Enabler Release Definition for Enhanced Visual Voice Mail (EVVM)
Approved Version 1.0 – 15 Sep 2015

Open Mobile Alliance
OMA-ERELD-EVVM-V1_0-20150915-A
Contents

Table of Contents

1. SCOPE ............................................................................................................................................. 4
2. REFERENCES ...................................................................................................................................... 5
   2.1 NORMATIVE REFERENCES ........................................................................................................... 5
   2.2 INFORMATIVE REFERENCES ........................................................................................................ 5
3. TERMINOLOGY AND CONVENTIONS ............................................................................................. 6
   3.1 CONVENTIONS .............................................................................................................................. 6
   3.2 DEFINITIONS ................................................................................................................................. 6
   3.3 ABBREVIATIONS ........................................................................................................................... 6
4. RELEASE VERSION OVERVIEW ....................................................................................................... 7
   4.1 VERSION 1.0 FUNCTIONALITY ...................................................................................................... 7
5. DOCUMENT LISTING FOR EVVM ENABLER V1.0 ......................................................................... 9
6. OMNA CONSIDERATIONS ................................................................................................................ 11
7. CONFORMANCE REQUIREMENTS NOTATION DETAILS ............................................................... 12
8. ERDEF FOR EVVM V1.0 - CLIENT REQUIREMENTS ................................................................... 13
9. ERDEF FOR EVVM V1.0 - SERVER REQUIREMENTS .................................................................. 14
APPENDIX A. CHANGE HISTORY (INFORMATIVE) ........................................................................... 15
   A.1 APPROVED VERSION HISTORY .................................................................................................. 15

Tables

Table 1: Listing of Documents in EVVM V1.0 Enabler ........................................................................... 10
Table 2: ERDEF for EVVM V1.0 Client-side Requirements .................................................................... 13
Table 3: ERDEF for EVVM V1.0 Server-side Requirements ................................................................... 14
1. **Scope**

The scope of this document is limited to the Enabler Release Definition of EVVM v1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.
2. References

2.1 Normative References

[OMA EVVM DDF] “EVVM Managed Object ddf”, Version 2.0, Open Mobile Alliance™, OMA-SUP-MO_EVVM-V1_0, URL: http://www.openmobilealliance.org


2.2 Informative References

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 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

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

- **ERDEF**: Enabler Requirement Definition
- **ERELD**: Enabler Release Definition
- **EVVM**: Enhanced Visual Voice Mail
- **GSMA**: GSM (Groupe Spéciale Mobile) Association
- **MCF**: Mandatory Client Features
- **MMS**: Multimedia Messaging Service
- **MSF**: Mandatory Server Features
- **OMA**: Open Mobile Alliance
- **OMNA**: Open Mobile Naming Authority
- **OMTP**: Open Mobile Terminal Platform
- **SMS**: Short Message Service
- **VM**: Voice Mail
- **VVM**: Visual Voice Mail
4. Release Version Overview

This document defines the components that constitute the Enhanced Visual Voice Mail (EVVM) Version 1.0 Enabler.

An EVVM user is capable of managing and handling his/her voicemails by exploiting the following enhanced functionalities compared to GSMA/OMTP VVM V1.3:

An EVVM user is able to create an EVVM voicemail locally at his/her EVVM client and send it to the recipient’s voicemail box via the interactions between the EVVM client and EVVM server. The EVVM client SHALL include the EVVM user identifier of the recipient when sending a voicemail. If the recipient is located in a remote EVVM environment, this voicemail will be sent first to the home EVVM server, then routed to the remote EVVM server and finally deposited to the recipient’s voicemail box.

An EVVM user is able to access EVVM-based services with multiple devices (e.g., a fixed/mobile phone, a desktop/laptop computer, a PDA). Multiple identifiers of various types (e.g., phone number, email address, SIP URI) can be associated with his/her EVVM VM box. He/she must be authenticated once for EVVM-based services with any one of the identifiers associated with his/her VM box. After a successful authentication, he/she can manage any VM boxes authorized to him/her and he/she can choose to identify himself/herself as the sender with any of the associated identifiers to send/forward voicemails... Other users can send voicemails using any of the identifiers.

An EVVM voicemail can contain several discrete media items (e.g., audio clips, text, images, video clips). An EVVM user SHALL be able to add a background audio item and send it together with his/her voicemail. The recipient’s EVVM client SHALL be able to play simultaneously a voicemail and its associated background media, if present, at the recipient’s EVVM client.

An EVVM user is able to request a voicemail to be delivered at a future time. The EVVM client SHALL be able to include a delivery time in the voicemail. The EVVM server SHALL deliver the voicemail at the designated delivery time, if present.

Upon request of an EVVM user, the EVVM client SHALL include in a voicemail a Reply-to Indication containing the EVVM user/client identifier by which the voicemail recipient can reply or call back instead of replying or calling back by the EVVM user identifier that the voicemail was sent from. With the EVVM client identifier, the recipient can reply to or call back a certain device with which the sender expects to be reached.

An EVVM user is able to send a stored EVVM voicemail without having to download it to the device. The EVVM client SHALL be able to include a reference to a stored voicemail in the EVVM voicemail to be sent out.

Upon receiving an EVVM voicemail containing a reference to a stored voicemail, the EVVM server SHALL fetch the voicemail referred to by the reference and replace the reference with the stored voicemail in the received voicemail.

An EVVM user is able to recall his/her voicemail deposited to the recipient’s voicemail box. If the EVVM user requests to recall his/her voicemail, the EVVM client SHALL send a recalling request to the EVVM server. If the voicemail has not been accessed, the EVVM server SHALL abandon all the succeeding processing with respect to this voicemail.

An EVVM user is able to request forwarding VMs via MMS/email as voice, or via SMS/MMS/email as text after voice-to-text conversion (transcription), if needed. A VM can be converted into a SMS/MMS/email message and forwarded to a SMS/MMS/email system by an EVVM forwarding gateway, which is also responsible for converting a returned SMS/MMS/email delivery/read report into an EVVM delivery/read report and forwarding it to the sender of the original VM.

4.1 Version 1.0 Functionality

In addition to the GSMA/OMTP VVM 1.3 features, EVVM provides the following new features/functionality:

- customizable user greetings including conflict resolution
- extension of voice mail to multi-mode access networks (e.g., LTE deployment)
- multi-device supports
- forwarding voice mails
• request future delivery
• storage of sent voice mails
• support for various audio codecs
• text to speech conversion
• user preferences
• referencing voice mail parts
• support confidentiality of sensitive notification content
5. Document Listing for EVVM Enabler V1.0

This section is normative.

<table>
<thead>
<tr>
<th>Doc Ref</th>
<th>Permanent Document Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Requirement Document</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[EVVM_RD]</td>
<td>OMA-RD-EVVM-V1_0-20150915-A</td>
<td>Requirement Document for EVVM Enabler</td>
</tr>
<tr>
<td><strong>Combined Enabler Release</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Technical Specifications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[EVVM_MO_TS]</td>
<td>OMA-TS-EVVM_MO-V1_0-20150915-A</td>
<td>Specification that describes the EVVM Managed Object</td>
</tr>
<tr>
<td>[EVVM_XDMS_TS]</td>
<td>OMA-TS-EVVM_XDM-V1_0-20150915-A</td>
<td>Specification that describes the EVVM XDM Application Usage</td>
</tr>
<tr>
<td><strong>Supporting Files</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[EVVM_MO]</td>
<td>OMA-SUP-MO_EVVM-V1_0-20150915-A</td>
<td>Device Description File for EVVM MO. It is aligned with the [OMA EVVM MO] spec.</td>
</tr>
<tr>
<td>Working file in Managed Object directory: file: evvm-mo-v1_0.ddf</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path: <a href="http://www.openmobilealliance.org/tech/omna/evvm_mo">http://www.openmobilealliance.org/tech/omna/evvm_mo</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[XSD_CP]</td>
<td>OMA-SUP-XSD_EVVM_CP-V1_0-20150915-A</td>
<td>XML schema definitions for EVVM Client Preferences</td>
</tr>
<tr>
<td>Working file in schema directory: file: evvm-cp-v1_0.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[XSD_GSP]</td>
<td>OMA-SUP-XSD_EVVM_GSP-V1_0-20150915-A</td>
<td>XML schema definitions for EVVM Global Service Preferences</td>
</tr>
<tr>
<td>Working file in schema directory: file: evvm-gsp-v1_0.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[XSD_SSP]</td>
<td>OMA-SUP-XSD_EVVM_SSP-V1_0-20150915-A</td>
<td>XML schema definitions for EVVM Subscription-specific Service Preferences</td>
</tr>
<tr>
<td>Working file in schema directory: file: evvm-ssp-v1_0.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[XSD_UP]</td>
<td>OMA-SUP-XSD_EVVM_UP-V1_0-20150915-A</td>
<td>XML schema definitions for EVVM User Preferences</td>
</tr>
<tr>
<td>Working file in schema directory: file: evvm-up-v1_0.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[XSD_DEAC]</td>
<td>OMA-SUP-XSD_EVVM_DEAC-V1_0-20150915-A</td>
<td>XML schema definitions for EVVM Deactivation Notification</td>
</tr>
<tr>
<td>Working file in schema directory: file: evvm-deac-v1_0.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[XSD_PREF]</td>
<td>OMA-SUP-XSD_EVVM_PREF-V1_0-20150915-A</td>
<td>XML schema definitions for EVVM Preferences Notification</td>
</tr>
<tr>
<td>Working file in schema directory: file: evvm-pref-v1_0.xsd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| [XSD_SYNC] | OMA-SUP-XSD_EVVM_SYNC-V1_0-20150915-A | XML schema definitions for EVVM Synchronization Notification  
Working file in schema directory:  
file: evvm-sync-v1_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles |
|---|---|---|
| [XSD_TRAN] | OMA-SUP-XSD_EVVM_TRAN-V1_0-20150915-A | XML schema definitions for EVVM Transcription Notification  
Working file in schema directory:  
file: evvm-tran-v1_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles |

Table 1: Listing of Documents in EVVM V1.0 Enabler
## 6. OMNA Considerations

The OMNA portal needs to add and maintain the following MO into OMNA Device Management (DM) Management Object (MO) Registry:

<table>
<thead>
<tr>
<th>MO Identifier</th>
<th>Description</th>
<th>Owner</th>
<th>Version</th>
<th>MO DDF</th>
<th>MO Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>urn:oma:mo:oma-evvm:1.0</td>
<td>DDF Document for EVVM Managed Object</td>
<td>OMA</td>
<td>V1.0</td>
<td>evvm-mo-v1_0.ddf</td>
<td>OMA-TS-EVVM_MO-V1_0</td>
</tr>
</tbody>
</table>
7. Conformance Requirements Notation Details

N/A
8. ERDEF for EVVM V1.0 - Client Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERDEF-EVVM-C-001-M</td>
<td>IMAP Protocols, EVVM specific XCAP application usages, SMS, OMA PUSH</td>
<td>[EVVM_ER]:MCF and [EVVM_XDMS_TS] MCF</td>
</tr>
</tbody>
</table>

Table 2: ERDEF for EVVM V1.0 Client-side Requirements
9. ERDEF for EVVM V1.0 - Server Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERDEF-EVVM-S-001-M</td>
<td>IMAP Protocols, EVVM specific XCAP application usages, SMS, OMA PUSH</td>
<td>[EVVM_ER]: MSF [EVVM_XDMS_TS]: MSF</td>
</tr>
</tbody>
</table>

Table 3: ERDEF for EVVM V1.0 Server-side Requirements
Appendix A. Change History

A.1 Approved Version History

<table>
<thead>
<tr>
<th>Reference</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERELD-EVVM-V1_0-20150915-A</td>
<td>15 Sep 2015</td>
<td>Status changed to Approved by TP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TP Ref # OMA-TP-2015-0145-INP_EVVM_V1_0_ERP_for_final_Approval</td>
</tr>
</tbody>
</table>