



# **DODIN Defense in a Dynamic Cyber Environment**

## *Beyond Static Defenses*

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# Adapting to a Dynamic Cyber Environment

- Driving to the Endpoint
- Collaboratively Defending “the Cloud”
- Synchronizing Defensive Operations



## Strategy:

- Improve the Common Analytic Environment
- Leverage DoD defensive advantages; Know our Cyber Terrain
- Partner with Cloud Service Providers for Security Relevant Data



# Background

DISA's Cyber forward edge of the battle area: 450+ distinct CSSP mission partners defended

15K personnel in 21 states, 7 countries and 1 US Territory

- 4M DoD computers
- 3M DODIN users
- 142K mobility devices
- Over 1,500 tickets & 151 changes daily

10 Internet Access Points and 2 Cloud Access Points

- 1.3B events per day
- 790M blocks per day
- 1.3 GB/s of scans blocked per day
- 453K phishing & spam emails blocked per day
- 27 TIPPERS per day

Continual Enterprise Hunt Operations



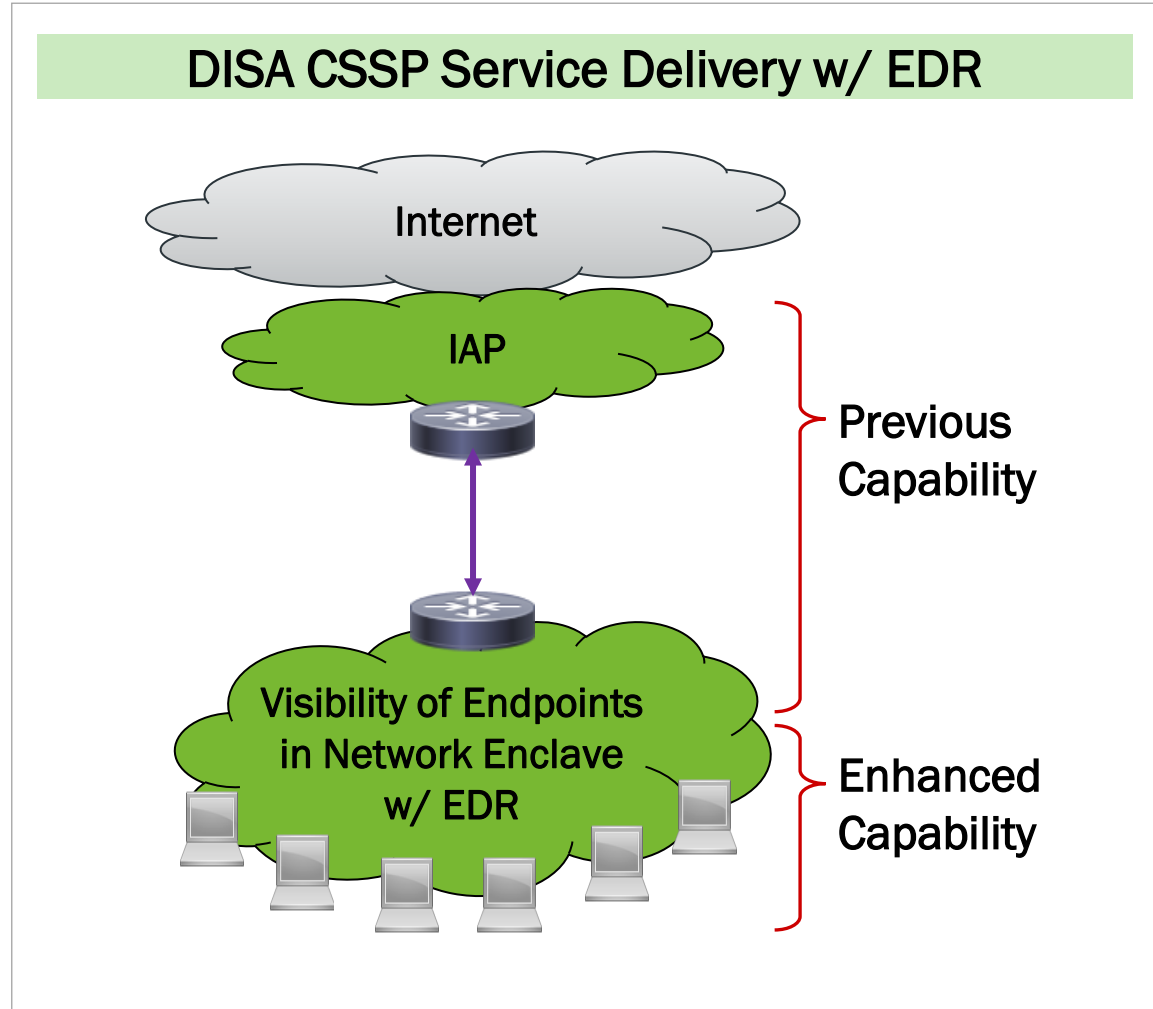
# Driving to the Endpoint

## What DISA Is Doing

- Implementing Endpoint Detection Response (EDR)
  - Reduced workload
  - Enhanced visualizations
  - Implemented live response
- Piloting EDR for servers

## Challenges

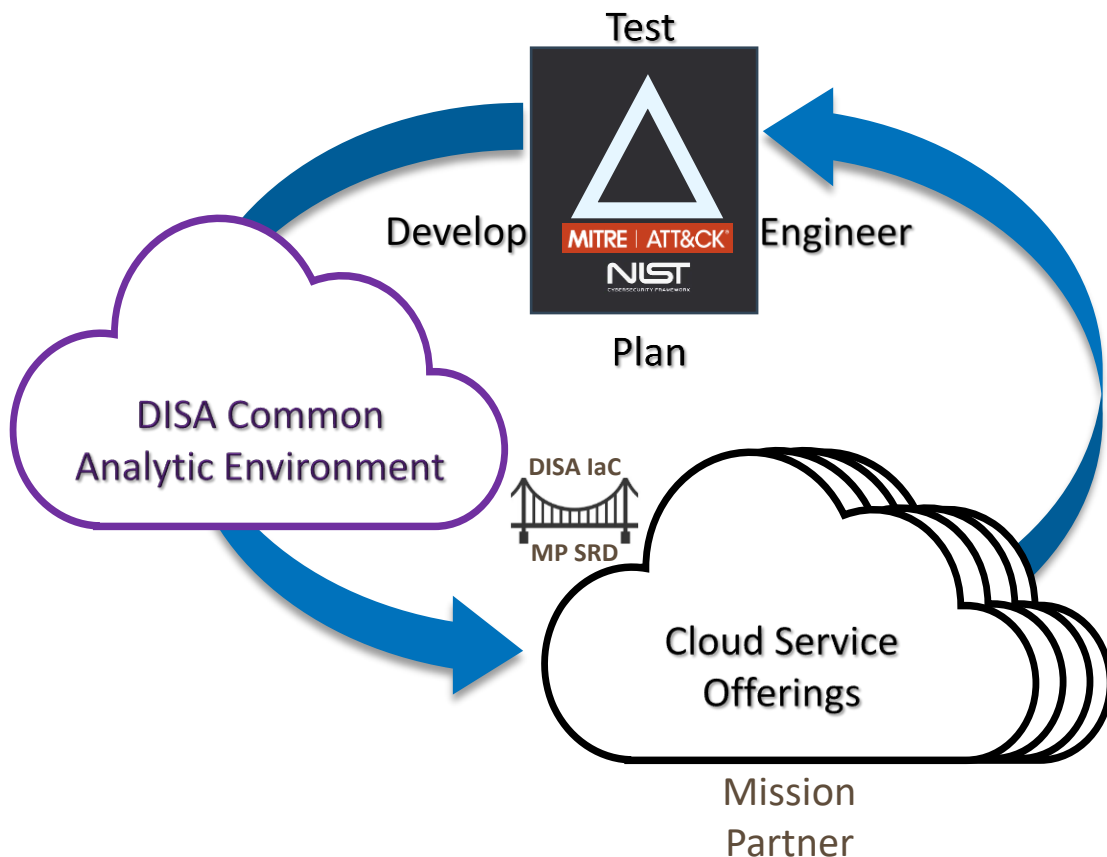
- Integration of different EDRs into the common analytic environment
- Analytic transparency needed for AI/ML implementations
- EDR limitations for:
  - Appliances (printers, routers, firewalls, etc.)
  - Serverless compute
  - Internet of Things (IoT)



Leverage DoD Defensive Advantages; Know our Cyber Terrain



# Collaboratively Defending “the Cloud”



## What DISA Is Doing

- Defend the cloud, in the cloud, with the cloud
  - Security Relevant Data (SRD) IAW NIST 800.53 and MITRE ATT&CK
  - Baseline cloud native Security Relevant Tools (SRT) enables consumption of SRD
  - Infrastructure as Code (IaC) automates and significantly reduces time to execution
  - Continuous Improvement achieved through Threat Detection Testing, analytic development, and optimization of MP CSSP configurations

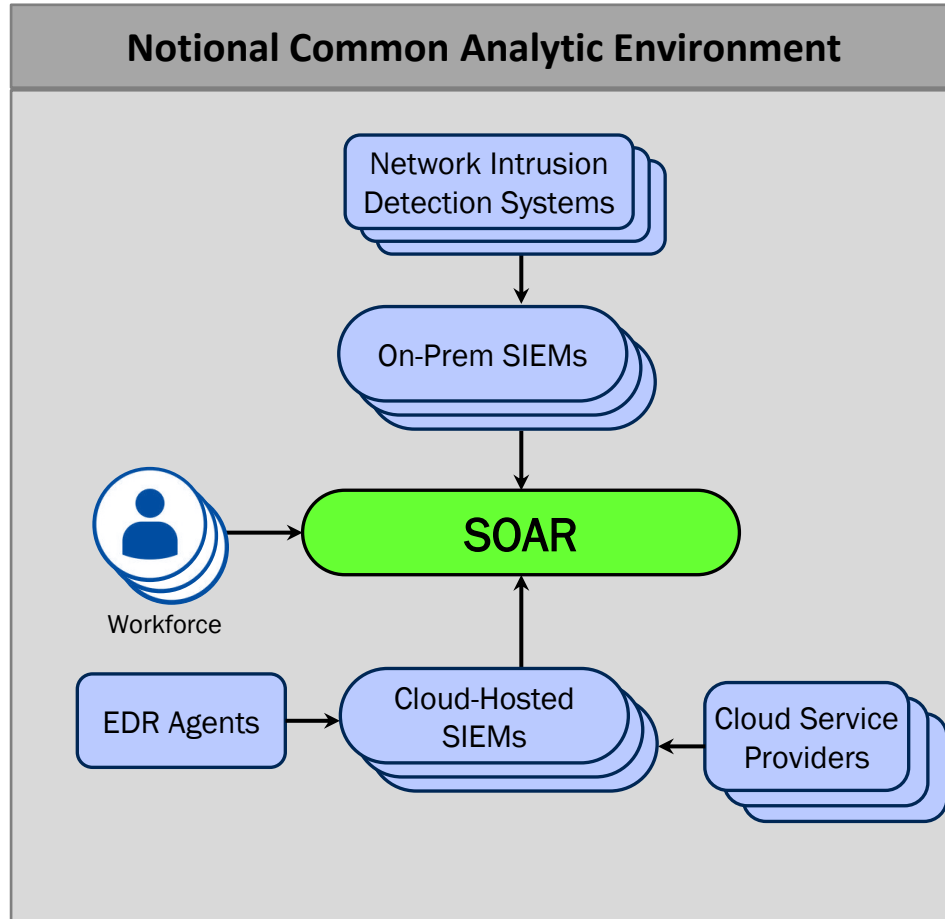
## Challenges

- Security tool and data parity across vendors and Impact Levels increases difficulty in standardizing common DCO framework
- Lack of vendor service mapping to DoD Cybersecurity Activities Performed for Cloud Service Offerings significantly impacts CSSP service delivery
- Analysts must leverage multiple cloud instances instead of a single cloud environment

Partner with Cloud Service Providers for Security Relevant Data



# Synchronizing Defensive Operations: SOAR



## What DISA Is Doing

- Piloting the integration of SIEMs through a SOAR
- Automating data standardization and enrichment
- Investigating the use of robotic process automation

## Challenges

- Managing Security Relevant Data
- Integrating multiple SIEMs into a single SOAR
- Automating triage and data correlation across analytic environments

Improve the Common Analytic Environment



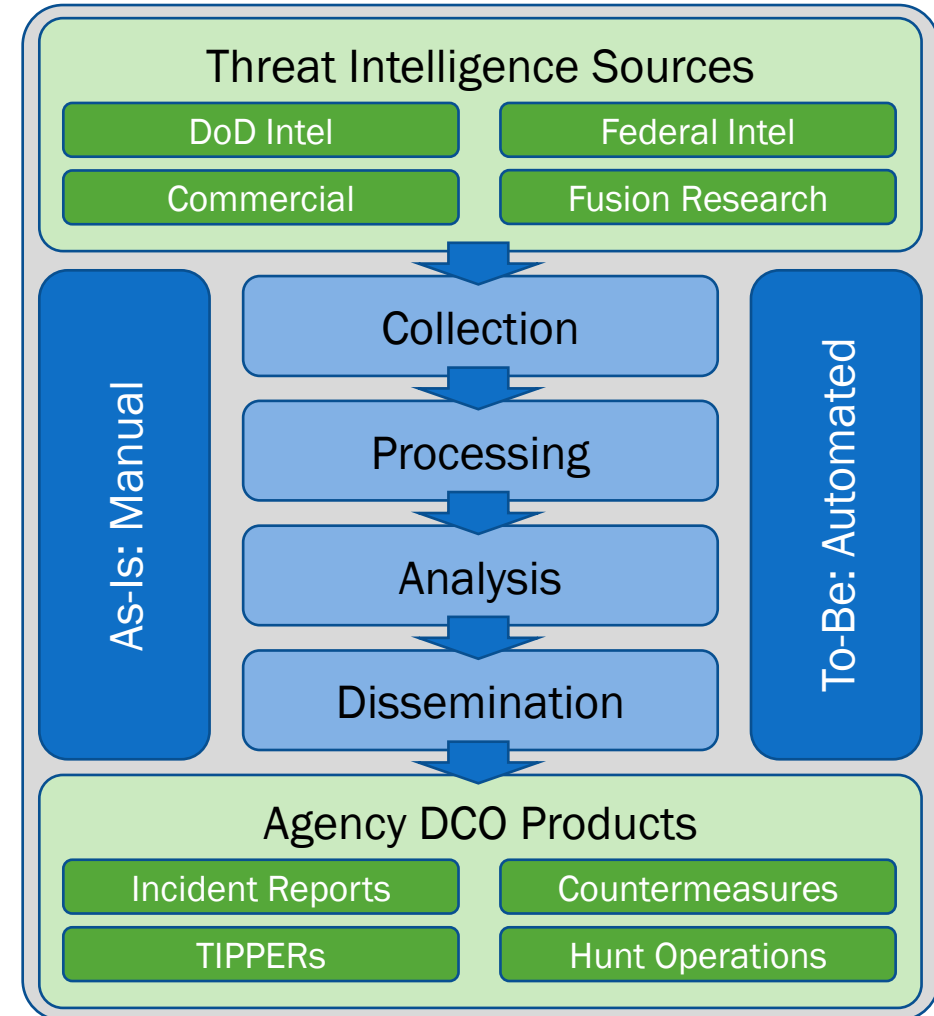
# Synchronizing Defensive Operations: Threat Intelligence

## What DISA Is Doing

- Processing Threat Intelligence received from multiple sources manually
- Prioritizing threats based on MITRE ATT&CK framework manually
- Developing threat-based Enterprise Hunt Operations
- Utilizing Intelligence focused on AOR threat

## Challenges

- Automating Threat Intelligence processes
- Disseminating Threat Intelligence to DISA SIEMs



Leverage All Sources of Threat Intelligence



# Adapting to a Dynamic Cyber Environment

- **DISA evolving with the environment**
  - Committed to continuous improvement
  - Open to new ideas
- **Transparent AI/ML to synchronize defensive operations**
- **We need your help solving priority challenges**







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