Identity Management (IdM)

Side Event

Cybersecurity

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Objectives

- What is Identity Management (IdM)?
- Why is IdM work in ITU-T important?
- What are the major IdM benefits?

Introduction

- Networks are increasingly distributed, converged, and packet based where access to services can be based on identity contexts and roles and accessed anywhere, anytime.
- Security and trust of identity information in this environment is significantly more complex.
  - Users may have multiple, context dependent "identities"
  - Network services may require different identity trust levels
  - Identity information is distributed throughout the network
- Old methods of managing of identity information are inadequate, may limit services, and cause significant cybersecurity problems
- Consequently, a new, robust set of secure and trusted capabilities is needed i.e IdM

IdM

- An evolutionary technology
- Identity-based services.
- Security services, especially those associated with user, device, application authentication

IdM is a set of Capabilities that:

- Attach identity data to a person, device, or application.
- Facilitate the secure storage, retrieval and secure exchange of identity data.
- Provide significantly better identity lifecycle management.
- Can allow user control of personally identifiable information (PII).

ITU-T work on IdM

- Existing identity management solutions:
  - Are not interoperable,
  - In some cases they are unknown to each other and need to be “discoverable”.
- Principal focus of ITU-T Program is:
  - Common data model for identity information,
  - Common view of trust levels,
  - Discovery of authoritative identity information,
  - Application of IdM to next generation networks.

Major Benefits of IdM:

- Better privacy
- Multiple trust levels
- Nomadic "any-" services
- Single sign-on/off
- Inter-Federation services
- Simplified user-service interface
- Efficient Lifecycle management of identity data
- Creation of new security and identity based services
- Option to use third party identity service providers

Reduces identity theft & fraud

Conclusions

- IdM is
  - An important capability in the distributed, anywhere, anytime converged packet-based network environment.
- ITU-T is uniquely positioned to:
  - Harmonize IdM solutions for global use,
  - Collaborate among diverse Forums, Standards Bodies, Consortiums, and Nations.