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# Biometrics in the DoD Today...Tomorrow

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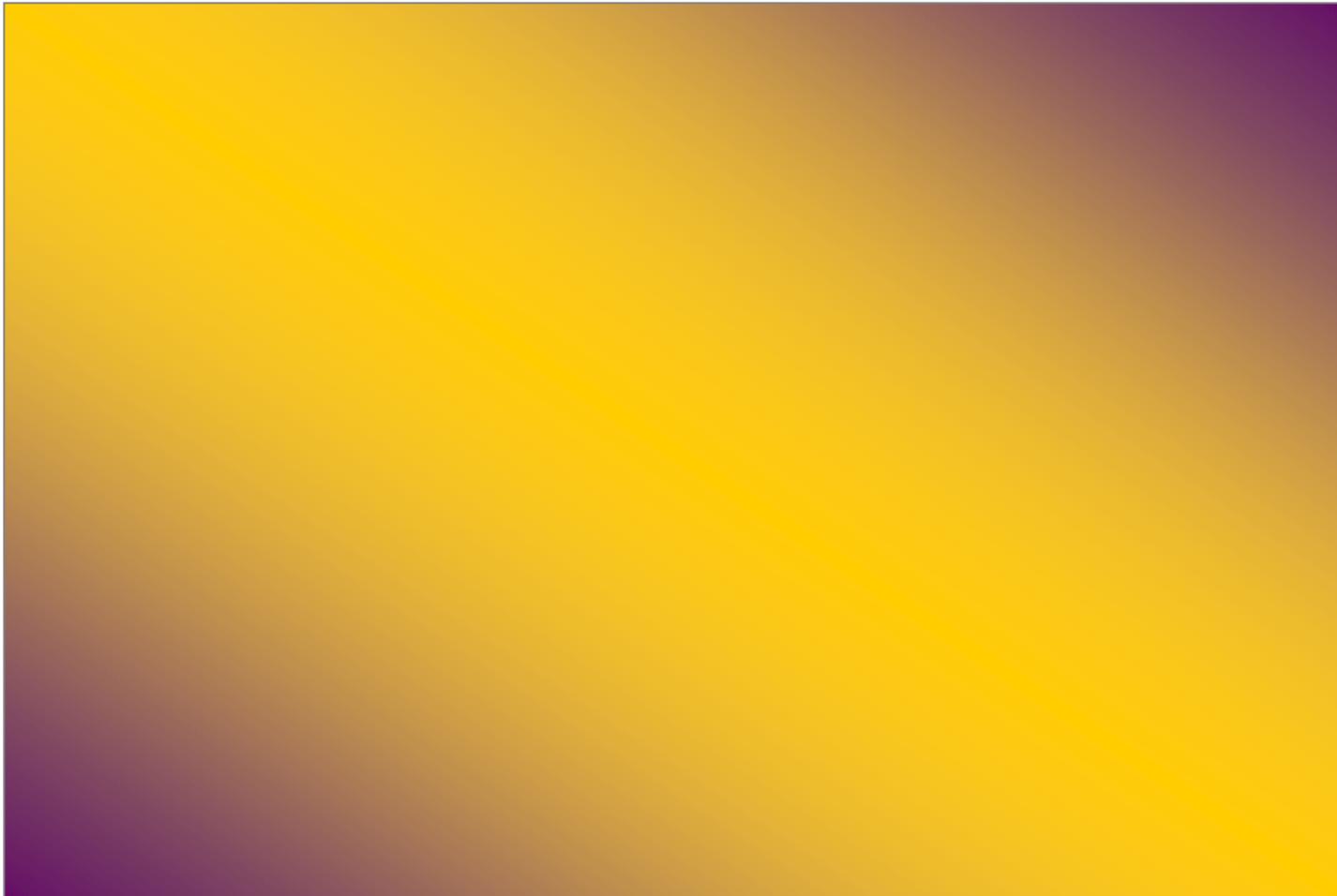
DEPARTMENT OF DEFENSE



POSITIVE IDENTIFICATION



# Biometrics in the DoD



# Today's Military & Identity Assurance

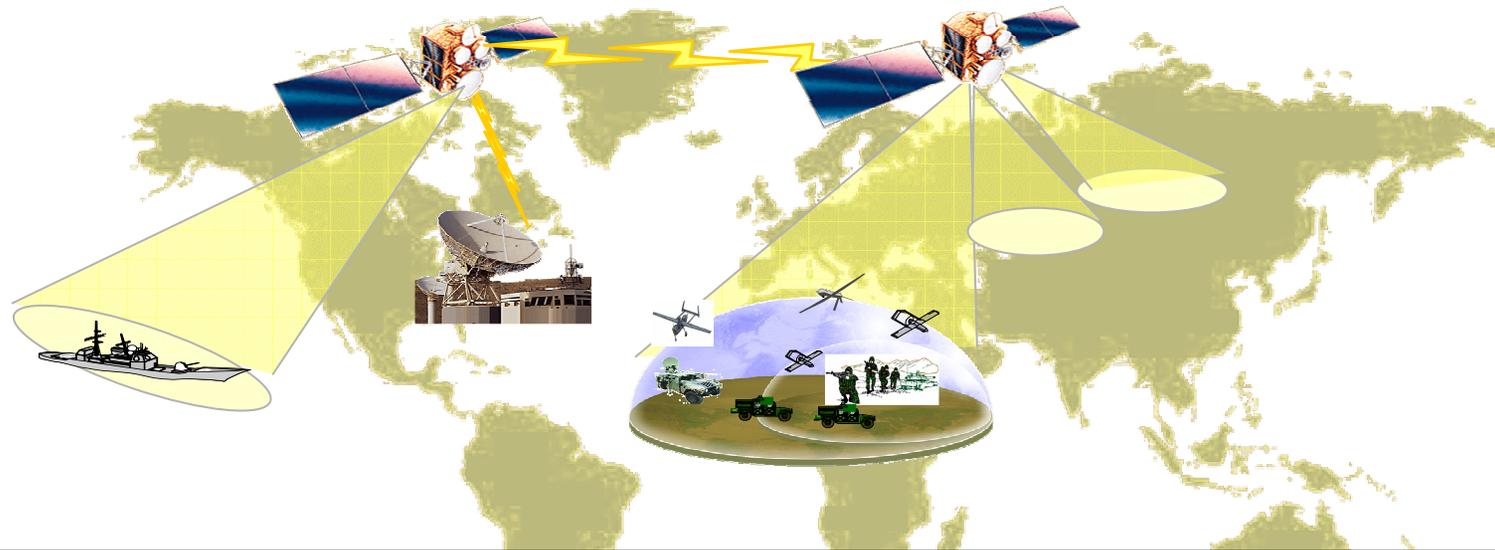
## **Changes in today's military...**

- Global operations
- Distributed working & warfighting scenarios
- Pushing increased volumes of sensitive data into the field
- Digitized battlefields and increased reliance on situational awareness technology

## **...require a paradigm shift in identity assurance.**

- Authenticate claimed identities
- Link actions with authenticated identities
- Employ a "human-centric" approach

# Communications: Fast, Continuous, & Global



- **DoD has committed billions of dollars to provide fast, continuous, and global communications to the warfighter.**
  - **Global Information Grid-Bandwidth Expansion (GIG-BE)**
  - **Global Broadcast System (GBS) Program**
  - **Warfighter Information Network-Tactical (WIN-T)**
- **Recent example: Army CIO/G-6 initiative to combine GuardNet, ARNet, and Army Networks**

# DoD's Network Centric Infrastructure Drives the Need for Identity Assurance

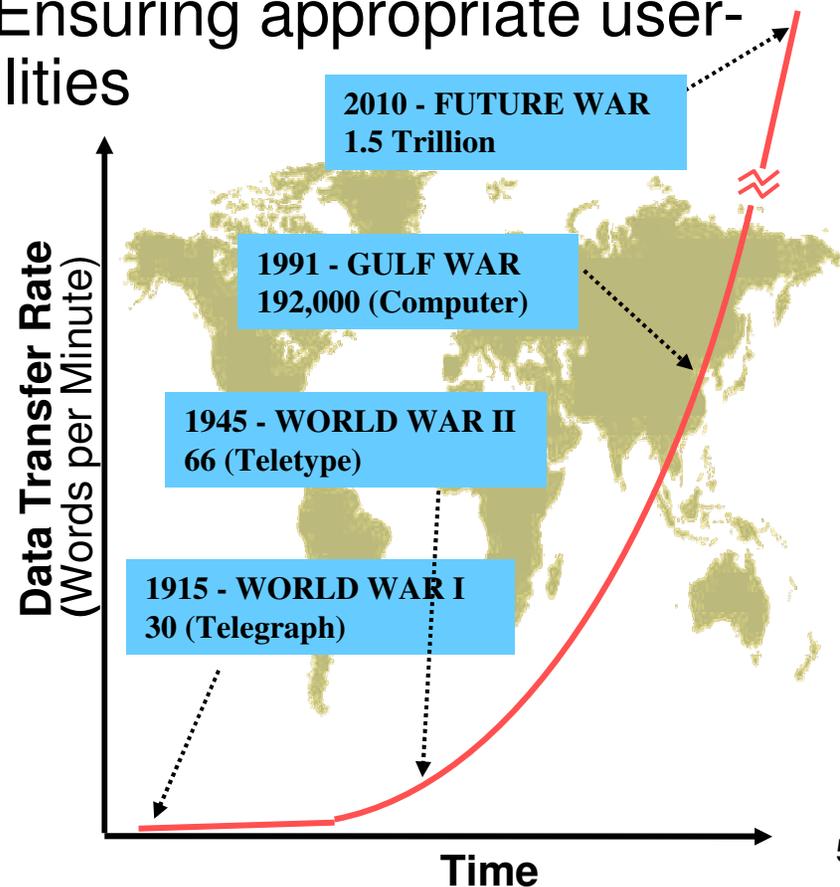
- Increasing Bandwidth → Increasing Data Flow
- Pushing “Power to the Edge”
- Raising Security Concerns: Ensuring appropriate user-level access to data and facilities

## Worldwide Installation of Cabled Fiber



Enough fiber to circle Earth **2658 times!**

105.5 Million KM of  
Cabled Fiber in 2004  
*Source: KMI Corp.*



# Toward Better Identity Assurance

## Objective



**100% Identity Assurance**

- Biometrics
- Enterprise Solution

## Status Quo



**Claimed Identity**

- “Official” Documents
- Tokens
- PINs & Passwords

## The Gap

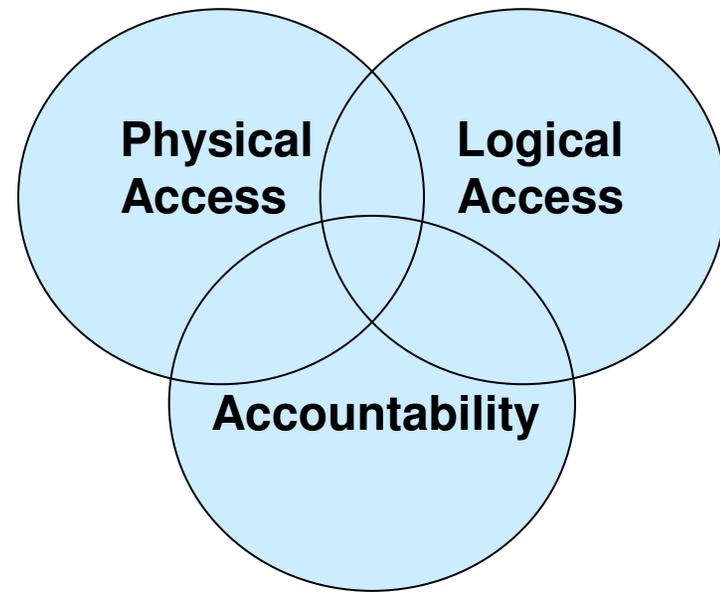
**Deficiencies in**

- Identity Authentication
- Access Control

## Biometrics in DoD: Good News

- **Growing acceptance for biometrics**

- Physical Access
- Logical Access
- Accountability



- **May 15, 2003 – ASD(NII) Memo designates Biometrics Program as ACAT-1AM**

- Initiates biometrics into DoD Acquisition Process
- Directs DoD-wide cooperation for Acquisition Process

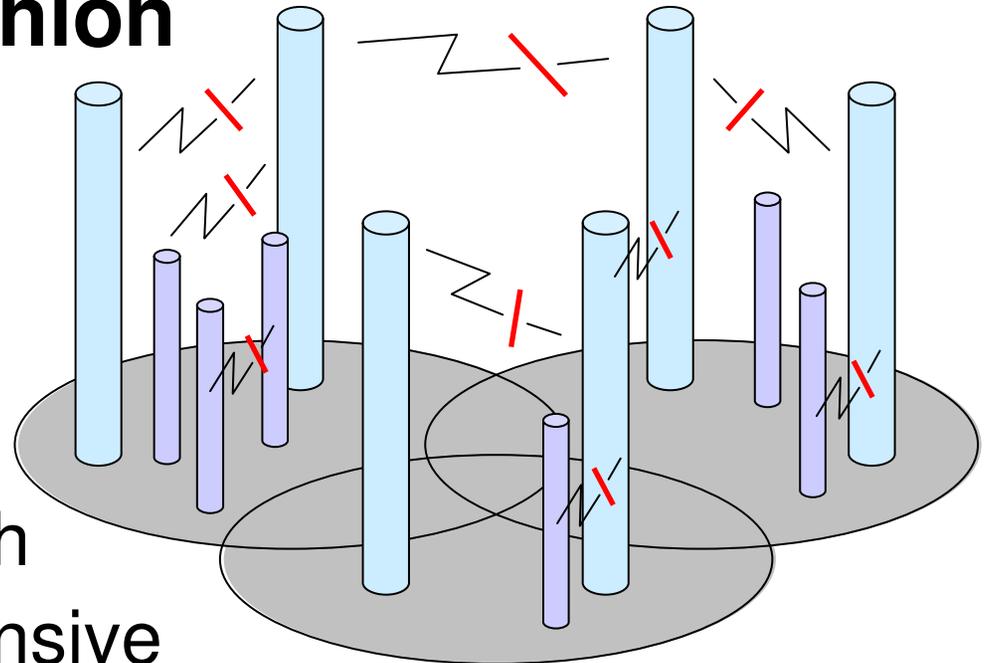
## Biometrics in DoD: More Good News

- **August 25, 2003 – Deputy Secretary of Defense articulates DoD Biometrics Enterprise Vision**
  - Directs DoD Components to use biometrics to an optimal extent by 2010
  - Supports a DoD Enterprise Approach for biometrics
  - Solidifies the BMO's role as the focal point for DoD biometrics

## What We Don't Want to Happen

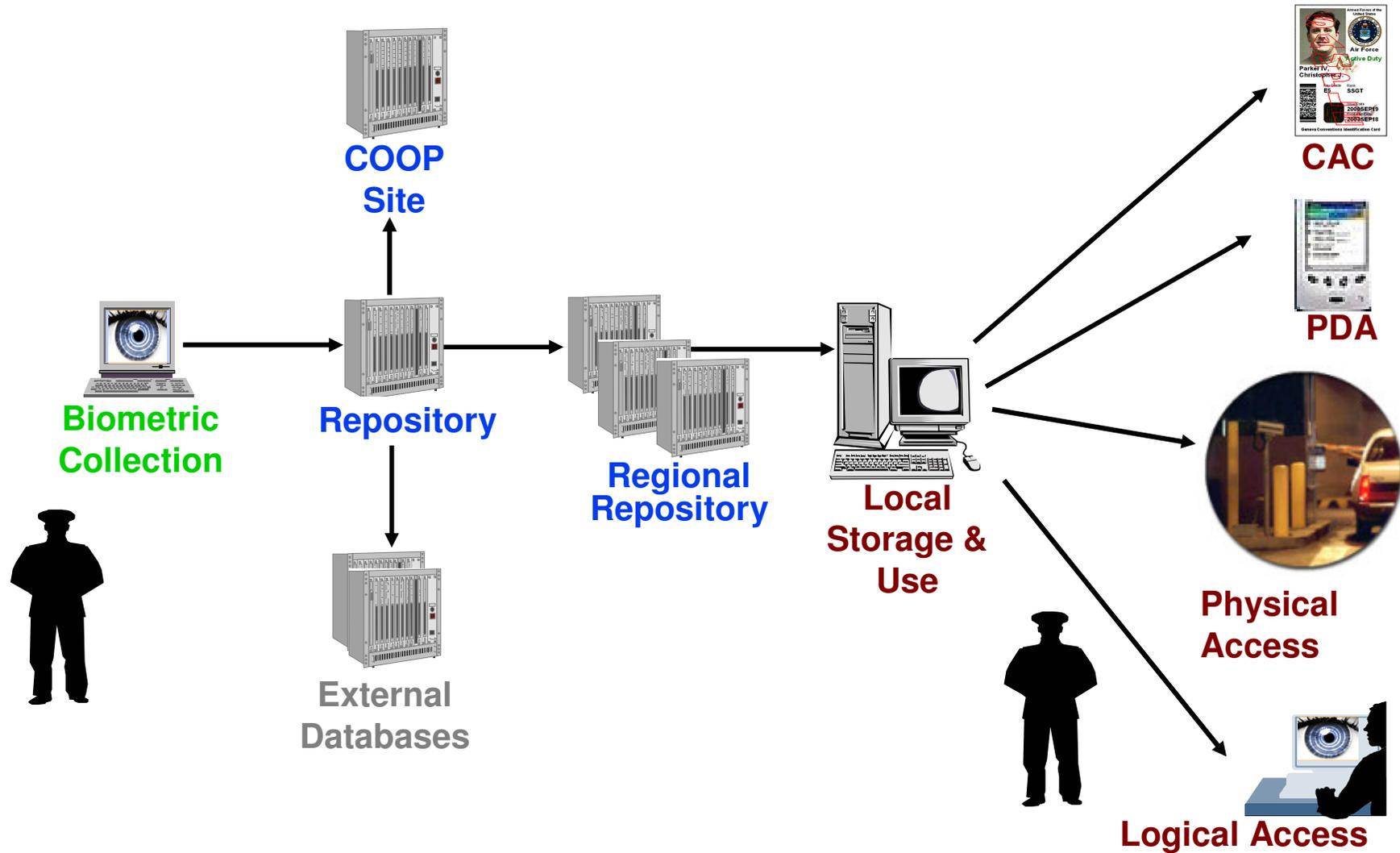
- **Technologies embraced in a one-off, stovepipe fashion**

- Focus is local, not global
- Result is a non-interoperable, expensive & disjointed approach
- Lack of comprehensive standards



**Air Force, Army, Navy, USMC,  
Other DoD Components, Other  
Government Agencies...**

# Conceptual DoD Enterprise Solution



## Current Challenges

- **Great need & strong support for DoD participation in standards development**
- **Solutions that optimize resources**
  - Minimize bandwidth demands
  - “Plug & Play” interoperability
  - Faster throughput
- **Solutions that focus on tactical applications**
  - Ruggedized sensors
  - Smaller footprint
  - Reduced power consumption
  - Compatibility with other operating systems

## Summary

- **Given today's military challenges, identity assurance in the DoD is not optional – it is mandatory**
- **Introducing biometric technologies into the DoD is not enough – they must be part of an integrated, interoperable, DoD-wide enterprise solution, in coordination with other US Government initiatives.**