



Enabler Release Definition for E-Mail Notification

Approved Version 1.0 – 19 Oct 2007

Open Mobile Alliance
OMA-ERELD-EMN-V1_0-20071019-A

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1. Scope

The scope of this document is limited to the Enabler Release Definition of EMNV1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

The scope of OMA EMN includes only the format for the e-mail notification itself. The EMN specification adds value to existing e-mail does not affect existing Internet e-mail transport protocols. Behaviour of the e-mail client and e-mail server are beyond the scope of the EMN specification.

2. References

2.1 Normative References

- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, 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
- [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>
- [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/>
- [WAP] “WAP Architecture”. WAP Forum™. WAP-210-WAPArch-20010712, URL: <http://www.wapforum.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”, "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 7 and 8 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCR RULES].

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

| | |
|--------------|--------------------------------|
| EMN | E-Mail Notification |
| ERDEF | Enabler Requirement Definition |
| ERELD | Enabler Release Definition |
| OMA | Open Mobile Alliance |

4. Release Version Overview

This document outlines the Enabler Release Definition for E-Mail Notification and the respective conformance requirements for clients and servers claiming compliance to it as defined by Open Mobile Alliance across the specification baseline.

The primary objective of the E-Mail Notification specification is to enable e-mail servers to invoke the e-mail client residing on the mobile device using the WAP Push framework [PUSH]. For this purpose, the specification defines a single format for the e-mail notification (EMN) in the form of a new content type that can be pushed to a device using WAP Push. It also defines the EMN User Agent Agent to be the client-side application that handles the EMN and triggers the e-mail client for further action. The e-mail client may then (depending on the implementation and user settings) retrieve the e-mail. This specification will allow e-mail servers to send notifications in a standardised format without the need to address various e-mail client implementations.

4.1 Version 1.0 Functionality

The minimum functionality of the EMN specification includes:

- Support for the EMN content type, enabling an e-mail server to invoke the e-mail client residing on a mobile device by sending an EMN via the Push Proxy Gateway.

The EMN specifications also define the following optional functionality:

- Enabling the use of various existing Internet e-mail protocols to retrieve e-mail.
- Enabling the use of a timestamp to specify the date and time associated with a notification.

5. Document Listing for EMN V1.0

This section is normative.

| Doc Ref | Permanent Document Reference | Description |
|---------------------------------|---------------------------------|---|
| Technical Specifications | | |
| [PUSH_EMN] | OMA-TS-Push-EMN-V1_0-20071019-A | Specification that defines the Email Notification content type and supporting client/server conformance requirements. |

Table 1: Listing of Documents in EMN V1.0 Enabler

6. 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.

7. ERDEF for EMN - Client Requirements

This section is normative.

| Item | Feature / Application | Requirement |
|---------------------|-----------------------|-------------|
| OMA-ERDEF-EMN-C-001 | EMN User Agent | EMN:MCF |

Table 2: ERDEF for EMN Client-side Requirements

8. ERDEF for EMN - Server Requirements

This section is normative.

| Item | Feature / Application | Requirement |
|---------------------|-----------------------|-------------|
| OMA-ERDEF-EMN-S-001 | Push Proxy Gateway | EMN:MSF |

Table 3: ERDEF for EMN Server-side Requirements

Appendix A. Change History

(Informative)

A.1 Approved Version 1.0 History

| Reference | Date | Description |
|---------------------|-------------|--|
| OMA-ERELED-EMN-V1_0 | 19 Oct 2007 | Status changed to Approved by TP TP Ref# OMA-TP-2007-0416-INP_EMN_V1_0_ERP_for_Final_Approval |