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# Defensive Cyber Operations

Director, DISA – Commander JFHQ - DODIN

Lieutenant General Ronnie D. Hawkins, Jr.

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# Cyber Innovation

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



1950's-Today

Metcalf's Law: Value is proportional to the number of connected users



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# Modernizing Weapon Systems



ABC

1900-1940's



UNIVAC

1950-1960's



Desktop

1970-1990's



Web

Today

2020

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# Normalizing to Coexist in Cyberspace

Critical Infrastructure

Banking

Strategy

Command & Control

Policy



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# Defensive Cyberspace



- “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

## *Senior Leader Focus*

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

## *Current Cyber Landscape*

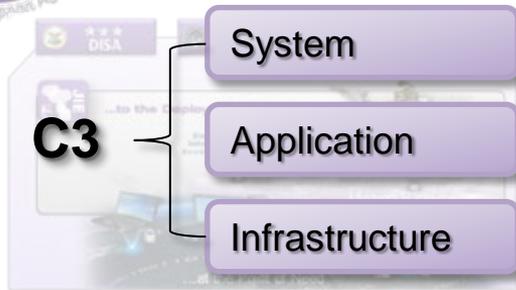
- Apply the Principles of Warfare
- Focus on speed, agility, and access
- Manage risk inside of execution

## *Defensive Cyberspace Operations*

- More secure, defensible and responsive integrated network
- Network structure that has a joint global backbone
- Maintain the most agile and resilient networks

## *Joint Information Environment*

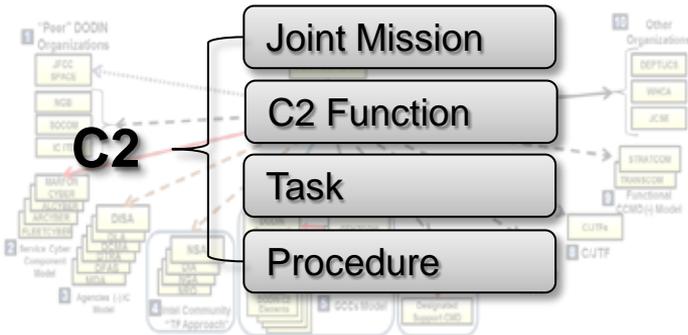
# Command & Control



*Mission Partners*

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

*Tactical Level*



*Operational Level - C2 for C2*

- 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

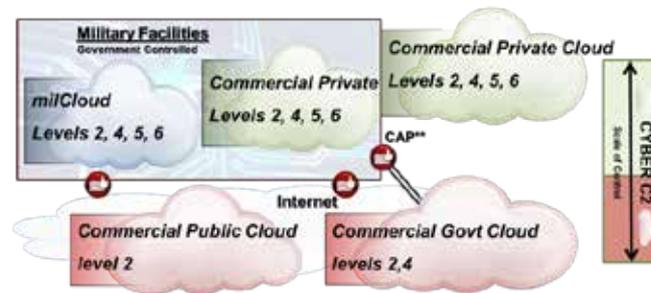




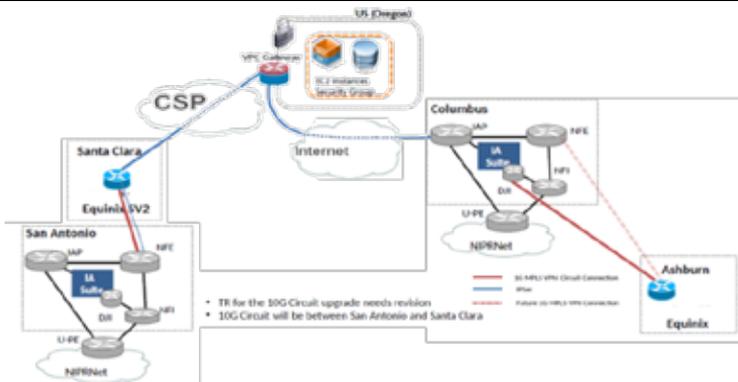
# UNCLASSIFIED Cloud

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

## Cloud Value



## Cloud Architecture



## Cloud Access Point (CAP)

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

## CAP Roadmap

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# Collaboration

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

## Mission Partners

## Globally Connected

## Past, Present, Future

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

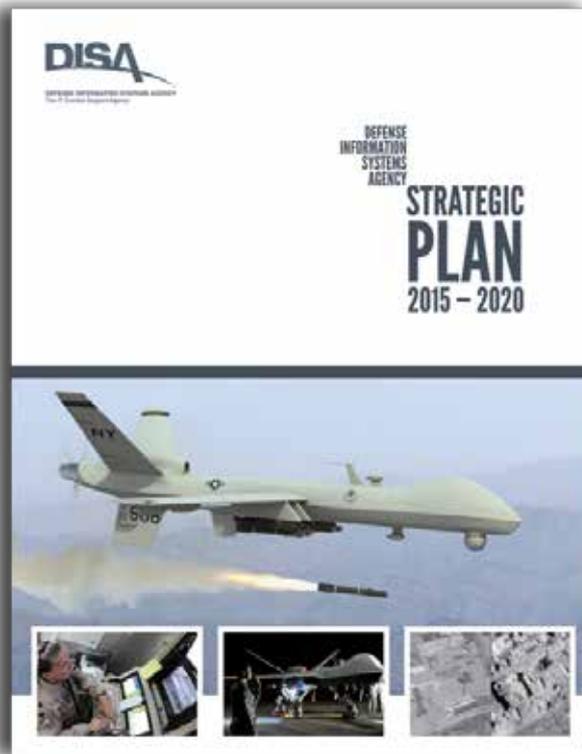
- Any Device, Any User, Any Time  
Commercial (hand-held) device(s) of choice
- Novel Technologies  
Adopt leading edge commercial
- Disruptive Technologies  
Solving problems no one knew they had

## Raison D'être

## Way Ahead

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# DISA Strategic Documents



<http://disa.mil>

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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

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# Procurement Services

- 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*

**Mobility**

## Joint Regional Security Stacks 1.0

*Increased visualization, Cyber situational awareness, and the centralization of security and networks*

**Joint Regional Security Stacks**

## Global Video Services (GVS)

*High-quality video conferencing Internet protocol based VTC service for NIPRNet and SIPRNet*

**Global Video Services**

## DoD Spectrum Auction

*Commercial partnership, boost economic and employment growth in the United States*

**Spectrum**

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# Way Ahead



## Risk Management



## Cyber Workforce Development



## Industry Partnership



## Command And Control

## Continued Operational Focus



## Mobility & Collaboration

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The IT Combat Support Agency

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