

Enabler Release Definition for Secure User Plane Location (SUPL) Candidate Version 3.0 – 26 Jan 2010

Open Mobile Alliance OMA-ERELD-SUPL-V3_0-20100126-C Use of this document is subject to all of the terms and conditions of the Use Agreement located at <u>http://www.openmobilealliance.org/UseAgreement.html</u>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile AllianceTM 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.

© 2010 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.	SCO	DPE	.4
2.	REI	FERENCES	
	2.1	NORMATIVE REFERENCES	.5
	2.2	INFORMATIVE REFERENCES	
3.	TEF	RMINOLOGY AND CONVENTIONS	
	3.1	CONVENTIONS	
	3.2	DEFINITIONS	.6
	3.3	ABBREVIATIONS	
4.	REI	LEASE VERSION OVERVIEW	
	4.1	VERSION 1.0 FUNCTIONALITY	.9
	4.2	VERSION 2.0 FUNCTIONALITY	
5.	DO	CUMENT LISTING FOR SUPL 3.01	2
6.		NA CONSIDERATIONS1	
7.	CO	NFORMANCE REQUIREMENTS NOTATION DETAILS1	4
8.	ERI	DEF FOR SUPL 3.0 - CLIENT REQUIREMENTS1	5
9.	ERI	DEF FOR SUPL 3.0 - SERVER REQUIREMENTS1	
AF	PENI	DIX A. CHANGE HISTORY (INFORMATIVE)1	1 7
	A.1	APPROVED VERSION HISTORY	17
	A.2	DRAFT/CANDIDATE VERSION 3.0 HISTORY	.7

Figures

Figure 1:	UserPlane L	ocation Protocol	10
-----------	-------------	------------------	----

Tables

Table 1: Listing of Documents in SUPL 3.0 Enabler	.12
Table 2: ERDEF for SUPL 3.0 Client-side Requirements	.15
Table 3: ERDEF for SUPL 3.0 Server-side Requirements	.16

1. Scope

The scope of this document is limited to the Enabler Release Definition of Secure User Plane Location (SUPL) 3.0 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
[SCRRULES]	"SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, <u>URL:http://www.openmobilealliance.org/</u>
[23.271]	3GPP TS 23.271 Release 6 http://www.3gpp.org/ftp/Specs/latest/Rel-6/23_series/
[IOPPROC]	"OMA Interoperability Policy and Process", Version 1.8, Open Mobile Alliance™, OMA-ORG-IOP- Process-V1_8, <u>URL:http://www.openmobilealliance.org/</u>
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL:http://www.ietf.org/rfc/rfc2119.txt
[RLP 1.0]	"Roaming Location Protocol", Version 1.0, Open Mobile Alliance™, OMA-TS-RLP-V1_0 URL: <u>http://www.openmobilealliance.org/</u>
[SUPL 1.0 AD]	"SUPL Architecture Document", Version 1.0, Open Mobile Alliance™, OMA-AD-SUPL-V1_0 URL: <u>http://www.openmobilealliance.org/</u>
[SUPL1.0 RD]	"SUPL Requirements Document", Version 1.0, Open Mobile Alliance™, OMA-RD-SUPL-V1_0 URL: <u>http://www.openmobilealliance.org/</u>
[SUPL AD]	"SUPL Architecture Document", Version 2.0, Open Mobile Alliance™, OMA-AD-SUPL-V2_0 URL: <u>http://www.openmobilealliance.org/</u>
[SUPL MO]	"OMA Management Object for SUPL", Version 2.0, Open Mobile Alliance™, OMA-TS-SUPL-MO-V2_0 URL: <u>http://www.openmobilealliance.org/</u>
[SUPL RD]	"SUPL Requirements Document", Version 2.0, Open Mobile Alliance™, OMA-RD-SUPL-V2_0 URL: <u>http://www.openmobilealliance.org/</u>
[SUPL TS-ULP]	"UserPlane Location Protocol ", Version 2.0, Open Mobile Alliance™, OMA-TS-ULP-V2_0 URL: <u>http://www.openmobilealliance.org/</u>
[SUPL TS-ILP]	"UserPlane Location Protocol ", Version 2.0, Open Mobile Alliance™, OMA-TS-ILP-V2_0 URL: <u>http://www.openmobilealliance.org/</u>
[DMDDFDTD]	"OMA DM Device Description Framework DTD", Version 1.2 Open Mobile Alliance™. OMA-SUP-dtd_dm_ddf-v1_2. <u>URL:http://www.openmobilealliance.org</u>
[DMAccDDF]	"OMA SUPL Managed Object DDF", Version 2.0 Open Mobile Alliance™. OMA-SUP-MO_SUPL- V2_0. <u>URL:http://www.openmobilealliance.org</u>

2.2 Informative References

[OMADICT]

"Dictionary for OMA Specifications", Version 2.7, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_7, <u>URL:http://www.openmobilealliance.org/</u>

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

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

AD	Architecture Document		
AFLT	Advanced Forward Link Trilateration		
A-GANSS	Assisted Galileo and Additional Navigation Satellite Systems		
A-GNSS	Assisted Global Navigation Satellite System		
A-GPS	Assisted GPS		
API	Application Programming Interface		
EOTD	Enhanced Observed Time Difference		
ERDEF	Enabler Requirement Definition		
ERELD	Enabler Release Definition		
E-SLP	Emergency SLP		
FQDN	Fully Qualified Domain Name		
GNSS	Global Navigation Satellite System		
GPS	Global Positioning System		
ILP	Internal Location Protocol		
HLIA	Historical Location Immediate Request		
HLIR	Historical Location Immediate Answer		
H-SLC	Home SLC		
H-SLP	Home SLP		
H-SPC	Home SPC		
НТТР	Hypertext Transfer Protocol		
HTTPS	HTTP Secure		
IETF	Internet Engineering Task Force		

IMSI	International Mobile Subscriber Identity		
IP	Internet Protocol		
LCS	Location Services		
LTE	Long Term Evolution		
MAC	Message Authentication Code		
MC	Message Center		
MLP	Mobile Location Protocol		
MLS	Mobile Location Services		
MNO	Mobile Network Operator		
MSISDN	Mobile Subscriber ISDN Number		
OMA	Open Mobile Alliance		
OTDOA	Observed Time Difference of Arrival		
PAP	Push Access Protocol		
РС	Personal Computer		
PLMN	Public Land Mobile Network		
РОТАР	WAP Push Over The Air Protocol		
PPG	Push Proxy Gateway		
PSK-TLS	Pre-Shared Key Ciphersuites for Transport Layer Security		
QoP	Quality of Position		
RD	Requirement Document		
RLP	Roaming Location Protocol		
RLP RRC	Radio Resource Control		
	c .		
RRC	Radio Resource Control		
RRC RRLP	Radio Resource Control Radio Resource LCS Protocol		
RRC RRLP R-SLP	Radio Resource Control Radio Resource LCS Protocol Requesting SLP		
RRC RRLP R-SLP SADF	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function		
RRC RRLP R-SLP SADF SCF	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function		
RRC RRLP R-SLP SADF SCF SET	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function SUPL Enabled Terminal		
RRC RRLP R-SLP SADF SCF SET SIF	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function SUPL Enabled Terminal SUPL Initiation Function		
RRC RRLP R-SLP SADF SCF SET SIF SIP	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function SUPL Enabled Terminal SUPL Initiation Function Session Initiation Protocol		
RRC RRLP R-SLP SADF SCF SET SIF SIP SLC	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function SUPL Enabled Terminal SUPL Initiation Function Session Initiation Protocol SUPL Location Center		
RRC RRLP R-SLP SADF SCF SET SIF SIP SLC SLIA	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function SUPL Enabled Terminal SUPL Initiation Function Session Initiation Protocol SUPL Location Center Standard Location Immediate Answer		
RRC RRLP R-SLP SADF SCF SET SIF SIP SLC SLIA SLIR	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function SUPL Enabled Terminal SUPL Initiation Function Session Initiation Protocol SUPL Location Center Standard Location Immediate Answer Standard Location Immediate Request		
RRC RRLP R-SLP SADF SCF SET SIF SIP SLC SLIA SLIR SLIRep	Radio Resource ControlRadio Resource LCS ProtocolRequesting SLPSUPL Assistance Delivery FunctionSUPL Charging FunctionSUPL Enabled TerminalSUPL Initiation FunctionSession Initiation ProtocolSUPL Location CenterStandard Location Immediate AnswerStandard Location Immediate RequestStandard Location Immediate Report		
RRC RRLP R-SLP SADF SCF SET SIF SIP SLC SLIA SLIR SLIRep SLP	Radio Resource ControlRadio Resource LCS ProtocolRequesting SLPSUPL Assistance Delivery FunctionSUPL Charging FunctionSUPL Enabled TerminalSUPL Initiation FunctionSession Initiation ProtocolSUPL Location CenterStandard Location Immediate AnswerStandard Location Immediate RequestStandard Location Immediate ReportSUPL Location Platform		
RRC RRLP R-SLP SADF SCF SET SIF SIP SLC SLIA SLIR SLIR SLIRep SLP SMLC	Radio Resource Control Radio Resource LCS Protocol Requesting SLP SUPL Assistance Delivery Function SUPL Charging Function SUPL Enabled Terminal SUPL Initiation Function Session Initiation Protocol SUPL Location Center Standard Location Immediate Answer Standard Location Immediate Request Standard Location Immediate Report SUPL Location Platform Serving Mobile Location Center		
RRC RRLP R-SLP SADF SCF SET SIF SIF SLC SLIA SLIR SLIRep SLP SMLC SMPP	Radio Resource ControlRadio Resource LCS ProtocolRequesting SLPSUPL Assistance Delivery FunctionSUPL Charging FunctionSUPL Enabled TerminalSUPL Initiation FunctionSession Initiation ProtocolSUPL Location CenterStandard Location Immediate AnswerStandard Location Immediate RequestStandard Location Immediate ReportSUPL Location PlatformServing Mobile Location CenterShort Message Peer to peer ProtocolShort Message ServiceShort Message Service Center		
RRC RRLP R-SLP SADF SCF SET SIF SIP SLC SLIA SLIR SLIR SLIRep SLP SMLC SMPP	Radio Resource ControlRadio Resource LCS ProtocolRequesting SLPSUPL Assistance Delivery FunctionSUPL Charging FunctionSUPL Enabled TerminalSUPL Initiation FunctionSession Initiation ProtocolSUPL Location CenterStandard Location Immediate AnswerStandard Location Immediate RequestStandard Location Immediate ReportSUPL Location PlatformServing Mobile Location CenterShort Message Peer to peer ProtocolShort Message Service		

SPF	SUPL Privacy Function		
SRLIA	Standard Roaming Location Immediate Answer		
SRLIR	Standard Roaming Location Immediate Request		
SRRF	SUPL Reference Retrieval Function		
SRSF	SUPL Roaming Support Function		
SSF	SUPL Security Function		
SSMF	SUPL Service Management Function		
SSPF	SUPL SET Provisioning Function		
SSRLIA	Standard SUPL Roaming Location Immediate Answer		
SSRLIR	Standard SUPL Roaming Location Immediate Request		
SSRP	Standard SUPL Roaming Position		
SUPL	Secure User Plane Location		
TD-SCDMA	Time Division-Synchronous Code Division Multiple Access		
TLS	Transport Layer Security		
UDP	User Datagram Protocol		
UE	User Equipment		
UICC	Universal Integrated Circuit Card		
UMB	Ultra Mobile Broadband		
URL	Uniform Resource Locator		
V-SLC	Visited SLC		
V-SPC	Visited SPC		
V-SLP	Visited SLP		
WAP	Wireless Application Protocol		
WCDMA	Wideband Code Division Multiple Access		

4. Release Version Overview

This document outlines the Enabler Release Definition for SUPL Enabler and the respective conformance requirements for clients and servers implementing claiming compliance to it as defined by Open Mobile Alliance across the specification baseline.

SUPL V2.0 describes the protocol between a SUPL Enabled Terminal (SET) and SUPL Location Platform (SLP) and the protocol between SLC and SPC.

Communication between SET and SLP is transported over a secured IP connection, with one exception: for network initiated SUPL transactions the SUPL INIT message shall be sent as an MT SMS [TIA-637] using a dedicated Teleservice Identifier [TIA-41] for CDMA/HRPD/UMB, for GSM/WCDMA/TD-SCDMA/LTE, the WDP [WAP WDP] framing SHALL be used for MT SMS, and for WLAN/I-WLAN/WiMAX/I-WiMAX [UDP/IP] framing SHALL be used. For GSM/WCDMA/TD-SCDMA/LTE, a SUPL INIT message can also be sent via WAP Push, where the Push message from the PPG to SET shall follow the WAP Push specifications as per [WAP POTAP].

SUPL draws on support from RLP, a protocol specification from the OMA MLS Enabler. RLP is used such that SLP's from different SUPL providers can exchange information for positioning of roaming subscribers.

4.1 Version 1.0 Functionality

SUPL V1.0 supports immediate positioning procedures for GSM, WCDMA/TD-SCDMA and CDMA networks. It supports the terminal based positioning methods defined for GSM, WCDMA/TD-SCDMA and CDMA such as A-GPS, EOTD and Cid. The protocol between SLC and SPC is not defined in SUPL V1.0

SUPL V1.0 supports the following modes of operation for selected deployments:

- Proxy flows for GSM/WCDMA/TD-SCDMA deployments
- Proxy flows for CDMA/CDMA2000 deployments
- Non-proxy flows for CDMA/CDMA2000 deployments

4.2 Version 2.0 Functionality

SUPL 2.0 adds a number of features to SUPL V1.0. The major functional enhancements are:

- Triggered positioning procedures, both periodic and area event.
- Emergency positioning procedures.
- · Support of A-GANSS positioning method and improvements to enhanced cell id positioning method
- Support of I-WLAN, WiMAX, I-WiMAX, HRPD/UMB, LTE networks.
- Positioning procedures for delivery to third party and retrieval of location of another SET.

In addition the protocol between SLC and SPC, i.e. the ILP, is defined.

4.2.1 User Plane Location Protocol (ULP)

The UserPlane Location Protocol (ULP) is a protocol-level instantiation of the Lup reference point. The protocol is used between the SLP (SUPL Location Platform) and a SET (SUPL Enabled Terminal). For more details about SUPL Requirements refer to [SUPL RD]. For more details about SUPL architecture and call-flows, refer to [SUPL AD]

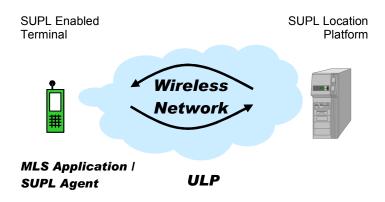


Figure 1: UserPlane Location Protocol

Possible realizations of a SUPL Location Platform functionality are within the GMLC, which is the Location Server defined in GSM and UMTS, and the MPC, which is defined in ANSI standards. Since the SUPL Location Platform should be regarded as a logical entity, other implementations are possible.

Depending which SUPL Agent initiates the dialogue, a SUPL INIT message is sent to the SET (network initiated), or a SUPL START message is sent to the SLP (SET initiated).

ULP can be implemented using various transport mechanisms. Currently, the only mapping defined is a mapping to TCP, with the following exception: the SUPL INIT message is transported over WAP Push or MT SMS.

4.2.2 Internal Location Protocol (ILP)

The function of the Llp reference point is logically separated into the Positioning Control Function and the Positioning Data Function

4.2.3 Roaming Location Protocol (RLP)

RLP is an element of the OMA MLS Enabler, and facilitates the SUPL roaming scenarios. RLP is also known as Inter-Location Server Mobile Location Protocol.

Functional Requirements for both Application to Location Server interface and inter-Location Server interface for 3GPP networks may be found in 23.271 Rel6 [23.271]. However, those parts of RLP which are used by SUPL are specified in a way that they can be used by wireless networks other than 3GPP.

RLP can be implemented using various transport mechanisms. Currently, the only mapping defined is a mapping to HTTP.

4.3 Version 3.0 Functionality

SUPL 3.0 adds a number of features to SUPL V2.0. The major functional enhancements are:

- Improved Location for IP Emergency Calls
- Improved Location performance
- Triggered Location Enhancement
- Improved Indoor Location Accuracy
- SET to SET Location
- Authentication Enhancements
- Privacy Enhancements
- Additional access networks

• Support for Extended Location Information

5. Document Listing for SUPL 3.0

This section is normative.

Doc Ref	Permanent Document Reference	Description			
Requirement Do	Requirement Document				
[SUPL3.0_RD] OMA-RD-SUPL-V3_0-20100108-D Requirement Document for SUPL 3.0 Enabler		Requirement Document for SUPL 3.0 Enabler			
Architecture Do	Architecture Document				
[SUPL3.0_AD] OMA-AD-SUPL-V3_0-20090511-D Architecture Document for SUPL 3.0 Enabler		Architecture Document for SUPL 3.0 Enabler			
Technical Specif	Technical Specifications				
[SUPL 3.0_TS] OMA-TS-SUPL-V3_0-20091012-D Specification that defines the SUPL 3.0 UserPlane Protocol.		Specification that defines the SUPL 3.0 UserPlane Location Protocol.			
Supporting Files					

Table 1: Listing of Documents in SUPL 3.0 Enabler

6. OMNA Considerations

« This section is to be used to describe any OMNA items included in the release. This would include, among others:

- Usage of OMA-based Uniform Resource Names (URNs) (including those used as namespace identifiers in Schemas)
- AppiDs for Application Characteristics (AC)
- Managed Object (MO) information for the MO registry
- ISO Object IDs
- PUSH Application Ids
- WAP Wireless Session Protocol (WSP) Content Types
- Presence <service-description> assignments
- Uniform Resource Identifier (URI)-List Registered Usage Names (for XDM)

The format of this section will be left up to the release owners to account for the particular needs they may run into. It should be clear from the written material, though, as to the set of OMNA items needed.

If a new OMNA registry is needed to support the release – clearly this should have been worked with the REL Committee before submitting a Release Document. Failure to do so may result in delays as the required tables are worked up and made publicly available. Another risk is that the table desired is not supported by OMNA (is not a registry type table) and the group will need to rethink how they intend to resolve their needs.

Through the normal development process the OMNA entries or support registries should be accommodated. This should not be trigger to remove the linkage from this section. Thus, if an entry is added to OMNA after the initial Candidate version described the need - the material should stay in this section. It may be useful in subsequent releases to add some text to indicate that the needed items have been accommodated (e.g. add a comment regarding its availability or support as appropriate).

If the release has absolutely no OMNA items to be accommodated - then it should indicate that explicitly with a short description (e.g. this release does not have any OMNA items for handling). This determination probably can not be made until the end of the development phases and editors are encouraged to keep this advisory in place until the Consistency Review.

DELETE THIS COMMENT >>

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 SUPL 3.0 - Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-< <enabler>>-C-001-<<m o="">></m></enabler>	< <enabler>> Client</enabler>	

 Table 2: ERDEF for SUPL 3.0 Client-side Requirements

9. ERDEF for SUPL 3.0 - Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-< <enabler>>-S-001-<<m o="">></m></enabler>	< <enabler>> Server</enabler>	

Table 3: ERDEF for SUPL 3.0 Server-side Requirements

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
n/a n/a		No prior version -or- No previous version within OMA

A.2 Draft/Candidate Version 3.0 History

Document Identifier	Date	Sections	Description
Draft Versions	03 Nov 2009	n/a	First draft
OMA-ERELD-SUPL-V3_0	11 Nov 2009	2.1, 3.3, 4	CR incorporated:
			OMA-LOC-2009-0300
	16 Nov 2009	5	Updated document list
	15 Dec 2009	4.2, 4.3	Implemented CR:
			OMA-LOC-2009-0319
	08 Jan 2010	All	Editorial Corrections:
			Removal of empty App B
			Updated to 2010 template
			Updated document list
Candidate Versions	26 Jan 2010	n/a	TP approved via R&A ref# OMA-TP-2010-0006-
OMA-ERELD-SUPL-V3_0			INP_SUPL_V3_0_RD_for_Candidate_Approval