



Defense Information Systems Agency

A Combat Support Agency

Enterprise Services *Today and Beyond*

16 & 17 August 2011

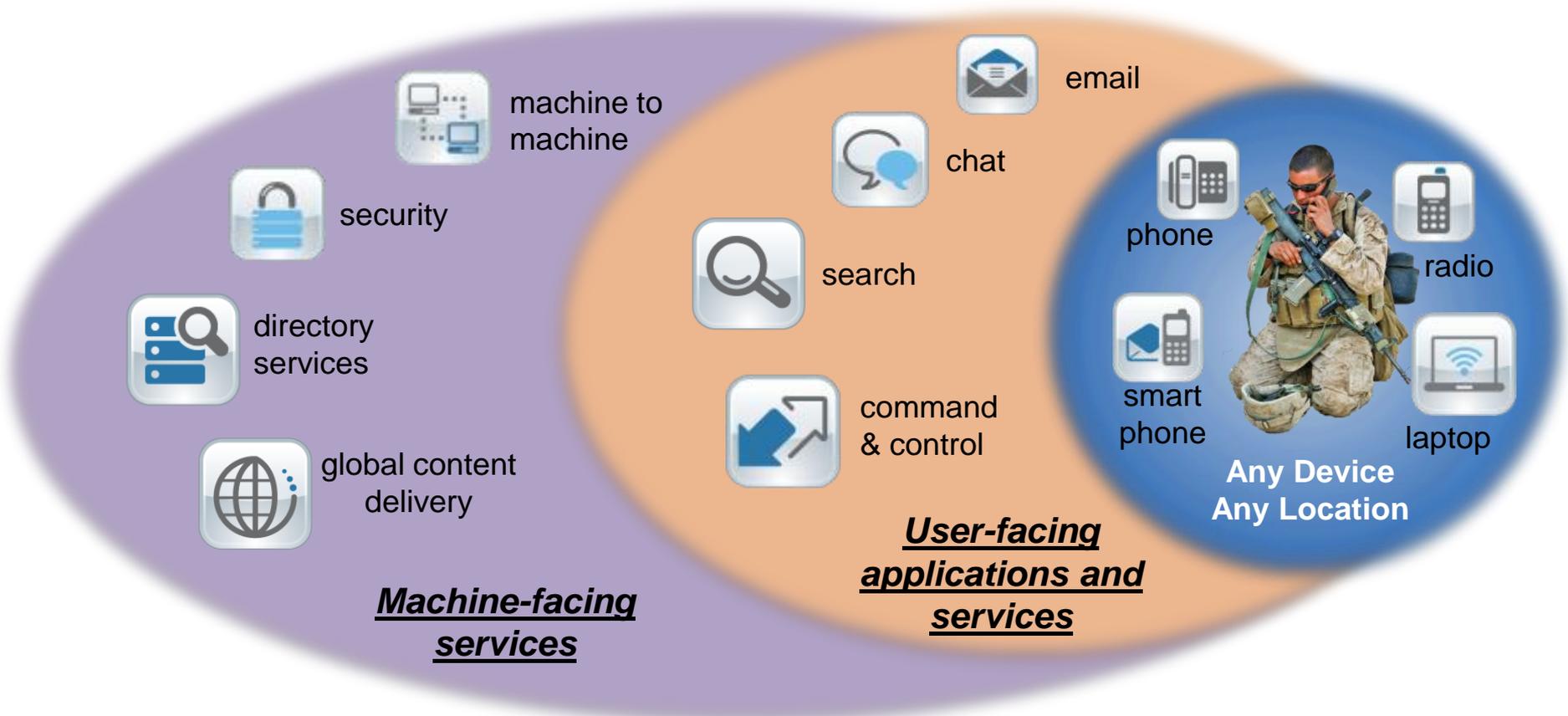


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- **Enterprise Services**
- **Evolution of Enterprise Services**
- **Enterprise Initiatives and Capabilities**
 - **Enterprise User**
 - **Identity and Access Management**
 - **Defense Collaboration Service**
 - **SKIWeb**
 - **Ozone Widget Framework**
- **Challenges**

Enterprise Services



Enterprise Services Enable End-to-End Joint Information Sharing



Evolution of Enterprise Services

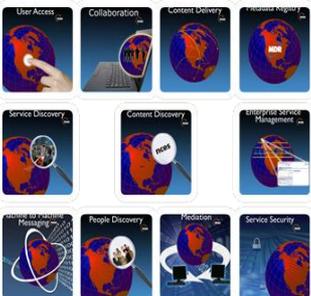
A Combat Support Agency
Portfolio of Core Services (2010)

Fielded Enterprise Services



Expanded Portfolio (2011)

Core Services



New Services/Initiatives



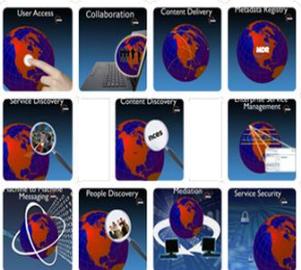
Innovation/Transformation



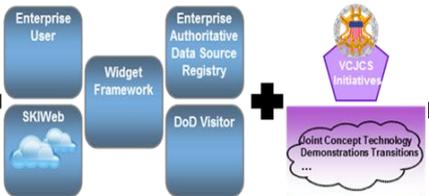
Future Enterprise Service Candidates

Expanded Portfolio (2012)

Core Services



New Services/Initiatives



Innovation/Transformation



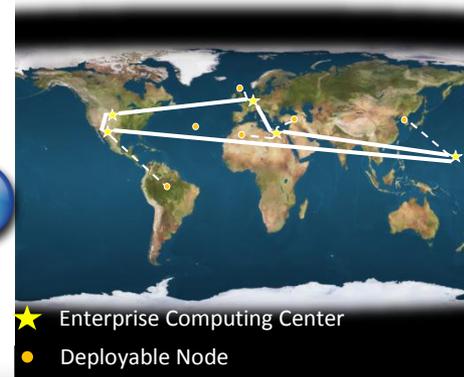
Future Enterprise Service Candidates

Enterprise Infrastructure Platform

Integrated Net Management Solution	Command & Control	Health Systems	Personnel Systems	Coalition Info Sharing	Integrated Information Assurance Solutions
	Functional Capabilities				
	Sensor to Shooter Information Exchange				
	ESM	User Facing Enterprise Application Services			
	ESM	Developer & Machine Facing Enterprise Application Services			
Enterprise Infrastructure Platform	ESM	Computing Services			
	EMS	Network Services			
	EMS	Terrestrial—Satellite Physical Paths			



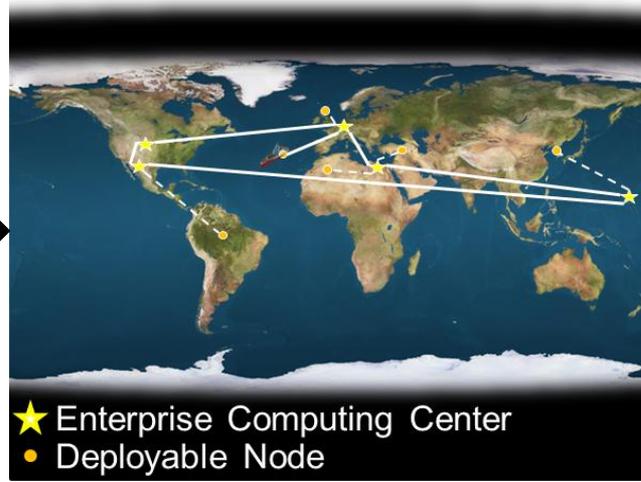
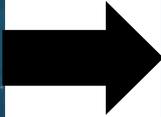
★ Enterprise Computing Center



★ Enterprise Computing Center
● Deployable Node

Evolving to keep pace with the warfighter's needs!

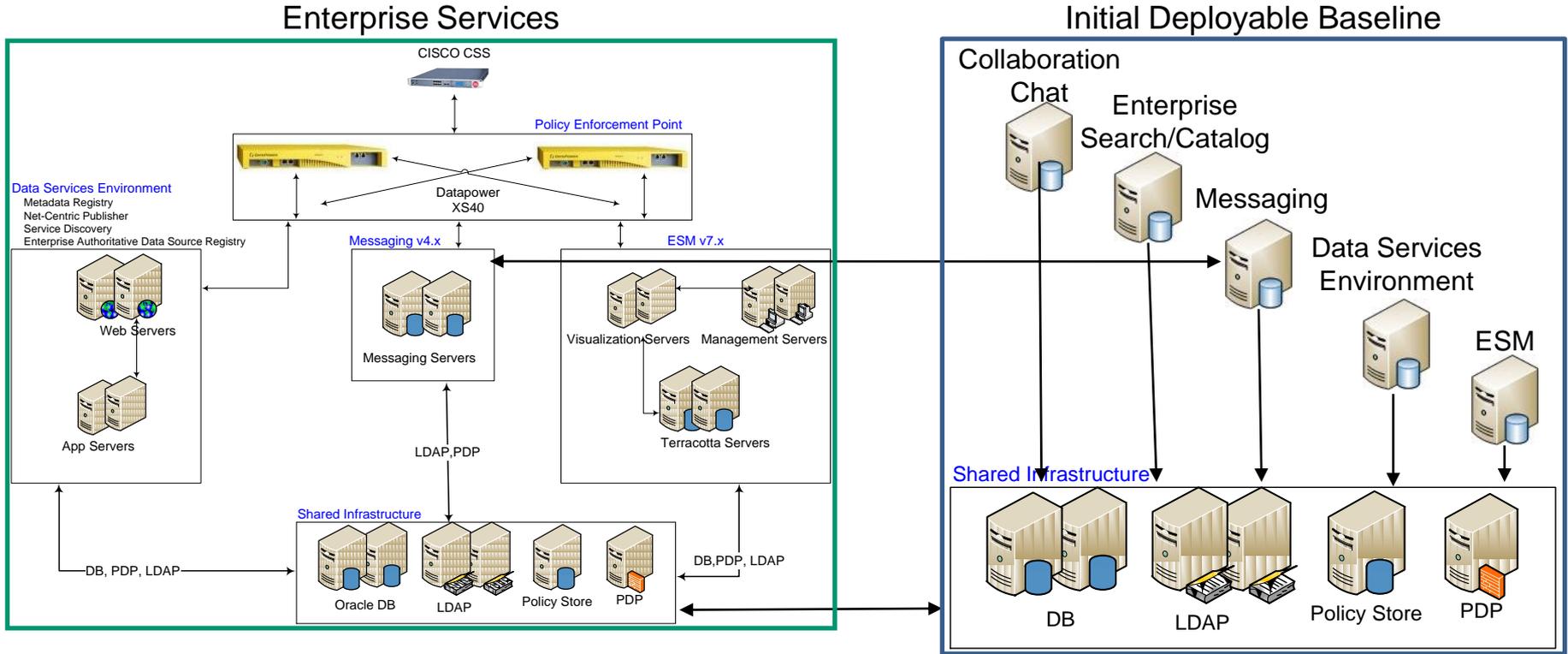
Deployable Enterprise Services



- Enterprise services deployable/on-demand
- Providing capability from the edge back to the core
- Pre-configured to federate with enterprise services when re-connected



Deployable Enterprise Services



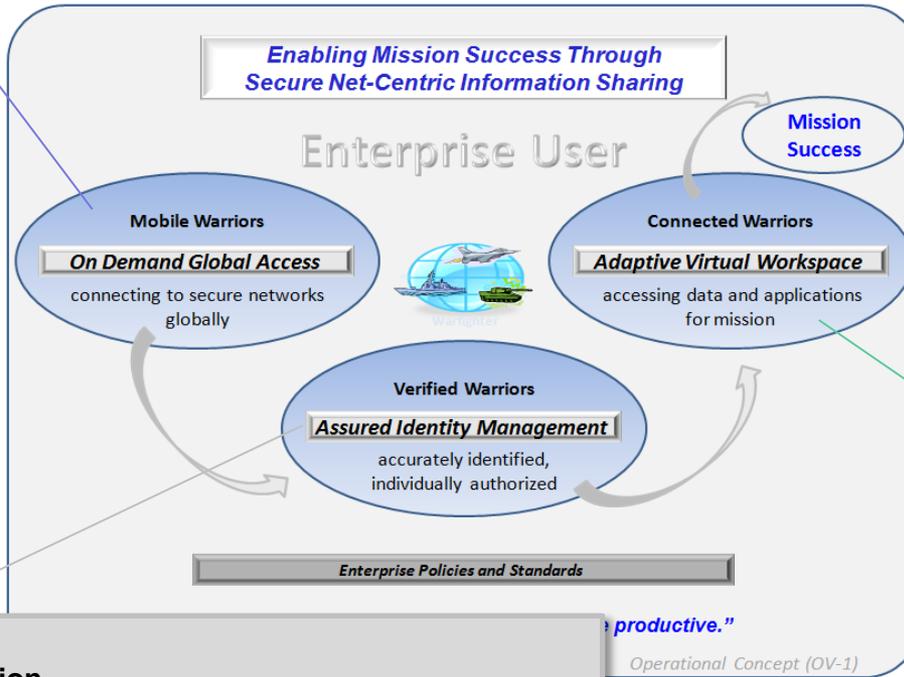
- **Enterprise Services deployable on-demand, providing capability from the edge back to the core**
- **Preconfigured to federate with enterprise services when connectivity is available**

- **Integration of capabilities to form an Enterprise Platform**
 - Ensure capabilities are Scalable to meet growing demand
 - Ensure capabilities are Always On
 - Architect services to support the warfighter in a Disconnected, Intermittent, Low-Bandwidth (DIL) environment
 - Enable on-demand, Deployable Enterprise Services
 - Implement Enterprise Identity and Access Management (IdAM)
- **Augment the enterprise services portfolio with needed capabilities**
- **Simplify and optimize the Enterprise Services architecture**
- **Move to small project development efforts**

Enterprise User

DoD-wide synchronization initiative enabling Warfighters to
"...go anywhere in the DoD, login, and be productive."

- **Current:**
 - DoD Visitor
- **Candidates:**
 - Non-DoD Visitor
 - Traveling Devices – Enterprise Mobile & Wireless Access Pilot
 - Multi-level Security (MLS) End-User Device Pilot
 - Enterprise Attribute Delivery Service – Tactical Edge



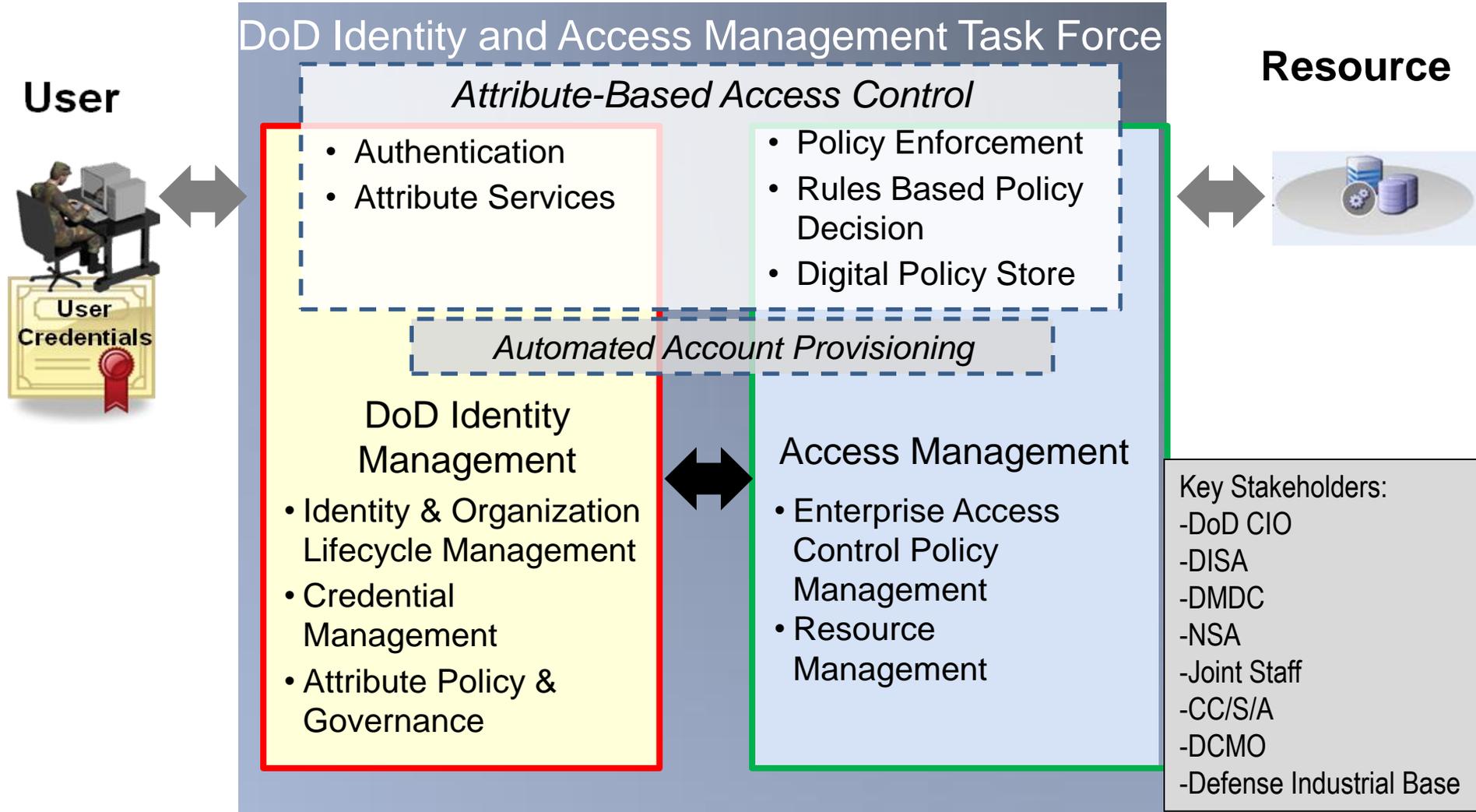
- **Current:**
 - Enterprise Email
- **Candidates:**
 - Universal Web 2.0 Interface for Legacy Application
 - Hosting Environment for Enterprise Services Validation
 - Virtual Workspace Pilot

- **Current:**
 - PKI Authentication
 - Enterprise Identity Attribute Service (EIAS)
 - Identity Synchronization Service (IdSS)
- **Candidates:**
 - Integrated DEERS/Global Force Management Enterprise Attribute Service
 - Identity and Access Management/Attribute Based Access Control Reference Implementation

IdAM: Secure Net-Centric Information Sharing Goals

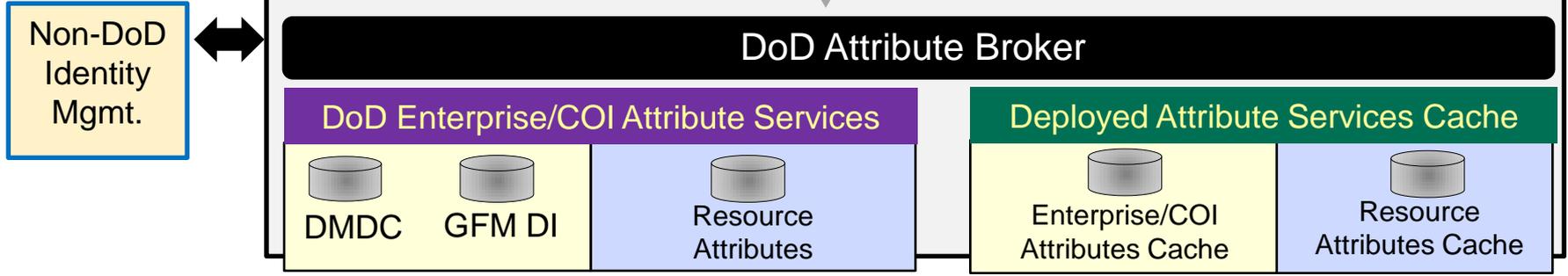
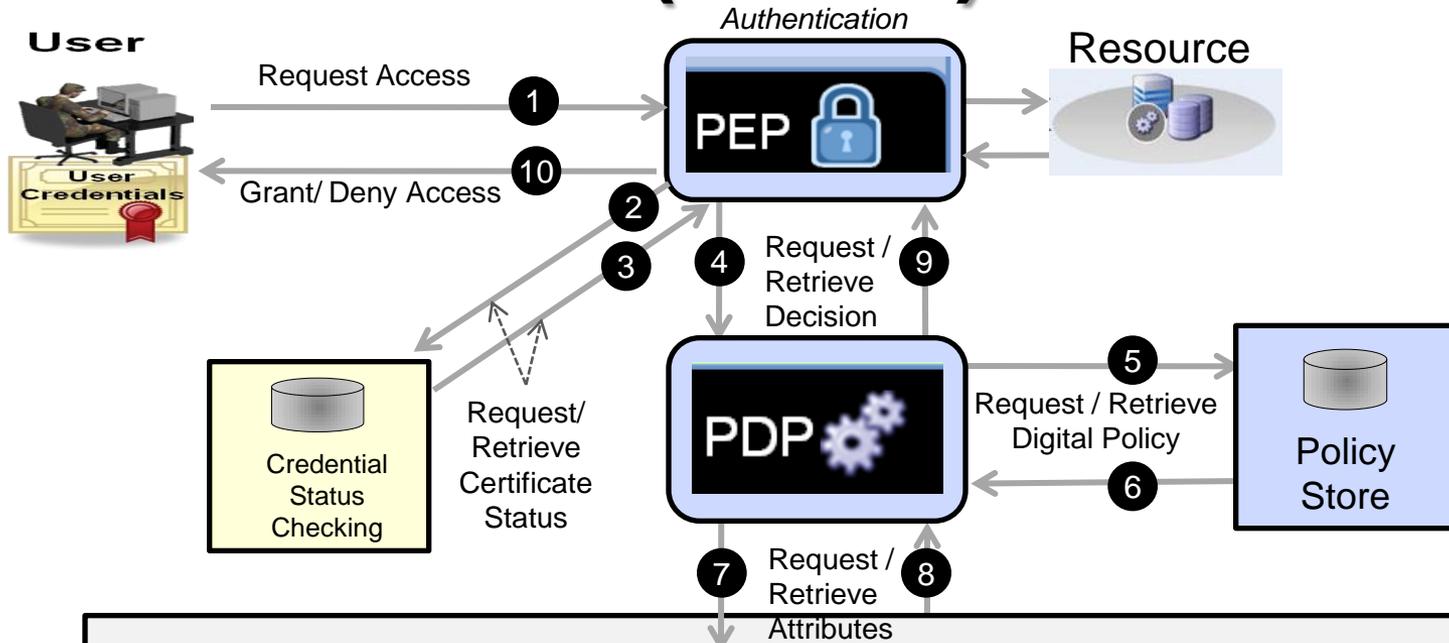
- **Operational Effectiveness**
 - Increase Warfighter access to required information and services, especially across organizational and security boundaries
 - Increase network flexibility, allowing for rapid response to operational conditions
- **Information Security**
 - Drive out anonymity via strong cryptographic authentication (PKI)
 - Standardize access policies to enable more consistent access decisions
- **Efficiencies**
 - Reduce duplicative costs associated with existing stove-piped and redundant identity and access management systems
 - Increase agility and interoperability with the implementation of commercial standards

Identity and Access Management Enabling Access Control



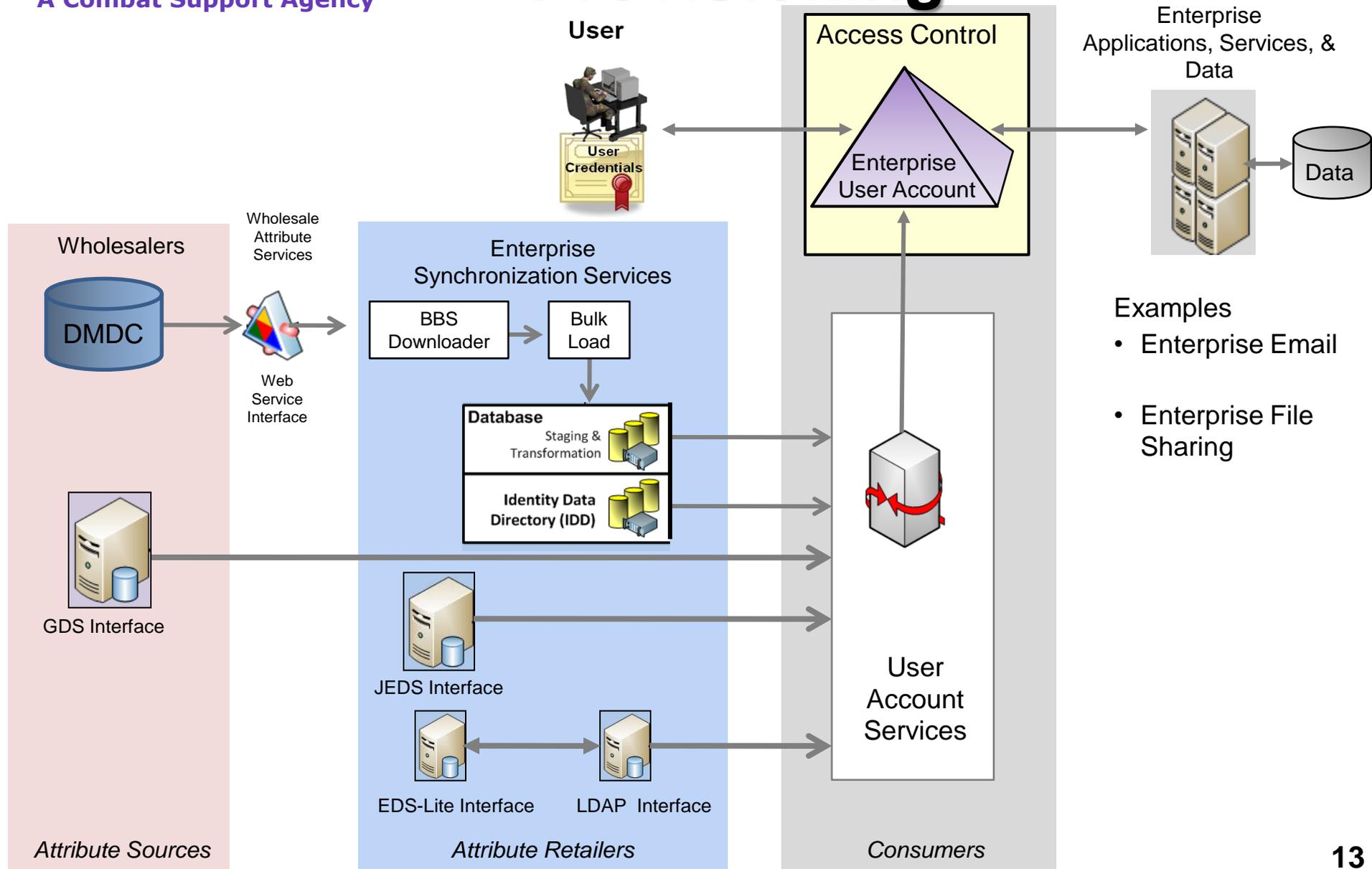
IdAM Task Force aligning efforts; co-chaired by DoD CIO and DISA

Basic Attribute Based Access Control (ABAC) Architecture

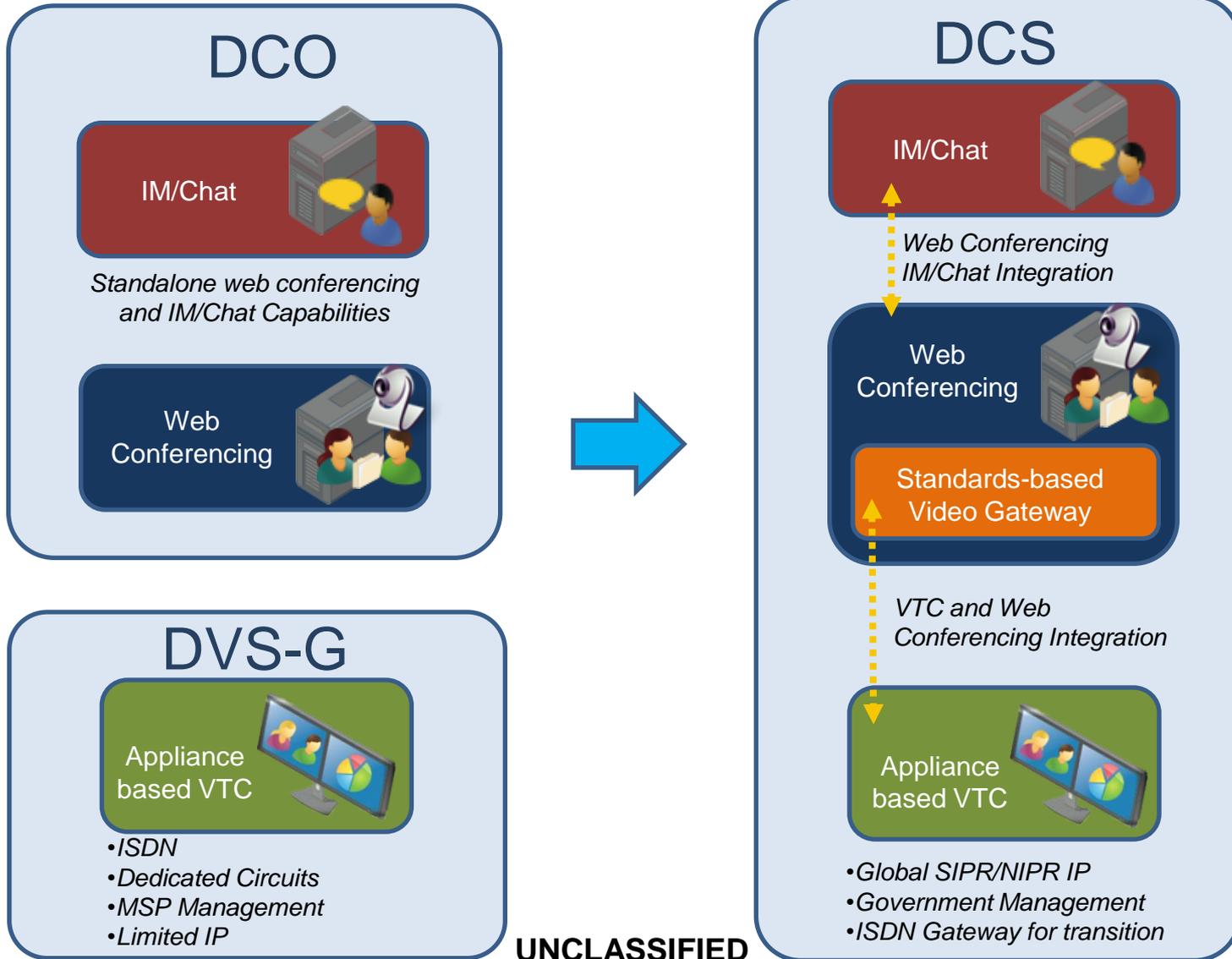


- Policy Enforcement Point (PEP): Controls access to resources based on policy decisions from the PDP
- Policy Decision Point (PDP): Determines if access should be granted by comparing access policies with requestor attributes
- Policy Store: Contains pre-defined policies/policy sets which define the attributes necessary to access a particular resource.
- Attribute Services: Services that provide requestor attributes from one or more Authoritative Attribute Source

Automated Account Provisioning



Defense Collaboration Service

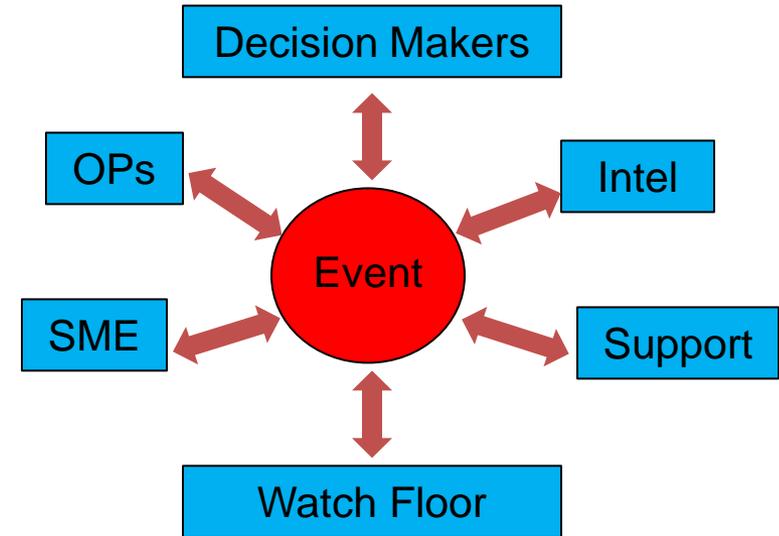


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Strategic Knowledge Integration Web (SKIWeb)



Provides event entry and threaded discussions

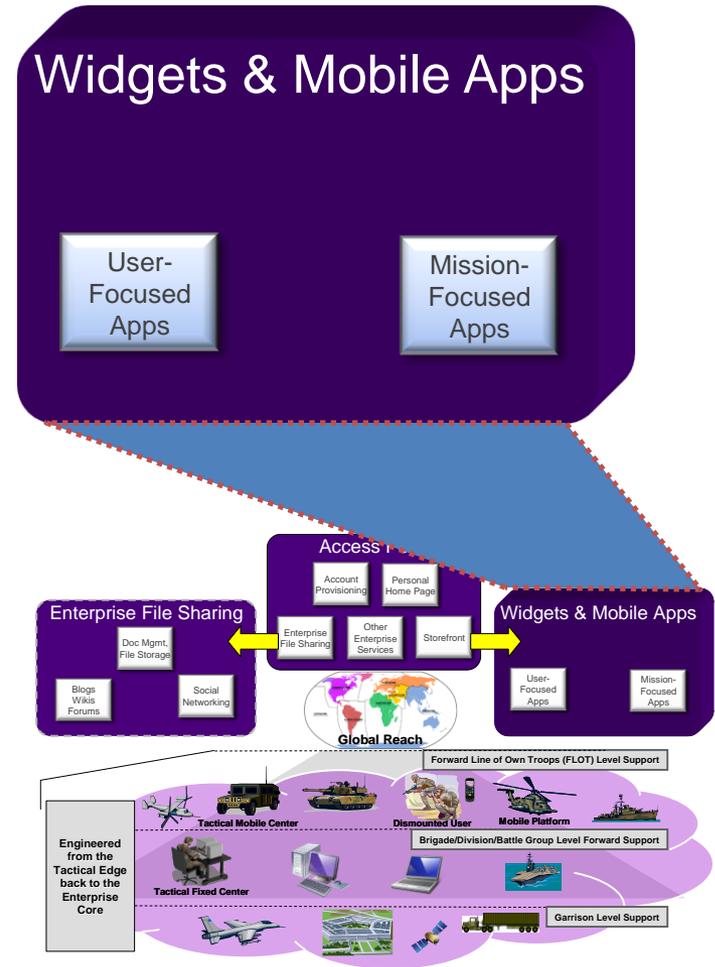


- Flattens an organization thru concept of need to share vice need to know
- Enables decentralized planning, decision-making, and execution of mission areas without abdicating responsible control
- Real-time reporting on SIPRNet and JWICS (Provided by DIA)

SIPRNet transitioned to DISA FY11

Widgets, Mobile Apps, and the DoD Storefront

- **DoD/IC Widget Framework**
 - **Ozone Widget Framework (OWF)**
 - Governed under the Government Open Source Software (GOSS)
 - GOSS members include NSA, DoD CIO, DNI CIO, and DISA
- **Storefront**
 - Composable/Customizable (user-defined display)
 - Marketplace for users to add capabilities
 - Transitioned from DoD CIO to DISA
- **Mobile Apps**
 - Integrated Enterprise App Store serves widgets and mobile apps
- **Key Issues**
 - Widget and mobile application certification process & governance
 - Authentication / Authorization
 - Scalability



Challenges

Governance

**Rapid, agile delivery
of capability**

**Deploying and scaling
to a heterogeneous
Enterprise**



**Engineering from the
edge back**

Tagging data

Understanding the environment

Federation

Identity Management and Access Control

- Need realistic access policies endorsed by the enterprise
- Need taxonomy of terms for use in access control policies

