



# **Enabler Release Definition for Software Component Management Object**

Approved Version 1.0 – 06 Dec 2011

---

**Open Mobile Alliance**  
OMA-ERELED-SCOMO-V1\_0-20111206-A

Use of this document is subject to all of the terms and conditions of the Use Agreement located at <http://www.openmobilealliance.org/UseAgreement.html>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile Alliance™ specification, and is subject to revision or removal without notice.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. Information contained in this document may be used, at your sole risk, for any purposes. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance. The Open Mobile Alliance authorizes you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services. The Open Mobile Alliance assumes no responsibility for errors or omissions in this document.

Each Open Mobile Alliance member has agreed to use reasonable endeavors to inform the Open Mobile Alliance in a timely manner of Essential IPR as it becomes aware that the Essential IPR is related to the prepared or published specification. However, the members do not have an obligation to conduct IPR searches. The declared Essential IPR is publicly available to members and non-members of the Open Mobile Alliance and may be found on the “OMA IPR Declarations” list at <http://www.openmobilealliance.org/ipr.html>. The Open Mobile Alliance has not conducted an independent IPR review of this document and the information contained herein, and makes no representations or warranties regarding third party IPR, including without limitation patents, copyrights or trade secret rights. This document may contain inventions for which you must obtain licenses from third parties before making, using or selling the inventions. Defined terms above are set forth in the schedule to the Open Mobile Alliance Application Form.

NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE “OMA IPR DECLARATIONS” LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.

THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

© 2011 Open Mobile Alliance Ltd. All Rights Reserved.

Used with the permission of the Open Mobile Alliance Ltd. under the terms set forth above.

# 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 SCOMO.....8
- 6. OMNA CONSIDERATIONS .....9
- 7. CONFORMANCE REQUIREMENTS NOTATION DETAILS .....10
- 8. ERDEF FOR SCOMO – CLIENT REQUIREMENTS.....11
- 9. ERDEF FOR SCOMO – SERVER REQUIREMENTS.....12
- APPENDIX A. CHANGE HISTORY (INFORMATIVE).....13
  - A.1 APPROVED VERSION HISTORY .....13

# Tables

- Table 1: Listing of Documents in SCOMO Enabler .....8
- Table 2: ERDEF for SCOMO Client-side Requirements.....11
- Table 3: ERDEF for SCOMO Server-side Requirements.....12

# 1. Scope

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

## 2. References

### 2.1 Normative References

- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997,  
URL: <http://www.ietf.org/rfc/rfc2119.txt>
- [SCOMO-AD] “SCOMO Architecture”, Open Mobile Alliance™, OMA-AD-SCOMO-V1\_0,  
URL: <http://www.openmobilealliance.org/>
- [SCOMO-DDF] “SCOMO DDF”, Open Mobile Alliance™, OMA-SUP-MO\_SCOMO-V1\_0,  
URL: <http://www.openmobilealliance.org/>
- [SCOMO-RD] “SCOMO Requirements”, Open Mobile Alliance™, OMA-RD-SCOMO-V1\_0,  
URL: <http://www.openmobilealliance.org/>
- [SCOMO-TS] “SCOMO Technical Specification”, Open Mobile Alliance™, OMA-TS-SCOMO-V1\_0,  
URL: <http://www.openmobilealliance.org/>
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR\_Rules\_and\_Procedures,  
URL: <http://www.openmobilealliance.org/>

### 2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.8, Open Mobile Alliance™,  
OMA-ORG-Dictionary-V2\_8,  
URL: <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 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

<b>Enabler Release</b>	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.
<b>Minimum Functionality Description</b>	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.
<b>Software Component</b>	A software component is a resource utilized by the mobile Device software platform

### 3.3 Abbreviations

<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELD</b>	Enabler Release Definition
<b>OMA</b>	Open Mobile Alliance
<b>SCOMO</b>	Software Component Management Object

## 4. Release Version Overview

The Software Component Management Object enables remote Software Component management within Device. This can be used for example to update antivirus software or browser plug-in etc.

Management operations defined for the purpose of Software Component management on the Device support delivery, download, installation, update, removal, activation & de-activation. In addition, retrieval of inventory of Software Components on the Device is also supported.

### 4.1 Version 1.0 Functionality

The Software Component Management Object (SCOMO) V1.0 Enabler [SCOMO-TS] supports the following functionality.

- Support for delivery of Software Components to a device
- Support for installation of Software Components on a device
- Support for update of Software Components on a device
- Support for removal of Software Components from a device
- Support for activation of Software Components on a device
- Support for deactivation of Software Components on a device
- Support for inventory query of Software Components on the device

## 5. Document Listing for SCOMO

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[SCOMO_RD]	OMA-RD-SCOMO-V1_0-20111206-A	Requirement Document for SCOMO Enabler
<b>Architecture Document</b>		
[SCOMO_AD]	OMA-AD-SCOMO-V1_0-20111206-A	Architecture Document for SCOMO Enabler
<b>Technical Specifications</b>		
[SCOMO_TS]	OMA-TS-SCOMO-V1_0-20111206-A	Technical Specification for SCOMO Enabler
<b>Supporting Files</b>		
[SCOMO_DDF]	OMA-SUP-MO_SCOMO-V1_0-20111206-A	DDF Document for SCOMO Enabler Working file in DM_Managed Object directory: file: oma-sup-mo_scomo-v1.0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>

**Table 1: Listing of Documents in SCOMO Enabler**



## 6. OMNA Considerations

The OMNA portal needs to add and maintain the following MO into its MO registry:

MO Identifier	Description	Owner	Version	MO DDF	MO Spec
urn:oma:mo:oma-scomomo:1.0	Software Component MO	DM WG	1.0	OMA-SUP-MO_SCOMO-V1_0-20111206-A	OMA-TS-SCOMO-V1_0-20111206-A

The OMNA portal needs to add and maintain the following alert type into Alert Type registry:

Alert Type Identifier	Alert Type Description	Owner	Version	Spec	MO Identifier (Optional)
urn:oma:at:oma-scomomo:operation:1.0	Used to claim that the alert message conveys the result of SCOMO operation	DM WG	1.0	OMA-TS-SCOMO-V1_0-20111206-A	urn:oma:mo:oma-scomomo: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 SCOMO – Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-SCOMO-C-001-<<M/O>>	SCOMO Client	

Table 2: ERDEF for SCOMO Client-side Requirements

## 9. ERDEF for SCOMO – Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-SCOMO-S-001-<<M/O>>	SCOMO Server	

Table 3: ERDEF for SCOMO Server-side Requirements

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-ERELED-SCOMO-V1_0-20111206-A	06 Dec 2012	Document approved by TP Ref TP Doc# OMA-TP-2011-0430-INP_SCOMO_V1_0_ERP_for_final_Approval