



# Cloud Issues in DoD

**Morning Panel**

**March 25, 2017**



# Cloud Issues in DoD



## Your Panelists



**Mr. John Hale**  
**DISA**

*State of Cloud in DoD*

**Mr. Jason March**  
**Natoma**

*Cloud Migration  
Methodology*



**Mr. Frank Konieczny**  
**USAF**

*Challenges in Migrating  
Legacy Systems to Cloud*

**Mr. Ted Brunell**  
**Red Hat**

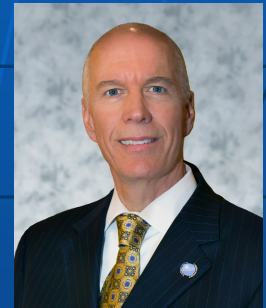
*Technology Enablers  
For Cloud Migration*



**Mr. Robert Foster**  
**DLA**

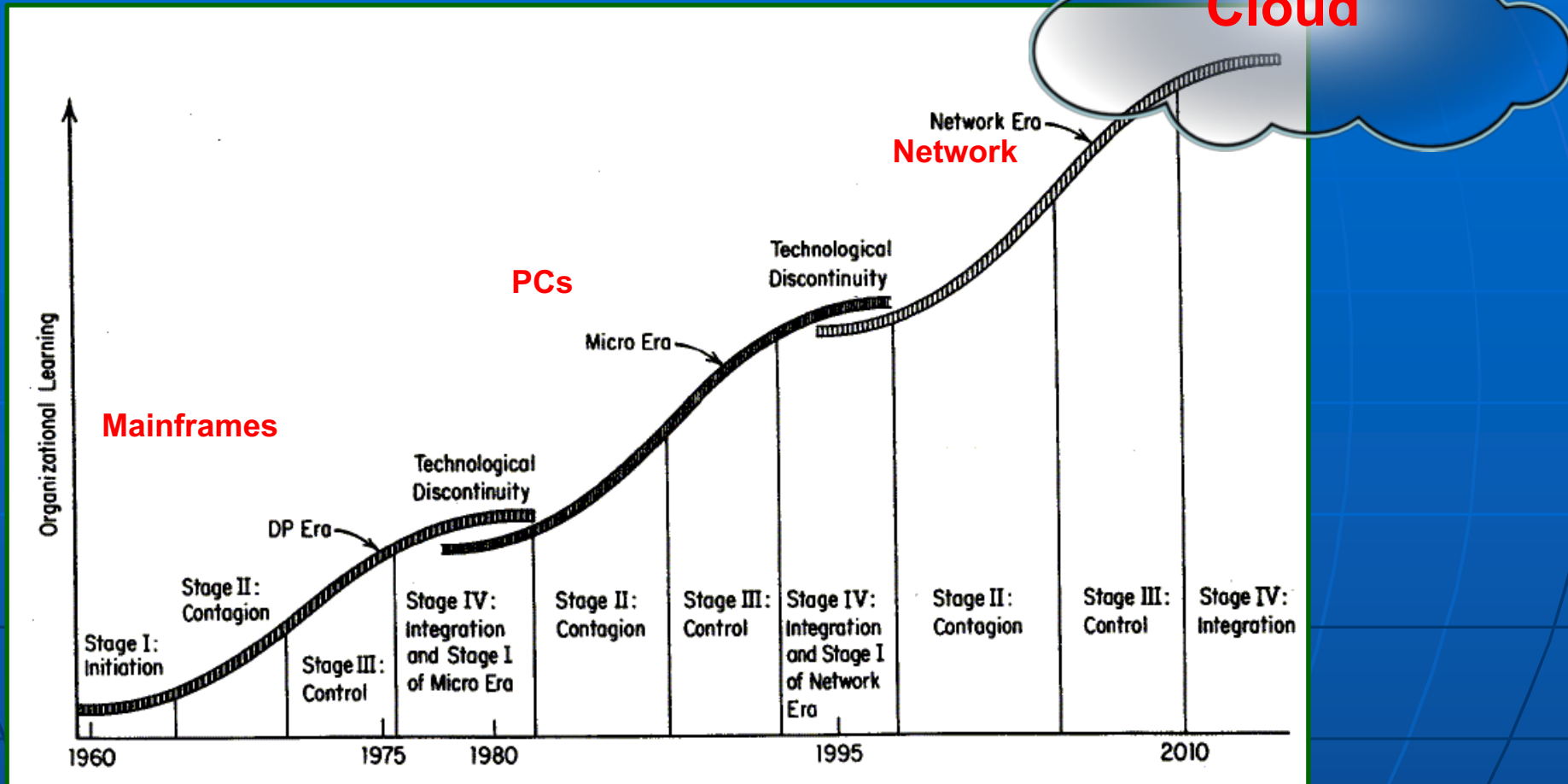
*Insights from:  
A DoD Cloud Success*

**Dr. Al Mink**  
**Systems Spirit**  
*Moderator*





# The Cloud Era In Context



*From "A Nation Transformed by Information", Chandler and Cortada*

**Cloud is (just) the newest technological era to challenge Federal IT leaders**



# Talking Cloud

## Definitions Related to Cloud



### 1. Characteristics

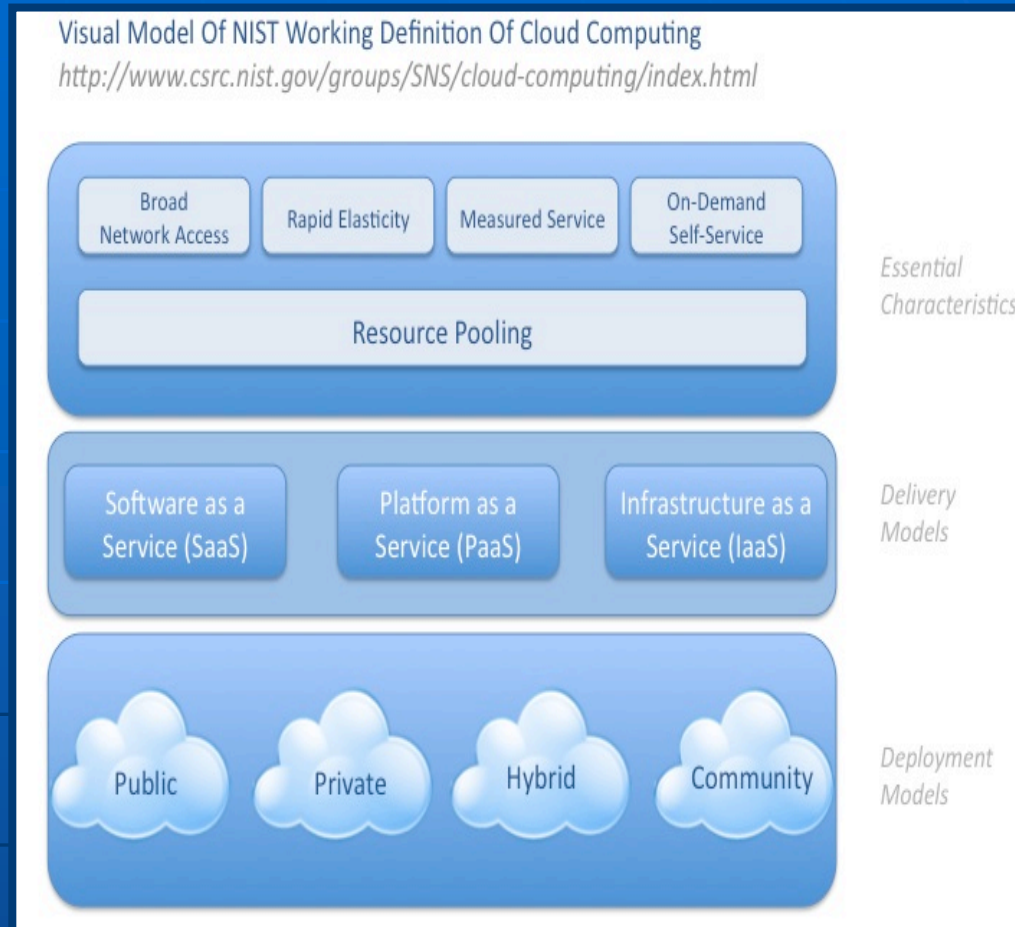
- On-demand Self-Service
- Rapid Elasticity
- Broad Network Access
- Measured Service
- Resource Pooling (Multi-tenancy)

### 2. Delivery Models

- Infrastructure as a Service (IaaS)
- Platform as a Service (PaaS)
- Software as a Service (SaaS)

### 3. Deployment Modes

- Public
- Private
- Hybrid
- Community



**Cloud Professionals Speak This Vocabulary**



# Why Cloud?



## Federal CIO Says...

### Efficiency

**Lower costs.** Cloud provides economies of scale that should reduce costs. Cloud may also change the nature of costs from upfront capital expenses (CapEx) to ongoing operational expenses (OpEx).

### Agility

**Scalability and upgradability.** Cloud provides value through rapid provisioning of computer resources – scaling up and down quickly; adding and cancelling users easily.

### Innovation

**New or better capabilities.** Cloud can enhance customer satisfaction, usage/availability, and functionality.



# Why Cloud?



## Additionally (PhD Research)

<b>Focus on Mission</b>	<b>IT Infrastructure is not Core</b> <ul style="list-style-type: none"><li>➤ Cloud frees personnel and leadership time to focus on Mission-IT</li><li>➤ Helps IT leaders say “no” to some requests</li></ul>
<b>Budgeting</b>	<b>Fund from O&amp;M (DoD)</b> <ul style="list-style-type: none"><li>➤ Cloud can be paid for from a different appropriation (than traditional IT)</li></ul> <b>Budget more Defendable</b> <ul style="list-style-type: none"><li>➤ Moves IT Infrastructure to “Must Pay”, similar to utility expenses</li></ul>
<b>Compliance</b>	<b>Federal Mandates</b> <ul style="list-style-type: none"><li>➤ “Cloud First”, OMB, and Congress push for Cloud</li><li>➤ Federal Data Center Consolidation Initiative (FDCCI)</li></ul>
<b>Leadership</b>	<b>Justifiable Bragging Rights</b> <ul style="list-style-type: none"><li>➤ Personal and Organizational visibility</li></ul>
<b>Timing</b>	<b>When (not just “if”)</b> <ul style="list-style-type: none"><li>➤ Technology Refresh</li><li>➤ First movers validated cloud</li></ul>



# Cloud Issues in DoD



**If Cloud is so wonderful,**

**Why are we talking about issues here today?**

**Problem:** Cloud adoption in DoD has not moved as fast as anticipated. Migrating legacy applications has been particularly challenging.

## **Our Approach Today:**

- ✓ Understand the state of Cloud in DoD today
- ✓ Identify the challenges slowing Cloud adoption
- ✓ Explore ways to accelerate Cloud migration through:
  - Tips & lessons learned from a Cloud success (DoD)
  - Recommendations about migration methodologies (Industry)
  - Insights into new Cloud-enabling technologies



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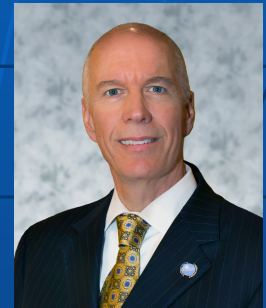
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# Moderator

## *Al Mink*



## Passions

- Federal IT decision making
- Business Development
- National security, particularly DoD
- Technology, particularly information technology
- Discovery and life-long learning

## Experience

### ✓ **Industry Executive**

- Managing Partner (Systems Spirit, LLC)
- National Security Strategy (SRA International)
- VP Defense & Intelligence (Unisys)
- CTO & COO (Systems & Software Consortium)

### ✓ **Military Leader**

- USAF Colonel (retired) 3000-hour Combat Pilot
- Technology Leader, Chief USAF IT Initiatives (Transition to Web/Internet)
- Acquisition/Resourcing, Executive Officer, Senior Military Assistant

### ✓ **Relevant Associations**

- AFCEA Past President and current Board Member \*\*\* CLOUD LEAD \*\*\*
- MIT Enterprise Forum, past Regional Chair & current Global Board of Directors
- NDIA, Systems Engineering Effectiveness Committee
- INCOSE, Technical Editor and Team Member, "SE Vision 2020"
- NVTC, Entrepreneur Center, Board of Advisors
- National Science Foundation, SBIR Phase I & II (Expert Panelist)

### ✓ **Academic**

- MIT SB & CMU MS in computer science and management. 2016 PhD from GMU in Federal Cloud
- National Security Fellowships at MIT and Stanford
- Honor graduate of Air Force and USMC Service Schools

