The State of User-Managed Access, November 2014

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tinyurl.com/umawg
Agenda

• Quick summary of UMA in context
• Specification progress in context
• Implementation news
• Standardization progress and next steps
• Use case domains
• Other major news items
• Thoughts on UMA contributions to the larger conversation
The new Venn of access control and consent
The marvelous spiral of controlled personal data/access sharing
Interoperable, RESTful authorization-as-a-service

Outsources protection to a centralizable authorization server

Has standardized APIs for privacy and “selective sharing”
Specification progress in context

- OAuth 1.0, 1.0a
- WRAP
- OAuth 2.0
- Dynamic Client Registration
- OpenID AB/Connect
- OpenID Connect
- UMA Core, Resource Set Registration
- Claims, Observations

Timeline:
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
Implementation news

• Interop testing has begun on the “V0.9” specs, mostly against Roland Hedberg’s suite
  – Four participants, four full solutions (including an authorization server) and two partial solutions (resource server and client only)
  – Several other implementations in the wings

• A few implementations in deployment
  – One product for a personal data use case
  – One product for several enterprise use cases

• Cross-matrix testing coming in 2015
Standardization progress and next steps

- **UMA “Core” (Profile of OAuth)**
  - Resource Set Registration: Q1-2
  - Claim Profiles Framework: Q3-4
  - Binding Obligations: Q3-4?
Use-case domains

- Health
- Financial
- Education
- Personal
- Government
- Media
- Behavioral

Technology domains

- Web
- Mobile
- API
- IoT
Other major news items

• EIC award

• HEART WG

• New open-source community
UMA contributions to the larger privacy and consent conversation

• UMA authorization grants (and consent directives) as asynchronous consent

• The relationship between proactive, directed sharing and privacy-as-runtime-consent
UMA contributions to the larger access control conversation

• Opportunities for declarative policy to be the “rocket fuel” of IoT authorization
• Opportunities for UMA along with simplified XACML in the health space
• UMA extensions for full ABAC
Big thanks!

• To Kantara
• To the UMA WG
• To the implementers
• To the IRM community
Questions? Thank you!

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