



Enabler Release Definition for OMA Web Services Enabler (OWSER)

Candidate Version 1.1 – 20 Dec 2005

Open Mobile Alliance
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1. Scope

The scope of this document is limited to the Enabler Release Definition of the OMA Web Services Enabler (OWSER) V1.1 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.1, Open Mobile Alliance™, OMA-IOP-Process-V1_1, [URL:http://www.openmobilealliance.org/](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)
- [OWSER SPEC] “OMA Web Services Enabler (OWSER): Core Specifications, Version 1.1”, Open Mobile Alliance™, OMA-TS-OWSER-Core-Specification-V1_1, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [MWS REQ] “Mobile Web Services Requirements, Version 1.1”, Open Mobile Alliance™, OMA-RD-OWSER-V1_1, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OWSER Overview] “OMA Web Services Enabler (OWSER): Overview, Version 1.1”, Open Mobile Alliance™, OMA-AD-OWSER-Overview-V1_1, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OWSER BP WSDL] “OMA Web Services Enabler (OWSER) Best Practices: WSDL Style Guide, Version 1.1”, Open Mobile Alliance™, OMA-TS-OWSER-Best_Practice-WSDL_Style_Guide-V1_1, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

2.2 Informative References

- [WS-I BP] “Basic Profile Version 1.0”, Web Services Interoperability Organization, Final Material, 2004/04/16, [URL: http://www.ws-i.org/Profiles/BasicProfile-1.0-2004-04-16.html](http://www.ws-i.org/Profiles/BasicProfile-1.0-2004-04-16.html)
- [OWSER NI] “Enabler Release Definition for OMA Web Services Network Identity Enabler (OWSER NI), Version 1.0” Open Mobile Alliance™, [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” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in section 8 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [IOPPROC].

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
OMA	Open Mobile Alliance
HTTP	Hyper Text Transfer Protocol
OWSER	OMA Web Services Enabler
SOAP	Simple Object Access Protocol (no longer an acronym starting with SOAP version 1.2)
UDDI	Universal Description, Discovery and Integration
WSDL	Web Services Definition Language

4. Introduction

This document outlines the Enabler Release Definition for the OMA Web Services Enabler (OWSER). V 1.1

The OWSER V1.0 release included a Network Identity specification. Subsequent to the OWSER 1.0 release, a decision was made to provide Network Identity functions as a separate, independent enabler [OWSER NI]. The only changes between OWSER V1.0 and OWSER V1.1 are those needed to remove references to Network Identity from OWSER. None of the core functionality in OWSER Core Specification has been changed and all of functionality contained in the OWSER 1.0 Network Identity specification has been incorporated OWSER NI V1.0.

The OWSER Version 1.1 consists of the following specification:

- The OMA Web Services Enabler (OWSER): Core Specifications [[OWSER SPEC](#)] provides the basic Web Service infrastructure that is needed to offer and consume Web Services in an OMA environment.

The OMA Web Services Core Specifications is augmented by two informative documents that provide additional information to readers of the specifications:

- The OMA Web Services Enabler (OWSER): Overview [[OWSER Overview](#)] is informative and provides an overview of the OWSER and the Web Service architecture and technologies that will be used to publish, discover and use Web Services in a secure manner. It is intended to complement the normative text found in the companion OWSER specifications.
- The OMA Web Services Enabler (OWSER) Best Practices: WSDL Style Guide [[OWSER BP WSDL](#)] provides provides informative guidelines on the use of WSDL that may be used by OMA-defined Web Services.

It is the purpose of the OWSER to provide any OMA enabler that defines a Web Service with an infrastructure to which it MUST conform as described in [OWSER SPEC].

It is important to note that there are no implications that other OMA enablers are required to provide their functionality via Web Service interfaces. However, for those enablers that choose to do so, the corresponding OWSER specifications provide normative guidance. Without such normative guidance, designers of Web Services within OMA would almost certainly try to solve these problems on their own, each in their own way. Without such a common Web Services infrastructure, it would inevitably lead to brittle implementations, interoperability problems, and increased time to market.

5. Enabler Release Specification Baseline

The following specifications comprise the OWSER:

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[MWS REQ]	OMA-RD-OWSER-V1_1-20051220-C	Requirement Document for OWSER 1.1 Enabler
Architecture Document		
[OWSER Overview]	OMA-AD-OWSER_Overview-V1_1-20051220-C	Architecture Document for OWSER 1.1 Enabler
Technical Specifications		
[OWSER SPEC]	OMA-TS-OWSER_Core_Specification-V1_1-20051220-C	Core specification for the OWSER 1.1 Enabler.
[OWSER BP WSDL]	OMA-TS-OWSER-Best_Practice_WSDL_Style_Guide-V1_1-20051220-C	Best Practices and Web Services Definition Language Style Guide for the OWSER 1.1 Enabler.

6. Minimum Functionality Description for OMA Web Services Enabler (OWSER)

This section is informative.

6.1 Core Specifications

An OMA Service Enabler offering a Web Service interface to its capabilities must use the SOAP and HTTP protocols as described in [OWSER SPEC] for Web Services messaging.

Optional features include the use of WSDL for describing Web Services, choice of security implementations, and the use of UDDI for publication and discovery of Web Services. If used, implementations of these features must conform to that described in [OWSER SPEC].

Implementers should make themselves familiar with the WS-I Basic Profile [WS-I BP] as this is referenced in the specification as an external specification with which OMA Web Services should be conformant.

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 [IOPPROC].
- Feature/Application:** Entry in this column SHOULD be a short descriptive label to the **Item** in question.
- Status:** Entry in this column MUST accurately reflect the architectural status of the **Item** in question.
- M means the **Item** is mandatory for the class
 - O means the **Item** is optional for the class
 - NA means the **Item** is not applicable for the class
- Requirement:** Expression in the column MUST be a valid TerminalExpression according to [IOPPROC] and it MUST accurately reflect the architectural requirement of the **Item** in question.

8. ERDEF for OWSER - Client Requirements

This section is normative.

Item	Feature / Application	Status	Requirement
OMA-ERDEF-OWSER-000	OMA Web Services Enabler Release	M	OMA-ERDEF-OWSER-001
OMA-ERDEF-OWSER-001	Core specifications	M	OMA-ERDEF-WSR-001 AND OMA-ERDEF-WS-001 AND OMA-ERDEF-WSI-001

Table 1 ERDEF for OMA Web Services Enabler

Note that the entries in the requirements cells make references to Item entries in sections 8.1 and 8.2.

This table captures the fact that the entire *raison d'être* for OWSER is providing a core Web Services infrastructure for those enablers that may need it.

8.1 Core Specifications

An OMA enabler that defines a Web Service MUST use the infrastructure as described in [OWSER SPEC].

In the Requirements column in the tables below, the following terms are used:

- MAF: mandatory features for all roles
- MWSRF: mandatory features for the WSR role
- MWSF: mandatory features for the WS role
- MIF: mandatory features for the WS Intermediary role

8.1.1 Web Service Requester requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-WSR-001	Web Services transport and messaging	M	CORE:MAF AND CORE:MWSRF

Table 2 ERDEF for OMA Web Services Core Specifications Requester Requirements

8.1.2 Web Service requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-WS-001	Web Services transport and messaging	M	CORE:MAF AND CORE:MWSF

Table 3 ERDEF for OMA Web Services Core Specifications Web Service Requirements

8.1.3 Web Services Intermediary requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-WSI-001	Web Services transport and messaging	M	CORE:MAF AND CORE:MIF

Table 4 ERDEF for OMA Web Services Core Specifications Intermediary Requirements

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
OMA-ERELED-OWSER-V1_0	15 Jul 2004	Initial document to address the basic starting point Ref TP Doc# OMA-TP-2004-0238-OWSER-V1_0-for-final-approval

A.2 Draft/Candidate Version 1.1 History

Document Identifier	Date	Sections	Description
OMA-ERELED-OWSER-V1_1	24 Aug. 05	All	Deleted all references to Network Identity
OMA-ERELED-OWSER-V1_1-20051202	2 Dec 05	5 2.2	Update baseline spec versions to 1.1 Update RD reference
OMA-ERELED-OWSER-V1_1-20051205	5 Dec 05	5	Corected baseline doc dates.
Candidate Version OMA-ERELED-OWSER-V1_1	20 Dec 2005	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2005-0394-OWSER-V1_1-for-Candidate-approval