Enabler Test Requirements for the RESTful Network API for OMA Push

Candidate Version 1.0 – 12 Jul 2011

Open Mobile Alliance

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1. Scope

The Enabler Test Requirements (ETR) document is for the RESTful Network API for OMA Push 1.0 Enabler.

This ETR document covers the Push Network API requirements collected in the Push Network API Technical Specifications from interoperability perspective.

2. References

2.1 Normative References

[IOPPROC]	"OMA Interoperability Policy and Process", Version 1.9, Open Mobile Alliance™, OMA-ORG-IOP_Process-V1_9, URL:http://www.openmobilealliance.org/
[REST_NetAPI_Push_EREL D]	"Enabler Release Definition for the RESTful Network API for OMA Push 1.0", Open Mobile Alliance™, OMA-ERELD-REST_NetAPI_Push-V1_0, URL:http://www.openmobilealliance.org/
[REST_NetAPI_Push_TS]	"RESTful Network API for OMA Push, Open Mobile Alliance™. OMA-TS-REST_NetAPI_Push-V1_0, URL:http://www.openmobilealliance.org/
[REST_NetAPI_Push_ERP]	"Enabler Release Package for the RESTful Network API for OMA Push 1.0", Open Mobile Alliance™, OMA-ERP-REST_NetAPI_Push-V1_0, 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

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" and "Introduction", are normative, unless they are explicitly indicated to be informative.

3.2 Definition

TestFest	Multi-lateral interoperability testing event

3.3 Abbreviations

API	Application Programming Interface
ETR	Enabler Test Requirements
JSON	JavaScript Object Notation
OMA	Open Mobile Alliance
RD	Requirements Document
REST	Representational State Transfer
TS	Technical Specification
XML	Extended Markup Language

4. Introduction

The purpose of this Enabler Test Requirements (ETR) document is to help guide the testing effort for the RESTful Network API for OMA Push V1.0 Enabler, documenting those areas where testing is most important to ensure interoperability of implementations.

Version 1.0 of the Enabler comprises the following specifications:

- OMA-TS-REST_NetAPI_Push-V1_0

Generally, the testing activity should aim at validating the normal working behaviour of client/server interactions, as well as testing the error conditions whenever it is possible to set up the appropriate scenarios. The following sections provide a more detailed description of the testing requirements for the RESTful Network API for OMA Push V1.0 Enabler.

This document also intends to provide some guidance on the prioritization of the specifications and features to be tested within the RESTful Network API for OMA Push V1.0 Enabler.

5. Test Requirements

5.1 Enabler Test Requirements

The test requirements collected in this section are related to the enabler RESTful Network API for OMA Push V1.0.

5.1.1 Mandatory Test Requirements

Mandatory test requirements are covering mandatory features/functions of an Enabler which shall always be implemented.

5.1.1.1 Mandatory Test Requirements

	Feature Key	Feature Description	Feature Test Requirements
Normal Flow	REST_NetAPI_Push-M-001	Create a new Push message	Create a new Push message, as specified in [REST_NetAPI_Push_TS]
	REST_NetAPI_Push-M-002	Replace an existing Push message	Replace an existing Push message, as specified in [REST_NetAPI_Push_TS]
	REST_NetAPI_Push-M-003	Cancel a Push message	Cancel a Push message, as specified in [REST_NetAPI_Push_TS]
	REST_NetAPI_Push-M-004	Send notification about the outcome of a Push message	Send notification about the outcome of a Push message, as specified in [REST_NetAPI_Push_TS]
Error Flow	REST_NetAPI_Push-M-005	Handle error cases	Test standard error scenarios • Badly formed requests

Table 1: Applicability Table for Enabler Specific Mandatory Test Requirements –RESTful Network API for OMA Push 1.0

5.1.2 Optional Test Requirements

Optional test requirements cover optional features/functions of an Enabler.

If an optional requirement of the Enabler is implemented, this requirement SHALL be tested.

5.1.2.1 Optional Test Requirements

	Feature Key	Feature Description	Feature Test Requirements
Normal Flow	REST_NetAPI_Push-O-001	Query a Push request delivery status	Query a Push request delivery status, as specified in [REST_NetAPI_Push_TS].
	REST_NetAPI_Push-O-002	Partially cancel a Push message	Partially cancel a Push message, as specified in [REST_NetAPI_Push_TS]
	REST_NetAPI_Push-O-003	Query the capabilities of a Push client	Query the capabilities of a Push client, as specified in [REST_NetAPI_Push_TS].
Error Flow	REST_NetAPI_Push-O-004	Handle error cases	Test standard error scenarios • Badly formed requests

Table 2: Applicability Table for Enabler Specific Optional Test Requirements –RESTful Network API for OMA Push 1.0

5.2 Backwards Compatibility

RESTful Network API for OMA Push V1.0 is the first version of the enabler.

5.3   Enabler Dependencies

RESTful Network API for OMA Push V1.0 has no testing dependencies.

Appendix A.   Change History   (Informative)

A.1   Approved Version History

Reference	Date	Description
n/a	n/a	No prior version -or- No previous version within OMA

A.2   Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions: OMA-ETR-PushREST-V1_0	09 Feb, 2011	ALL	Document draft baseline per ageed INP: OMA-CD-PUSH-2011-0004R01-INP_PushREST_ETR_Baseline.doc
	10 Feb, 2011	ALL	Updated to 2011 template
OMA-ETR- REST_NetAPI_Push-V1_0	28 May, 2011	All	Updated by CR OMA-CD-PUSH-2011-0043-CR_PushREST_new_template_ETR
Candidate Version: OMA-ETR-REST_NetAPI_Push-V1_0	12 Jul, 2011	All	Status changed to Approved by TP: OMA-TP-2011-0242-INP_PushREST_V1_0_ERP_for_Candidate_Approval