Using UMA tClaims model to restrict and personalize access to online service
An Enterprise Class scenario

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Agenda

• Scenario
• Requirements Analysis
• Conceptual Model
• Example Deployment model
• tClaims Flow
• User Experience
• Trust Model
Accessing Personal Loan special program

Enterprise Class Scenario

- Bank online service provides an User-Managed tClaims access control to restrict and personalize access to special program/service (i.e. personal loan with low interest rate) to users which have determinate employment (i.e. government employee), and have an high credit score.
Requirements Analysis

- Authorizing User (Resource Owner) needs a claims-based access control to restrict access to own resources based on Identity attributes of Requesting Party.

- Identity attributes must issued by a Trusted Third Party (TTP) and verifiable by a Claims Requester.

- Claims may be logically aggregated to provide a collection of attributes from different Attribute Providers (Claims Host).
UMA tClaims Requirements
Personal loan with low interest rate

- User-Managed Automated Registration (opt)
  - Basic attributes (tClaims)
- Access Control to special program/service
  - Job role attribute (tClaims)
  - Credit score attribute (tClaims)
Conceptual Model
Example Deployment Model

Browser

Web Application

Enterprise Access Management

UMA Authorization Manager

Claims Host

Requesting Party

Bank Domain

Subject Domain

UMA Authorization Manager

UMA API

Fed

Admin

PDP

UMA PEP

PDP

tClaims

Disco

Authorizing User

Authorizing User
UMA tClaims high level flow
User Experience
Alice at Authorization Manager Site

AM Menu

USER-MANAGED ACCESS
User Privacy Control
Personal Information map
Privacy Impact level

Policy
Resource Policy
Create a Resource Basket

Sharing
Share Resource

Trusted Claims
Register a Claims Host
View Claims Host
Manage tClaims

SEARCH

YOUR DATA

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Alice at Bank site for Authentication
Alice at Bank site for requesting access to a restricted service. An UMA protected resource.
Alice at CopMonkey site for Authentication
Alice at CopMonkey site for granting access to requested tClaims
Alice at Bank site for Accessing resource

Personal Loan with low interest rate
Welcome to special loyalty program for US Government Employee.
Based on your Credit score you can have access to following personal loan amounts and conditions:

- $10,000 at 2.0%
- $20,000 at 2.5%

Select your preferred condition and click on continue to proceed with loan request, or Cancel to return online banking services.

Continue  Cancel
Bootstrapping Trust

- Subject
- Subject Registration
- Claims Host Registration
- UMA Introduction
- Protected Resource
- UMA
- IdP
- Claims Host
- Affiliation Authentication
- LoA Certification
- TFP
- LoA Certification (AM as IdP)
- Notification (AM as RP)
- IdP List
- AM
- Certifier
- TFP
- UMA
- LoA Certification
Thanks