UMA Trust Framework
Agenda

- UMA Trust Framework
- UMA Delegation of Authority
- hdata TM profile
UMA Trust Framework

- UMA Trust Framework is based on layered elements, including policies, standards, and security mechanisms in order to provide a propagation of trust among UMA parties, through a delegation of authority, with the goal to enable a trusted distributed authorization system.
UMA Trust Framework umbrella

UMA Constellations

Threats Model

Privacy Regulations

Policies and Procedures

Standards

Security Mechanisms

Delegation of Authority

Host Registration

Subject Registration

AM Accreditation

External Assurance and accreditation Process

OAuth 2

OpenID Connect

Crypto

Access Control

Claims-based Identity

User Consent

Protect

Share

Authorize

Proof-of Claims
Trust in UMA Distributed Authorization system

- UMA Trust Management system is based on Delegation of Authority.
  - Authorizing User delegates rights of protecting its resource (at Host) to the Authorization Manager.
  - Authorizing User delegates rights of accessing its resource to some Requester either thought proof-of-claims, or through the AU online consent.
  - The Host delegates rights of authorizing decision to the Authorization Manager:
  - The Requester delegates rights of proofing its claims to a third party Identity Provider.
UMA Delegation of authority

- **Delegator**: Authorizing User, Host
- **Action**: Protect, Share Resource, Authorize
- **Delegated Agent**: AM

Flowchart:
1. Authorizing User -> Protect -> AM, Host
2. Authorizing User -> Share Resource -> AM
3. Host -> Authorize -> AM
4. AM -> Consent -> Authorizing User
5. AM -> Proof-Of-Claims -> Requester/Claims Provider
UMA for Business
hData trust model profile
hData UMA Trust model

- **Host**: hdata Provider
- **Authorizing User**: Patient
- **Requester**: Hospital, Emergency room
- **Insuarance Company**: AM

- **Registration Process**:_proof-of-claims

- **Proof-Of-Claims**: Authorizing User

- **Verifiable Requester**: Host

Date: Monday, November 28, 11
hData UMA Trust model

- Healthcare Accreditation
- Host: hData Provider
- Requester: Hospital, Emergency room
- AM
- Registration Process
- Trusted Claims
- Authorizing User: Patient
- Verifiable Requester
- OpenID Connect
- Insurance Company

PKI