LIAISON STATEMENT

Title:	OAuth discovery and specification availability	☒ Public ☐ Confidential LS[1]
Date:	18 Jul 2011	
To:	IETF OAuth WG	
Source:	OMA ARC SEC of the Open Mobile Alliance	
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Attachments:	n/a	

1 Overview

The ARC SEC SWG of the Open Mobile Alliance would like to inform the IETF that it has started the drafting of a new "Authorization Framework for Network APIs" enabler (code-named "Autho4API"), built on the IETF OAuth 2.0 protocol.

In addition to referencing IETF OAuth 2.0 specifications, this enabler intends besides to address the following:

- Use of the authorization framework in combination with RESTful Network APIs, and especially with the OMA RESTful Network APIs, its RCS profile and its OneAPI profile. This involves the definition of API-specific scope values.
- Client discovery of locations and capabilities of authorization and resource servers.
- Use of the framework in multi-service provider environments, i.e. when the same Network API is deployed by (an aggregation of) multiple service providers, not known in advance by the developer of the client application. One of these environments is the Network API platform deployed by the Wholesale Applications Community (WAC).
- Creation of OAuth endpoint extensions, if necessary.
- List of the protocol features that must be supported at least.

The OMA Autho4API enabler is today normatively referencing [draft-ietf-oauth-v2] and [draft-ietf-oauth-v2-bearer] and could think of referencing also [draft-hammer-oauth-v2-mac-token], [draft-lodderstedt-oauth-revocation] and [draft-recordon-oauth-v2-ux], if those drafts have a chance to be published on time with regard to Autho4API work plan.

[1] If the "Confidential LS" box is selected, this liaison statement is intended to be Confidential per agreement by OMA and the addressed organization. Neither side should make this communication available to non-members.

2 Proposal

IETF OAuth WG is kindly requested to provide feedback on the following points:

- Availability (as stable RFCs) of the five aforementioned IETF specifications.
- Availability of the upcoming OAuth Parameters Registry, for the registration of new endpoint parameters if necessary.
- IETF OAuth WG plans for specifying someday the OAuth Discovery mechanism initially mentioned in draft-ietf-oauth-v2-10. The OMA Autho4API enabler would ideally reference such IETF specification when it exists. Otherwise ARC SEC SWG could consider other standardization options, as this mechanism is essential for a client to properly function, especially in multi-service providers environments.
- IETF OAuth WG intent to clarify what technical and security considerations implementors should pay attention to, when deciding which type of access token to deploy (bearer token, MAC token…).
- Confirmation of the set of characters safe to use for constructing scope values:
    - looking at the encodings of scope parameter (in the various OAuth protocol requests and responses able to include it), it seems that this set of safe characters is not explicitly defined in [draft-ietf-oauth-v2] specification, and presents a dependency with the used access token type, when the related specification allows the inclusion of scope parameter in the response to a protected resource request.
    - when bearer tokens are used, this set of safe characters is mostly constrained by the grammar of `scope-v` element of the WWW-Authenticate Response Header Field. In particular, percent encoding does not seem to be supported in this case, excluding the use of e.g. UTF-8. So as an example: not all URNs can be valid scope values (although some simple URNs can be).

Current OMA workplan is to release the OMA Autho4API enabler as Candidate end of this year.

Next OMA F2F meetings:

- Aug 29 – Sept 1, 2011 OMA F2F meeting Vancouver, Canada
- Oct 5 – 7, 2011 OMA F2F ARC meeting Stockholm, Sweden
- Nov 7 – 11, 2011 OMA F2F meeting Beijing, China

3 Requested Action(s)

IETF OAuth WG is kindly invited to provide feedback on the points highlighted in this letter:

- Availability of the IETF OAuth specifications: especially [draft-ietf-oauth-v2] and [draft-ietf-oauth-v2-bearer], and also [draft-hammer-oauth-v2-mac-token], [draft-lodderstedt-oauth-revocation] and [draft-recordon-oauth-v2-ux].
- Availability of the OAuth Parameters Registry
- IETF intent to specify an OAuth Discovery mechanism
- Considerations that can help implementors decide about the type of OAuth access token to deploy.
- For bearer tokens: clarification whether the non-support of percent encoding for `scope-v` element of WWW-Authenticate Response Header Field grammar is intentional.

We would appreciate to have an answer before next OMA ARC face-to-face meeting (Aug 29 – Sept 1, 2011 Vancouver, Canada).

4 Conclusion

OMA ARC SEC SWG would like to thank the IETF OAuth WG for its kind consideration of the present Liaison Statement and looks forward for continued collaboration in the future.