



# **Enabler Release Definition for Social Network Web Enabler (SNeW)**

**Candidate Version 1.0 – 13 Aug 2013**

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**Open Mobile Alliance**  
OMA-ERELED-SNeW-V1\_0-20130813-C

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# 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
    - 4.1.1 Informative Overview .....7
- 5. DOCUMENT LISTING FOR SNEW 1.0 .....9
- 6. OMNA CONSIDERATIONS .....10
- 7. CONFORMANCE REQUIREMENTS NOTATION DETAILS .....11
- 8. ERDEF FOR SNEW 1.0 – CLIENT REQUIREMENTS .....12
- 9. ERDEF FOR SNEW 1.0 – SERVER REQUIREMENTS .....13
- APPENDIX A. CHANGE HISTORY (INFORMATIVE) .....14
  - A.1 APPROVED VERSION HISTORY .....14
  - A.2 DRAFT/CANDIDATE VERSION 1.0 HISTORY .....14

# Figures

- Figure 1 Social Network ecosystem .....8

# Tables

- Table 1: Listing of Documents in SNeW 1.0 Enabler .....9
- Table 2: ERDEF for SNeW 1.0 Client-side Requirements .....12
- Table 2: ERDEF for SNeW 1.0 Server-side Requirements .....13

# 1. Scope

The scope of this document is limited to the Enabler Release Definition of Social Network Web (SNeW) 1.0 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](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/)
- [SNeW-ER] “Social Network Web Enabler”, Open Mobile Alliance™, OMA-ER-SNeW-V1\_0, URL: <http://www.openmobilealliance.org/>
- [SNeW-ETR] “Enabler Test Requirements for Social Network Web Enabler”, Open Mobile Alliance™, OMA-ETR-SNeW-V1\_0, URL: <http://www.openmobilealliance.org/>

### 2.2 Informative References

- [MobSocNet-WP] “White Paper on Mobile Social Network Work Item Investigation”, Open Mobile Alliance™, OMA-WP-Mobile\_Social\_Network-20110516-A, URL: <http://www.openmobilealliance.org/>
- [OMADICT] “Dictionary for OMA Specifications”, Version 2.9, Open Mobile Alliance™, OMA-ORG-Dictionary-V2\_9, 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 **Error! Reference source not found.** 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>External Social Network</b>	A social network that is not-OMA Compliant and made available through either proprietary or non-proprietary mechanism and/or interfaces
<b>Federated Social Networks</b>	This is defined by a set of social networks that share some level of trust or set of rules, data formats and protocols, while, each social network retains its own administrative control and structure. The trust or set of rules binding the social networks govern the information that can be shared/searched/exchanged among users who are part of the respective social network.
<b>Inbound/Outbound interactions</b>	Inbound interactions relate to the concept of Aggregation of activities and media from External Social Networks, making thus possible to allow users that own accounts on multiple External SNs to access aggregated information about their friends (e.g. contact information, activities) on these networks. Outbound interactions, on the opposite, relate to the ability of Cross-posting activities and/or media to multiple External SNs. In this way, users could potentially share their activities over all their External SNs at once.
<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>OMA Compliant Social Network</b>	This is defined as a social network that conforms to the SNeW Enabler, essentially to ensure seamless interoperability and satisfaction of various actors in a social network. OMA Compliant Social Networks are natively Federated Social Networks.
<b>Uniform Resource Name</b>	Use definition from [OMADICT].

### 3.3 Abbreviations

<b>API</b>	Application Programming Interface
<b>ER</b>	Enabler Release
<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELED</b>	Enabler Release Definition
<b>OMA</b>	Open Mobile Alliance
<b>OMNA</b>	Open Mobile Naming Authority
<b>SCR</b>	Static Conformance Requirements
<b>SN</b>	Social Network
<b>SNEW</b>	Social Network Web
<b>URN</b>	Uniform Resource Name
<b>WP</b>	White Paper

## 4. Release Version Overview

This enabler release defines:

- the reference architecture to allow interoperability between clients and servers and server-to-server federation of OMA Compliant SNs, supporting at least features such as:
  - profile discovery;
  - publication and sharing of contents, activities and reactions;
- the interface between an SNeW Client entity and an SNeW Server entity (intra-domain or UNI) that supports the above identified features;
- the interface between SNeW Server entities (inter-domain or NNI) that supports the above identified features;
- a set of Device APIs and Network APIs, to easily integrate OMA Compliant SN with external applications, as well as an appropriate privacy framework to control access to information through these APIs;
- a set of guidelines to reuse existing OMA enablers for providing additional features (e.g. profile search using OMA MSF);

### 4.1 Version 1.0 Functionality

Version 1.0 of the SNeW Enabler covers:

- the interoperability between clients and servers and server-to-server federation of OMA Compliant SNs, supporting the following features:
  - Profile discovery;
  - Publication and sharing of contents, activities and reactions;
  - Retrieving activities / reactions (both request/response and push);
  - User account management (e.g. user profile management, linking a External Social Network account);
  - User authentication and authorization for the requested interactions
- a set of Network APIs, to easily integrate OMA Compliant SN with external applications, as well as an appropriate privacy framework to control access to information through these APIs

Version 1.0 of the SNeW Enabler relates to existing technologies from the Social Web environment in that:

- it is wire-compatible with OStatus-related specifications, in particular for server-to-server interactions (federation);
- it references OpenSocial Social API Server specifications, in particular for client-server interactions.

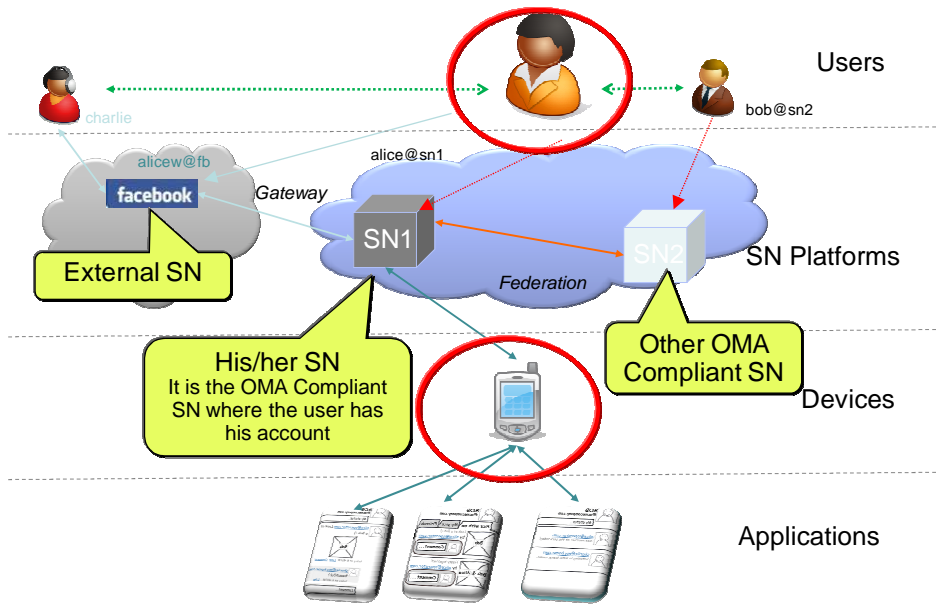
In addition, this enabler leverages the OMA Push enabler to support notifications to SNeW Client entities (e.g. for activities & reactions delivery, etc).

#### 4.1.1 Informative Overview

The SNeW Enabler aims at allowing large-scale deployments and interoperability of SNeW Clients and SNeW Servers in a timely manner, further guaranteeing social network federation so that users can easily communicate with users on other SNs and migrate their data. In particular, this enabler identifies a coherent subset of functionalities specific to SNeW representing a core specification.

The **Error! Reference source not found.** shows the overall ecosystem related to Social Network Web Enabler. In particular, the user (within the red circle) owns an account on a specific OMA Compliant SN ("his/her SN"), and interacts with users

belonging either to his/her SN, or to another OMA Compliant SN, or to an External SN through the gateway functionality. Users access SNeW functionalities through multiple devices, each of them capable of running multiple applications.



**Figure 1 Social Network ecosystem**

This Enabler is derived from the outcome of the Whitepaper on “Mobile Social Network Work Item Investigation” [MobSocNet-WP].



## 5. Document Listing for SNeW 1.0

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Enabler Release</b>		
[SNeW-ER]	OMA-ER-SNeW-V1_0-20130813-C	Requirements, architecture and technical specification of the SNeW enabler.

**Table 1: Listing of Documents in SNeW 1.0 Enabler**

## 6. OMNA Considerations

SNeW 1.0 includes the following OMNA items:

1. Push-Application ID
  - a. x-oma-application:snew.ua (*new in SNeW 1.0*)
2. Push Resource Identifier
  - a. snew.ua (*new in SNeW 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 SNeW 1.0 – Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-SNeW-C-001-M	SNEW Client	[SNeW-ER]:MCF
OMA-ERDEF-SNeW-C-002-O	Client gateway functionality	[SNeW-ER]-GW-C-MCF
OMA-ERDEF-SNeW-C-003-O	Subscription-mode functionality	[SNeW-ER]-SUB-C-MCF

**Table 2: ERDEF for SNeW 1.0 Client-side Requirements**

## 9. ERDEF for SNeW 1.0 – Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-SNeW-S-001-M	SNEW Server	[SNeW-ER]:MSF
OMA-ERDEF-SNeW-S-002-O	Server gateway functionality	[SNeW-ER]-GW-S-MSF
OMA-ERDEF-SNeW-S-003-O	Subscription-mode functionality	[SNeW-ER]-SUB-S-MSF
OMA-ERDEF-SNeW-S-004-O	Social data import/export functionality	[SNeW-ER]-IE-S-MSF

**Table 3: ERDEF for SNeW 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-SNeW-V1_0	22 Feb 2012	All	Initial document to address the basic starting point
	09 Mar 2012	Index, 3.3 and 4.1	After 1 <sup>st</sup> revision
	12 Mar 2012	5	Removed the WP after the review during the 12 <sup>th</sup> of March call. Incorporated agreed CR#: OMA-CD-MobSocNet-2012-0023R01-CR_Updates_ERELED_MSN1.0.
	28 Jun 2012	All	Global review to align with latest ER Renamed MobSocNet to SNeW as per agreed CR#: OMA-CD-MobSocNet-2012-0069R01-CR_ERELED_update
	31 Jul 2013	5	Removed the ETR from the listing.
	06 Aug 2013	5	Updated the ER version due to incorporation of agreed CR#: OMA-CD-MobSocNet-2013-0049-CR_clerical_reference_updates
Candidate Version: OMA-ERELED-SNeW-V1_0	13 Aug 2013	All	Status changed to Candidate by TP TP ref # OMA-TP-2013-0227R01- INP_SNeW_V1_0_ERP_for_Candidate_approval