



Enabler Release Definition for OMA Web Services Enabler (OWSER)

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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) 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/>
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”. S. Bradner. March 1997. URL:<http://www.ietf.org/rfc/rfc2119.txt>
- [OWSER SPEC] “OMA Web Services Enabler (OWSER): Core Specifications, Version 1.0”, Open Mobile Alliance™, OMA-OWSER-Core-Specification-V1_0, URL:<http://www.openmobilealliance.org/>
- [OWSER NI] “OMA Web Services Enabler (OWSER): Network Identity Specifications, Version 1.0”, Open Mobile Alliance™, OMA-OWSER-Network_Identity-Specification-V1_0, URL:<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>
- [LAP] “Liberty Alliance Version 1.1 Specification Suite”, January 2003, available at http://www.projectliberty.org/specs/archive/v1_1/liberty-specifications-v1.1.zip
- [OWSER Overview] “OMA Web Services Enabler (OWSER): Overview, Version 1.0”, Open Mobile Alliance™, OMA-OWSER-Overview-V1_0, URL:<http://www.openmobilealliance.org/>
- [OWSER BP WSDL] “OMA Web Services Enabler (OWSER) Best Practices: WSDL Style Guide, Version 1.0”, Open Mobile Alliance™, OMA-OWSER-Best_Practice-WSDL_Style_Guide-V1_0, URL:<http://www.openmobilealliance.org/>
- [MWS REQ] “Mobile Web Services Requirements, Version 1.0”, Open Mobile Alliance™, OMA-MWS_RD-V1_0, URL:<http://www.openmobilealliance.org/>
- [NI REQ] “MWS Identity Management Requirements, Version 1.0”, Open Mobile Alliance™, OMA-RD_MWS_NI-V1_0, 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” and “Introduction”, 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 [IOPPROC].

3.2 Definitions

Enabler Release –a 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
HTTP	Hyper Text Transfer Protocol
LECP	Liberty Enabled Client/Proxy
OMA	Open Mobile Alliance
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).

The OWSER Version 1.0 consists of two specifications:

- 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 Enabler (OWSER): Network Identity Specifications [[OWSER NI](#)] provides the specifications of the components needed to provide aspects of the Network Identity related capabilities of the OWSER

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 two 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](#)]. An enabler that does not reference the Network ID functionality described in [[OWSER NI](#)] can declare its conformance with the OWSER just by demonstrating conformance with the [[OWSER SPEC](#)]. An enabler that references the Network ID functionality described in [[OWSER NI](#)] MUST conform to that specification.

It is important to note that there are no implications that other OMA enablers are required to provide their functionality via Web Service interfaces or that enablers offer features related to Network Identity. 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:

[Core]	OMA-OWSER-Core-Specification-V1_0
[NI]	OMA-OWSER-Network_Identity-Specification-V1_0
[Ovw]	OMA-OWSER-Overview-V1_0
[WSDL]	OMA-OWSER-Best_Practice-WSDL_Style_Guide-V1_0
[MWS_Req]	OMA-MWS_RD-V1_0
[NI_Req]	OMA-RD_MWS_NI-V1_0

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.

6.2 Network Identity Specifications

An OMA Service Enabler offering Network Identity features defined in [OWSER NI] must support, as appropriate, the roles of a LECP, an Identity Provider, or a Service Provider in offering the following mandatory features:

- Single sign on and federation
- Single sign out
- Federation termination

Optional features include support of a HTTP POST end user agent and Name Registration and Authentication Context interactions between an Identity Provider and a Service Provider. If supported, implementations of these features must conform to that described in [OWSER NI].

When transport and message level security are required in interactions between a LECP, Identity Provider and a Service Provider, the use of the corresponding techniques in [OWSER SPEC] are mandated.

Implementers should make themselves familiar with the Liberty Alliance Identity Federation Version 1.1 specifications [[LAP](#)] as this is referenced in the [OWSER NI] as the external specification with which OMA enablers using Liberty technologies to offer the above-mentioned network identity features 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

Table 1 ERDEF for OMA Web Services Enabler

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
OMA-ERDEF-OWSER-002	Network Identity Specifications	O	OMA-ERDEF-NI-LECP-001 AND OMA-ERDEF-NI-IDP-001 AND OMA-ERDEF-NI-SP-001

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, and that Network Identity features may optionally be implemented.

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

Table 2 ERDEF for OMA Web Services Core Specifications Requester Requirements

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

8.1.2 Web Service requirements

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

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

8.1.3 Web Services Intermediary requirements

Table 4 ERDEF for OMA Web Services Core Specifications Intermediary Requirements

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

8.2 Network Identity Specifications

An enabler that references the Network Identity functionality described in [OWSER NI] MUST conform to that specification. An enabler that does not reference the Network Identity functionality described in [OWSER NI] can declare its conformance with the OWSER just by demonstrating conformance to the [OWSER SPEC].

Expressions in the Requirements column in the tables below reference Items in Appendix A of [OWSER NI].

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

- MIDPF: mandatory features for the Identity Provider role
- MSPF: mandatory features for the Service Provider role
- MLECPF: mandatory features for the LECP role

8.2.1 LECP requirements

Table 5 ERDEF for OWSER Network Identity LECP Requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-NI-LECP-001	Single sign-on & Federation	M	NI: MLECPF

8.2.2 Identity Provider requirements

Table 6 ERDEF for OWSER Network Identity Specifications Identity Provider Requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-NI-IDP-001	Single sign-on, Federation, Single signout, Federation termination and Authentication Context	M	NI:MIDPF

8.2.3 Service Provider requirements

Table 7 ERDEF for OWSER Network Identity Specifications Service Provider Requirements

Item	Feature / Application	Status	Requirement
OMA-ERDEF-NI-SP-001	Single sign-on, Federation, Single signout, Federation termination and Authentication Context	M	NI:MSPF

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 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELED-OWSER-V1_0	11 Dec 2003	n/a	Initial document draft created.
	16 Dec 2003	4, 8	Added text and additional table
	17 Dec 2003	4, 8	Revised added text and added text preceding tables in section 8.1/8.2
	3 Feb 2004	5, 8	Updated based on Consistency Review comments
	10 Feb 2004	2, 8	Updated references and Table 1 based on further email comments
	11 Feb 2004	Tables 6,7	Added Authentication Context to the description
	13 Feb 2004	Table 1, Section 5	Restored second row column 3 to "M", and added all the other OWSER documents per K. Holley comments
Candidate Versions OMA-ERELED-OWSER-V1_0	16 Mar 2004	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2004-0089-OWSER-V1_0-for-Candidate-Approval
	17 May 2004	A.2	Added approved type 2 CRs to <ul style="list-style-type: none"> OMA-MWS-2004-0023R01-CR_OWSER_ETR_Name-Registration-Protocol OMA-MWS-2004-0021-CR_OWSER_ETR_Optionality-of-Authentication-Context, OMA-MWS-2004-0020R01-CR_OWSER_NI_Optionality-of-Authentication-Context OMA-MWS-2004-0022R01-CR_OWSER_NI_Name-Registration-Protocol
	20 June 2004	2.2	Updated WS-I BP reference