



NASA ICAM

Office of the Chief Information Officer

***NASA IT Vision:** The NASA IT
Organization is the **very best**
in government*

Dennis Taylor

What is ICAM?

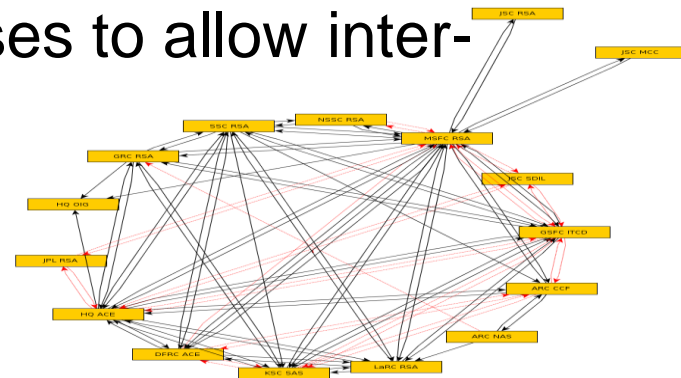
Identity, Credential, and Access Management provide Agency tools to answer these key questions:

- Who are you?
- How do you prove it?
- What can you use?



Before ICAM

- Ten or more implementations each for:
 - » Identity Management
 - » Badge Issuance
 - » RSA Token accounts
 - » Directory Services
 - » More....
- Isolated stovepipes or complex meshes
- Need for paper processes to allow inter-Center collaboration
 - » Slow, laborious





The Consolidation

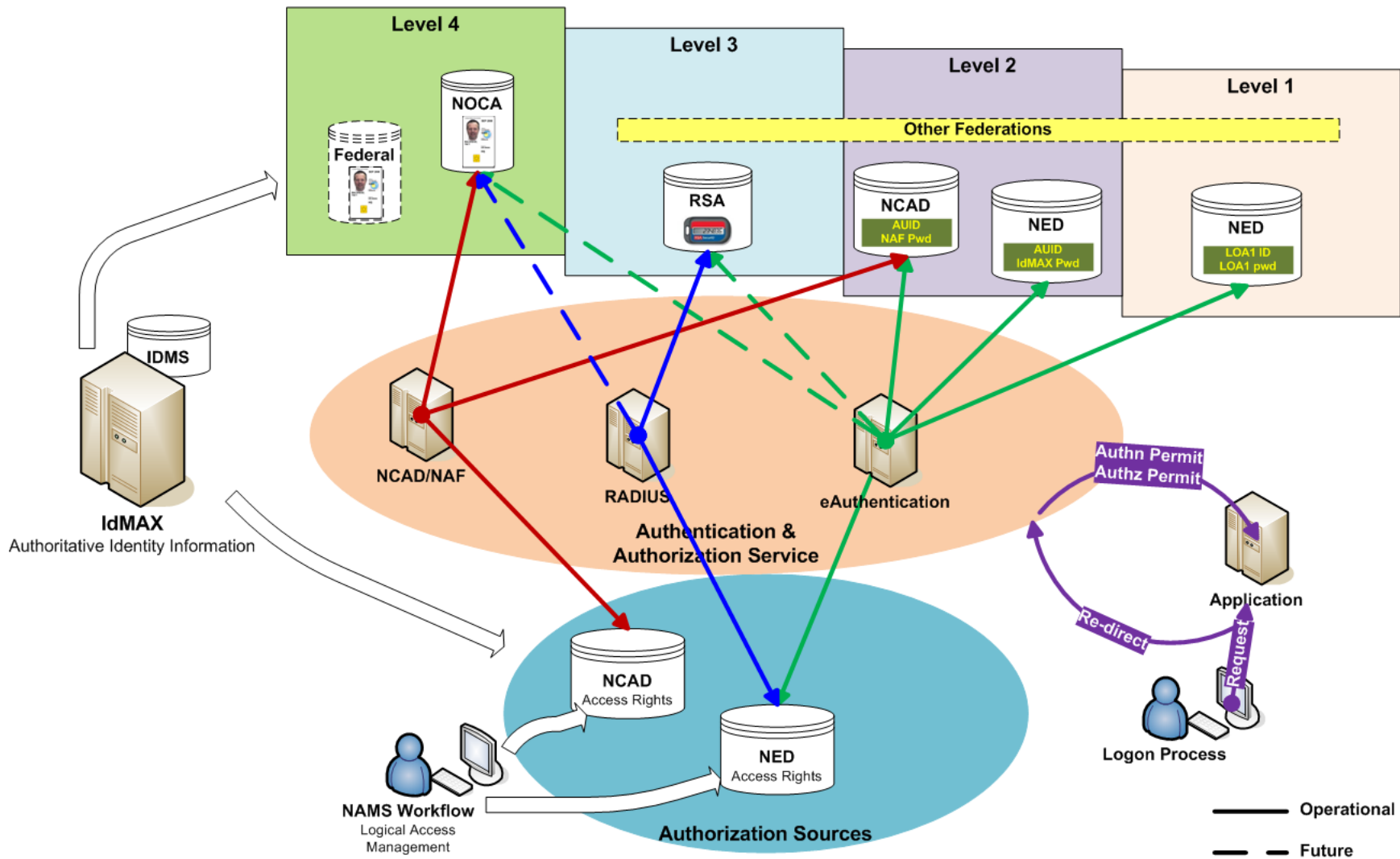
- **Identity:** A single, authoritative identity store for everyone that does business with NASA
 - » Decommissioned Center x.500s and local identity systems
- **Credential:** A few Agency credentials to access most facilities and systems
 - » We have already retired hundreds of application-unique passwords
- **Physical Access:** An Agency-wide system for all physical access to buildings and rooms
- **Logical Access:**
 - » NASA Account Management System (NAMS) allows access to over 1,000 applications
 - » A single Active Directory forest/domain
 - » The Access Launchpad for access to web applications
 - » Consolidated RSA infrastructure for two-factor access where smartcards cannot be used



The Active Directory Consolidation NCAD

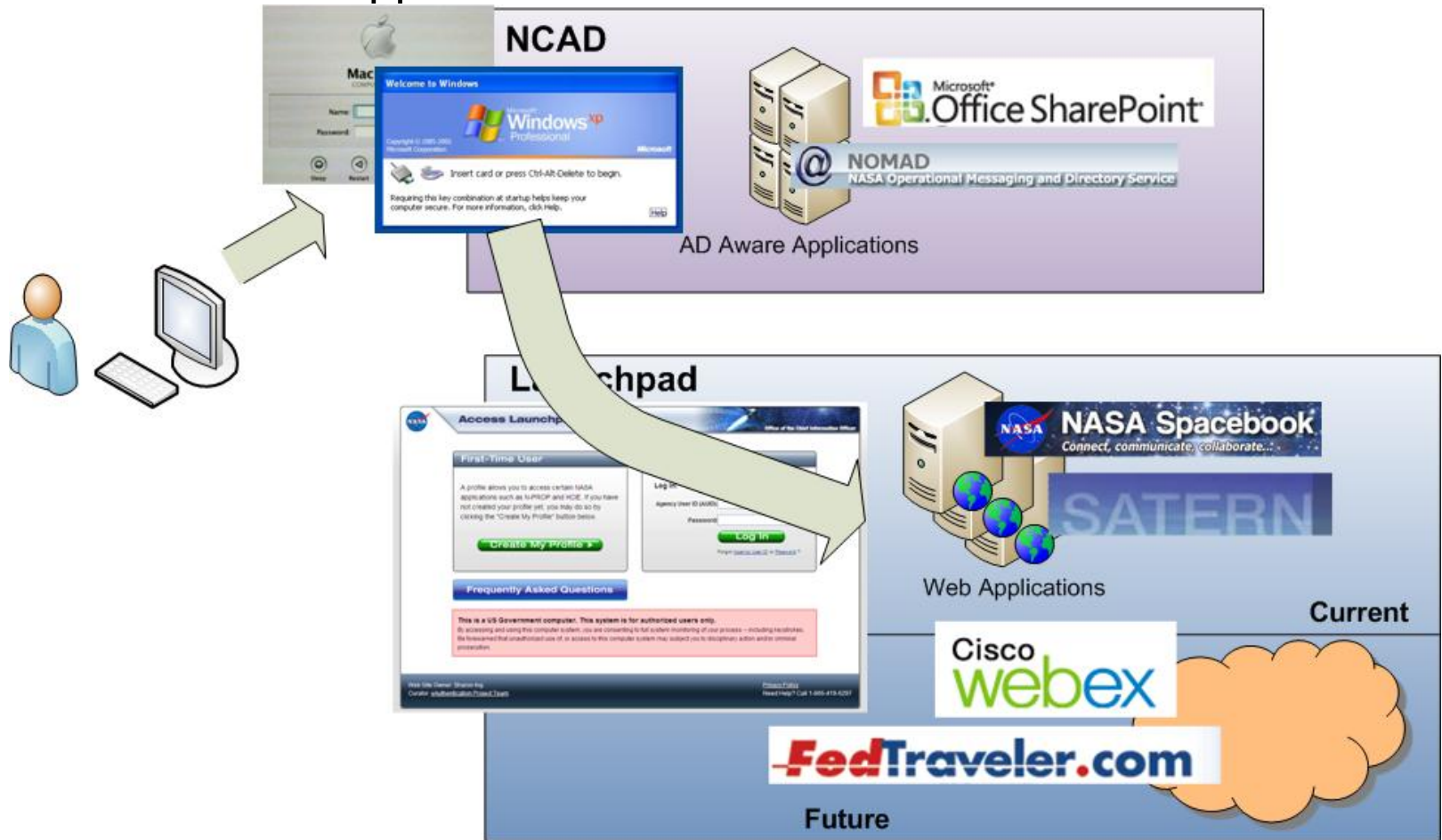
- Single Forest/Single Domain (Single Realm)
- Began in 2006, completed in Summer 2010
- Migrated 57,000 desktops; 66,000 users; 3,700 servers
- Reduced to a single forest, single domain
- Eliminated all 35 two way trusts
 - » Allowing eleven one way trusts (they trust us, we do NOT trust them)
- Replaced hundreds of domain controllers with 69 for the entire Agency
- Reduced an unknown number of AD domain administrators (>100) to eight

ICAM Logical Access Service Description



Integration of NCAD and Launchpad

User's desktop (Kerberos) login allows pass-through access to any Launchpad application.



Demo

- Webex demo