Defensive Cyber Operations

Director, DISA – Commander JFHQ - DODIN

Lieutenant General Ronnie D. Hawkins, Jr.

16 June 2015
Cyber Innovation

Moore’s Law: The number of transistors per square inch doubles every 2 years

Metcalf’s Law: Value is proportional to the number of connected users
Modernizing Weapon Systems

1900-1940's
1950-1960's
1970-1990's
Today
2020
Normalizing to Coexist in Cyberspace
Defensive Cyberspace

Senior Leader Focus

• “Growing threat cyber poses to our national security”…Sec Def Carter
• “Current environment is uncertain” ADM Rogers
• “Top imperative: warfighters have the right cyber capabilities”…Mr. Halvorsen

Current Cyber Landscape

• Barrier to entry is low and unchallenged
• Insider threat and malicious attacks
• Equivalent to pre-WWII days

Defensive Cyberspace Operations

• Apply the Principles of Warfare
• Focus on speed, agility, and access
• Manage risk inside of execution

Joint Information Environment

• More secure, defendable and responsive integrated network
• Network structure that has a joint global backbone
• Maintain the most agile and resilient networks
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Command & Control

Operational Level - C2 for C2

- Services, Agencies, and Combatant Commands
- Enables Commanders to execute assigned mission
- Over 40 entities make up the DODIN

C2

- Joint Mission
- C2 Function
- Task
- Procedure

C3

- System
- Application
- Infrastructure

Mission Partners

Tactical Level

- Directive Authorities for Cyberspace Operations (DACO)
- Situational Monitoring, Planning, Decision Making, Force Direction, and Force Management
- Supported and Supporting Relationships

JFHQ-DODIN

Counter-value versus Counter-force
Cloud Value

- Volume, Velocity, Value
- Mission-resilient Cloud
- Applications to the Cloud

Cloud Architecture

- CAP Functional Requirements Document
- West/East Meet-me Points Sep 2015
- Full redundancy and On-boarding

Cloud Access Point (CAP)

CAP Roadmap
**Mission Partners**

- Command and Control
- Unified Video Distribution System
- Decreased Decision Cycle
- Impact of Social Media
- Humanitarian/Disaster Response
- The Next “Nepal”

**Past, Present, Future**

- Teletype--Defense Communications Agency *circa* 1960
- Afghan Mission Network--DISA *circa* 2010
- IP, Web-based, Mobile, ???--DISA 2015 & Beyond

**Globally Connected**

- Any Device, Any User, Any Time
- Commercial (hand-held) device(s) of choice
- Novel Technologies
  - Adopt leading edge commercial
- Disruptive Technologies
  - Solving problems no one knew they had

**Raison D’etre**

- Command and Control
- Unified Video Distribution System
- Decreased Decision Cycle
- Impact of Social Media
- Humanitarian/Disaster Response
- The Next “Nepal”

**Way Ahead**

- Any Device, Any User, Any Time
- Commercial (hand-held) device(s) of choice
- Novel Technologies
  - Adopt leading edge commercial
- Disruptive Technologies
  - Solving problems no one knew they had
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DISA Strategic Documents

http://disa.mil

United in Service to Our Nation

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Excellence in Action

Dave Mihelcic
Chief Technology Officer

Sannadean Sims
Director, Resource Management Center/Comptroller

Douglas Packard
Procurement Services Executive

Sharon Jones
Small Business Advocate

United in Service to Our Nation
• DISA exceeded all Small Business goals in FY14
  • $1.6 Billion or 33% of all prime contracts awarded to small businesses

• ENCORE III
  • Final Acquisition Strategy reviews in progress
  • Draft RFP expected to be released in late July 2015
  • Pre-solicitation conference planned for early September, at Ft Meade, MD.
  • RFP expected to be released in early November 2015
  • North American Industry Classification Code 541519, Other Computer Related Services

• Forecast to Industry
  • August 2014 Forecast charts updated with award information
  • Posted at: https://www.ditco.disa.mil
  • Next Forecast is the week of 2 November 2015, at DISA HQs, Ft Meade, MD
DISA Success Stories

Mobile Device Management (MDM)
Mobile Application Store
Secure connection and monitoring for classified and unclassified mobile devices

Global Video Services (GVS)
High-quality video conferencing Internet protocol based VTC service for NIPRNet and SIPRNet

Joint Regional Security Stacks 1.0
Increased visualization, Cyber situational awareness, and the centralization of security and networks

DoD Spectrum Auction
Commercial partnership, boost economic and employment growth in the United States
Way Ahead

Risk Management
Cyber Workforce Development
Industry Partnership
Command And Control

Continued Operational Focus
Mobility & Collaboration

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