



# Enabler Release Definition for RESTful Network API for Quality of Service

Candidate Version 1.0 – 25 Nov 2014

---

**Open Mobile Alliance**  
OMA-ERELED-REST\_NetAPI\_QoS-V1\_0-20141125-C

Use of this document is subject to all of the terms and conditions of the Use Agreement located at <http://www.openmobilealliance.org/UseAgreement.html>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile Alliance™ specification, and is subject to revision or removal without notice.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. Information contained in this document may be used, at your sole risk, for any purposes. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance. The Open Mobile Alliance authorizes you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services. The Open Mobile Alliance assumes no responsibility for errors or omissions in this document.

Each Open Mobile Alliance member has agreed to use reasonable endeavors to inform the Open Mobile Alliance in a timely manner of Essential IPR as it becomes aware that the Essential IPR is related to the prepared or published specification. However, the members do not have an obligation to conduct IPR searches. The declared Essential IPR is publicly available to members and non-members of the Open Mobile Alliance and may be found on the “OMA IPR Declarations” list at <http://www.openmobilealliance.org/ipr.html>. The Open Mobile Alliance has not conducted an independent IPR review of this document and the information contained herein, and makes no representations or warranties regarding third party IPR, including without limitation patents, copyrights or trade secret rights. This document may contain inventions for which you must obtain licenses from third parties before making, using or selling the inventions. Defined terms above are set forth in the schedule to the Open Mobile Alliance Application Form.

NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE “OMA IPR DECLARATIONS” LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.

THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

© 2014 Open Mobile Alliance Ltd. All Rights Reserved.

Used with the permission of the Open Mobile Alliance Ltd. Under the terms set forth above.

# Contents

1. SCOPE.....	4
2. REFERENCES .....	5
2.1 NORMATIVE REFERENCES.....	5
2.2 INFORMATIVE REFERENCES.....	5
3. TERMINOLOGY AND CONVENTIONS.....	6
3.1 CONVENTIONS.....	6
3.2 DEFINITIONS.....	6
3.3 ABBREVIATIONS.....	6
4. RELEASE VERSION OVERVIEW .....	7
4.1 VERSION 1.0 FUNCTIONALITY .....	7
5. DOCUMENT LISTING FOR RESTFUL NETWORK API FOR QUALITY OF SERVICE V1.0.....	8
6. OMNA CONSIDERATIONS .....	9
7. API CONSIDERATIONS .....	10
8. CONFORMANCE REQUIREMENTS NOTATION DETAILS .....	11
9. ERDEF FOR REST_NETAPI_QOS.....	12
APPENDIX A. CHANGE HISTORY (INFORMATIVE).....	13
A.1 APPROVED VERSION HISTORY .....	13
A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY .....	13

## Tables

Table 1: Listing of Documents in the RESTful Network API for Quality of Service V1.0 Enabler .....	8
Table 2: OMNA Namespaces.....	9
Table 3: ERDEF for the RESTful Network API for Quality of Service V 1.0 .....	12

# 1. Scope

The scope of this document is limited to the Enabler Release Definition of the RESTful Network API for Quality of Service 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](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 2.9, Open Mobile Alliance™,  
OMA-ORG-Dictionary-V2\_9, [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 section 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>API</b>	Application Programming Interface
<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELED</b>	Enabler Release Definition
<b>OMA</b>	Open Mobile Alliance
<b>OMNA</b>	Open Mobile Naming Authority
<b>REST</b>	Representational State Transfer
<b>XML</b>	Extensible Markup Language

## 4. Release Version Overview

The scope of this enabler release is to specify a RESTful Network API for Quality of Service 1.0 using an HTTP protocol binding.

### 4.1 Version 1.0 Functionality

The RESTful Network API for Quality of Service 1.0 defines REST protocol bindings.

## 5. Document Listing for RESTful Network API for Quality of Service V1.0

This section is normative. As the RESTful Network API for Quality of Service 1.0 is a so-called Fast Track enabler release, no separate Architecture Document deliverable is produced.

Doc Ref	Permanent Document Reference	Description
<b>Requirements Document</b>		
[RD-REST_NetAPI_QoS]	OMA-RD-REST_NetAPI_QoS-V1_0-20141125-C	Requirements Document for the RESTful Network API for Quality of Service
<b>Technical Specification</b>		
[REST_NetAPI_QoS]	OMA-TS-REST_NetAPI_QoS-V1_0-20141125-C	Technical Specification for the RESTful Network API for Quality of Service
<b>Supporting File</b>		
[SUP-XSD_rest_netapi_qos]	OMA-SUP-XSD_rest_netapi_qos-V1_0-20141125-C	XML schema for the RESTful Network API for Quality of Service Working file in Schema directory: file: rest_netapi_qos-v1_0.xsd path: <a href="http://www.openmobilealliance.org/tech/profiles/">http://www.openmobilealliance.org/tech/profiles/</a>

**Table 1: Listing of Documents in the RESTful Network API for Quality of Service V1.0 Enabler**



## 6. OMNA Considerations

The RESTful Network API for Quality of Service 1.0 enabler introduces the following namespaces.

Note that in order to maintain compatibility between minor versions of the same major version, only the major version is reflected in the namespace identifier. Further note that subsequent minor versions of the same XML schema (e.g. 1.1) will be registered against the same namespace identifier.

Description	Registered URN	Schema Links
Quality of Service	urn:oma:xml:rest:netapi:qos:1	<a href="http://www.openmobilealliance.org/tech/profiles/rest_netapi_qos-v1_0.xsd">http://www.openmobilealliance.org/tech/profiles/rest_netapi_qos-v1_0.xsd</a>

**Table 2: OMNA Namespaces**

Exception codes as defined in section 7 of [REST\_NetAPI\_QoS] are requested to be added to the RESTful Network API Exception Codes Registry, if applicable.

## 7. API Considerations

API Information				
API Name	Technical Specification	API Description	API Category	Protocol Binding
Quality of Service	OMA-TS-REST_NetAPI_QoS-V1_0	This API enables applications to dynamically request to change the quality of service available on an end user network connection.	Network API	RESTful HTTP
Previous Release				
Technical Specifications			Publication Release	
None			n/a	
Supporting Material				
Name			Publication Release	
OMA-SUP-XSD_rest_netapi_qos-V1_0			this Release	
OMA-TS-REST_NetAPI_Common-V1_0			OMA-RRP-REST_NetAPI_Common-V1_0	
OMA-SUP-XSD_rest_netapi_common-V1_0			OMA-RRP-REST_NetAPI_Common-V1_0	
Related Material				
Name			Publication Release	
OMA-WP-Guidelines_for_RESTful_Network_APIs			OMA-RRP-Guidelines_for_RESTful_Network_APIs	
Profile Information				
Name			Publication Release	
n/a			n/a	

## 8. 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.

## 9. ERDEF for REST\_NetAPI\_QoS

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-REST-QOS-S-001-M	RESTful Network API for Quality of Service 1.0 [REST_NetAPI_QoS]	REST-QOS-SUPPORT-S-001-M

**Table 3: ERDEF for the RESTful Network API for Quality of Service V 1.0**

## 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 OMA-EREELD- REST_NetAPI_QoS-V1_0	31 Jan 2013	All	Initial draft baseline document.
	16 Apr 2014	Many	Implemented CR: OMA-ARC-REST-QoS-2014-0018-CR_EREELD_clarifications_and_bug_fixing
	15 May 2014	5	Updated permanent document list prior to Consistency Review Editorial changes
	05 Nov 2014	5, 7	Implemented CR: OMA-ARC-REST-QoS-2014-0033- CR_EREELD_CONRR_comments_resolution
Candidate Version OMA-EREELD- REST_NetAPI_QoS-V1_0	25 Nov 2014	All	Status changed to Candidate by TP TP Ref # OMA-TP-2014-0266- INP_REST_NetAPI_QoS_V1_0_ERP_and_ETR_for_Candidate_Approval