



Enabler Release Definition for Mobile Augmented Reality Enabler (MobAR)

Candidate Version 1.0 – 16 Oct 2012

Open Mobile Alliance
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1. Scope

The scope of this document is limited to the Enabler Release Definition of Mobile Augmented Reality (MobAR) 1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [MobAR-ER] “Mobile Augmented Reality Enabler”, Open Mobile Alliance™, OMA-ER-MobAR-V1_0, [URL:http://www.openmobilealliance.org](http://www.openmobilealliance.org)/URL: http:// www.openmobilealliance.org /
- [MobAR-TS] “Mobile Augmented Reality Technical Specification”, Open Mobile Alliance™, OMA-TS-MobAR-V1_0, [URL:http://www.openmobilealliance.org](http://www.openmobilealliance.org)/URL: 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)
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.9, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_9, [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”, "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 [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.
AR Content	Any kind of multimedia object which can be used to augment/enhance the user’s sensory perception of the world such as: picture, video, text, 3D models, audio. Typically the AR Content relates to an AR Target
AR Target	Any entity of the real world such as POI, product, person, vehicle, etc. that can have associated AR Content.
MobAR Client	The MobAR Client is the device side functional component of the MobAR Enabler
MobAR Server	The MobAR Server is the network side functional component of the MobAR Enabler

3.3 Abbreviations

API	Application Programming Interface
AR	Augmented Reality
ER	Enabler Release
ERDEF	Enabler Requirement Definition
ERELED	Enabler Release Definition
MobAR	Mobile Augmented Reality
OMA	Open Mobile Alliance
OMNA	Open Mobile Naming Authority
SCR	Static Conformance Requirements
URN	Uniform Resource Name

4. Release Version Overview

The MobAR Enabler provides an overall framework (mechanisms, functionalities, ...) to enable mobile AR services.

4.1 Version 1.0 Functionality

The version 1.0 of the MobAR Enabler defines an overall framework that enables mobile Augmented Reality services.

The core functionalities exposed by the MobAR Enabler include:

- AR Content and its management
- User interactivity and metrics
- MobAR Enabler components functionalities
- Security and privacy aspects

5. Document Listing for MobAR 1.0

This section is normative.

Doc Ref	Permanent Document Reference	Description
Enabler Release		
[MobAR-ER]	OMA-ER-MobAR- V1_0-20121016-C	Requirements and architecture of the MobAR enabler.
[MobAR-TS]	OMA-TS-MobAR- V1_0-20121016-C	Technical specification of the MobAR enabler.
Supporting Files		
[MobAR-XSD]	OMA-SUP-XSD_MobAR-V1_0-20121016-C	XML schema of the structure and data types for the MobAR enabler.

Table 1: Listing of Documents in MobAR 1.0 Enabler

6. OMNA Considerations

MobAR 1.0 includes the following OMNA items:

1. Push-Application ID
 - a. x-oma-application:mobar.ua (*new in MobAR 1.0*)
2. XML Schema Namespace
 - a. urn:oma:xml:mobar:1.0 (*new in MobAR 1.0*)

7. 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.

8. ERDEF for MobAR 1.0 – Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-MobAR-C-001-M	MobAR Client	

Table 2: ERDEF for MobAR 1.0 Client-side Requirements

9. ERDEF for MobAR 1.0 – Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-MobAR-S-001-M	MobAR Server	

Table 3: ERDEF for MobAR 1.0 Server-side Requirements

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	Sections	Description
Draft Versions OMA-MobAR-V1_0	16 Apr 2012	All	Initial document to address the basic starting point as per INP#: OMA-CD-MobAR-2012-0018R01-INP_ERELD_Baseline
	30 Jul 2012	Section 5	Updated the documents listing.
	19 Sep 2012	All	Incorporates the agreed CR: OMA-CD-MobAR-2012-0061- CR_Resolution_of_CONRR_comments_D001_D002
	03 Oct 2012	Sections 2.1 and 5	Sorted normative references in alphabetical order Updated the documents listing before closure of Consistency Review
Candidate Version OMA-ETR-MobAR-V1_0	16 Oct 2012	All	Status changed to Candidate by TP: OMA-TP-2012-0373- INP_MobAR_V1.0_ERP_and_ETR_for_Candidate_approval