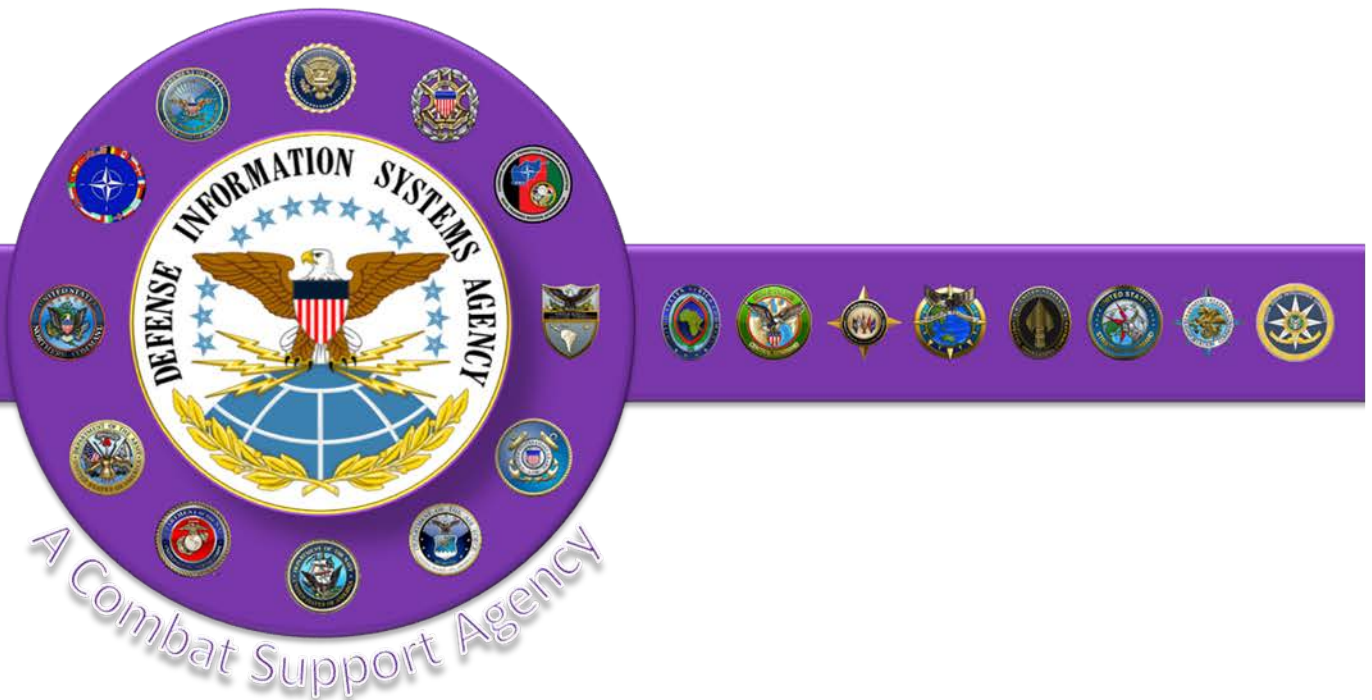


Defense Information Systems Agency

# Enabling The Joint Information Environment (JIE)

5 May 2014

*Shaping the Enterprise  
for the Conflicts of Tomorrow*



We must develop the JIE to secure our cyber infrastructure, cut costs, and be ready for tomorrow's technologies.

MAR  
2012

## DoD CIO

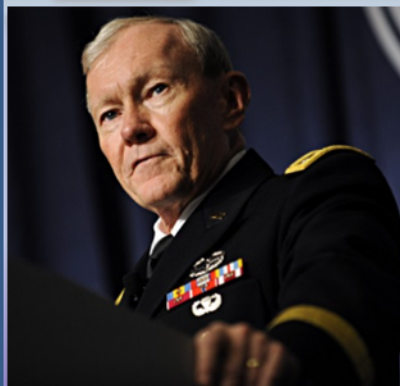


“Our primary goals are to make the Department **more effective** and **more secure** against cyber threats... ..to **reduce the cost** associated with the Department’s overall information technology infrastructure by simplifying, standardizing, centralizing, and automating infrastructure **at the enterprise level**. We are calling the result of the effort the **Joint Information Environment**, or **JIE**.” (Emphasis added)

*Teri Takai, Former CIO, Department of Defense*

JAN  
2013

## CJCS



“[With the JIE], we will have set the conditions for **next generation capabilities**, fully leveraging the power and versatility of commercial information technology and evolving from a brittle, network-centric understanding of our information environment to **a flexible data-centric environment** enabling access to **information at the point of need**.” (Emphasis added)

*GEN Martin E. Dempsey, Chairman of the Joint Chiefs of Staff  
(Joint Information Environment White Paper, Jan 2013)*

## THE JIE MISSION PARTNERS



## THE JIE MISSION COMPONENTS

### THE DRIVER



### THE VISION

**A single joint  
enterprise IT platform  
that can be leveraged  
for all DoD missions**

### THE STRATEGY



## DISA IS THE JIE TECHNICAL AND IMPLEMENTATION LEAD

### DISA's JIE Technical Synchronization Office






**Technical & Implementation Lead** - Develop, integrate and synchronize JIE technical plans, programs, and capabilities and Execute JIE tasks

#### **Key Functions:**




- Develop DoD technical architectures
- Update EXCOM via Planning/Coord Cell
- Synchronize implementation activities with Transition Managers (CC/S/A)
- Recommend solutions for fiscal shortfalls
- Synchronize new capabilities & legacy IT sunsets
- Assess transition risk
- Synchronize with the IC Technology Enterprise

# Key JIE Related Architecture Artifacts

## Policy & Guidance

<p><b>DoDI 8100.04</b> Establishes governing policy for Unified Capabilities products and services supported on DoD networks</p>  <p>9 DEC 2010</p>	<p><b>IdAM Data Dictionary</b></p>  <p>14 AUG 2013</p>	<p><b>DoDI 8330.aa</b> Establishes a capability-focused, architecture-based approach for interoperability analysis; Establishes the requirement for enterprise services to be certified for interoperability.</p>  <p>3QFY14</p>	<p><b>DoDI 8310.aa</b> Provides direction for identifying, developing, and prescribing IT standards</p>  <p>3QFY14</p>	<p><b>DoDI 8270.bb</b> Establishes the role of the DoD EA in providing context and rules for accomplishing the mission of the Department.</p>  <p>3QFY14</p>
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## Enterprise Architecture

<p><b>DoD IEA v2.0</b></p>  <p>Approved 10 Aug 2012; Foundation for the JIE EA</p> <p>10 AUG 2012</p>	<p><b>JIE EA v0.4</b></p>  <p>In Formal Review; expected to be approved for JIE RA and SA development in 1QFY14</p> <p><i>In progress</i></p>	<p><b>DoD IEA v3.0</b></p>  <p>Merges the architecture content and guidance of DoD IEA v2.0 and the JIE EA into a single, integrated, authoritative architecture for the Information Enterprise.</p> <p><i>In progress</i></p>
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<p><b>EANCS</b></p>  <p>24 AUG 2010</p>	<p><b>ADO RA</b></p>  <p>29 AUG 2012</p>	<p><b>UC RA</b></p>  <p>8 FEB 2013</p>	<p><b>SSA RA</b></p>  <p>MAY 2013</p>	<p><b>CDC RA</b></p>  <p>23 APR 2014</p>	<p><b>IdAM RA</b></p>  <p>23 APR 2014</p>	<p><b>EOC RA</b></p>  <p><i>In progress</i></p>	<p><b>EC RA</b></p>  <p><i>In progress</i></p>
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## Solution Architectures

<p><b>UC</b></p>  <p>30 AUG 2013</p>	<p><b>IdAM</b></p>  <p>30 NOV 2013</p>	<p><b>EOC</b></p>  <p>23 APR 2014</p>	<p><b>SSA-EPP</b></p>  <p>23 APR 2014</p>	<p><b>CDC</b></p>  <p>23 APR 2014</p>	<p><b>NNT-WAN</b></p>  <p>23 APR 2014</p>
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“We need pioneers and visionaries and folks who are moving out to get us to where we need to go. We are not necessarily at a tipping point, but it is an informational point.”

“...the expectations on this agency are huge, they are tremendous and people are expecting us to build this out”

-Lt Gen Ronnie D. Hawkins, Jr.,  
Director, DISA

## The DISA JIE Target State

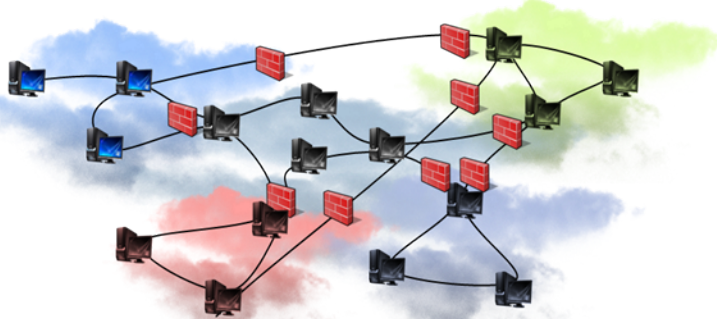
Our target objective state is a Joint Information Environment that optimizes the use of the DoD’s IT assets by converging communications, computing, and enterprise services into a single joint platform that can be leveraged for all Department missions. These efforts reduce total cost of ownership, reduce the attack surface of our networks, and enable DISA’s mission partners to more efficiently access the information resources of the enterprise to perform their missions from any authorized IT device from anywhere in the world.

Imagine a road trip in a nation where each state only trusts vehicles and drivers from within its own borders. A trip from Nebraska to the West Coast requires border stops in Wyoming, Idaho, and Oregon, and a new driver's license must be obtained for each state. Now imagine some states have chosen to drive on the right side of the road and others on the left, while some only allow certain brands of vehicles on their roads. Imagine the headaches and difficulty encountered on a road trip from coast to coast.

This imagined road trip is what many warfighters face when attempting to access systems and information across the DoD. Delays in access to data due to differing systems, policies, and lack of trust between networks, affect the warfighter's ability to execute joint global military operations. At the same time, redundant infrastructure and services increase cost for the entire DoD. This can be solved by adopting a joint enterprise.

On our imagined road trip every state has its own dedicated border security, inspection stations, and monitoring equipment. A great deal of security infrastructure is focused on the highways between the states and not at the national borders. This slows down the flow of people and goods, leads to a heavier cost to implement security, and makes it difficult to share intelligence or coordinate operations across state lines. This imagined transportation system can be made more efficient by adopting a single national highway system, moving security infrastructure to the national borders, and implementing a common set of traffic laws.

Similarly, we can more efficiently communicate across the DoD with a joint enterprise. Communication and security infrastructure can be consolidated and utilized where it will be most effective, removing the barriers between mission partner networks. Most importantly, mobile warfighters will have access to the information and services they need when and where they need them.



We will realize incredible efficiencies and cost savings by consolidating redundant capabilities at the enterprise level. For example, transitioning the Army to DoD enterprise e-mail alone is saving the service an estimated \$100 million annually while providing greater e-mail capability than before.

The JIE is the DoD's enterprise solution. Improved interoperability within the JIE will be achieved through the integration and consolidation of our IT systems. This level of standardization and interoperability will allow more efficient collaboration between joint forces, the ability to provide joint cloud services, and reduce the cost of managing our IT infrastructure. More importantly, the JIE will give us the capability to deliver enterprise capabilities to the warfighter wherever, whenever.

# Converging the C2 Infrastructure

## The Pre-JIE DoD Enterprise

- No enterprise management
- Varying degrees of interoperability
- Lack of standardization
- Lack of cloud based services



DoD Information Technology currently consists of thousands of IT systems, hundreds of globally unconnected data centers, and over seven million computer and IT devices. This infrastructure consists of:

- Service-centric non-standard operations centers
- Non-standard TTPs, architectures & applications
- No standard ops architectures

## JIE Interim



The JIE will begin to be realized with the convergence of the DoD IT infrastructure. The Interim JIE will see the establishment of:

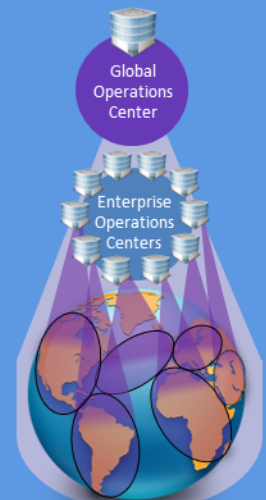
- Standardized TTPs
- A Global Enterprise Operations Center (GEOC)
- Mixture of Regional Enterprise Operations Centers (EOC) and service led operations centers
- Initial JIE COP capability

A major milestone in this transition was achieved in August 2013 with the stand up of the first regional EOC in Europe.

The JIE will ultimately provide the standardized framework for introducing new capabilities in an agile manner. This JIE end state will include:

- A Fully Operational GEOC
- Fully meshed EOCs providing seamless control and failover

## JIE End State







## Global Enterprise Operations Center – Global Scope

- Directs JIE Global Operations
- Prioritizes global cyber missions (IAW COCOM priorities)
- JIE global focal point for external partners (Law Enforcement, etc.)
- Manages JIE global interfaces
- Maintains global situational awareness



## Enterprise Operations Centers – Regional Scope

- Directs DCO/DGO activities within assigned areas
- Works regional cyber challenges as needed/directed
- JIE focal point for regional partners (multinationals, etc.)
- Maintains regional situational awareness
- Conducts Computer Network Defense functions

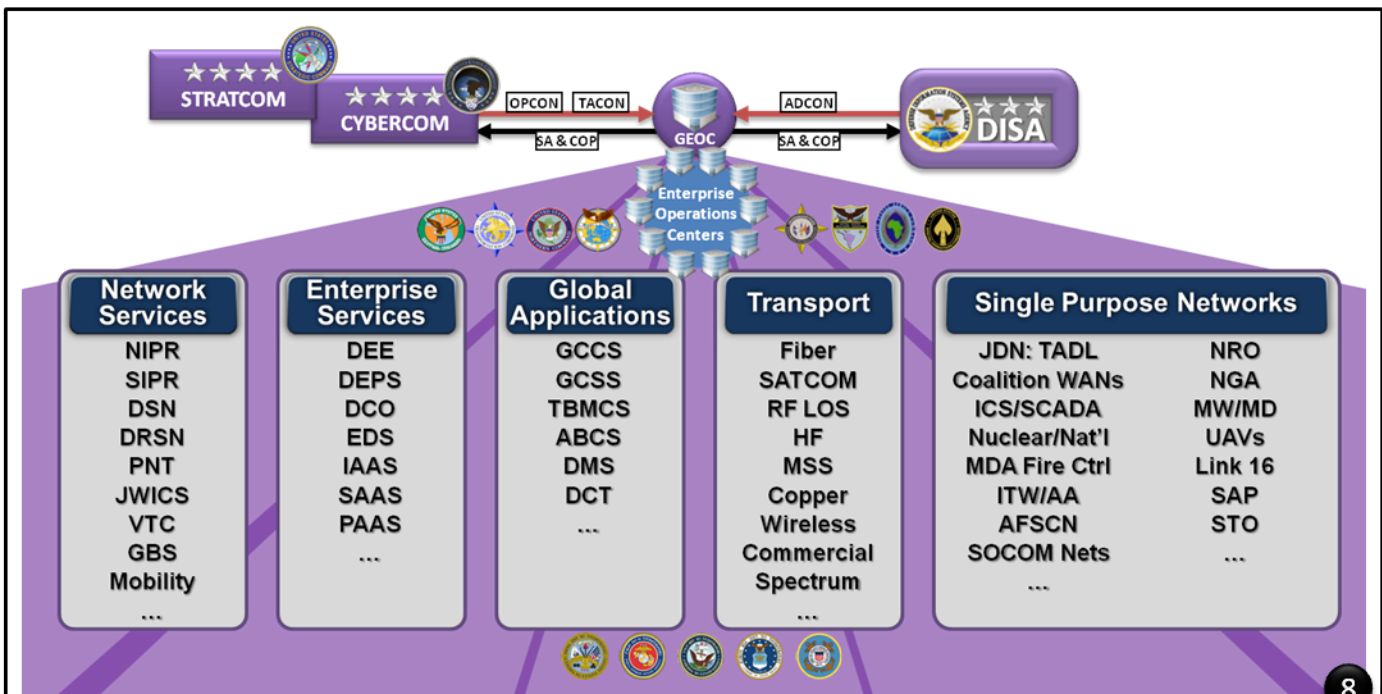


## Base/Post/Camp/Station/Joint Base – Local Scope

- Host service maintains infrastructure
- Host service provides touch labor
- Host service provides DCO/DGO incident response
- Services maintain support to tactical units
- Maintains "unique" support labor and mission

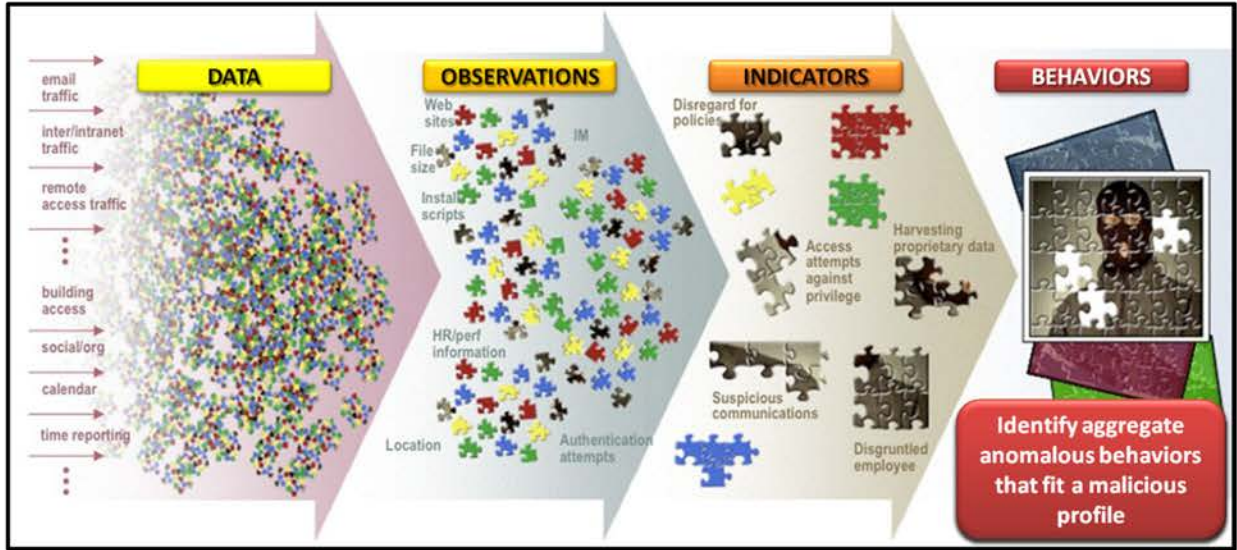


Management of the JIE will be a true joint endeavor. The GEOC will have complete visibility of the enterprise and will conduct global cyber operations in support of COCOMs. The regionally focused EOCs will have complete visibility into their portion of the enterprise, while conducting regional cyber missions supporting COCOM priorities, or supporting global missions directed by the GEOC. The services will continue to maintain their local infrastructure as well as the capabilities to support tactical units and service unique missions.

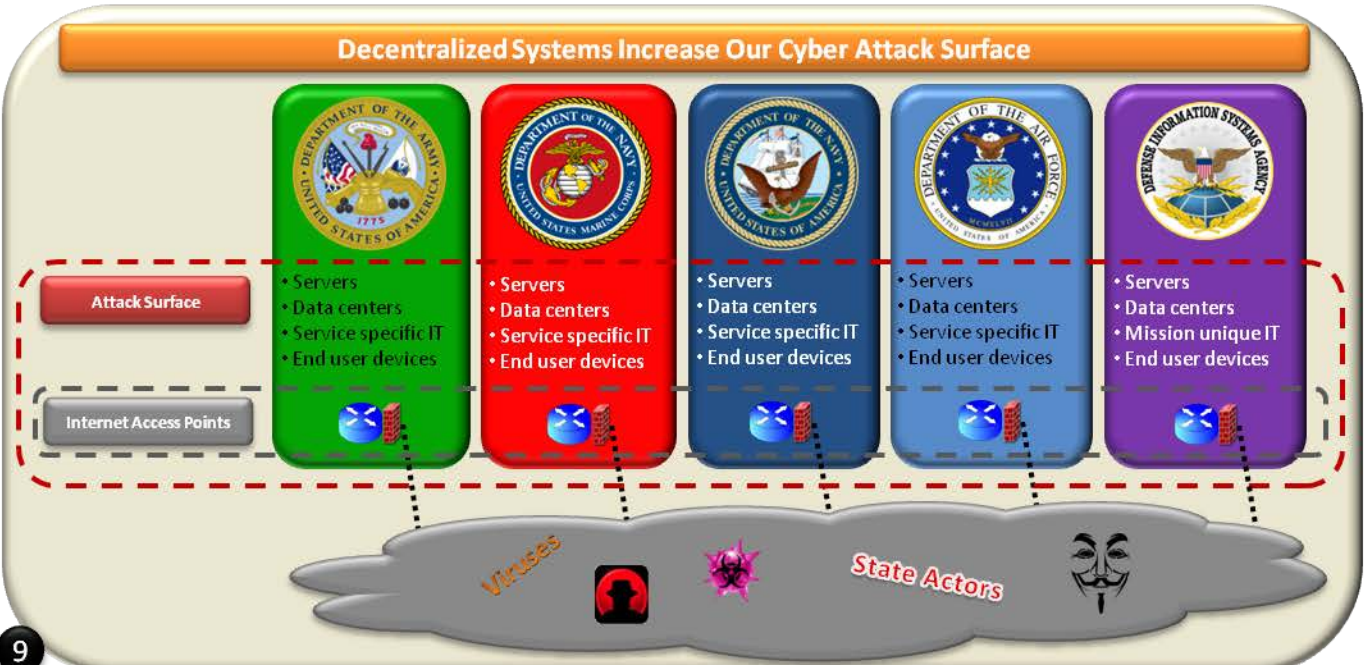


# Toward a Single Security Architecture

Developing the JIE will enable us to actively defend our cyber infrastructure by constructing a SSA that will allow us to analyze and understand what is going on inside and across the entire enterprise. The identification of anomalous behavior is critical to combating the insider threat. The SSA is key to allowing visibility and Command & Control across all DoD networks.



Infrastructure convergence will not only eliminate inefficiencies in the routing of information, but will also focus security processes and infrastructure to where they will be most effective. Today our security infrastructure is focused at network boundaries. Each organization has built its own defensive architecture that, while defensible, is less secure and more obtrusive to information sharing than a consistent Joint solution. Further, our cyber attack surface is widened by the myriad systems providing decentralized IT services all across the DoD. Every e-mail server, end user, or network device is a potential target for a cyber attack. It is not feasible to properly secure every device, every capability, and every mission given our current architecture and need to share/access information.



# Single Security Architecture

## - Reducing our Cyber Attack Surface

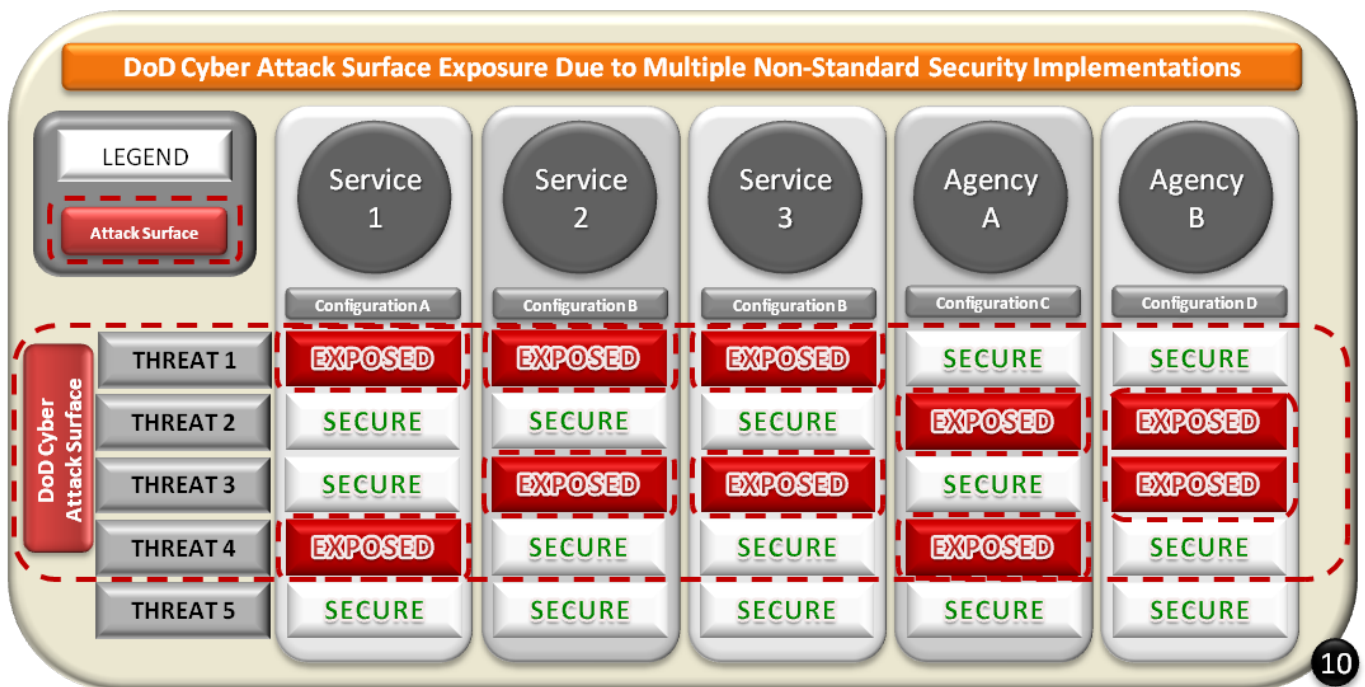
Our ability to defend our current IT infrastructure is also complicated by decentralized configuration management and non-standard security implementations that widen our exposure to cyber threats. We successfully identify a policy or control to protect ourselves from a threat but must wait for that security control to be implemented throughout the entirety of the DoD. With our current infrastructure we must trust that the security control is eventually deployed to the rest of our networks in a timely manner, without human error, and without the ability to immediately verify that the control is in place.

The current system creates too many opportunities for failure and leads to unnecessary exposure of our cyber assets. Additionally, every misconfigured system that is vulnerable to a threat leaves the rest of the enterprise just as vulnerable and further expands our cyber attack surface.

The centralized JIE and Single Security Architecture will reduce our cyber attack surface by enabling centralized configuration management, along with standardized and simultaneously deployed security implementations.

“Today we’ve got a lot of decentralized implementations of some pretty sophisticated and robust capabilities. But they’re implemented in pockets, so we don’t share information across all the pockets and don’t have the ability to simultaneously change policies or controls across all those pockets instantly or at the same time.”

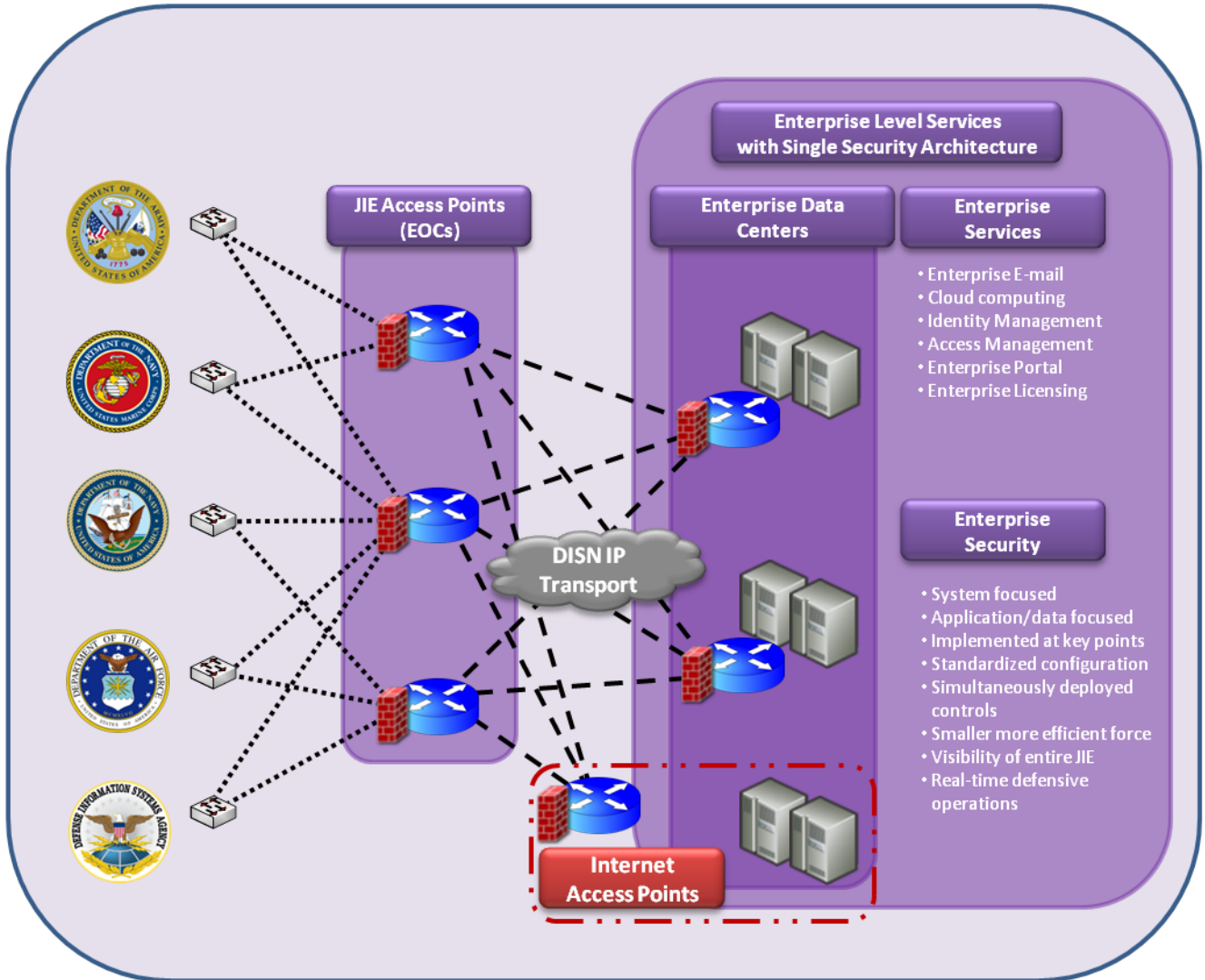
– Mark Orndorff, DISA  
Chief Mission Assurance Executive



# Single Security Architecture

The JIE will allow us to more effectively secure the enterprise by consolidating services at enterprise data centers. Rather than trying to defend everything, security can then be focused on the systems and data needed to support specific missions and capabilities.

The SSA will reduce our exposed cyber attack surface and standardize our security practices to protect our networks and the information traversing them. The SSA will also increase the availability of Enterprise-wide services, applications and data sharing.



“The No. 1 most important advantage [with the Single Security Architecture] is the ability to actively defend the DoD networks in a time frame that we need to execute cyber defensive operations. What I mean by that is the single security architecture will allow us to understand what’s going on across the entire DoD network with global cyber situational awareness to a level that we can’t do today.”

- Mark Orndorff, DISA Chief Mission Assurance Executive

# DISA Core Enterprise Services

The JIE will bring enterprise services that will enable true joint collaboration and reduce costs across the entire DoD. These solutions are in varying stages of implementation and endorsement as enterprise services. DISA will continue to provide and expand these offerings to meet the ever changing needs of the Warfighter.

“We need to ***be prepared to collaborate*** all along the way... ..cloud, virtualization, interoperability — it’s there today. ***We can go with enterprises and save money.*** Enterprise licenses between the Army, Air Force and DISA. You save tons of money there.”

*LTG Mark Bowman, J6/CIO,  
Joint Chiefs of Staff*



**Defense Enterprise E-mail**



**Defense Enterprise Portal Services**



**Defense Connect Online**



**Unified Capabilities**



**Enterprise Cloud Broker**



**Cloud Computing Services**



**Enterprise Directory Service  
Identity and Access Management**



**Defense Enterprise Mobility**



# Defense Enterprise E-mail

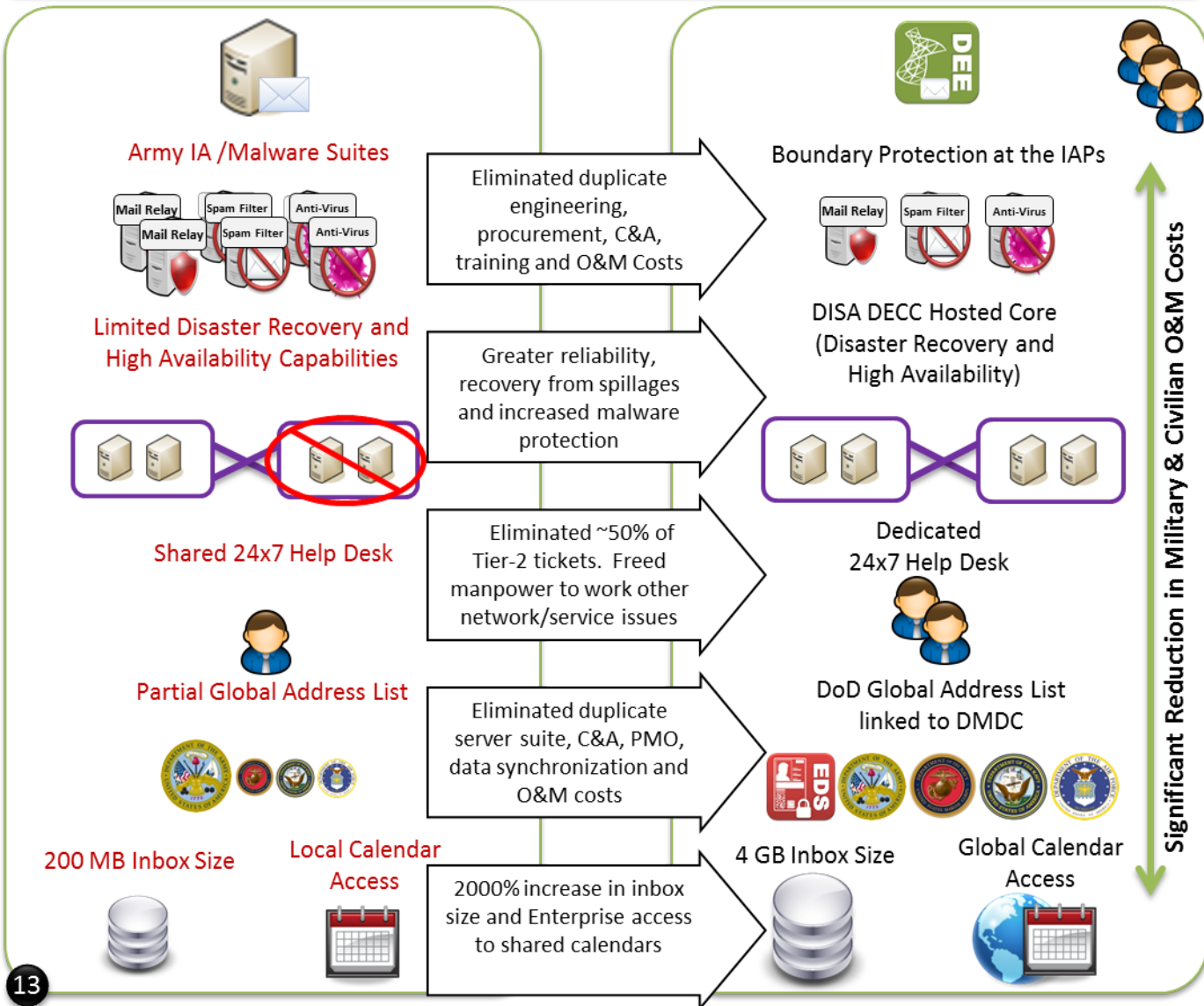
On September 5, 2013, the DoD CIO mandated that all services transition to Defense Enterprise E-mail (DEE), recognizing the significant costs savings potential in this already fielded enterprise solution.

Defense Enterprise E-mail offers greater capabilities at a cost below what individual organizations within the DoD can achieve on their own. DEE provides users a single e-mail address that follows them throughout their career, a four gigabyte e-mail storage capacity, and the ability to access e-mail through mobile devices. Joint collaboration is enhanced through a DoD Global Address List and enterprise wide calendar sharing.

The Army's adoption of DEE resulted in a cost savings of \$76 million for FY12 and projected cost savings of \$100 million annually



## Benefits of transitioning 1.5M Army users to DEE





# Defense Enterprise Portal Service

The Department of Defense Enterprise Portal Service (DEPS) provides a scalable, cloud-based collaboration capability that enables mission partners to share information through independently managed community and mission-focused sites. Built upon industry leading commercial-off-the-shelf solutions, DEPS enables site customization and content management to leverage standard taxonomy and templates. Using a common platform, DEPS enhances enterprise-wide collaboration and increases operational efficiency by leveraging highly secure Defense Enterprise Computing Centers (DECCs), which consolidate administrative, hardware, and software resources .

**DEPS** currently serves DoD level agencies, but DISA has the capability to grow capacity to support the entire DoD. DEPS provides redundancy both locally and remotely for all components of the system, replicating data between paired sister sites to facilitate Continuity of Operations Plans (COOP). DISA integrates DEPS customer organizations into the operational structure and provides 24/7 support through a central service desk.



## DEPS is Integrated with:



**Enterprise Directory Service  
Identity and Access Management**



**Defense Enterprise E-mail**



**Defense Enterprise Mobility**

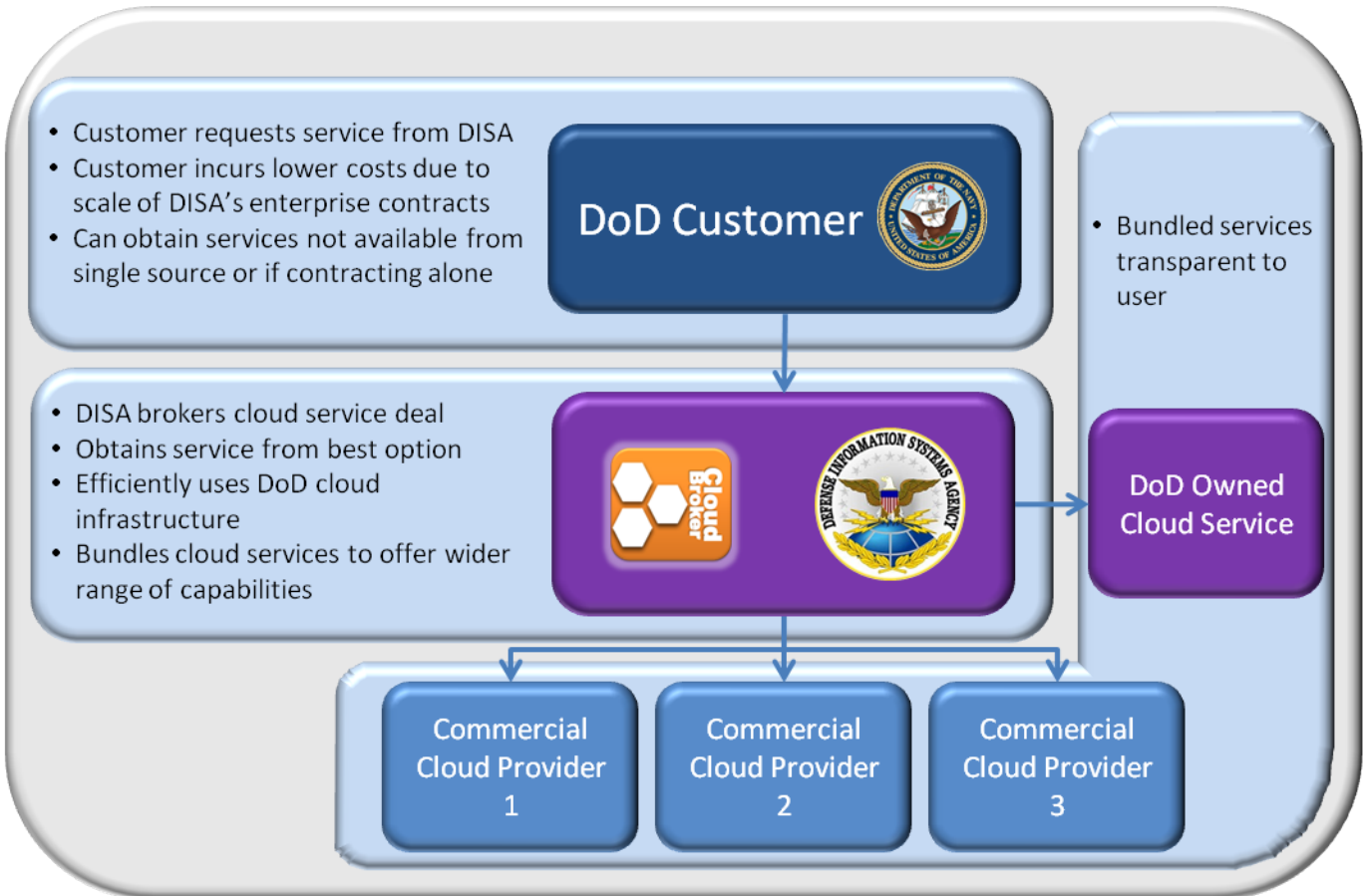


**Unified Capabilities**



# Enterprise Cloud Broker

As the DoD enterprise cloud broker, DISA will speed up cloud service utilization and procurement through a consolidated departmental and commercial cloud delivery service. As the cloud broker, DISA is responsible for data integration and ensuring the security and movement of data between the cloud consumer and multiple cloud providers. This brokering service will allow organizations throughout the Department to realize cloud-based capabilities more efficiently and effectively due to the scale of enterprise contracts and consolidation of DoD cloud infrastructure.



## DoD Cloud Computing Goal


*Implement cloud computing as the means to deliver the most innovative, efficient, and secure information and IT services in support of the Department's mission, anywhere, anytime, on any authorized device.*



# Data Center Consolidation



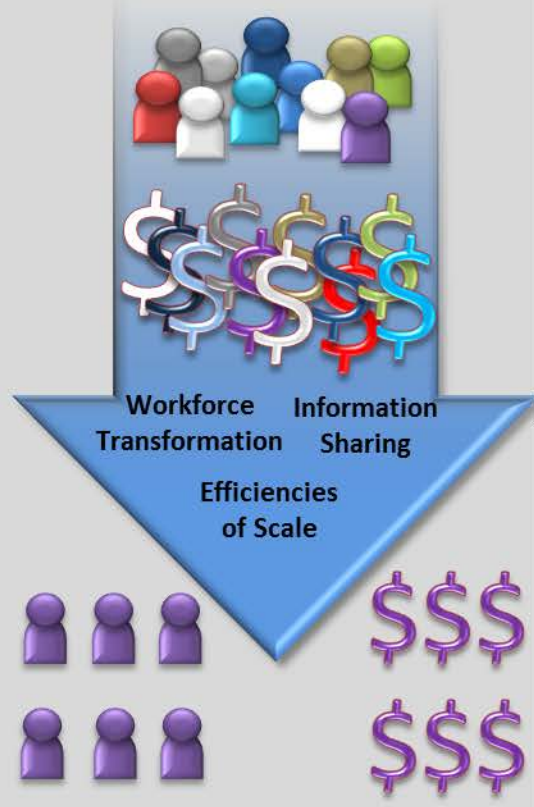
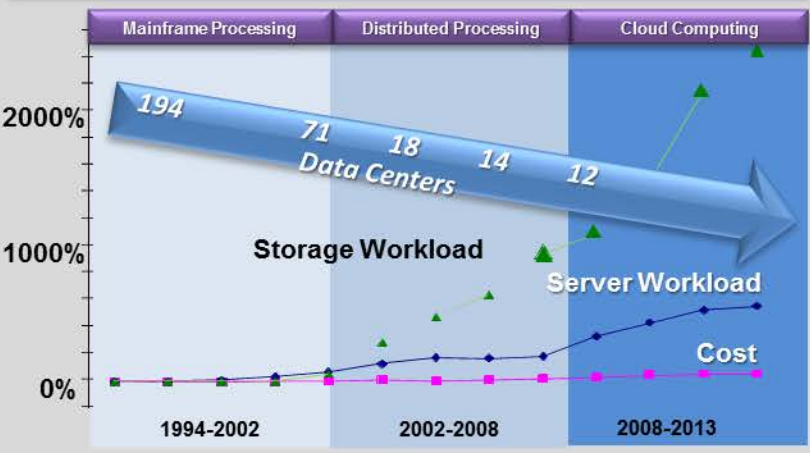
## Cloud Computing Services



## Enterprise Cloud Broker

**M**any of the JIE related cost savings are due to the consolidation of datacenters across the DoD. These consolidations have been taking place for nearly two decades but are now a major component of the evolution of the JIE. Since 2009, DISA sponsored data center consolidation efforts have led to:

- FY09-FY12: Reduced Defense Enterprise Computing Center costs by \$113.5 million annually**
- All mainframe processing moved to two DECCs (\$5 million annually)
  - GCCS-AF & AF Logistics systems consolidated (\$14.9 million annually)
  - Closed two DECCs (\$7 million annually)
  - Manhour reduction of over 10K Full Time Equivalent positions; \$58 million FY09-12 tech refresh savings





# Enterprise Directory Service Identity and Access Management (IdAM)

**E**nterprise Directory Services (EDS) is a suite of services that provide authoritative DoD enterprise identity and contact attributes for Combatant Commands, Services, and Agencies. EDS is composed of DoD Enterprise White Pages, Global Directory Service (GDS), and Identity Synchronization Service.

**I**n the JIE, EDS will provide IdAM for person entities and non-person entities operating within the DoD Enterprise.

## Current EDS Services

### DoD Enterprise White Pages

A web based search utility where DoD personnel can retrieve authoritative identity and contact information for all DoD Common Access Card (CAC) holders.

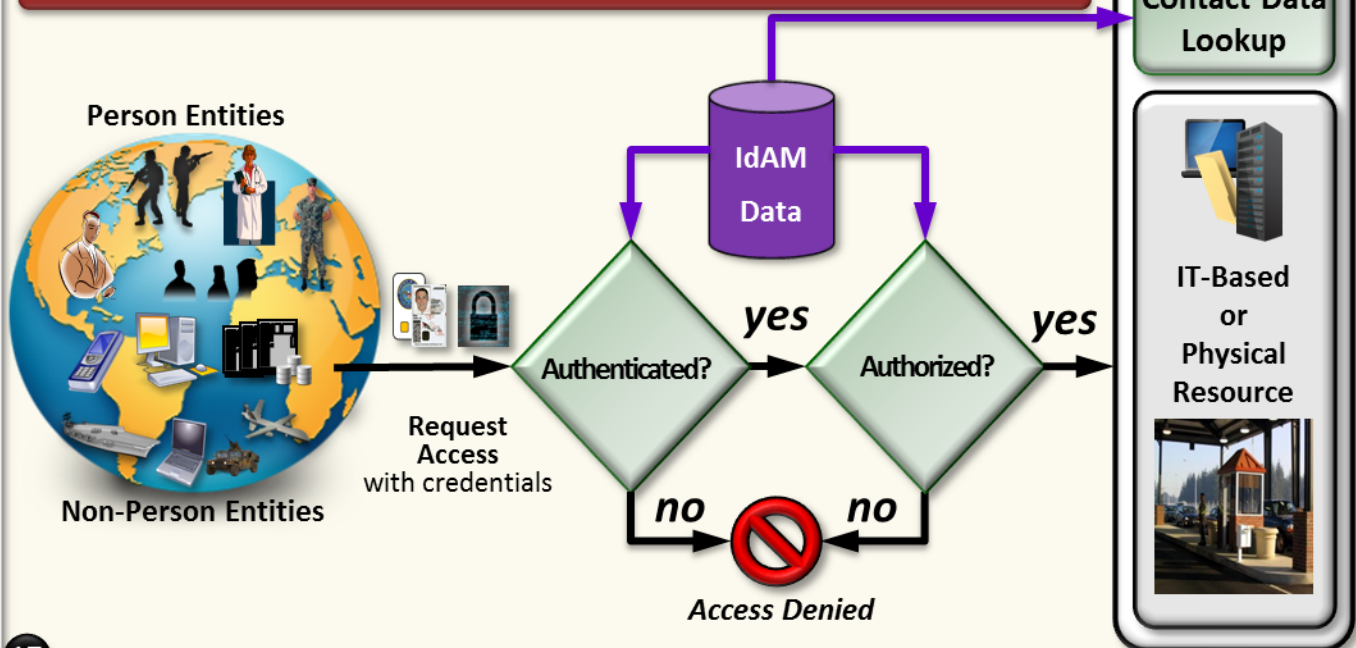
### Global Directory Service

A distribution point for personnel Public Key certificates, Certificate Authority (CA) Certificate Revocation Lists (CRLs), and CA certificates

### Identity Synchronization Service

A service utilized to populate Combatant Command, Service and Agency directories and Global Address Lists (GALs) with authoritative enterprise identity and contact attributes.

## Enterprise Identity and Access Management





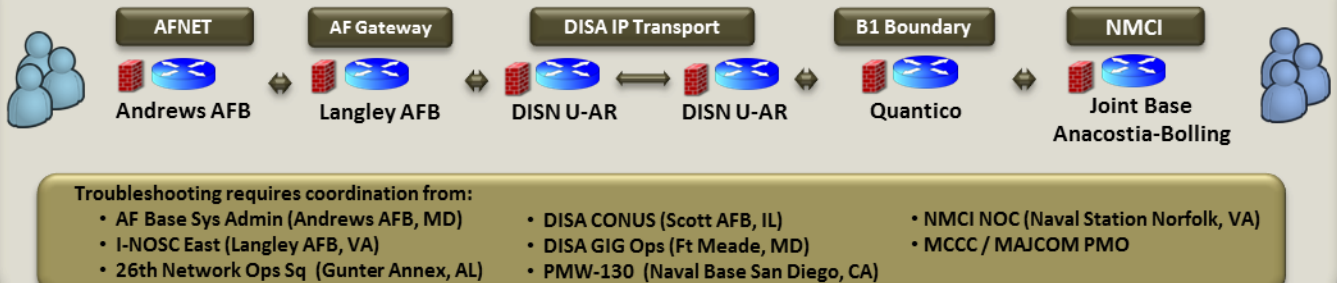
# Unified Capabilities

**U**nified Capabilities (UC) includes a broad set of voice-, video- and data-sharing capabilities that promise to enable unprecedented joint collaboration among the military services, combatant commands and defense agencies. IP-based solutions will enable DoD users to better collaborate via instant messaging, chat, enterprise voice-over-IP (VOIP), global video services, IP video, Web conferencing and unified messaging, among other applications.

“We know that it’s five times more expensive to maintain a legacy telephony network versus an IP-based converged environment.”

- Cindy Moran, Director, Network Services  
DISA

## Existing Architecture Example



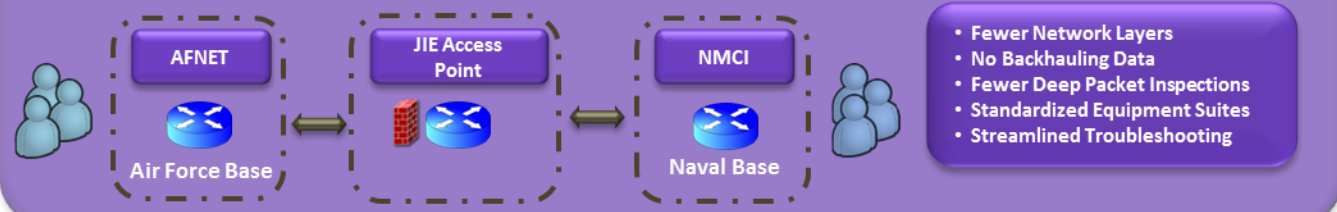
~4025 TDM B/P/C/S switches

TDM

Annual O&M = \$500M

**B**y offering all of these services over IP the Department avoids the duplication of costs for voice services, operations and maintenance, network operations, sustainment and information assurance at nearly 2,000 locations worldwide with a lower total cost of ownership.

## Future Architecture Example



- Joint forces communicate more seamlessly
- Leaner infrastructure is cheaper and easier to manage and maintain
- Fewer systems exposed to potential cyber attack; reduced cyber attack surface

18 DoD Soft switches &  
93 session controllers

IP

Annual O&M = \$100M



# Defense Enterprise Mobility

**M**obility is transforming how the Department of Defense operates, connects, and supports its stakeholders — most significantly, using mobile solutions to provide mission-essential tools to our warfighters. Mobility is a key component of the goal to enable mission partners to perform their missions and connect to the Joint Information Environment, using any authorized device, anytime, anywhere in the world.

**T**he focus is on "building the foundation" — designing governance processes and implementing an integrated Mobile Device Manager (MDM), Mobile Application Store (MAS), mobile Virtual Private Network (VPN), and other mobile capabilities.

**DISA** is working to streamline the deployment of mobile devices and services across the DoD through changes in both architecture and acquisition. To provide mobile services, DISA is contracting with commercial carriers capable of handling classified data. DISA is also reengineering its approach to how we evaluate devices and create Security Technical Implementation Guides (STIG) for their secure installation and deployment.

"This is not simply about embracing the newest technology, it is about keeping the department's workforce relevant in an era when information accessibility and cybersecurity play a critical role in mission success."  
- Ms. Teri Takai, Former CIO, Department of Defense

**P**reviously, the STIG development process often took so long that a mobile or enterprise technology could be obsolete by the time it was approved for use on DoD networks. By partnering with industry, DISA can now have a device approved for use on the DoD enterprise at the same time it is brought to the commercial market.

## Streamlined Device Approval Process

- DISA specifies IA requirements
- Industry develops device and writes STIG IAW IA guidance
- Device and STIG are delivered simultaneously
- DISA reviews device and STIG for compliance
- Device is approved for DoD use at same time as release to commercial market

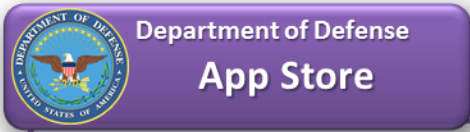


## The DoD App Store

Mobile devices will provide access to the DoD Information Networks (DoDIN), allowing warfighters to operate within the JIE when and where needed. The JIE will provide access to the information that the warfighter needs. But it is applications that will provide the toolkits to take advantage of that information.

The DoD CIO's goal is to develop an overall governance process, a centralized library, and a development framework in which mobile applications can be quickly developed, purchased, certified and distributed to users. DISA is once again challenged to meet this goal.

DISA will develop an unclassified enterprise Mobile Application Store (MAS) that will deliver, update and delete applications on mobile devices without the user having to return the device for service. The functionality will be similar to that found in commercial app stores, and will contain both commercially available apps and those created for exclusive use within the DoD. Eventually a similar system will be developed for classified devices.



### Deployed - Good 20



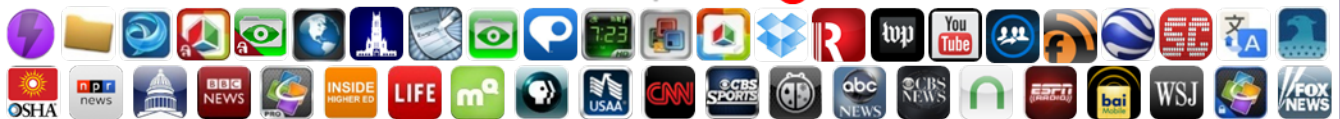
### Deployed - Mobile Iron 20



### In Review/Testing 21



### Requested 44



### Joint Information Environment Single Security Architecture

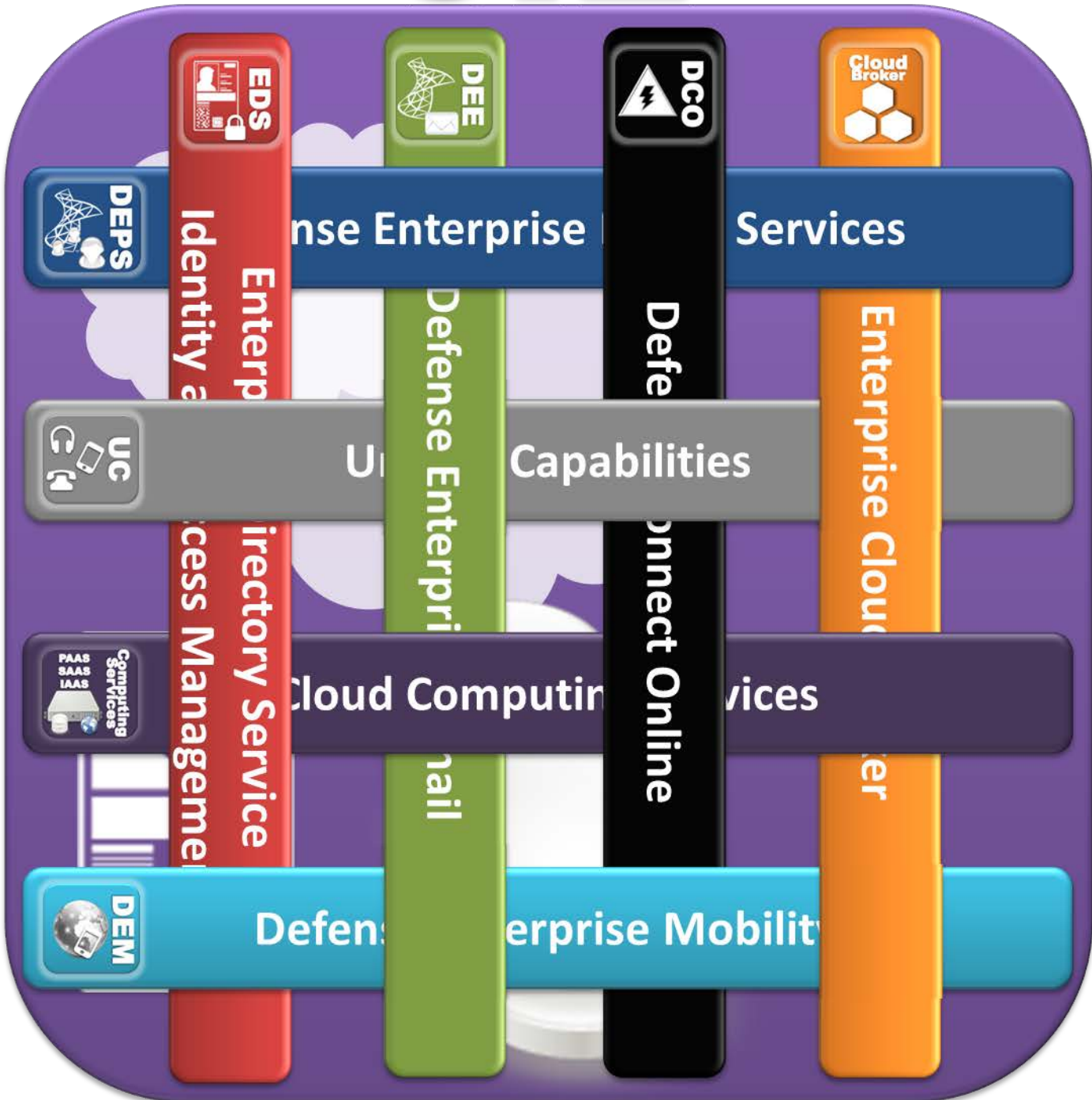
### C2 and Decision Support Apps



# Enabling the JIE

DISA's interwoven enterprise solution set will enable the JIE to deliver and protect the information-driven capabilities the warfighter deserves and needs to accomplish the mission.

# JIE



# Conclusion

The JIE is essential to bringing to bear the power of the Enterprise across the strategic, operational, and tactical levels. A standard, unified information environment is necessary to meet the operational and security requirements of modern joint military operations.

To make the vision of the JIE a reality, we must ensure that we think differently about how we deliver information technology to the warfighter. We must think enterprise first. We must embrace this new imperative and evolve the JIE to ensure secure and protected information access from every environment.

More information on JIE may be obtained from the Joint Technical Synchronization Office:  
<https://east.esps.disa.mil/disa/cop/jtso/SitePages/JTSO.aspx>



# Glossary

## A –

- ABCS – Army Battle Command System
- ADCON – Administrative Control
- ADO – Active Directory Optimization
- AF – Air Force
- AFNET – Air Force Network
- AFSCN – Air Force Satellite Control Network

## B –

- B/P/C/S - Base/Post/Camp/Station

## C –

- C&A – Certification & Accreditation
- CAC – Common Access Card
- CC/S/A – Combatant Commands, Services, Agencies
- CDC – Core Data Center
- CIO – Chief Information Officer
- CJCS – Chairman of the Joint Chiefs of Staff
- COCOM – Combatant Command
- CONUS – Continental United States
- COP – Common Operating Picture
- COOP – Continuity of Operations Plan
- CYBERCOM – United States Cyber Command

## D –

- DCO – Defensive Cyber Operations
- DCT – Device Configuration Tool
- DGO - DoD Global Information Grid Operations
- DECC – DISA Enterprise Computing Center
- DEE – Defense Enterprise E-mail
- DEPS – Defense Enterprise Portal Service
- DISA – Defense Information Systems Agency
- DISN – Defense Information Systems Network
- DMDC – Defense Manpower Data Center
- DMS – Defense Messaging System
- DoD – Department of Defense
- DoDI – Department of Defense Instruction
- DOT&E – Director of Operational Test & Evaluation
- DRSN – Defense Red Switch Network
- DSN – Defense Switched Network

## E –

- EANCS – Enterprise-wide Access to Network and Collaboration Services
- EA – Enterprise Architecture
- EC – Enterprise Cloud
- EDS – Enterprise Directory Services
- EOC – Enterprise Operations Center
- EXCOM – Executive Community



**EXORD** – Execution Order

## **F –**

## **G –**

**GBS** – Global Broadcast Service

**GCCS** – Global Command and Control System

**GCSS** – Global Combat Support System

**GDS** – Global Directory Service

**GEOC** – Global Enterprise Operations Center

**GIG** – Global Information Grid

## **H –**

**HF** – High Frequency

## **I –**

**I-NOSC** – Integrated Network Operations and Security Center

**IA** – Information Assurance

**IAAS** – Infrastructure as a Service

**IAP** – Integrated Access Point

**IAW** – In accordance with

**IC** – Intelligence Community

**ICD** – Initial Capabilities Document

**ICS** – Industrial Control Systems

**IdAM** – Identity and Access Management

**IEA** – Information Enterprise Architecture

**IOT** – Initial Operational Capability

**IP** – Internet Protocol

**IT** – Information Technology

**ITESR** – IT Enterprise Strategy and Roadmap

**ITW/AA** – Integrated Tactical Warning and Attack Assessment

## **J –**

**JDN** – Joint Data Network

**JIE** – Joint Information Environment

**JMC** – JIE Management Construct

**JOSG** – JIE Operational Sponsor Group

**JTSO** – JIE Technical Synchronization Office

**JWICS** – Joint Worldwide Intelligence Communications System

## **K –**

## **L –**

**LOS** – Line of Sight

## **M –**

**MAJCOM** – Major Command

**MAS** – Mobile Application Store

**MCCC** – MAGTF (Marine Air-Ground Task Force) Communications Control Center

**MDA** – Missile Defense Agency

**MDM** – Mobile Device Manager

**MILDEP** – Military Department

**MSS** – Mobile Satellite Service

**MW/MD** – Missile Warning / Missile Defense

## **N** –

**NGA** – National Geospatial-Intelligence Agency

**NIPR** – Non-Classified Internet Protocol Router Network

**NNT** – Network Normalization and Transport

**NMCI** – Navy Marine Corps Intranet

**NOC** – Network Operations Center

**NRO** – National Reconnaissance Office

## **O** –

**O&M** – Operations and Maintenance

**OOB** – Out of Band

**OPCON** - Operational Control

**OT&E** – Operational Test & Evaluation

## **P** –

**PAAS** – Platform as a Service

**PMO** – Program Management Office

**PNT** - Pentagon

## **Q** –

## **R** –

**RF** – Radio Frequency

## **S** –

**SA** – Situational Awareness

**SAAS** – Software as a Service

**SAP** – Special Access Programs

**SATCOM** – Satellite Communications

**SCADA** – Supervisory Control and Data Acquisition

**SIPR** – Secret Internet Protocol Routed Network

**SOCOM** – Special Operations Command

**SSA** – Single Security Architecture

**STIG** – Security Technical Implementation Guide

**STO** – Special Technical Operations

**STRATCOM** – United States Strategic Command

## **T** –

**TACON** – Tactical Control

**TADL** – Tactical Data Link

**TBMCS** – Theater Battle Management Core Systems

**TDM** – Time-Division Multiplexing

**TTP** – Tactics, Techniques & Procedures

## **U** –

**U-AR** – Unclassified Aggregation Router

**UAV** – Unmanned Aerial Vehicle

UC – Unified Capabilities

UCP – Unified Command Plan

V –

VPN – Virtual Private Network

VOIP – Voice Over Internet Protocol

VTC – Video Teleconference

W –

WAN – Wide Area Network

X –

Y –

Z –



Deployed Environment

Enterprise Information Environment

Access at the Point of Need



HOME



WORK



MOBILE  
(TDY/DEPLOY)



FUTURE DEVICES





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