Enabler Test Report
Secure User Plane Location (SUPL) v1.0

OMA TestFest (June 2006)
Version 13-Jul-2006

Open Mobile Alliance
OMA-Enabler_Test_Report-SUPL-10-2006-07-13

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1. Scope

This report describes the results from the testing carried out at OMA TestFest15 June 2006 concerning Secure User Plane Location version 1.0.

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2. References

2.1 Normative References

[IOPPROC] "OMA Interoperability Policy and Process", Version 1.3, Open Mobile Alliance™, OMA-ORG-IOP-Process-V1_3, 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

[ENABLERSPEC] OMA-ERP-SUPL-V1_0 URL:http://www.openmobilealliance.org/

[ETR] OMA-LOC-SUPL-ETR-V1_0 URL:http://www.openmobilealliance.org/

[ETG] OMA-ETG-SUPL-V1_0 URL:http://www.openmobilealliance.org/

[EICS] OMA-EICS-Client-SUPL-V1_0 URL:http://www.openmobilealliance.org/ and OMA-EICS-Server-SUPL-V1_0 URL:http://www.openmobilealliance.org/

[ETS] OMA-ETS-SUPL-V1_0-20060420-D URL:http://www.openmobilealliance.org/

[SUPLAD] "Secure User Plane Location Architecture", Open Mobile Alliance™, OMA-AD-SUPL-V1_0 URL:http//www.openmobilealliance.org/

[SUPLTS] "UserPlane Location Protocol", Open Mobile Alliance™, OMA-TS-ULP-V1_0 URL:http//www.openmobilealliance.org/

2.2 Informative References

[OMADICT] Dictionary for OMA Specification, OMA-Dictionary http://www.openmobilealliance.org/

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3. Terminology and Conventions

3.1 Conventions

This is an informative document, i.e. the document does not intend to contain normative statements.

3.2 Definitions

MLS application	An application which requests and consumes the location information
Network Initiated SUPL Services	Network Initiated SUPL Services are services which originate from within the SUPL network as opposed to the SET. For these services, the SUPL Agent resides in the Network.
Proxy Mode	The SPC system will not have direct communication with the SET. In this environment the SLC system will act as a proxy between the SET and the SPC.
Non-Proxy Mode	The SPC system will have direct communication with the SET.
SET Initiated SUPL Services	SET Initiated SUPL Services are services which originate from the SET. For these services, the SUPL Agent resides within the SET.
SUPL Agent	Service access point which accesses the network resources to obtain location information.
SUPL Enabled Terminal (SET)	A device that is capable of communicating with a SUPL network. Examples of this could be a UE in UMTS, a MS in GSM or IS-95, or a PC over an IP-based transport.
SUPL Location Centre (SLC)	Coordinates the operations of SUPL in the network and interacts with the SUPL Enabled Terminal (SET) over User Plane bearer.
SUPL Location Platform (SLP)	Entity responsible for SUPL Service Management and Position Determination. SLP contains the SLC and SPC Functions.
SUPL Positioning Centre (SPC)	Entity in the SUPL network responsible for all messages and procedures required for position calculation and for the delivery of assistance data.

3.3 Abbreviations

AFLT	Advanced Forward Link Trilateration
A-GPS	Assisted GPS
CID	Cell ID
CI	Cell Identity (3GPP)
ECID	Enhanced Cell ID
EOTD	Enhanced Observed Time Difference
FFS	For Further Study
FQDN	Fully Qualified Domain Name
GMLC	Gateway Mobile Location Center
GMT	Greenwich Mean Time
GPS	Global Positioning System
H-SLP	Home SLP
IMSI	International Mobile Subscriber Identity
IP	Internet Protocol
LAC	Location Area Code (3GPP)
LCS	Location Services
MAC	Message Authentication Code

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MCC	Mobile Country Code (3GPP)
MLC	Mobile Location Center
MLP	Mobile Location Protocol
MLS	Mobile Location Services
MNC	Mobile Network Code (3GPP)
MNO	Mobile Network Operator
MSID	Mobile Station Identifier
NID	Network ID (C.S0022-A V1.0)
NMR	Network Measurement Report
OMA	Open Mobile Alliance
OTDOA	Observed Time Difference of Arrival
PAP	WAP Push Access Protocol
PPG	Push Proxy Gateway
QoP	Quality of Position
RLP	Roaming Location Protocol
RRC	Radio Resource Control
RRLP	Radio Resource LCS Protocol
R-SLP	Requesting SLP
RNC	Radio Network Controller
SET	SUPL Enabled Terminal
SIM	Subscriber Identity Module
SLC	SUPL Location Center
SLIA	Standard Location Immediate Answer
SLIR	Standard Location Immediate Request
SLP	SUPL Location Platform
SMLC	Serving Mobile Location Center
SMS	Short Message Service
SMSC	Short Message Service Center
SPC	SUPL Positioning Center
SPCF	SUPL Position Calculation Function
SPF	SUPL Privacy Function
SRLIA	Standard Roaming Location Immediate Answer
SRLIR	Standard Roaming Location Immediate Request
SRRF	SUPL Reference Retrieval Function
SSF	SUPL Security Function
SSMF	SUPL Service Management Function
TBD	To Be Developed
TLS	Transport Layer Security
UE	User Equipment
ULP	Userplane Location Protocol
URI	Uniform Resource Identifier
URL	Uniform Resource Locator

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V-SLP	Visited SLP
WAP	Wireless Application Protocol

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4. Summary

This report gives details of the testing carried out during the OMA TestFest15 (June 2006) for Secure User Plance Location (SUPL) v1.0.

The report is compiled on behalf of OMA by the OMA Trusted Zone.

The work and reporting has followed the OMA IOP processes and policies [OMAIOPPROC].

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5. Test Details

5.1 Documentation

This chapter lists the details of the enabler and any documentation, tools or test suites used to prove the enabler.

Date:	26th – 30th June 2006
Location:	Belfast, Northern Ireland, UK
Enabler:	SUPL v1.0
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-server,
Test Plan:	SUPL Enabler Test Plan [ETP]
Test Specification:	SUPL Enabler Test Specification [ETS]
Test Tool:	None
Test Code:	None
Type of Test event:	TestFest
Participants:	Global Locate, Nokia, Technology Platforms, Qualcomm, Andrew Corporation, Ericsson AB, Global Locate, Nokia, TeleCommunication Systems *Plus two other participant companies*
Number of Client Products:	3
Participating Technology Providers for clients:	Global Locate, Nokia, Technology Platforms, Qualcomm
Number of Server Products:	7
Participating Technology Providers for servers:	Andrew Corporation, Ericsson AB, Global Locate, Nokia, TeleCommunication Systems *Plus two other participant servers*
Number of test sessions completed:	19

Table 1. Test Information

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5.2 Test Case Statistics

5.2.1 Test Case Summary

This chapter gives an overview of the result for all test cases included in [ETS].

The following status is used in the tables below:

- **Total number of TCs**: Used in the summary to indicate how many test cases there are in total.
- **Number of passed:** Used in the summary to indicate how many of the total test cases successfully passed.
- **Number of failed:** Used in the summary to indicate how many of the total test cases failed.
- **Number of N/A:** Used in the summary to indicate how many of the total test cases have not been run due to one of the implementations not supporting the functionality required to run this test case.
- **Number of OT:** Used in the summary to indicate how many of the total test cases have not been run due to no time to run the test case.
- **Number of INC:** Used in the summary to indicate how many of the total test cases have not been run due to functionality not being tested due to an error in the implementation or other functionality that is required to run this test case.

Test Section:	Number of test sessions:	Total number of TCs:	Number of Passed:	Number of Failed:	Number of N/A:	Number of OT:	Number of INC:	Total:
Client to Server TCs	19	78	323	13	1058	50	35	1479
Total	**19**	**78**	**323**	**13**	**1058**	**50**	**35**	**1479**

Table 2. Test Summary Table

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5.2.2 Test Case List

This chapter lists the statistics for all test cases included in [ETS].

The following status is used in the tables below:

- **No. of runs(R):** Used to indicate how many times the test cases have been run in total.
- **No. of passed(P):** Used to indicate how many times the test case has been run with successful result.
- **No. of failed(F):** Used to indicate how many times the test case has been run with failed result
- **No. of OT(O):** Used to indicate how many times the test case has not been run due to no time available.
- **No. of INC(I):** Used to indicate how many times the test case has not been run due to errors being found in other functionality required for running this test case.
- **PR:** Used to indicate if any PRs (Problem Reports) have been issued during testing.
- **Note:** Used to indicate the cause of Inconclusive or Fail verdicts.

Tests for SUPL Enabler TestFest From OMA-ETS-SUPL-V1_0-20060420-D

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-000	To test Cell ID positioning method when SET is not roaming.	19	17	2	0	0		
SUPL-1.0-int-200	To test SET-assisted A-GPS positioning method when SET is not roaming.	11	9	1	0	1		
SUPL-1.0-int-201	To test SET-based A-GPS positioning method when SET is not roaming.	13	13	0	0	0		
SUPL-1.0-int-202	To test Autonomous GPS positioning method when SET is not roaming.	6	0	0	0	6		
SUPL-1.0-int-203	To test AFLT positioning method when SET is not roaming.	0	0	0	0	0		
SUPL-1.0-int-204	To test Enhanced Cell ID positioning method when SET is not roaming.	0	0	0	0	0		
SUPL-1.0-int-205	To test E-OTD positioning method when SET is not roaming.	0	0	0	0	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-206	To test OTDOA positioning method when SET is not roaming.	0	0	0	0	0		
SUPL-1.0-int-010	To test SET and H-SLP mutual authentication when H-SLP does not support PSK-TLS authentication.	10	9	1	0	0		
SUPL-1.0-int-210	To test that the returned position fulfills the requested horizontal accuracy. SET is not roaming.	16	14	1	1	0		
SUPL-1.0-int-211	To test that a position is returned within the specified response time. SET is not roaming	15	14	0	1	0		
SUPL-1.0-int-212	To test that altitude is returned although the requested accuracy may not be fulfilled. SET is not roaming	5	5	0	0	0		
SUPL-1.0-int-213	To test that an error message is returned when the requested vertical accuracy can not be fulfilled. SET is not roaming	4	2	1	1	0		
SUPL-1.0-int-214	To test that a position is returned although the requested horizontal accuracy may not be fulfilled. SET is not roaming	10	9	0	1	0		
SUPL-1.0-int-215	To test that an error message is returned when the requested horizontal accuracy can not be fulfilled. SET is not roaming.	8	6	0	2	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-216	To test that the previously computed position is returned when the previously computed position fulfils the specified age limit. SET is not roaming.	8	6	0	2	0		
SUPL-1.0-int-217	To test that the current position is returned when a previously computed position does not fulfil the specified age limit. SET is not roaming.	9	7	0	2	0		
SUPL-1.0-int-218	To test that an error message is returned when current location is requested and the SET is switched off.	17	13	1	2	1		
SUPL-1.0-int-219	To test that the previously computed position is returned when current or last known location is requested and the SET is switched off.	10	8	0	2	0	**0001**	
SUPL-1.0-int-220	To test that a previously computed position stored in the SET is returned to the H-SLP when the requested QoP is fulfilled.	4	1	0	2	1		
SUPL-1.0-int-221	To test that the current position is returned to the H-SLP when the requested QoP is not fulfilled.	3	1	0	1	1		
SUPL-1.0-int-240	To test that the velocity of the SET can be returned when the SET-based A-GPS positioning method is used. SET is not roaming	4	4	0	0	0		
SUPL-1.0-int-241	To test that the velocity of the SET can be returned when the SET-assisted A-GPS positioning method is used. SET is not roaming	1	0	1	0	0		
SUPL-1.0-int-250	To test Notification only. SET is not roaming.	13	11	0	2	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-251	To test Notification and Verification Allowed on No Answer. The SET User answers and accepts the positioning request. SET is not roaming.	13	12	0	1	0		
SUPL-1.0-int-252	To test Notification and Verification Allowed on No Answer. The SET User answers and rejects the positioning request. SET is not roaming.	13	10	1	2	0		
SUPL-1.0-int-253	To test Notification and Verification Allowed on No Answer. The SET User does not answer, which means that the positioning request is accepted. SET is not roaming.	13	9	0	2	2		
SUPL-1.0-int-254	To test Notification and Verification Denied on No Answer. The SET User answers and accepts the positioning request. SET is not roaming.	13	11	0	2	0		
SUPL-1.0-int-255	To test Notification and Verification Denied on No Answer. The SET User answers and rejects the positioning request. SET is not roaming.	13	10	1	2	0		
SUPL-1.0-int-256	To test Notification and Verification Denied on No Answer. The SET User does not answer, which means that the positioning request is denied. SET is not roaming.	13	8	1	2	2		
SUPL-1.0-int-257	To test Privacy Override. SET is not roaming.	11	9	0	2	0		
SUPL-1.0-int-258	To test that the Requestor Id can be presented to the SET User. SET is not roaming.	8	3	0	3	2		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-259	To test that the Client Name (name of the network resident MLS application) can be presented to the SET User. SET is not roaming.	8	3	0	3	2		
SUPL-1.0-int-020	To test Cell ID positioning method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	5	3	0	1	1		
SUPL-1.0-int-270	To test SET-assisted A-GPS Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	3	2	0	0	1		
SUPL-1.0-int-271	To test SET-based A-GPS Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	3	2	0	0	1		
SUPL-1.0-int-272	To test Autonomous GPS Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	5	0	0	0	5		
SUPL-1.0-int-273	To test AFLT Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-274	To test Enhanced Cell ID Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-275	To test E-OTD Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-276	To test OTDOA Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	0	0	0	0	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-030	To test Cell ID positioning method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-280	To test SET-assisted A-GPS Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-281	To test SET-based A-GPS Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-282	To test Autonomous GPS Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	1	0	0	0	1		
SUPL-1.0-int-283	To test AFLT Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-284	To test Enhanced Cell ID Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-285	To test E-OTD Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-286	To test OTDOA Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-310	To test that Requesting SLP (R-SLP) forwards a positioning request from a network resident MLS application to the SET's home SLP (H-SLP). The H-SLP determines the position of the SET and returns the position, through the R-SLP, to the network resident MLS application. SET is not roaming.	1	0	0	0	1		
SUPL-1.0-int-500	To test Cell ID positioning method when SET is not roaming.	19	18	1	0	0		
SUPL-1.0-int-600	To test SET-assisted A-GPS positioning method when SET is not roaming.	11	10	0	0	1		
SUPL-1.0-int-601	To test SET-based A-GPS positioning method when SET is not roaming.	13	12	1	0	0		
SUPL-1.0-int-603	To test AFLT positioning method when SET is not roaming.	0	0	0	0	0		
SUPL-1.0-int-604	To test Enhanced Cell ID positioning method when SET is not roaming.	0	0	0	0	0		
SUPL-1.0-int-605	To test E-OTD positioning method when SET is not roaming.	0	0	0	0	0		
SUPL-1.0-int-606	To test OTDOA positioning method when SET is not roaming.	0	0	0	0	0		
SUPL-1.0-int-510	To test SET and H-SLP mutual authentication when H-SLP does not support PSK-TLS authentication.	12	11	0	1	0		
SUPL-1.0-int-610	To test that the returned position fulfills the requested horizontal accuracy. SET is not roaming.	14	13	0	1	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-611	To test that a position is returned within the specified response time. SET is not roaming	8	7	0	1	0		
SUPL-1.0-int-612	To test that altitude is returned. SET is not roaming	7	6	0	1	0		
SUPL-1.0-int-613	To test that the previously computed position is returned when the previously computed position fulfils the specified age limit. SET is not roaming.	3	0	0	3	0		
SUPL-1.0-int-614	To test that the current position is returned when a previously computed position does not fulfil the specified age limit. SET is not roaming.	11	8	0	3	0		
SUPL-1.0-int-630	To test that the velocity of the SET can be returned when the SET-assisted A-GPS positioning method is used. SET is not roaming	1	0	0	1	0		
SUPL-1.0-int-520	To test Cell ID positioning method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	4	3	0	0	1		
SUPL-1.0-int-640	To test SET-assisted A-GPS Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	3	2	0	0	1		
SUPL-1.0-int-641	To test SET-based A-GPS Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	3	2	0	0	1		
SUPL-1.0-int-643	To test AFLT Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	0	0	0	0	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-644	To test Enhanced Cell ID Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	1	0	0	0	1		
SUPL-1.0-int-645	To test E-OTD Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	1	0	0	0	1		
SUPL-1.0-int-646	To test OTDOA Positioning Method when SET is roaming and position calculation is done by H-SLP (Proxy Mode).	1	0	0	0	1		
SUPL-1.0-int-530	To test Cell ID positioning method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-650	To test SET-assisted A-GPS Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-651	To test SET-based A-GPS Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-653	To test AFLT Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-654	To test Enhanced Cell ID Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		
SUPL-1.0-int-655	To test E-OTD Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		

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Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
SUPL-1.0-int-656	To test OTDOA Positioning Method when SET is roaming and position calculation is done by V-SLP (Proxy Mode).	0	0	0	0	0		

Table 3. Test Case Counts

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5.2.3 Problem Reports

During the activities for TestFest-15, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
0001	Specification	Deficiency: In the case of Network-Initiated requests, the SMSC queues all SUPL INIT messages for a SET that is powered off and then forwards them when the SET powers on. The SERVER should include a 'deliver before' field to ensure that these messages	SUPL-1.0-int-219/OMA-ETS-SUPL-V1_0-20060420-D

Full details of all Problem Reports can be found at:

http://www.openmobilealliance.org/OMA-Problem-Reporting-System.html

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6. Confirmation

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Appendix A. Change History (Informative)

Type of Change	Date	Section	Description
Initial Release	7th July 2006	All	Initial Report from TestFest-15

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