Coordination of Multiple Identity Infrastructures

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Identity Infrastructures at JPL

• NASA provided
  • Active Directory
  • NOCA (NASA Operational Certificate Authority)
    • email
    • PIV-II Smart Cards

• JPL–Office of the CIO provided
  • Active Directory
  • LDAP
  • Kerberos (sorry, it’s Heimdal, not MIT or Sun)
  • SecureID
Identity Infrastructures at JPL—Continued

- JPL–Flight Project Support Organizations
  - Verisign sub-CA
  - LDAP
    - Kerberos
  - SecureID
Identity Infrastructures at JPL

Active Directory

NOCA

email

PIV Cards

LDAP

SecurID

LDAP (MIPL)

Verisign Sub-CA

Kerberos (MIPL)

Oracle Business Systems

JPL Flight Project Support

JPL

NASA

Active Directory

Kerberos

SecurID

SecurID

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User Base

• NASA
  • JPL and NASA employees and contractors
  • NO foreign nationals!

• JPL – OCIO
  • JPL employees, contractors, and affiliates
  • Sponsored affiliates may be foreign nationals

• JPL – Flight Projects
  • Flight Project customers
  • Includes users implied by international agreements (e.g. Russia)
Synchronization

- **Usernames**
  - All JPL OCIO Services
  - Verisign Sub-CA

- **Passwords**
  - JPL OCIO Services, except SecurID

- **Email Addresses**
  - JPL email with NASA email certificates

- **SecurID Tokens**
  - JPL OCIO and Flight Project Support
Future

- PKINIT
  - Support for NASA PIV-II Smart Cards (this is definite)
    - Kerberos
    - Active Directory
  - Other card issuers
- KX-509
  - Simplified deployment of X.509 client certificates
- OTP
  - SecurID