



JFHQ-DODIN Update

The overall classification of this briefing is: **UNCLASSIFIED**

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Cyberspace Ops Mission Alignment

USCYBERCOM plans, coordinates, integrates, synchronizes and conducts activities to **direct the operations and defense of specified Department of Defense information networks** and; prepare to, and when directed, conduct full spectrum military cyberspace operations in order to enable actions in all domains, ensure US/Allied freedom of action



Full Spectrum Cyberspace Operations

Core Mission Areas

Defend the Nation Against Strategic Cyber Attack

Secure, Operate and Defend the DoD Information Networks (DODIN)

Combatant Command Support



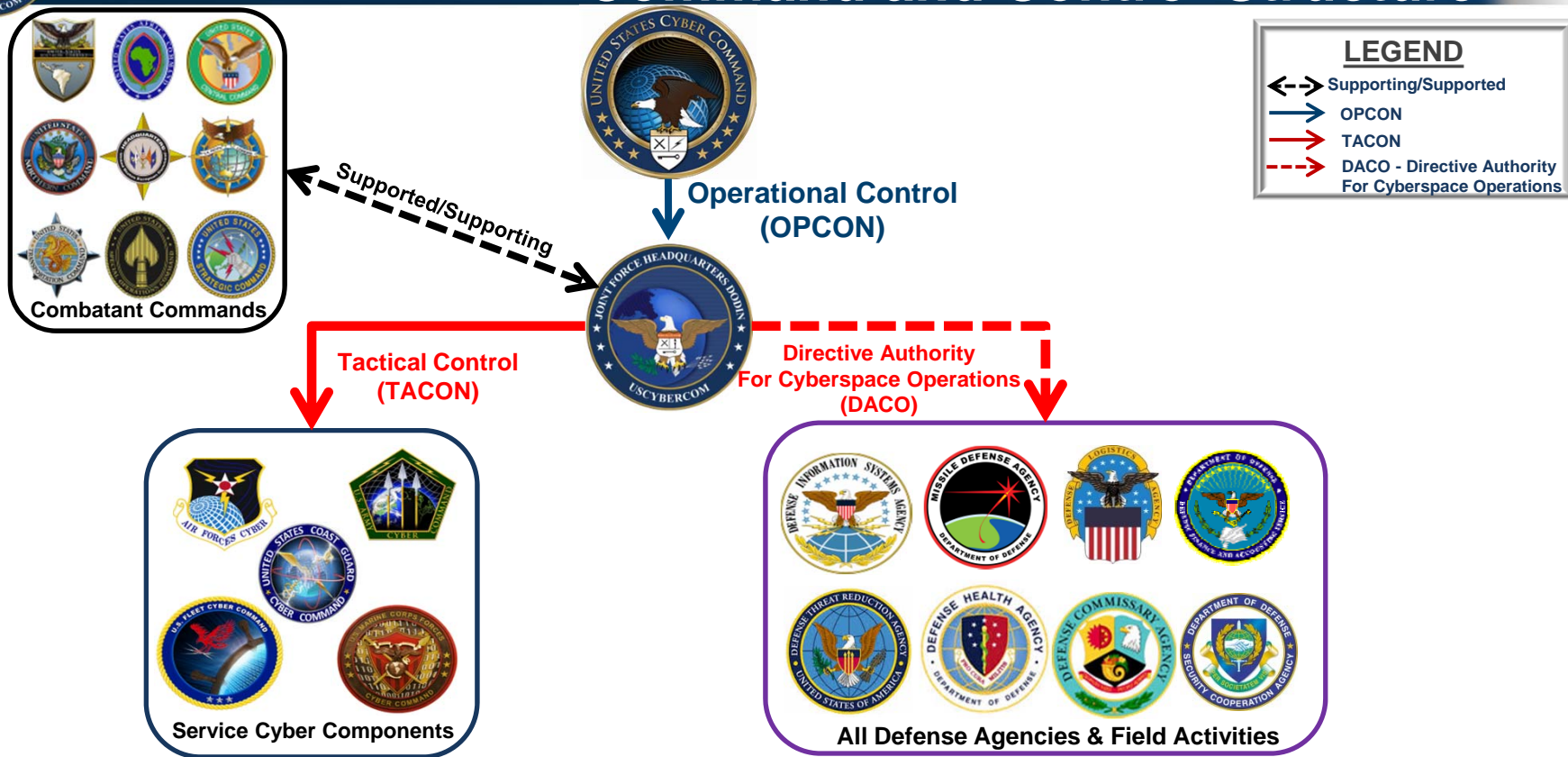


Mission Statement

JFHQ-DODIN exercises command and control of DODIN operations & DCO-IDM globally in order to synchronize the protection of DOD component capabilities to enable power projection and freedom of action across all warfighting domains.



Secure, Operate & Defend the DODIN Command and Control Structure





JFHQ-DODIN – The Year in Review

- JFHQ-DODIN established 15 Jan 15
- Accomplishments
 - Led 17 named operations for DODIN defense
 - Produced 517 DODIN intelligence products
 - Assumed Operational Control (OPCON) of DODIN Cyber Protection Teams (CPTs)
 - Assumed control of Command Cyber Readiness Inspection (CCRI) process
 - Participated in 9 exercises and 2 war games
 - Began development of first-ever deliberate plan for DODIN defense
 - Established JTF in support of Combatant Command mission



DODIN Defined



Platform IT



Cloud Services



Agency Networks



CDCs

“The Department of Defense Information Network (DODIN) are a globally interconnected, end-to-end set of information capabilities for collecting, processing, storing, disseminating, and managing information on demand to warfighters, policy makers and support personnel. The DODIN include owned and leased communication and computing systems and services, software (including applications), data, security services, other associated services, and national security systems.” –JP 3-12

DODIN



Service Networks



Educational Institutions



Industrial Control Systems



Coalition & Multi-national Networks



Tactical Communications Systems



Leased Telecom Services

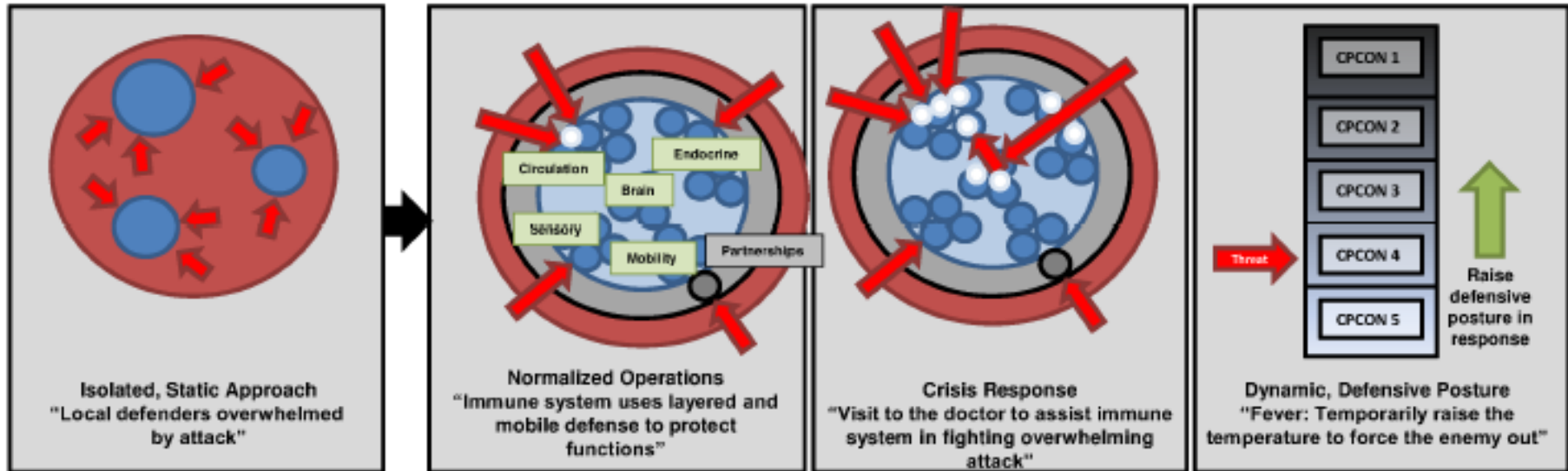


Mobile Devices



Paradigm Shift within the DoD

Building an "immune system" for the DODIN

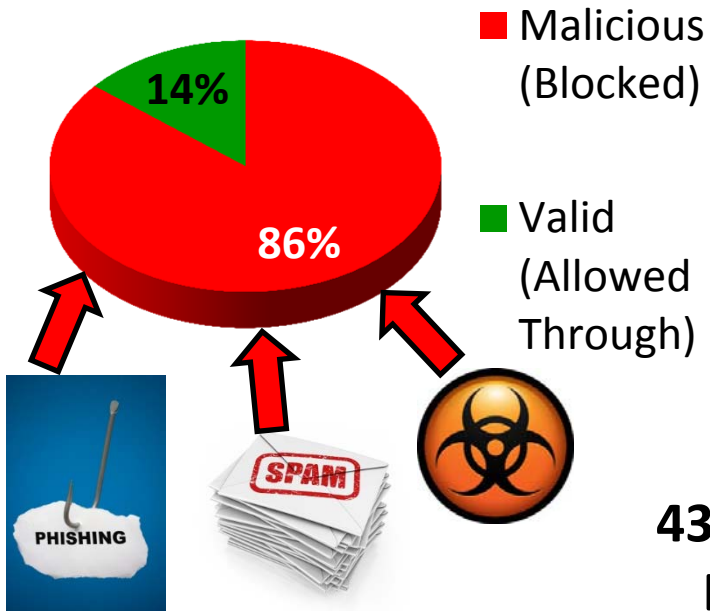


JFHQ-DODIN provides unity of command to enable this new paradigm



A Day in the life of the DODIN

8.2M E-Mails Received



43K Attempted Intrusions Detected and Blocked



30 Suspicious Events that require further analysis


Each Year: 3B E-Mails Received, 16M Attempted Intrusions, 11K Events to be analyzed



The Big Data Tsunami

*- We must transform data into information, then further refine that information into intelligence
- Better automation is critical*



Limited number of analysts 

Network and threat data (Four Vs)

- Volume (Data at rest): Hundreds of terabytes daily
- Velocity (Data in motion): Data is constantly flowing
- Variety (Data in different forms): No single format
- Veracity (Data in doubt): False positives and ambiguity

Missed Data

Limited storage can cause data to be dropped, how much should we store and what is the cost?



Takeaways

- JFHQ-DODIN leverages new command relationships to synchronize DODIN defense
- Technology-agnostic C2 framework helps us be flexible and responsive
- We must increase use of automation to solve the “big data tsunami” problem
 - How can industry help?
- Focus on “combined arms” approach to DODIN defense



Questions?