Enabler Test Report

Email Notification v1.0

OMA TestFest (July 2006)
Version 7-Jul-2006

Open Mobile Alliance
OMA-Enabler_Test_Report-EMN-10-2006-07-07

Contents

1. Scope

This report describes the results from the testing carried out at OMA TestFest-15 (June 2006) concerning Email Notification v1.0 Enabler.

2. References

2.1   Normative References

[EMN]	Email Notification Version 1.0 OMA-Push-EMN-v1.0_20040614-C
[ETS]	OMA-ETS-EMN-V1_0-20050713A URL: http://www.openmobilealliance.org/
[IOPProc]	"OMA Interoperability Policy and Process". Open Mobile Alliance™. OMA-IOP-Process-v1_0. URL: http://www.openmobilealliance.org
[ISO10646]	"Information Technology - Universal Multiple-Octet Coded Character Set (UCS) - Part 1: Architecture and Basic Multilingual Plane", ISO/IEC 10646-1:2000.
[OMNA]	"OMA Naming Authority", OMA™, URL: http://www.openmobilealliance.org/tech/omna/index.htm
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels". S. Bradner. March 1997. URL: http://www.ietf.org/rfc/rfc2119.txt
[RFC2234]	"Augmented BNF for Syntax Specifications: ABNF". D. Crocker, Ed., P. Overell. November 1997. URL: http://www.ietf.org/rfc/rfc2234.txt
[RFC2396]	"Uniform Resource Identifiers (URI): Generic Syntax". T. Berners-Lee et al. August 1998 URL: http://www.ietf.org/rfc/rfc2396.txt
[RFC3023]	"XML Media Types", M. Murata et al., January 2001. URL: http://www.ietf.org/rfc/rfc3023.txt
[UNICODE]	"The Unicode Standard: Version 2.0", The Unicode Consortium, Addison-Wesley Developers Press, 1996. URL: http://www.unicode.org/
[WBXML]	"Binary XML Content Format Format", WAP Forum, WAP-192-WBXML-20010725-a, 25-Jul-2001, URL: http://www.wapforum.org/
[XML]	"Extensible Markup Language (XML)", W3C Recommendation 10-February-1998, REC-xml-19980210", T. Bray, et al, February 10, 1998, http://www.w3.org/TR/REC-xml

2.2   Informative References

[ISO8601]	"Data elements and interchange formats - Information interchange - Representation of dates and times", International Organization For Standardization (ISO), 15-June-1988
	"Data elements and interchange formats - Information interchange - Representation of dates and times, Technical Corrigendum 1", International Organization For Standardization (ISO) - Technical Committee ISO/TC 154, 01-May-1991
[PUSH]	"WAP Push Architectural Overview". WAP Forum™. WAP-250-PushArchOverview-20010703-a. URL: http//www.wapforum.org/
[PUSHMSG]	"Push Message". WAP Forum™. WAP-251-PushMessage-20010322-a. URL: http://www.wapforum.org/
[PushOTA]	"Push OTA Protocol". WAP Forum™. WAP-235-PushOTA-20010425-a. URL: http//www.wapforum.org/
[PushPAP]	"Push Access Protocol". WAP Forum™. WAP-247-PAP-20010429-a. URL: http://www.wapforum.org/
[RFC2192]	"IMAP URL Scheme". C. Newman. September 1997. URL: http://www.ietf.org/rfc/rfc2192.txt

[RFC2384]   "POP URL Scheme". R. Gellens. August 1998. URL: http://www.ietf.org/rfc/rfc2384.txt

[RFC2822]   "Internet Message Format". P. Pesnick, Ed. April 2001.
                       URL: http://www.ietf.org/rfc/rfc2822.txt

[WAP]   "WAP Architecture". WAP Forum™. WAP-210-WAPArch-20010712, URL:
                       http://www.wapforum.org/

3. Terminology and Conventions

3.1 Conventions

This is an informative document, i.e. the document does not intend to contain normative statements.

3.2 Abbreviations

DTD	Document Type Definition
EMN	E-Mail Notification
EMN UA	EMN User Agent
HTTP	Hypertext Transfer Protocol
IANA	Internet Assigned Numbers Authority
IMAP	Internet Message Access Protocol
IMAPS	Secure Internet Message Access Protocol
IOProc	Interoperability Procedure
MIME	Multipurpose Internet Mail Extensions
OMNA	Open Mobile Alliance Naming Authority
OTA	Over The Air
PAP	Push Access Protocol
PI	Push Initiator
POP	Post Office Protocol
POPS	Secure Post Office Protocol
PPG	Push Proxy Gateway
RFC	Request For Comments
SGML	Standard Generalized Markup Language
SMTP	Simple Mail Transfer Protocol
SSMTP	Secure Simple Mail Transfer Protocol
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
UTC	Universal Time Co-ordinated
WAP	Wireless Application Protocol
WBXML	WAP Binary XML
XML	Extensible Mark-up Language

4. Summary

This report gives details of the testing carried out during the OMA TestFest-15 (June 2006) for Email Notification (EMN) v1.0 Enabler

The report is compiled on behalf of OMA by the OMA Trusted Zone.

The work and reporting has followed the OMA IOP processes and policies [OMAIOPPROC].

5. Test Details

5.1   Documentation

This chapter lists the details of the enabler and any documentation, tools or test suites used to prove the enabler.

Date:	25th to 30th June 2006
Location:	Belfast, Northern Ireland, UK
Enabler:	Email Notification v1.0 Enabler
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-server, Client-to-Client
Test Plan:	-
Test Specification:	EMN Enabler Test Specification - OMA-ETS-EMN-V1_0-20050713-C
Test Tool:	None
Test Code:	None
Type of Test event:	TestFest
Participants:	Nokia, Ericsson, Sony Ericsson, Openwave, Obigo
Number of Client Products:	3
Participating Technology Providers for clients:	Nokia, Sony Ericsson, Obigo
Number of Server Products:	2
Participating Technology Providers for servers:	Ericsson, Openwave
Number of test sessions completed:	4

5.2   Test Case Statistics

5.2.1   Test Case Summary

This chapter gives an overview of the result for all test cases included in [ETS].

The following status is used in the tables below:

- **Total number of TCs**: Used in the summary to indicate how many test cases there are in total.

- **Number of passed:** Used in the summary to indicate how many of the total test cases successfully passed.

- **Number of failed:** Used in the summary to indicate how many of the total test cases failed.

- **Number of N/A:** Used in the summary to indicate how many of the total test cases have not been run due to one of the implementations not supporting the functionality required to run this test case.

- **Number of OT:** Used in the summary to indicate how many of the total test cases have not been run due to no time to run the test case.

- **Number of INC:** Used in the summary to indicate how many of the total test cases have not been run due to functionality not being tested due to an error in the implementation or other functionality that is required to run this test case.

Test Section:	Number of test sessions:	Total number of TCs:	Number of Passed:	Number of Failed:	Number of N/A:	Number of OT:	Number of INC:	Total:
Client to Server TCs	4	49	68	2	126	0	0	196
Total	**4**	**49**	**68**	**2**	**126**	**0**	**0**	**196**

5.2.2   Test Case List

This chapter lists the statistics for all test cases included in [ETS].

The following status is used in the tables below:

- **No. of runs(R):** Used to indicate how many times the test cases have been run in total.

- **No. of passed(P):** Used to indicate how many times the test case has been run with successful result.

- **No. of failed(F):** Used to indicate how many times the test case has been run with failed result

- **No. of OT(O):** Used to indicate how many times the test case has not been run due to no time available.

- **No. of INC(I):** Used to indicate how many times the test case has not been run due to errors being found in other functionality required for running this test case.

- **PR:** Used to indicate if any PRs (Problem Reports) have been issued during testing.

- **Note:** Used to indicate the cause of Inconclusive or Fail verdicts.

Tests for Push-to-talk Over Cellular TestFest from OMA-ETS-EMN-V1_0-20050713-A

Test Case	Description	Test Counts					PR	Notes (see below)
		Run	Pass	Fail	OT	INC		
EMN-1.0-int-1	Verify that the client can support UTF – 8 encoding.	4	4	0	0	0		
EMN-1.0-int-2	Verify that the client can support UTF – 16 encoding.	4	0	0	0	0		
EMN-1.0-int-3	Verify that the client can parse the XML schema and process it properly by the device.	4	4	0	0	0		
EMN-1.0-int-4	Verify that the Client Required to test the Mailat URI which specifies the email address this will comply with [RFC2822]	4	4	0	0	0		
EMN-1.0-int-5	Verify that the Client handles Timestamp attribute –DateTime encoded in OPAQUE data format	4	3	0	0	0		
EMN-1.0-int-6	Verify that the Client handles a valid EMN Document Type Definition (DTD) data format.	4	4	0	0	0		
EMN-1.0-int-7	Verify that the Client handles a non valid EMN Document Type Definition (DTD) data format.	4	4	0	0	0		
EMN-1.0-int-8	Verify that the Client handles a valid EMN in Textual format.	4	2	0	0	0		

Test Case	Description	Test Counts					PR	Notes (see below)
		Run	Pass	Fail	OT	INC		
EMN-1.0-int-9	Verify that the Client handles a valid EMN in Tokenised format using a compact binary representation.	4	2	0	0	0		
EMN-1.0-int-10	Verify the Push application Accept ID announced in the User Agent Profile or the accept headers in absolute URI format	4	3	0	0	0		
EMN-1.0-int-11	Verify the Push application Accept ID announced in the User Agent Profile or the accept headers in the Hex format as assigned by [OMNA] The hexadecimal code is (0x09)	4	4	0	0	0		
EMN-1.0-int-12	Verify that different character coding as set in the Content_Type field will be supported by the device ie: UTF8 UTF16 and US-ASCII.	4	1	0	0	0		
EMN-1.0-int-13	Verify that the Client can connect using the Mailbox URI with the Email server address. and compliant to [RFC 2396]	4	2	0	0	0		
EMN-1.0-int-14	Verify that the Client can support POP2 protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-15	Verify that the Client can support POP2S protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-16	Verify that the Client can support POP3 protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	1	1	0	0		
EMN-1.0-int-17	Verify that the Client can support POP3S protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-18	Verify that the Client can support IMAP2 protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-19	Verify that the Client can support IMAP2S protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		

Test Case	Description	Test Counts					PR	Notes (see below)
		Run	Pass	Fail	OT	INC		
EMN-1.0-int-20	Verify that the Client can support IMAP4 protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	1	1	0	0		
EMN-1.0-int-21	Verify that the Client can support IMAP4S protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-22	Verify that the Client can support HTTP protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-23	Verify that the Client can support HTTPS protocol and uses the Mailat URI which specifies the email address details. This will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-24	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-25	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-26	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-27	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-28	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-29	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-30	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		

Test Case	Description	Test Counts					PR	Notes (see below)
		Run	Pass	Fail	OT	INC		
EMN-1.0-int-31	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-32	Verify that the Client Required to test the Mailbox URI which specifies the email address and protocol this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-33	Verify that the Client Required to test the Mailbox URI which specifies the email address this will comply with [RFC2822]	4	0	0	0	0		
EMN-1.0-int-34	Verify that the Client rejects an EMN that specifies a mailing protocol that the device does not support.	4	1	0	0	0		
EMN-1.0-int-35	Verify that the Client can support Out of Order notifications. So avoiding the Race condition	4	1	0	0	0		
EMN-1.0-int-36	Verify that the Client can support the Time stamp of the notifications in co-ordinated Universal Time Format (UTC). This avoids the use of different time zones.	4	2	0	0	0		
EMN-1.0-int-37	Verify that the Client can support other character encoding sets as required by XML but all should be transformed into Universal character set.	4	0	0	0	0		
EMN-1.0-int-38	Verify that the Client can support some form of security to prevent against attack. Thus preventing the device from attaching to a fraudulent mailbox. Therefore a security Policy should be implemented	4	3	0	0	0		
EMN-1.0-int-39	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully.	4	2	0	0	0		
EMN-1.0-int-40	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully.	4	2	0	0	0		

Test Case	Description	Test Counts					PR	Notes (see below)
		Run	Pass	Fail	OT	INC		
EMN-1.0-int-41	Verify the Email Server can send the proper Push application Accept ID announced in the User Agent Profile or the accept headers in absolute URI format	4	2	0	0	0		
EMN-1.0-int-42	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully.	4	2	0	0	0		
EMN-1.0-int-43	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully. The format of the EMN content is encoded into a compact	4	2	0	0	0		
EMN-1.0-int-44	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully in a textual format.	4	2	0	0	0		
EMN-1.0-int-45	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully in a tokenised format.	4	2	0	0	0		
EMN-1.0-int-46	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully. The format of the tokenized elements has to comply with	4	2	0	0	0		
EMN-1.0-int-47	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully.	4	2	0	0	0		

Test Case	Description	Test Counts					PR	Notes (see below)
		Run	Pass	Fail	OT	INC		
EMN-1.0-int-48	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully. A security Policy can be applied if possible	4	2	0	0	0		
EMN-1.0-int-49	Verify that the Email Server can connect to the Wap Push Proxy Gateway (PPG). Once a connection is established then an EMN can be sent via the Push Access Protocol (Push PAP) to the PPG successfully.	4	2	0	0	0		

5.3   Problem Reports

During the activities for TestFest-15, the following problem reports were generated relating to the test materials and test process:

None during the TestFest

PR Number	Affecting	Description	Test Case reference / Specification reference

Full details of the Problem Reports can be found at:

<div align="center">http://www.openmobilealliance.org/OMA-Problem-Reporting-System.html</div>

6. Confirmation

This signature states that the included information is true and valid.

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OMA Trusted Zone

Appendix A.   Change History   (Informative)

Type of Change	Date	Section	Description
Initial Release	7th July 2006	All	Initial Report from TestFest-15