



Enabler Test Requirements for the RESTful Network API for OMA Push

Candidate Version 1.0 – 12 Jul 2011

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Contents

- 1. SCOPE4
- 2. REFERENCES5
 - 2.1 NORMATIVE REFERENCES5
 - 2.2 INFORMATIVE REFERENCES5
- 3. TERMINOLOGY AND CONVENTIONS6
 - 3.1 CONVENTIONS6
 - 3.2 DEFINITION6
 - 3.3 ABBREVIATIONS6
- 4. INTRODUCTION7
- 5. TEST REQUIREMENTS8
 - 5.1 ENABLER TEST REQUIREMENTS8
 - 5.1.1 Mandatory Test Requirements8
 - 5.1.2 Optional Test Requirements8
 - 5.2 BACKWARDS COMPATIBILITY8
 - 5.3 ENABLER DEPENDENCIES9
- APPENDIX A. CHANGE HISTORY (INFORMATIVE)10
 - A.1 APPROVED VERSION HISTORY10
 - A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY10

Tables

- Table 1: Applicability Table for Enabler Specific Mandatory Test Requirements –RESTful Network API for OMA Push 1.08
- Table 2: Applicability Table for Enabler Specific Optional Test Requirements –RESTful Network API for OMA Push 1.08

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/](http://www.openmobilealliance.org/)
- [REST_NetAPI_Push_ERELD] “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/](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/](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/](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)

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/)

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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 aged 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 |