed to DISN user
    - Eliminate or automate fulfillment steps; Reduce service activation setups through automated Implementation Requests

Establish Targeted Working Groups with participation from the user community – More to follow
follow us
rate us
visit us
take the 3-question survey available on the AFCEA 365 app
DISA Booth # 443
Facebook/USDISA
Twitter/USDISA