Enterprise Identity Management

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ABSTRACT

Enterprise Identity Management will establish a trust framework that will allow EPA, states, tribes, and local governments to share identity credentials and allow their customers to use their username and password across applications and participating partner portals.

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E-Enterprise and Enterprise Identity Management

- EIDM is a key component of the E-Enterprise Design and Operating Principle #7
  - Interoperability of Partner Systems and Partner Use of EPA Systems

  Ensure systems will work smoothly together, for staff, regulated entities, and the public. – E-Enterprise for the Environment Conceptual Blueprint: Executive Summary

- Allows E-Enterprise to be more than just links
- Enterprise identity concept allows for a seamless user experience

Why Enterprise Identity Management?

- Traditional identity management has been handled by individual applications
- These identity "silos"
  - Create a burden on users who have to register with individual applications
  - Represent a significant challenge for building integrated systems that can result in high cost
- E-Enterprise introduces a complex scope including the integration of multiple partner identity systems
- Enterprise Identity Management can reduce both burden and cost

Evolution of Identity Management

- Identity Management (IDM)
  - Major component of most information systems
  - Traditionally the responsibility of individual applications
- Centralization
  - Solutions where systems are in the same network or domain
- Enterprise Identity Management (EIDM)
  - Extending IDM beyond the single domain
  - Relationship where one organization (A) trusts a partner (B) to authenticate users who will access A's resources
  - Participating applications share identity attributes
  - Allows for sharing identities across domains and requires only one registration
  - This model for sharing identities is sometimes referred to by the industry as a standard term known as "Federated Identity Management" and it applies to all participating organizations

E-Enterprise Shared Identity Management Work Group

- Approximately 20 regularly contributing members from states, local government, and EPA

- Additional contribution from Exchange Network and ECOS

- Chartered to gather use cases, requirements, and proposed service functionality resulting in a Concept of Operations document

E-Enterprise Shared Identity Management Work Group

- Conducted 5 full work group meetings
  - Enterprise Identity Management background
  - IPT member experience
  - Use case identification
  - Policy touch point discussion
  - Business and functional requirement identification
  - Technical requirement identification
  - High-level architecture
- Held 6 small group discussions sessions
  - Concept of Operations outline creation
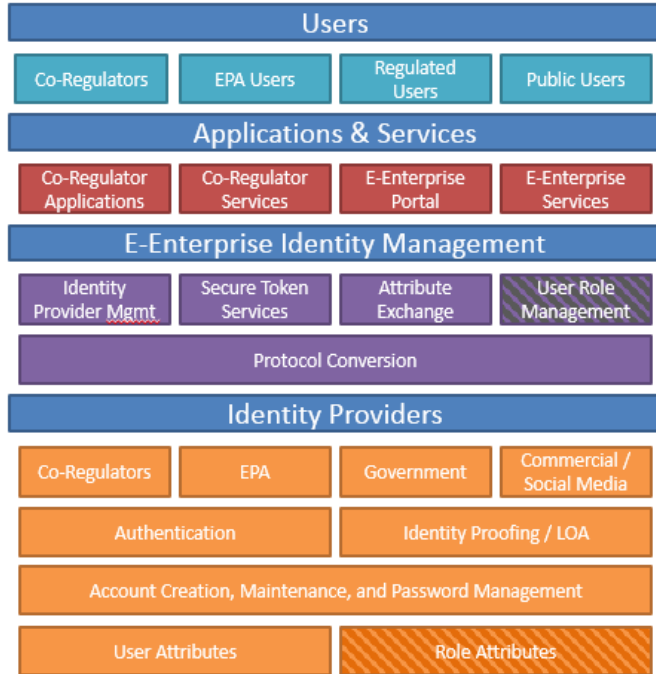 - Draft Concept of Operations review

Concept for Proposed Solution
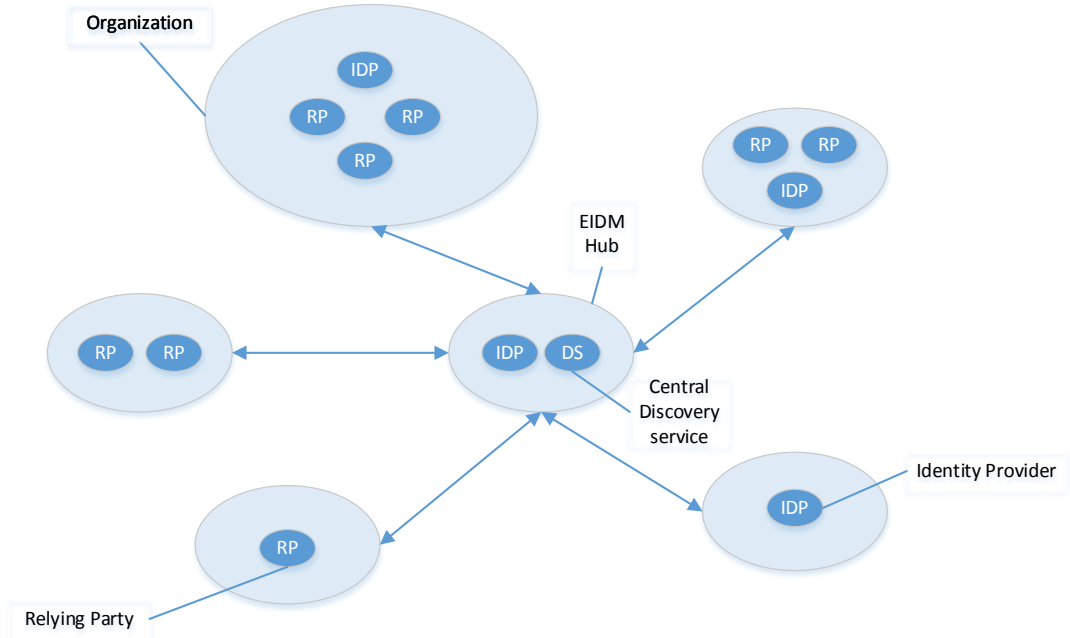# Joint Governance

- Joint governance is based in collaboration and partnership
- Governance focuses
  - Trust
  - Interoperability (Portals, Applications, and Exchange Network)
  - Acceptance
  - Security
  - Operation

# Concept for Proposed Solution Functional Architecture

Enterprise Identity Management as a Service

- Supports
  - Co-regulators
  - Regulated Users
  - Industry Users
- Shared Services ("Build Once" components)
  - Protocol conversion
  - Attribute exchange
  - Identity Provider Management
  - Secure Token Services (Single Sign-on)

Enterprise Identity Management
E-Enterprise Portal Release 1

- Enterprise Identity Management solution that supports Exchange Network and social media accounts

- Secure Token Services allowing single sign-on access to shared CDX services
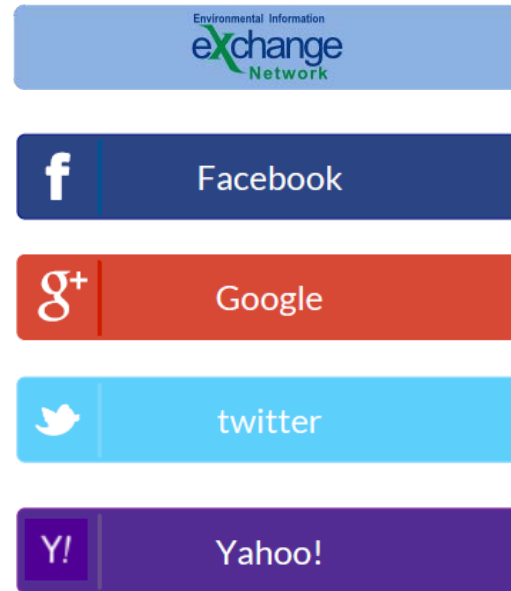
Enterprise Identity Management Next Steps

- Formalize governance processes and procedures

- Expand "Trusted Partners" within the E-Enterprise environment

- Complete long-term Enterprise Identity Management service approach

Questions

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