

The Challenge of Cyberspace Defense and CSSP Services

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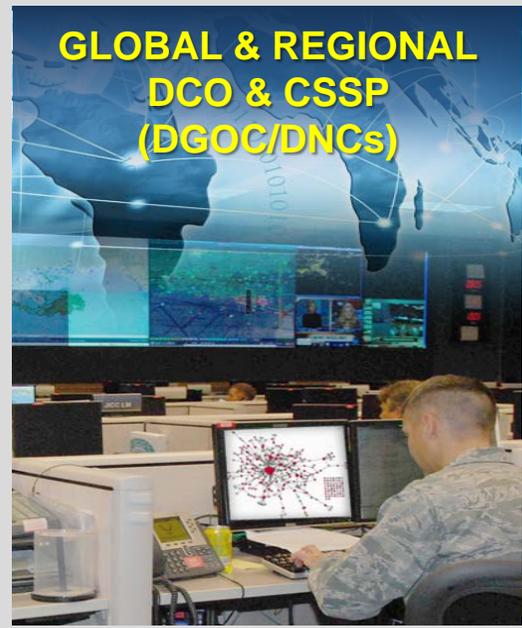


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Defensive Cyber Operations Across DISA



- ▶ Monitor Persistent Presence
- ▶ Observe Suspicious Activity/ Sensor Data
- ▶ CSSP Execution
- ▶ Investigate Incident(s)
- ▶ Confirm Malicious Activity
- ▶ Report Incidents
- ▶ Cyber Threat Analysis

DEFENSIVE CYBER OPS DIVISION (HQS)



Current Operations

- ▶ Maintain SA for all defensive cyber operations
- ▶ Direct and Prioritize DCO
- ▶ Provide C2 for proactive cyber defense
- ▶ Determine/De-conflict Counter Measures
- ▶ Enterprise Cyber Threat Analysis

Plans, Strategy, Transformation

- ▶ DCO Strategy & Transformation
- ▶ DCO Requirements
- ▶ DCO-IDM Strategic/Deliberate/ Future Planning

CSSP

- ▶ CSSP Program Management
- ▶ Service Development
- ▶ Customer Engagement
- ▶ CSSP Compliance / Inspections

Mission Partners

DISA Internal Partners

DISA External Partners

PARTNERSHIPS + INNOVATIONS = SOLUTIONS





The Challenges

Data

- Big Data lakes are a drop in the ocean
- Escalating storage requirements will make PCAP storage cost prohibitive
- Break & Inspect increases volume of metadata and alerts

Strategy:

Advanced analytics

Software Defined Environment

Artificial Intelligence

Speed of Cyber

- Everyone loves fast internet, until they have to analyze it
- Alert Queuing & prioritization...not enough time to fully analyze all alerts
- By 2021, global fixed broadband speeds will reach 53 Mbps, up from 27.5 Mbps in 2016

Strategy:

Machine Learning

Auto Mitigation





The Challenges (continued)

Continued Trend toward Mobility

- 2018 World Population est. 7.6 billion
- # of Cellphone Users: 4.9 billion, # of Smartphone Users: 2.5 billion
- DoD microcosm: mobile device use doubled over last year

Strategy:

Industry partnerships for innovative and integrated perimeter, mid-tier and end-point solutions

The Cloud

- Cloud defense is in a storming phase

Strategy:

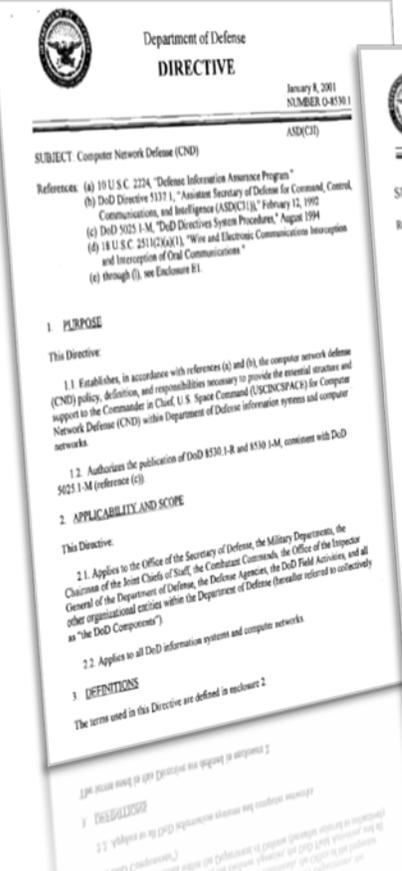
Integrate Secure Cloud Computing Architecture into DCO environment to provide seamless cyber defense solution



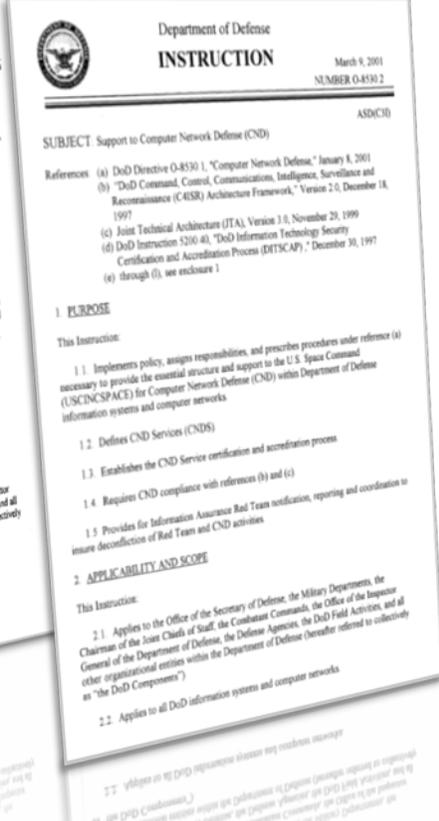


Changes to DOD Policy

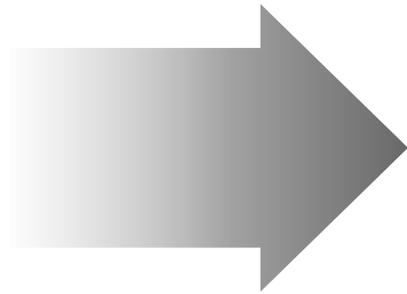
DoDD O-8530.1



DoDI O-8530.2

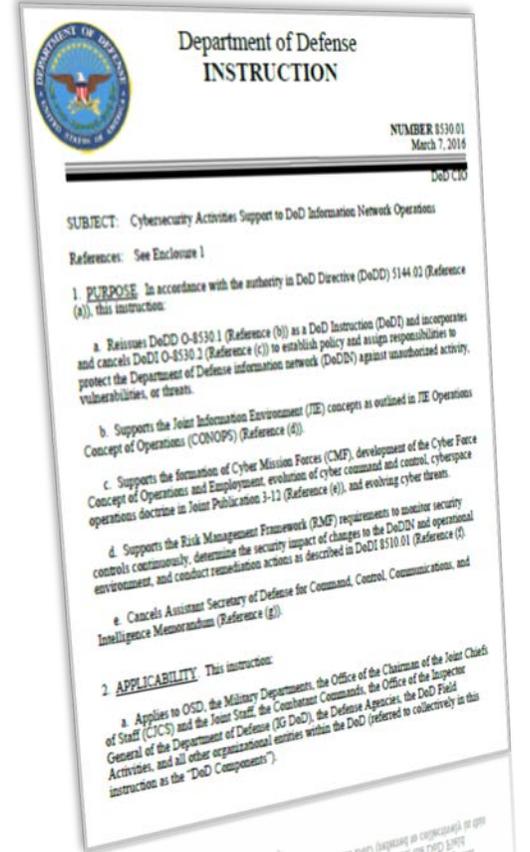


2001



2016

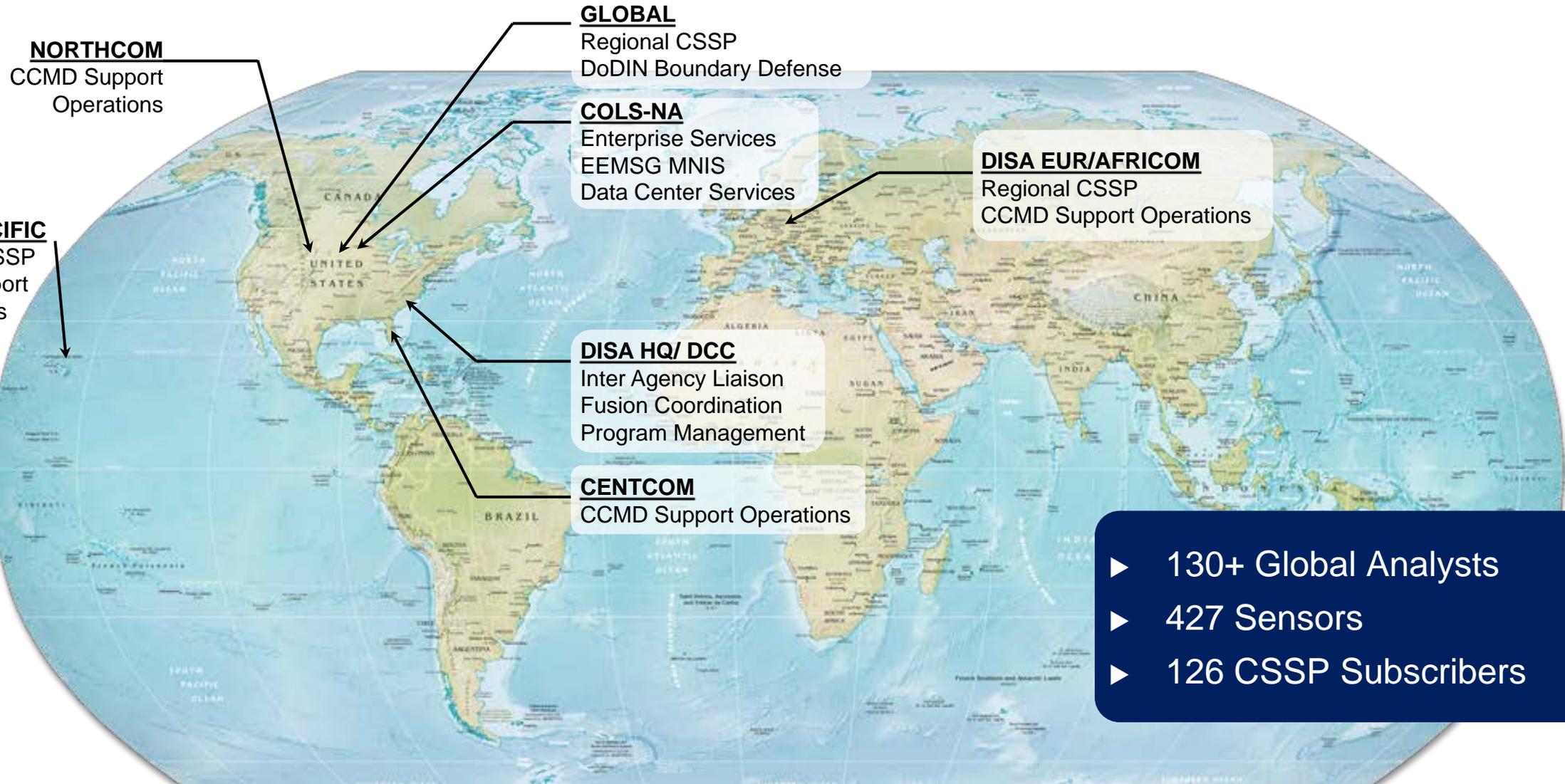
DoDI 8530.01



Current Policy: DoDI 8530.01, "Cybersecurity Activities Support to DoD Information Network Operations"



DISA CSSP Global Support





CSSP for Cloud: A Two-Phased Approach

PHASE 1

Initial Cloud CSSP Offering

Availability:

Now

Description:

Minimal CSSP services that can be provided to Commercial Cloud customers immediately. Provides limited monitoring capability utilizing existing sensors in the Cloud Access Point, Incident Reporting services, and technical support for implementing security in Cloud environments.

Applicability:

Information Impact Level 2/4/5;
IaaS/PaaS/SaaS

Benefit:

Allow CSSP customers to proceed with Cloud migration projects

Transitional Period of Cloud CSSP Instantiation

Ongoing Development:

Description:

Integration and Investigation of key and essential data feeds from Cloud customer environments. Seeking to provide a more robust monitoring and analytic capability in pursuit of additional risk reduction capabilities in the Cloud environment.

Applicability:

Information Impact Level 2/4/5; IaaS

Benefit:

Development of more robust Cyber Security services to the evolving environment of the Commercial Cloud CSSP customer

PHASE 2

SCCA CSSP Offering

Availability:

Based on Secure Cloud Computing Architecture (SCCA) schedule

Description:

Perform sensing and correlation via centralized, common, DISA-managed enterprise Virtual Data Center Security Stack (VDSS) and Virtual Data Center Management Services (VDMs)

Applicability:

Information Impact Level 2/4/5; IaaS

Benefit:

Improve effectiveness and efficiency of incident detection and response through utilization of common sensor(s) for multiple Commercial Cloud CSSP customers



What We Need From Industry...



Tell us what you're doing



Partnerships – Key to our success!



**Innovation, More Innovation,
and Even More Innovation!**

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