

Enabler Test Specification for the RESTful Network API for OMA Push

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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	6
3.3 ABBREVIATIONS	7
4. INTRODUCTION	10
5. TEST CASES	11
5.1 PUSH MESSAGE RESOURCE CREATION AND STATUS QUERY	11
5.1.1 Push Message Resource Creation and Status Query, XML Binding	11
5.1.2 Push Message Resource Creation and Status Query, JSON Binding	11
5.2 PUSH MESSAGE RESULT NOTIFICATION	
5.2.1 Push Message Result Notification, XML Binding	12
5.2.2 Push Message Result Notification, JSON Binding	13
5.3 PUSH MESSAGE REPLACEMENT	13
5.3.1 Push Message Replacement Using Same Push ID, XML Binding	13
5.3.2 Push Message Replacement Using Same Push ID, JSON Binding	
5.3.3 Push Message Replacement Using New Push ID, XML Binding	
5.3.4 Push Message Replacement Using New Push ID, JSON Binding	16
5.4 PUSH MESSAGE CANCELLATION	
5.4.1 Push Message Cancellation, XML Binding	16
5.4.2 Push Message Cancellation, JSON Binding	17
5.4.3 Push Message Partial Cancellation, XML Binding	
5.4.4 Push Message Partial Cancellation, JSON Binding	18
5.5 CLIENT CAPABILITIES QUERY	19
5.5.1 Client Capabilities Query, XML Binding	
5.5.2 Client Capabilities Query, JSON Binding	20
APPENDIX A. CHANGE HISTORY (INFORMATIVE)	21
A.1 APPROVED VERSION HISTORY	21
A 2. Draft/Candidate Version 1 0 History	21

Figures

No table of figures entries found.

1. Scope

This document describes in detail the Interoperability test cases for the RESTful Network API for OMA Push (PushREST) V1.0.

2. References

2.1 Normative References

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REST_NetAPI_Push-V1_0, <u>URL:http://www.openmobilealliance.org/</u>

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"Enabler Test Requirements for the RESTful Network API for OMA Push 1.0", Open Mobile [REST_NetAPI_Push_

AllianceTM, OMA-ETR-REST NetAPI Push-V1 0, URL:http://www.openmobilealliance.org/ ETR]

[REST_NetAPI_Push_ "Enabler Validation Plan for the RESTful Network API for OMA Push 1.0", Open Mobile Alliance™, OMA-EVP-REST_NetAPI_Push-V1_0, <u>URL:http://www.openmobilealliance.org/</u> EVP]

[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™,

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

The following numbering scheme is used:

xxx-y.z-con-number where:

xxx Name of enabler, e.g. MMS or Browsing
 y.z Version of enabler release, e.g. 1.2 or 1.2.1
 'con' Indicating this test is a conformance test case

number Leap number for the test case

Or

xxx-y.z-int-number where:

xxx Name of enabler, e.g. MMS or Browsing
 y.z Version of enabler release, e.g. 1.2 or 1.2.1
 'int' Indicating this test is a interoperability test case

number Leap number for the test case

3.2 Definitions

Application A value-added data service provided to a Client. The application may utilise both push and pull data

transfer to deliver content

Application Addressing The ability to address a particular user agent on a WAP client.

Bearer Network a network used to carry the messages of a transport-layer protocol between physical devices.

Multiple bearer networks may be used over the life of a single push session.

Client In the context of push, a client is a device (or service) that expects to receive push content from a

server. In the context of pull a client, it is a device initiates a request to a server for content or data.

See also "device"

Contact Point Address information that describes how to reach a push proxy gateway, including transport protocol

address and port of the push proxy gateway.

Content Subject matter (data) stored or generated at an origin server. Content is typically displayed or

interpreted by a user agent on a client. Content can both be returned in response to a user request, or

pushed directly to a client.

Content Encoding when used as a verb, content encoding indicates the act of converting a data object from one format

to another. Typically the resulting format requires less physical space than the original, is easier to process or store, and/or is encrypted. When used as a noun, content encoding specifies a particular

format or encoding standard or process.

Content Format actual representation of content.

Device Is a network entity that is capable of sending and/or receiving packets of information and has a

unique device address. A device can act as either a client or a server within a given context or across

multiple contexts. For example,

a device can service a number of clients (as a server) while being a client to another server.

End-user See "user"

Multicast Message a push message containing a single address which implicitly specifies more than one OTA client

address.

Push Framework The entire Push system. The push framework encompasses the protocols, service interfaces, and

software entities that provide the means to push data to user agents in the WAP client.

Push Initiator The entity that originates push content and submits it to the push framework for delivery to a user

agent on a client.

Push OTA Protocol A protocol used for conveying content between a Push Proxy Gateway and a certain user agent on a

client.

Push Proxy Gateway A proxy gateway that provides push proxy services.

Push Session A WSP session that is capable of conducting push operations.

Registration Refers to a procedure where the PPG becomes aware of the terminal's current capabilities and

preferences.

Registration Context A state where the PPG is aware of at least the last capabilities and preferences conveyed from

the terminal.

Server A device (or service) that passively waits for connection requests from one or more clients. A server

may accept or reject a connection request from a client. A server may initiate a connection to a client

as part of a service (push).

Terminal See "client".

Terminal-ID An identifier that is used by a PPG to uniquely identify a terminal.

User A user is a person who interacts with a user agent to view, hear, or otherwise use a rendered content.

Also referred to as end-user

User agent A user agent (or content interpreter) is any software or device that interprets resources. This may

include

textual browsers, voice browsers, search engines, etc.

3.3 Abbreviations

ABNF Augmented Backus-Naur Form

CPI Capability and Preference Information

CSD Circuit Switched Data

DNS Domain Name Server

DTD Document Type Definition

ETR Enabler Test Requirements

ETS Enabler Test Specification

GPRS General Packet Radio Service

HTTP Hypertext Transfer Protocol

IANA Internet Assigned Numbers Authority

IP Internet Protocol

MAC Authenication code

MS Mobile Station

MSISDN Mobile Station International Subscriber Directory Number

OMA Open Mobile Alliance
OMA Open Mobile Alliance

OMNA Open Mobile Naming Authority

OTA Over The Air

OTA-HTTP (Push) OTA over HTTP
OTA-HTTP-TLS OTA-HTTP over TLS
OTA-SIP (Push) OTA over SIP
OTA-WSP (Push) OTA over WSP
PAP Push Access Protocol
PDP Packet Data Protocol

PI Push Initiator

PO-TCP PPG Originated TCP connection establishment method

PPG Push Proxy Gateway

QoS Quality of Service

RADIUS Remote Authentication Dial-In User Service

RFC Request For Comments

SEC Security Control

SHA-1 Secure Hash Algorithm 1

SI Service Indication

SIA Session Initiation Application
SIP Session Initiation Protocol
SIR Session Initiation Request

SL Service Loading

SMS Short Message Service

TCP Transmission Control Protocol

TLS Transport Layer Security

TO-TCP Terminal Originated TCP connection establishment method

UDP User Datagram Protocol
URI Uniform Resource Identifier

URL Uniform Resource Locator

WAP Wireless Application Protocol

WBXML WAP Binary XML

WDP Wireless Datagram Protocol

WINA WAP Interim Naming Authority

WSP Wireless Session Protocol

WTLS Wireless Transport Layer Security

4. Introduction

The purpose of this document is to provide test cases for the PushREST 1.0 Enabler.

Test configuration requirements are defined in [REST_NetAPI_Push_EVP].

5. Test Cases

5.1 Push Message Resource Creation and Status Query

5.1.1 Push Message Resource Creation and Status Query, XML Binding

Test Case ID	PushREST-1.0-int-1
Test Object	PPG/Initiator
Test Case Description and Purpose	Verify creation of a push message resource for a new push message request using the XML binding.
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.1
SCR Reference	REST-PUSH-SUPPORT-S-002-M, REST-PUSH-MSG-S-002-M, REST-PUSH-SQ-S-002-O
ETR Reference	REST_NetAPI_Push-M-001
	REST_NetAPI_Push-O-001
Tool	Push Intiator
Test Code/Files	To be defined
Preconditions	No push message resource exists for the push message request.
Test Procedure	1. As Push Initiator, an Application requests Push message delivery using PUT for a new resource identified by the initiatorAddress and pushId, using the XML binding.
	2. The PPG creates the new resource, and confirms Push message acceptance for the pushId, using the XML binding.
	3. The application requests the delivery status of the Push message created earlier, using GET to the resource URL created earlier, using the XML binding.
Pass-Criteria	4. The PPG responds with the delivery status for the Push message, using the XML binding.

5.1.2 Push Message Resource Creation and Status Query, JSON Binding

Test Case ID	PushREST-1.0-int-2
Test Object	PPG/Initiator
Test Case Description and Purpose	Verify creation of a push message resource for a new push message request using the JSON binding.
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.1
SCR Reference	REST-PUSH-SUPPORT-S-003-O, REST-PUSH-MSG-S-002-M, REST-PUSH-SQ-S-002-O

ETR Reference	REST_NetAPI_Push-M-001, REST_NetAPI_Push-O-001
Tool	Push Intiator
Test Code/Files	To be defined
Preconditions	No push message resource exists for the push message request.
Test Procedure	1. As Push Initiator, an Application requests Push message delivery using PUT for a new resource identified by the initiator Address and pushId, using the JSON binding.
	2. The PPG creates the new resource, and confirms Push message acceptance for the pushId, using the JSON binding.
	3. The application requests the delivery status of the Push message created earlier, using GET to the resource URL created earlier, using the JSON binding.
Pass-Criteria	4. The PPG responds with the delivery status for the Push message, using the JSON binding.

5.2 Push Message Result Notification

5.2.1 Push Message Result Notification, XML Binding

Test Case ID	PushREST-1.0-int-3
Test Object	PPG/Initiator
Test Case Description and Purpose	Verify delivery of a push message result notification using the XML binding.
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.2
SCR Reference	REST-PUSH-SUPPORT-S-002-M, REST-PUSH-RN-S-002-M
ETR Reference	REST_NetAPI_Push-M-004
Tool	Push Intiator
Test Code/Files	To be defined
Preconditions	PushREST-1.0-int-1
Test Procedure	Using the XML binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and pushId, and includes a result notification URL indicating that the application wants to be explicitly informed of the Push Message delivery result. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the XML binding.
Pass-Criteria	3. The PPG completes delivery of the Push message, and using the XML binding sends a result notification to the notification URL indicating that the message was

successfully delivered, and further details as applicable (e.g. to which target
addresses the delivery was successful).

5.2.2 Push Message Result Notification, JSON Binding

Test Case ID	PushREST-1.0-int-4
Test Object	PPG/Initiator
Test Case Description and Purpose	Verify delivery of a push message result notification using the JSON binding.
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.2
SCR Reference	REST-PUSH-SUPPORT-S-003-O, REST-PUSH-RN-S-002-M
ETR Reference	REST_NetAPI_Push-M-004
Tool	Push Intiator
Test Code/Files	To be defined
Preconditions	PushREST-1.0-int-2
Test Procedure	1. Using the JSON binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and push Id, and includes a result notification URL indicating that the application wants to be explicitly informed of the Push Message delivery result. 2. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the JSON binding.
Pass-Criteria	3. The PPG completes delivery of the Push message, and using the JSON binding sends a result notification to the notification URL indicating that the message was successfully delivered, and further details as applicable (e.g. to which target addresses the delivery was successful).

5.3 Push Message Replacement

5.3.1 Push Message Replacement Using Same Push ID, XML Binding

Test Case ID	PushREST-1.0-int-5
Test Object	PPG/Initiator
Test Case Description and Purpose	Verify replacement of a push message with the same pushId, using the XML binding.
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.3
SCR Reference	REST-PUSH-SUPPORT-S-002-M, REST-PUSH-MSG-S-003-M

ETR Reference	REST_NetAPI_Push-M-002
Tool	Push Intiator
Test Code/Files	To be defined
Preconditions	PushREST-1.0-int-1
Test Procedure	 Using the XML binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiatorAddress and pushId. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the XML binding. The PI decides to replace the earlier Push Message for all recipients for which delivery has not been completed, and using the XML binding, requests Push message replacement using PUT for the same resource URL earlier created for the
	pushId, and identifying the earlier Push Message resource URL as the message to be replaced.
Pass-Criteria	4. The PPG cancels delivery of the earlier Push Message for all pending target addresses, if possible, and sends a Result Notification using the XML binding, if requested by the PI for the earlier Push Message. The PPG replaces the Push Message resource for the pushId with a new Push Message for the pending target addresses only, and confirms acceptance of Push Message replacement for the pushed, using the XML binding.

5.3.2 Push Message Replacement Using Same Push ID, JSON Binding

Test Case ID	PushREST-1.0-int-6
Test Object	PPG/Initiator
Test Case Description and Purpose	Verify replacement of a push message with the same pushId, using the JSON binding.
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.3
SCR Reference	REST-PUSH-SUPPORT-S-003-O, REST-PUSH-MSG-S-003-M
ETR Reference	REST_NetAPI_Push-M-002
Tool	Push Intiator
Test Code/Files	To be defined
Preconditions	PushREST-1.0-int-2
Test Procedure	1. Using the JSON binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and pushId.

	2. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the JSON binding. 3. The PI decides to replace the earlier Push Message for all recipients for which delivery has not been completed, and using the JSON binding, requests Push message replacement using PUT for the same resource URL earlier created for the pushId, and identifying the earlier Push Message resource URL as the message to be replaced.
Pass-Criteria	4. The PPG cancels delivery of the earlier Push Message for all pending target addresses, if possible, and sends a Result Notification using the JSON binding, if requested by the PI for the earlier Push Message. The PPG replaces the Push Message resource for the pushId with a new Push Message for the pending target addresses only, and confirms acceptance of Push Message replacement for the pushed, using the JSON binding.

5.3.3 Push Message Replacement Using New Push ID, XML Binding

Test Case ID	PushREST-1.0-int-7
Test Object	PPG/Initiator
Test Case Description and Purpose	Verify replacement of a push message with a new pushId, using the XML binding.
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.4
SCR Reference	REST-PUSH-SUPPORT-S-002-M, REST-PUSH-MSG-S-003-M
ETR Reference	REST_NetAPI_Push-M-002
Tool	Push Intiator
Test Code/Files	To be defined
Preconditions	PushREST-1.0-int-1
Test Procedure	1. Using the XML binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and pushId.
	2. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the XML binding.
	3. The PI decides to replace the earlier Push Message for all recipients, and using the XML binding, requests Push message replacement using PUT for a new resource URL uniquely identified by the initiator Address and the new pushId. The body of the request contains reference that identifies the earlier Push Message resource URL as the message to be replaced.
Pass-Criteria	4. The PPG cancels delivery of the earlier Push Message for all pending target addresses, if possible, and using the XML binding, sends a Result Notification if requested by the PI for the earlier Push Message. The PPG creates a new Push Message resource for the new pushId, for all of the target addresses, and confirms acceptance of Push Message replacement for the new pushed, using the XML binding.

5.3.4 Push Message Replacement Using New Push ID, JSON Binding

Test Case ID	PushREST-1.0-int-8			
Test Object	PPG/Initiator			
Test Case Description and Purpose	Verify replacement of a push message with a new pushId, using the JSON binding.			
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.4			
SCR Reference	REST-PUSH-SUPPORT-S-003-O, REST-PUSH-MSG-S-003-M			
ETR Reference	REST_NetAPI_Push-M-002			
Tool	Push Intiator			
Test Code/Files	To be defined			
Preconditions	PushREST-1.0-int-2			
Test Procedure	1. Using the JSON binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and pushId.			
	2. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the JSON binding.			
	3. The PI decides to replace the earlier Push Message for all recipients, and using the JSON binding, requests Push message replacement using PUT for a new resource URL uniquely identified by the initiator Address and the new pushId. The body of the request contains reference that identifies the earlier Push Message resource URL as the message to be replaced.			
Pass-Criteria	4. The PPG cancels delivery of the earlier Push Message for all pending target addresses, if possible, and using the JSON binding, sends a Result Notification if requested by the PI for the earlier Push Message. The PPG creates a new Push Message resource for the new pushId, for all of the target addresses, and confirms acceptance of Push Message replacement for the new pushed, using the JSON binding.			

5.4 Push Message Cancellation

5.4.1 Push Message Cancellation, XML Binding

Test Case ID	PushREST-1.0-int-9			
Test Object	PPG/Initiator			
Test Case Description and Purpose	Verify cancellation of a push message, using the XML binding.			
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.5			

SCR Reference	REST-PUSH-SUPPORT-S-002-M, REST-PUSH-MSG-S-004-O			
ETR Reference	REST_NetAPI_Push-M-003			
Tool	Push Intiator			
Test Code/Files	To be defined			
Preconditions	PushREST-1.0-int-1			
Test Procedure	Using the XML binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and pushId. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the XML binding. After some time, the application decides to cancel the Push Message created earlier, using DELETE to the resource URL created earlier, using the XML binding.			
Pass-Criteria	4. The PPG cancels delivery of the earlier Push Message if possible for all pending target addresses and using the XML binding, sends a Result Notification if requested by the PI for the earlier Push Message. The PPG responds with confirmation of the Push Message cancellation, using the XML binding.			

5.4.2 Push Message Cancellation, JSON Binding

Test Case ID	PushREST-1.0-int-10			
Test Object	PPG/Initiator			
Test Case Description and Purpose	Verify cancellation of a push message, using the JSON binding.			
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.5			
SCR Reference	REST-PUSH-SUPPORT-S-003-O, REST-PUSH-MSG-S-004-O			
ETR Reference	REST_NetAPI_Push-M-003			
Tool	Push Intiator			
Test Code/Files	To be defined			
Preconditions	PushREST-1.0-int-2			
Test Procedure	 Using the JSON binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiatorAddress and pushId. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the JSON binding. 			

	3. After some time, the application decides to cancel the Push Message created earlier, using DELETE to the resource URL created earlier, using the JSON binding.
Pass-Criteria	4. The PPG cancels delivery of the earlier Push Message if possible for all pending target addresses and using the JSON binding, sends a Result Notification if requested by the PI for the earlier Push Message. The PPG responds with confirmation of the Push Message cancellation, using the JSON binding.

5.4.3 Push Message Partial Cancellation, XML Binding

Test Case ID	PushREST-1.0-int-11			
Test Object	PPG/Initiator			
Test Case Description and Purpose	Verify cancellation of a push message, using the XML binding.			
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.6			
SCR Reference	REST-PUSH-SUPPORT-S-002-M, REST-PUSH-PC-S-002-O			
ETR Reference	REST_NetAPI_Push-O-002			
Tool	Push Intiator			
Test Code/Files	To be defined			
Preconditions	PushREST-1.0-int-1			
Test Procedure	1. Using the XML binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and pushId.			
	2. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the XML binding.			
	3. After some time, the application decides to cancel the Push Message created earlier for some target addresses only. Using the XML binding, the application sends a Cancel Message request using POST to the resource URL created earlier, indicating the set of addresses for which message delivery should be cancelled.			
Pass-Criteria	4. The PPG cancels delivery of the earlier Push Message if possible for all of the indicated target addresses for which delivery is still pending, and using the XML binding, sends a Result Notification if requested by the PI for the earlier Push Message. Using the XML binding, the PPG responds with confirmation of the Push Message cancellation for the indicated target addresses.			

5.4.4 Push Message Partial Cancellation, JSON Binding

Test Case ID	PushREST-1.0-int-12			
Test Object	PPG/Initiator			
Test Case Description and Purpose	Verify cancellation of a push message, using the JSON binding.			

Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.6			
SCR Reference	REST-PUSH-SUPPORT-S-003-O, REST-PUSH-PC-S-002-O			
ETR Reference	REST_NetAPI_Push-O-002			
Tool	Push Intiator			
Test Code/Files	To be defined			
Preconditions	PushREST-1.0-int-2			
Test Procedure	 Using the JSON binding, as Push Initiator, an application requests Push message delivery using PUT for a new resource URL uniquely identified by the initiator Address and pushId. The PPG creates the new resource, and confirms Push Message acceptance for the pushed, using the JSON binding. After some time, the application decides to cancel the Push Message created earlier for some target addresses only. Using the JSON binding, the application sends a Cancel Message request using POST to the resource URL created earlier, 			
Pass-Criteria	 indicating the set of addresses for which message delivery should be cancelled. 4. The PPG cancels delivery of the earlier Push Message if possible for all of the indicated target addresses for which delivery is still pending, and using the JSON binding, sends a Result Notification if requested by the PI for the earlier Push Message. Using the JSON binding, the PPG responds with confirmation of the Push Message cancellation for the indicated target addresses. 			

5.5 Client Capabilities Query

5.5.1 Client Capabilities Query, XML Binding

Test Case ID	PushREST-1.0-int-13			
Test Object	PG/Initiator			
Test Case Description and Purpose	Verify client capabilities query, using the XML binding.			
Specification Reference	ST_NetAPI_Push_TS] Section 5.3.7			
SCR Reference	T-PUSH-SUPPORT-S-002-M, REST-PUSH-CQ-S-002-O			
ETR Reference	REST_NetAPI_Push-O-003			
Tool	Push Intiator			
Test Code/Files	To be defined			
Preconditions	PushREST-1.0-int-1			

Test Procedure	1. Using the XML binding, the Push Initiator queries the capabilities of the client identified by an address, using GET.		
Pass-Criteria	2. The PPG responds with the capabilities of the client, using the XML binding.		

5.5.2 Client Capabilities Query, JSON Binding

Test Case ID	PushREST-1.0-int-15			
Test Object	PPG/Initiator			
Test Case Description and Purpose	Verify client capabilities query, using the JSON binding.			
Specification Reference	[REST_NetAPI_Push_TS] Section 5.3.7			
SCR Reference	REST-PUSH-SUPPORT-S-003-O, REST-PUSH-CQ-S-002-O			
ETR Reference	REST_NetAPI_Push-O-003			
Tool	Push Intiator			
Test Code/Files	To be defined			
Preconditions	PushREST-1.0-int-2			
Test Procedure	1. Using the JSON binding, the Push Initiator queries the capabilities of the client identified by an address, using GET.			
Pass-Criteria	2. The PPG responds with the capabilities of the client, using the JSON binding.			

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	Section	Description
Draft Versions OMA-ETS-PushREST-V1 0	10 Sep 2012	All	Intitial baseline as agreed in OMA-IOP-BRO-2012-0047-INP PushREST ETS Baseline
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