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# Computing and Cloud Services

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# Capacity Service Overview

Scale to needs; contractor owns and maintains equipment



Pay much like a homeowner does for utilities



Deploy capacity to any DISA site or any site DISA identifies



Provide delivery schedules < 30 days and 24x7/365 support



Access to newest generation of technology and training





## The Way Ahead

### Cloud 2.0

- Deliver milCloud 2.0 platform via acquisition of a commercial on-premise cloud capability



### milCloud 1.x

- Increase automation and integrated ordering; reduce time and costs
- Support modifications facilitating mission partner transition



### Standards Based Hosting

- Provide standard hosting environments via capacity services
- Increase automation and orchestration; reduce time and costs





## The Way Ahead (cont'd)

### Engineering Services

- Provide application rationalization & migration services
- Offer shared/common services for capacity services standard hosting and milCloud

### Develop Storage-as-a-Service offerings

- Full access to shared workspaces requires installation of the CTERA Agent on the Client Computer or Mobile device
- Cloud storage service provides internet accessible file storage and document collaboration

### Converged Systems

- Continue support for ERPs and other converged systems
- Charge full-cost recovery, rather than leveraging basic services rates

### Non-standard / Unique Hosting and Mission Partner Floor Space Rental

- Remove UNISYS mainframe, AIX server, and Itanium (HP-UX) server from the service catalog
- Pursue rates that incentivize mission partners towards standard solutions



# milCloud and Beyond

**John Hale**  
**Chief, DISA Cloud Portfolio**  
**21 April 2016**



## Why is DISA focused on Cloud?

- **Moving services to a cloud infrastructure will reduce operational costs by maximizing available resources**
- **Enhances standardization by utilizing utility platforms**
- **Provides increased agility to mission partners changing needs**
- **Ensures the DoD keeps pace with commercial providers**



## Near Term Cloud Activities

- **Continue to deliver and evolve milCloud 1.0 (on-premise government integrated private Infrastructure as a Service cloud capability)**
- **Deliver the Cloud Access Point (CAP) to provide secure access commercial cloud provider's services**
- **Continue to evolve the (DoD) Cloud Computing Security Requirements Guide (SRG)**
- **Continue to work with and guide commercial cloud service providers through the Provisional Authorizations (PA) process**





## milCloud 1.0

**milCloud 1.0 is a government integrated, government managed DoD on-premise private cloud solution built using a combination of commercial off the shelf software with a contracted orchestration engine**

- **milCloud 1.0 provides Computer Network Defense Service Provider (CNDSP) services for the Boundary and Infrastructure levels**
- **Mission Owners are responsible for providing Mission CNDSP**

**In FY16/17 DISA will continue to evolve and enhance milCloud 1.0:**

- **Enhance milCloud 1.0 capabilities to ease mission partner migration to the milCloud platform**
- **Increase automation and integration with other DISA services to shorten time to delivery**



## DISA's 2015/2016 Cloud Strategy (cont.)

### **Deliver the Cloud Access Point (CAP) for DoD mission partners to securely access commercial cloud providers and capabilities**

- **CAP's primary purpose is to protect the DoDIN, while enabling secure access to commercial cloud services**
  - Web Content Filtering
  - Packet Capture
  - Firewall and Proxy
- **DISA CAP will continue to evolve as technology advances**
  - Currently evaluating moving from NIPR Federated Gateways to direct connections
- **CAP is a core function of the Secure Cloud Computing Architecture (SCCA) which includes security services that support DoD cloud activities**

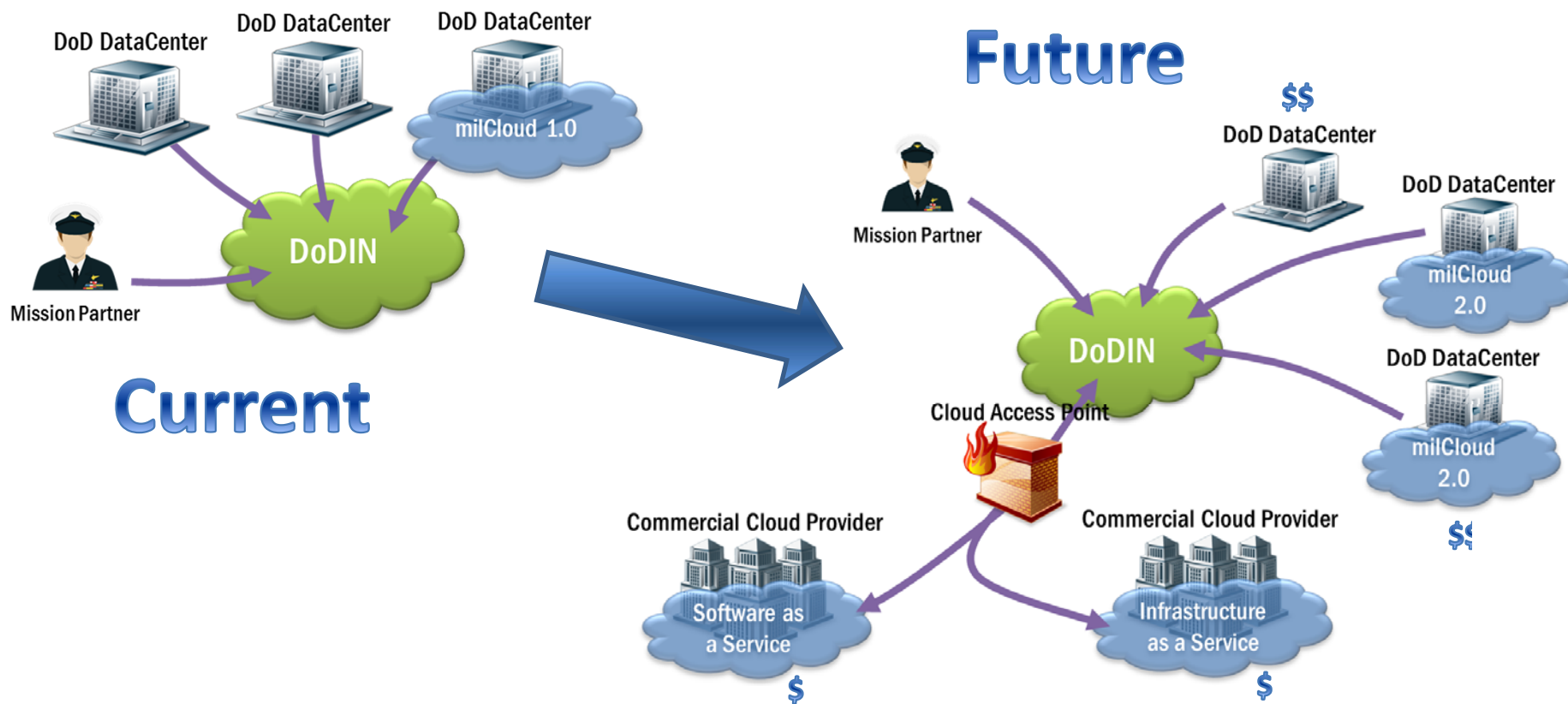


## Long Term Cloud Activities

- **Deliver milCloud 2.0 (on-premise commercially provided private Infrastructure as a Service cloud capability)**
- **Evolve the Cloud Access Point (CAP) into the Secure Cloud Computing Architecture (SCCA)**
- **Continue to improve the DoD's security posture while reducing operating costs**



# DISA Current and Future Cloud Efforts





## milCloud 2.0

**milCloud 2.0 will replace milCloud 1.0 with an acquisition of a commercial on-premise cloud capability to be delivered to our mission partners through DISA delivery mechanisms**

**milCloud 2.0 is being implemented in two phases:**

- **milCloud 2.0 Phase I (Operational 4QFY16):**
  - **Limited in scope to unclassified only**
  - **Limited to a fixed number of operational environments**
  - **Proves operational model of commercially provided on-premise private cloud**
  - **Inform milCloud 2.0 Phase II acquisition**



## milCloud 2.0 (cont.)

- **milCloud 2.0 Phase II (Operational 4QFY17):**
  - Provides services to both unclassified and classified (Secret) networks
  - Multi-site redundant solution
  - Will be a commercially provided on-premise private cloud service providing Infrastructure as a Service (IaaS) to DoD
  - Services to DoD mission partners will be acquired through DISA's service catalog



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