

Enabler Release Definition for RESTful Network API for Communication Patterns

Candidate Version 1.0 – 12 May 2016

Open Mobile Alliance

OMA-ERELD-REST_NetAPI_CommunicationPatterns-V1_0-20160512-C

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Contents

1. SCOPE	4
2. REFERENCES	5
2.1 NORMATIVE REFERENCES	
2.2 Informative References	
3. TERMINOLOGY AND CONVENTIONS	6
3.1 CONVENTIONS	6
3.2 DEFINITIONS	
3.3 ABBREVIATIONS	
4. RELEASE VERSION OVERVIEW	
4.1 VERSION 1.0 FUNCTIONALITY	
5. DOCUMENT LISTING FOR COMMUNICATION PATTERNS API V1.0	8
6. OMNA CONSIDERATIONS	9
7. API CONSIDERATIONS	
8. CONFORMANCE REQUIREMENTS NOTATION DETAILS	11
9. ERDEF FOR REST_NETAPI_COMPATT	12
APPENDIX A. CHANGE HISTORY (INFORMATIVE)	13
A.1 APPROVED VERSION HISTORY	
A.2 CANDIDATE VERSION 1.0 HISTORY	
Figures No table of Figures centrics found.	
Tables	
Table 1: Listing of Documents in in the RESTful Network API for Communication Patterns V1.0 Enabler .	8
Table 2: OMNA Namespaces	9
Table 3. FDDFF for DFSTful Naturals ADI for Communication Dattorns V 1 0	17

1. Scope

The scope of this document is limited to the Enabler Release Definition of REST NetAPI Communication Patterns according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

[REST_COMPATT] "Specification that defines a RESTful API for Communication Patterns using HTTP protocol bindings",

OMA-TS-REST_NetAPI_CommunicationPatterns-V1_0-20160416-D,

URL: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

[SCRRULES] "SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures,

URL:http://www.openmobilealliance.org/

[SUP-XSD_COMPATT] "XML schema for the RESTful Network API for Communication Patterns", OMA-SUP-

XSD_rest_netapi_communicationpatterns-V1_0-20160323-D, URL:http://www.openmobilealliance.org

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version 2.9, Open Mobile AllianceTM,

OMA-ORG-Dictionary-V2_9, <u>URL:http://www.openmobilealliance.org/</u>

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.

Minimum Functionality

Description

Description of the guaranteed features and functionality that will be enabled by implementing the

minimum mandatory part of the Enabler Release.

3.3 Abbreviations

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 specify a RESTful Network API for Communication Patterns using an HTTP protocol binding.

4.1 Version 1.0 Functionality

The RESTful Network API for Communication Patterns v1.0 defines REST protocol bindings.

5. Document Listing for Communication Patterns API V1.0

This section is normative.

Doc Ref	Permanent Document Reference	Description	
Requirement Document			
N/A	N/A	N/A	
Technical Specifications			
[REST_COMPATT]	OMA-TS- REST_NetAPI_CommunicationPatterns- V1_0-20160512-C	Specification that defines a RESTful API for Communication Patterns using HTTP protocol bindings	
Supporting Files			
[SUP-XSD_COMPATT]	OMA-SUP- XSD_rest_netapi_communicationpatterns- V1_0-20160512-C	XML schema for the RESTful Network API for Communication Patterns Working file in Schema directory: file: rest_netapi_communicationpatterns-V1_0.xsd path: http://www.openmobilealliance.org/tech/profiles/	

Table 1: Listing of Documents in in the RESTful Network API for Communication Patterns V1.0 Enabler

6. OMNA Considerations

The RESTful Network API for ComPatt 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
Communication Patterns	urn:oma:xml:rest:netapi:com municationpatterns:1	http://www.openmobilealliance.org/tech/profiles/rest_netapi_commun_icationpatterns-V1_0.xsd

Table 2: OMNA Namespaces

Exception codes as defined in section 7 of [REST_COMPATT] 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
Communicatio n Patterns	OMA-TS- REST_NetAPI_Communic ationPatterns-V1_0	The specification contains HTTP protocol bindings to provide information about predictable communication patterns of individual Devices or groups of Devices. It provides resource definitions, the HTTP verbs applicable for each of these resources, and the element data structures, as well as support material including flow diagrams and examples using the various supported message body formats (i.e. XML, JSON).		Network API	RESTful HTTP
Previous Relea	se				
Technical Spec	ifications		Publication Release		
None		N/A			
Supporting Ma	terial				
Name			Publication Release		
OMA-SUP-XSD_rest_netapi_communicationpatterns-		This Release			
V1_0		OMA-RRP-REST_NetAPI_Common-V1_0			
OMA_TS_REST_NetAPI_Common-V1_0 OMA_SUP_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_Netwo	ork_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_COMPATT

This section is normative.

Item		Feature / Application	Requirement
OMA-ERDEF-REST-CO	MPATT-S-001-M	RESTful Network API for Communication Patterns 1.0 [REST_COMPATT]	REST-COMPATT-SUPPORT-S-001-M

Table 3: ERDEF for RESTful Network API for Communication Patterns 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 Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions	04 Apr 2016	All	Initial draft baseline document
OMA-ERELD-	18 Apr 2016	5	Updated document list prior to Consistency Review
REST_NetAPI_CommunicationPatterns-			Editorial changes
V1_0	05 May 2016		Implemented all the consistency review comments
	06 May 2016	5	Updated document list prior to Candidate approval
			Editorial changes
	09 May 2016	5	Updated document list prior to Candidate approval
Candidate Version	12 May 2016	All	Status changed to Candidate by TP
OMA-ERELD-			TP Ref # OMA-TP-2016-0071R01-
REST_NetAPI_CommunicationPatterns-			INP_RESTNetAPI_Communication_Patterns_V1_0_ERP_for_Candida
V1_0			te_approval