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Information Technology



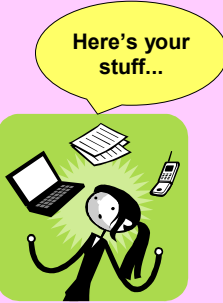
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# Identity Management in a Global Enterprise

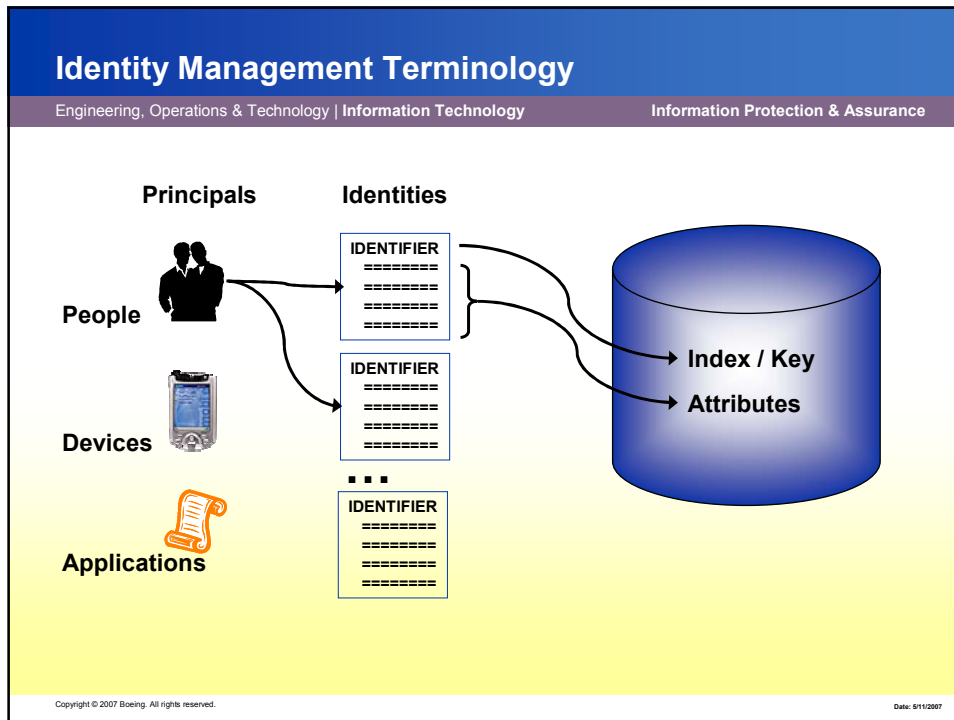
Stephen T. Whitlock, Chief Architect  
Information Protection & Assurance  
The Boeing Company

## Identification, Authentication & Authorization

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Identification	Authentication	Authorization
		
<p><b>The fine print:</b></p> <ul style="list-style-type: none"><li>• <b>Identification:</b> The presentation of an identifier so that the system can recognize and distinguish the presenter from other principals</li></ul>	<ul style="list-style-type: none"><li>• <b>Authentication:</b> The exchange of information in order to verify the claimed identity of a principal</li></ul>	<ul style="list-style-type: none"><li>• <b>Authorization:</b> The granting of rights, including access, to a principal, by the proper authority</li></ul>
<p><b>Principal:</b> An entity (people, devices, applications, etc.) whose identity can be authenticated</p>		

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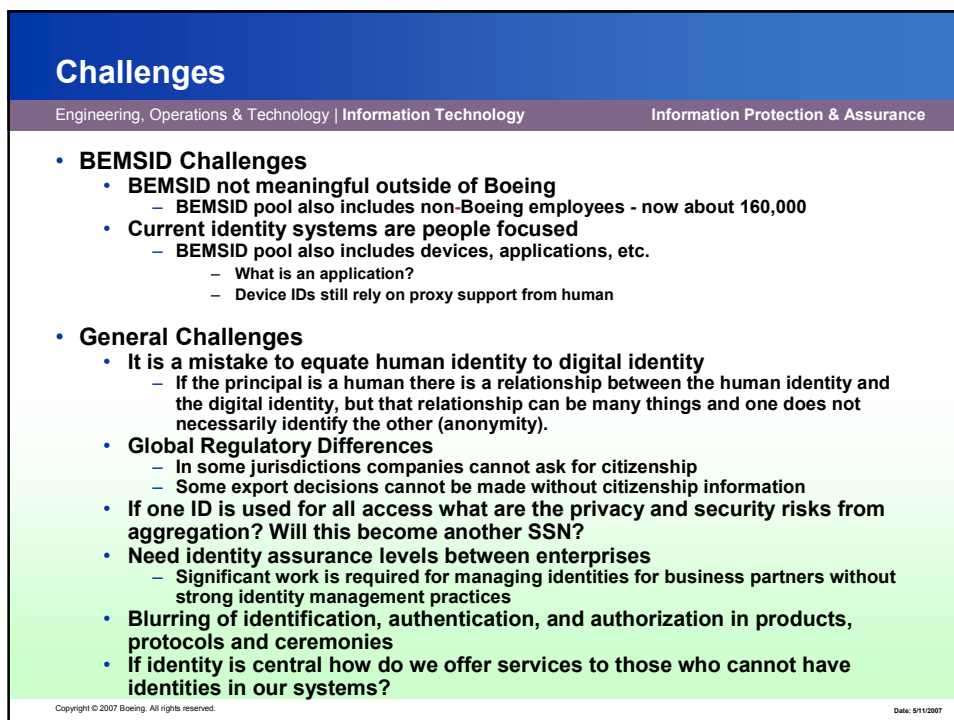
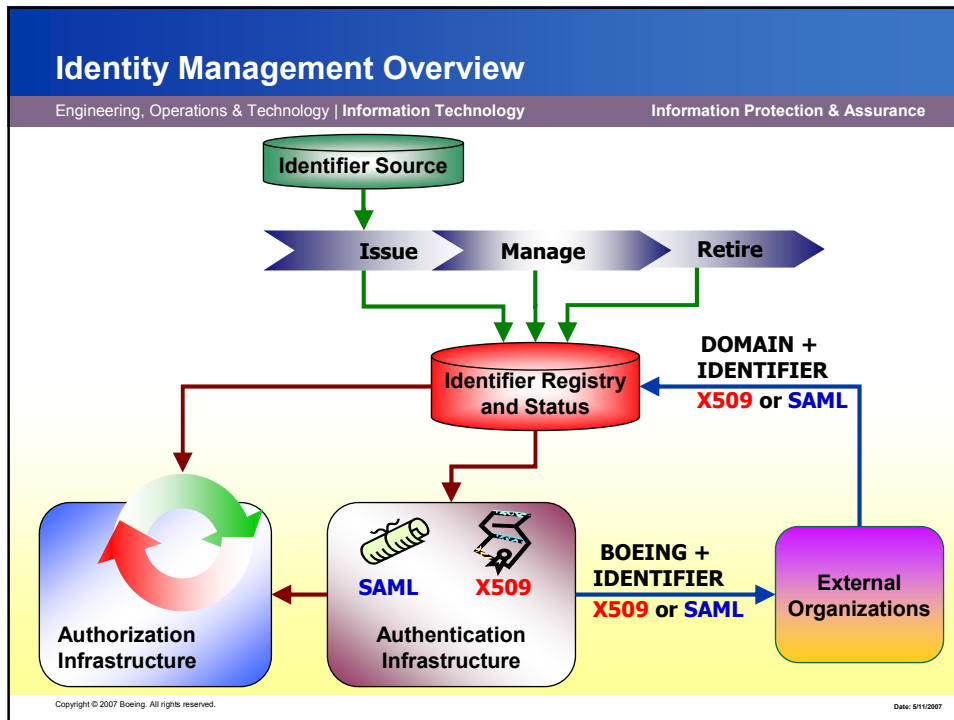


## Current State

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- **Boeing Electronic Messaging System ID (BEMSID) is the predominant identifier**
- **BEMSIDs provide a pervasive common identifier**
  - In use for over 10 years
  - Mostly eliminated SSN use and associated risks
  - Never reused
  - Uses
    - Index into LDAP / Databases to look up attributes and roles
      - Used with authorization systems
    - Relative Distinguished Name in X.509 certificates
      - Stable RDN reduces certificate revocations
    - Used in SAML assertions
- **Identifiers and attributes supported by a distributed, robust corporate electronic directory service that manages identities and supports applications**

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## Identity Management Strategy

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- **Strategy**
  - **Deploy support for multiple identifiers from different sources across the extended enterprise**
- **Approach**
  - **Manage the complete life cycle of identifiers used to designate principals, including people, applications, devices and resources**
  - **Manage and federate the identity relationship between Boeing and external principals and organizations**
- **Current Activity**
  - **Augment the BEMSID, used for people, with new identifier types for applications, devices and resources**
    - Backwards compatible with current people identifier
  - **Adopt the OASIS XRI Framework for external identity needs**
    - Collaborated with -
      - The Open Group, Network Applications Consortium and Distributed Management Task Force – produced a Core Identity Framework document
      - Transglobal Secure Collaboration Program
    - XRI simplifies our federation of identity management services
    - XRIs already generated for existing BEMSIDs

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