User Managed Access Core Protocol

Logical testcases based on User-Managed Access (UMA) 1.0 Core Protocol

Step 2: Requester gets access token from AM

Actors: Requester, AM

Preconditions
Requester has the role Oauth client
AM has the role Oauth Authorization Server

Conformance mode

Substeps

The following substeps are performed in order to achieve Step 2:
1. Requester attempts access resource at host
2. Requester visits AM's request_token_uri endpoint
3. Interaction AM and Requester (combination Core step 2, substep 3 and 4)

Step 2 Substep 1: Requester attempts access resource at host

Description:
see User-Managed Access (UMA) 1.0 Core Protocol step 2

requester(Oauth client) seeks requester access token from AM (OauthAuthorization Server)

result: requester is given AM's request_token_uri endpoint
Steps per SP/IP (here UMA different): ..

Overall Step 2 Branch 1:

IF Requester is acting on behalf of requesting party
   AND (requesting party = Corporation OR requesting party = other legal person
   OR requesting party = natural person NE authorizing user)

THEN Requester MUST use UMA profile pattern not involving Oauth end-user authorization

Overall Step 2 Branch 2

Else IF Requester is acting on behalf of requesting party
   AND (requesting party = natural person EQ authorizing user)
THEN Requester MUST use UMA profile pattern involving OAuth end-user authorization

**Substep2 Step1: Requester attempts to access resource at host**

Step2 Substep1 Step1 Branch1

IF (requester knows AM's access token URL AND requester did not first approach host) THEN requester MAY go direct to URL

Step2 Substep1 Step1 Branch2:
ELSE requester MAY go direct to resource at HOST

Step2 Substep1 Step1 Branch3:

IF (requester attempts access resource at host WITHOUT access token) THEN HOST responds with challenge: "http 401 unauthorized" Code AND HTTP header "WWW-Authenticate:contains requester_user_uri endpoint"

_Failing element: requester_

**Substep2: Requester visits AM's requester_token_uri endpoint**

Teststeps submit HTTP-request using the GET method and desired scope to access token URL still in development/Rework, see 7th paragraph Step 2 page 7 UMA Core protocol??

Description:

see User-Managed Access (UMA) 1.0 Core Protocol: step 2
Requester visits AM's requester_token_uri endpoint
result: requester provides its desired scope

Steps per SP/IP (here UMA different): ..
watch branches (IFs)
Teststeps submit HTTP-request using the GET method and desired scope to access token URL

**Substep3 Interaction AM and Requester**

Test2 Substep3 Branch1 (Happy flow)

IF requester performs a HTTP-request using the GET method on access token URL AND HTTP request contains (HTTP "accept header")

THEN

IF AM requires NO claims for grant authorization based on user policy
THEN AM response EQ (OAuth access token response + possible refresh token URL)
Test2Substep3Branch (error)
ELSE
IF 
requester NOT authorized according to user policy
THEN 
AM response EQ unsuccessful OAuth access token response
AND 
authorization negotiation ends (How??, CONFORMANCE-ISSUE)

Failing element: requester

Test2Substep3Branch
ELSE
IF 
AM requires more info based on user policy from requester
THEN 
AM response EQ claims-required response containing claims-req. List
AND 
List SHOULD make use of media type (indicated acceptable by requester)

Test2Substep3Branch
IF 
requester receives from AM a claims-required list
THEN 
requester performs HTTP-request using the POST method to authorization negotiation URL
AND 
HTTP-request contains claims document
AND 
type claims-document specified in "content-type" header
THEN 
type claims-document can be recognized by AM

AND 
AM accepts document
AND 
AM gives response (see above) OR AM gives another claims-derived response (IN DEV?, CONFORMANCE-ISSUE)

Test2Substep3Branch (error)
IF 
requester receives from AM a claims-required list
THEN 
requester performs HTTP-request using the POST method to authorization negotiation URL
AND 
HTTP-request contains claims document
AND 
type claims-document NOT specified in "content-type" header

THEN 
type claims-document can NOT be recognized by AM
AND 
AM rejects document
AND 
AM GIVES ERROR RESPONSE (??, not specified, CONFORMANCE-ISSUE)

Failing element: requester
https://github.com/mrtopf/UMA-Specifications; version-date: 4-12-2010