



Enabler Release Definition for  
Authorization Framework for Network APIs  
Candidate Version 1.0 – 27 Mar 2012

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**Open Mobile Alliance**  
OMA-ERELD-Autho4API-V1\_0-20120327-C

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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

- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997,  
URL:<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/>

### 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/>

## 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

|                  |  |
|------------------|--|
| <b>Autho4API</b> | Authorization Framework for Network APIs |
| <b>ERDEF</b>     | Enabler Requirement Definition           |
| <b>ERELD</b>     | Enabler Release Definition               |
| <b>OMA</b>       | Open Mobile Alliance                     |
| <b>OMNA</b>      | 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   |
|---|---|---|
| <b>Requirement Document</b>   |   |   |
| [Autho4API_RD]  | OMA-RD-Autho4API-V1_0-20120327-C  | Requirement Document for Autho4API Enabler  |
| <b>Enabler Release (including Architecture Document and Technical Specifications)</b> |   |   |
| [Autho4API_ER]  | OMA-ER-Autho4API-V1_0-20120327-C  | Specification that defines Architecture Document and the protocol for Autho4API that provides control interface between the Autho4API Client and Autho4API Server   |
| <b>Supporting Files</b>   |   |   |
| [SUP-XSD_rest_autho4api_url_prefixes]   | OMA-SUP-XSD_rest_autho4api_url_prefixes_for_granted_resources-V1_0-20120327-C | XML data type definitions for OMA Autho4API 'URL Prefixes for Granted Resources' resource<br><br>Working file in Schema directory:<br>file:<br>rest_autho4api_url_prefixes_for_granted_resources-v1_0.xsd<br>path:<br><a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a> |

**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 | <a href="http://www.openmobilealliance.org/tech/profiles/rest_autho4api_url_prefixes_for_granted_resources-v1_0.xsd">http://www.openmobilealliance.org/tech/profiles/rest_autho4api_url_prefixes_for_granted_resources-v1_0.xsd</a> |

**Table 2: OMNA Namespaces**

## 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      |
|-----------|------|------------------|
| n/a       | n/a  | No prior version |

### A.2 Draft/Candidate Version 1.0 History

| Document Identifier                            | Date        | Sections   | Description   |
|--|-------------|------------|---|
| Draft Versions<br>OMA-ERELED-Autho4API-V1_0    | 09 Nov 2011 | All        | Incorporates input to committee:<br>OMA-ARC-Autho4API-2011-0058R01-<br>INP_Autho4API_ERELED_Baseline  |
|  | 30 Nov 2011 | many       | Editorial changes as preparation for the CONRR  |
|  | 19 Jan 2012 | 3.3        | Incorporated:<br>OMA-ARC-Autho4API-2012-0004-<br>CR_To_address_CONRR_comment_C004   |
|  | 15 Feb 2012 | 5, 6, 8, 9 | Incorporated:<br>OMA-ARC-Autho4API-2012-0028-<br>CR_CONR_C006_C007_C008_Requirements_Definition<br>OMA-ARC-Autho4API-2012-0033-CR_CONR_C005 |
|  | 29 Feb 2012 | 5          | Updated Permanent Document References<br>Editorial changes  |
|  | 13 Mar 2012 | 5          | Updated Permanent Document References   |
| Candidate Version<br>OMA-ERELED-Autho4API-V1_0 | 27 Mar 2012 | 5          | Status changed to Candidate by TP<br>TP Ref # OMA-TP-2012-0124-<br>INP_Autho4API_1_0_ERP_and_ETR_for_Candidate_Approval                     |