



Enabler Release Definition for Authorization Framework for Network APIs

Approved Version 1.0 – 09 Dec 2014

Open Mobile Alliance
OMA-ERELED-Autho4API-V1_0-20141209-A

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1. Scope

The scope of this document is limited to the Enabler Release Definition of Authorization Framework for Network APIs (Autho4API) version 1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [Autho4API_ER] “Authorization Framework for Network APIs”, Version 1.0, Open Mobile Alliance™, OMA-ER-Autho4API-V1_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [Autho4API_RD] “Authorization Framework for Network APIs Requirements”, Version 1.0, Open Mobile Alliance™, OMA-RD-Autho4API-V1_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, [URL:http://www.ietf.org/rfc/rfc2119.txt](http://www.ietf.org/rfc/rfc2119.txt)
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.8, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_8, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [SUP-XSD_rest_autho4api_url_prefixes] “XML data type definitions for OMA Autho4API 'URL Prefixes for Granted Resources' resource”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD_rest_autho4api_url_prefixes_for_granted_resources-V1_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope”, “Release Version Overview” and “Conformance Requirements Notation Details”, are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

3.2 Definitions

Enabler Release Collection of specifications that combined together form an enabler for a service area, e.g. a download enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are forming an enabler should combined fulfil a number of related market requirements.

3.3 Abbreviations

| | |
|------------------|--|
| Autho4API | Authorization Framework for Network APIs |
| ERDEF | Enabler Requirement Definition |
| ERELD | Enabler Release Definition |
| OMA | Open Mobile Alliance |
| OMNA | Open Mobile Naming Authority |

4. Release Version Overview

The scope of this enabler release is to enable a resource owner owning network resources exposed by a RESTful Network API, to authorize third-party applications (desktop, mobile and web applications) to access these resources via that API on the resource owner's behalf.

4.1 Version 1.0 Functionality

The scope of this enabler release is to enable a resource owner owning network resources exposed by a RESTful Network API, to authorize third-party applications (desktop, mobile and web applications) to access these resources via that API on the resource owner's behalf.

5. Document Listing for Autho4API

This section is normative.

| Doc Ref | Permanent Document Reference | Description |
|--|---|---|
| Requirement Document | | |
| [Autho4API_RD] | OMA-RD-Autho4API-V1_0-20141209-A | Requirement Document for Autho4API Enabler |
| Enabler Release (including Architecture Document and Technical Specification) | | |
| [Autho4API_ER] | OMA-ER-Autho4API-V1_0-20141209-A | Specification that defines Architecture Document and the protocol for Autho4API that provides control interface between the Autho4API Client and Autho4API Server |
| Supporting File | | |
| [SUP-XSD_rest_autho4api_url_prefixes] | OMA-SUP-XSD_rest_autho4api_url_prefixes_for_granted_resources-V1_0-20141209-A | XML data type definitions for OMA Autho4API 'URL Prefixes for Granted Resources' resource Working file in Schema directory: file: rest_autho4api_url_prefixes_for_granted_resources-v1_0.xsd path: http://www.openmobilealliance.org/tech/profiles/ |

Table 1: Listing of Documents in Autho4API Enabler

6. OMNA Considerations

The Autho4API enabler introduces the following namespaces.

| Description | Registered URN | Schema Links |
|-------------------------------------|---|---|
| URL Prefixes for Granted Resources' | urn:oma:xml:rest:autho:redirectEndpoint:1 | http://www.openmobilealliance.org/tech/profiles/rest_autho4api_url_prefixes_for_granted_resources-v1_0.xsd |

Table 2: OMNA Namespaces

The Autho4API enabler defines the OMNA Autho4API Scope Value registry [Autho4API_ER].

7. Conformance Requirements Notation Details

This section is informative

The tables in following chapters use the following notation:

- Item:** Entry in this column **MUST** be a valid ScrItem according to [SCRRULES].
- Feature/Application:** Entry in this column **SHOULD** be a short descriptive label to the **Item** in question.
- Requirement:** Expression in the column **MUST** be a valid TerminalExpression according to [SCRRULES] and it **MUST** accurately reflect the architectural requirement of the **Item** in question.

8. ERDEF for Autho4API - Client Requirements

This section is normative.

| Item | Feature / Application | Requirement |
|------------------------|-----------------------|----------------------|
| OMA-ERDEF-<CLI-C-001-M | Autho4API Client | Autho4API-CLI-C: MCF |

Table 3: ERDEF for Autho4API Client-side Requirements

9. ERDEF for Autho4API - Server Requirements

This section is normative.

| Item | Feature / Application | Requirement |
|--------------------------|---------------------------------|-------------------------|
| OMA-ERDEF-AUTH-S-001-M | Autho4API Authorization Server | Autho4API-AUTH-S: MSF |
| OMA-ERDEF-ACCESS-S-001-M | Autho4API Access Control Server | Autho4API-ACCESS-S: MSF |

Table 4: ERDEF for Autho4API Server-side Requirements

Appendix A. Change History (Informative)

A.1 Approved Version History

| Reference | Date | Description |
|--------------------------------------|-------------|---|
| OMA-ERELED-Autho4API-V1_0-20141209-A | 09 Dec 2014 | Status changed to Approved by TP TP Ref # OMA-TP-2014-0275-INP_Autho4API_V1_0_ERP_for_final_Approval |