DISCLAIMER

The information provided in this briefing is for general information purposes only. It does not constitute a commitment on behalf of the United States Government to provide any of the capabilities, systems or equipment presented and in no way obligates the United States Government to enter into any future agreements with regard to the same. The information presented may not be disseminated without the express consent of the United States Government.

Network Modernization
Future Strategy for DISN

Bryon Doyle
Technical Director – Infrastructure
2020 AFCEA TechNet

Defense Information Systems Network - Today

- **Supports global DoD communications infrastructure**
  - **Fielding as Global Information Grid – Bandwidth Expansion (GIG-BE), circa 2003**
  - **Modernizations associated with Joint Information Environment (JIE), circa 2011**

- **Global reach and capabilities**
  - **Supports DoD and Allied Nations on a global scale**
  - **Terrestrial, satellite gateways and expeditionary capabilities**
  - **Core technical areas: network infrastructure, secure gateways and control systems**

- **'Personas' of the DISN**
  - **Global Telecommunications Provider for DoD → Providing secure, always on telecommunications services to mission users**
  - **Large Enterprise (.mil) Network → Support for over 3M users**
  - **'Content Provider' Network → Ensuring secure delivery of cloud capabilities to DoD**

Modernization Strategy - Future

- **Priority #1:** **Clear 'Technical Debt' from core infrastructure**
  - Removal of legacy technologies from core infrastructure
  - Support delivery to customers, remove legacy from backbone

- **Priority #2:** **Ensure 'Cloud Ready' infrastructure**
  - Seamless interconnections to cloud providers
  - Ensure secure, unconstrained movement of data between DoD and cloud providers

- **Priority #3:** **Alignment with current commercial modernization trends**
  - Leverage global network expansions associated with 5G, Fiber Deep Networks, etc.
  - Ensure supplier engagement is framed with current terms
  - Application of modern automation, instrumentation technologies to network infrastructure

Modernization Strategy – Enabling Technologies

- **Automation and control infrastructure**
  - **Complexity of environment exceeds standard human processing → required**
  - **Enables rapid provisioning of services to meet user demand**
  - **Ensures DISA can meet Service Level Agreement (SLA) thresholds**

- **Network Capacity**
  - **Increases to 400G/800G optical capability**
  - **Increases to 400G routed infrastructure**
  - **Expansions of existing infrastructure**
  - **Access to 'on-demand' capacity services**

Modernization Strategy – Conclusions

- **DoD Network infrastructure of tomorrow**
  - **Always On → Robust, diverse global footprint to meet DoD mission needs**
  - **Seamless Connectivity → organic connections to cloud providers**
  - **Fully Automated → Use of software automation tools to assist network**
  - **Instrumented → Ability to provide real time visibility of network infrastructure**
  - **Secure → Commitment to cyber security, ensure mission readiness**

- **Contact Info**
  - **Infrastructure Executive Front Office**
  - **Email: disa.meade.ie.list.ie-front@mail.mil**
  - **Phone: 301-225-2000**

DEFENSE INFORMATION SYSTEMS AGENCY
The IT Combat Support Agency

🖥 **www.disa.mil**   f **/USDISA**   🐦 **@USDISA**