



Enabler Test Report

Software Component Management Object v1.0

OMA Virtual Test Event (Sep 2009)
Version 17th September 2009

Open Mobile Alliance
OMA-EnablerTestReport-VirtualTest-01-Sep2009-SCOMO-1_0-
20090917

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1. Scope

This report describes the results from the testing carried out at OMA Virtual Test-01 (Sep 2009) concerning the Software Component Device Management Version 1.0 Enabler.

2. References

2.1 Normative References

- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.9, Open Mobile Alliance™, OMA-ORG-IOP_Process-V1_9, [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)
- [ERELD] ”Enabler Release Definition for Device Management”, OMA-ERELD-SCOMO-V1_0-20090710-C, [URL:http://www.openmobilealliance.org](http://www.openmobilealliance.org)
- [ERP] “Enabler Release Package OMA-ERP-SCOMO-V1_0-20090710-C, [URL:http://www.openmobilealliance.org](http://www.openmobilealliance.org)
- [EVP] “Enabler Test Guidelines”, OMA-EVP-SCOMO-V1_0-20090320-D, [URL:http://www.openmobilealliance.org](http://www.openmobilealliance.org)
- [ETS] “Enabler Test Specification”, OMA-ETS-SCOMO-V1_0-20090626-C, [URL:http://www.openmobilealliance.org](http://www.openmobilealliance.org)
- [EICS] “Enabler Implementation Conformance Statement”, OMA-EICS-SCOMO_Client-V1_0-20090402-A, <http://www.openmobilealliance.org/>
- “Enabler Implementation Conformance Statement”, OMA-EICS-SCOMO_Server-V1_0-20090402-A, <http://www.openmobilealliance.org/>

2.2 Informative References

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

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

Test Case	A Test Case is an individual test used to verify the conformance of the Test Object to a particular mandatory feature of the protocol. A 4-digit number identifies Test Cases where the first two digits denote the Test Group ID.
Test Group	A Test Group is a collection of Test Cases, which are executed, in a single SyncML session in SCTS conformance test tool.
Test Object	The implementation under test is referred to as the Test Object. In this document, the Client.
TestFest	Multi-lateral interoperability testing event
Trusted Zone	An OMA staff function to provide a neutral confidential information and results collection service to OMA Members. The Trusted Zone is responsible for all reports resulting from an OMA Test Event and to ensure that all general reports cannot attributed to any one individual participating company
<Node>	Path from the root to the interior node that is configured to the SCTS before the testing is done (e.g., './SyncML/DMAcc' or './DevDetail'). Test case is driven to this configured interior node. The <Node> can be different between different Test Cases.

3.3 Abbreviations

DDF	Device Description Framework
DL	Download
DLOTA	Download Over-The-Air
DM	Device Management
EICS	Enabler Implementation Conformance Statement
ERELED	Enabler Release Definition
ERP	Enabler Release Package
ETG	Enabler Test Guidelines
ETS	Enabler Test Specification
INC	Inconclusive
MO	Management Object
N/A	Not Applicable
OMA	Open Mobile Alliance
OT	Out of Time
PR	Problem Report
SCOMO	Software Component Management Object
SCR	Static Conformance Requirement
TC	Test Case

4. Summary

This report gives details of the testing carried out during the OMA Virtual Test-01 (Sept 2009) for Software Component Management Object (SCOMO) 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].

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:	7 th September 2009
Location:	N/A
Enabler:	SCOMO v1.0
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-Server
Test Guidelines:	SCOMO 1.0 Enabler Validation Plan [EVP] OMA-EVP-SCOMO-V1_0-20090320-D
Test Specification:	SCOMO 1.0 Enabler Test Specification [ETS]: OMA-ETS-SCOMO-V1_0-200900626-C
Test Tool:	None
Test Code:	None
Type of Test event:	Virtual Test
Participant Companies:	ITRI and Nokia Siemens Networks
Number of Client Implementations:	1
Participating Technology Providers for clients:	ITRI
Implementation IDs for each client:	ITRI OMA SCOMO Module v1.0
Number of Server Implementations:	1
Participating Technology Providers for servers:	Nokia Siemens Networks
Implementation IDs for each server:	NTMS 6.0
Number of test sessions completed:	1

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 testcases that successfully has been passed.
- Number of failed: Used in the summary to indicate how many of the total testcases that has failed.
- Number of N/A: Used in the summary to indicate how many of the total testcases that has not be run due to that the implementation(s) do not support the functionality required to run this test case.
- Number of OT: Used in the summary to indicate how many of the total testcases that has not be run due to no time to run the test case.
- Number of INC: Used in the summary to indicate how many of the total testcases that has not been run due to that the functionality could not be tested due to an error in the implementation in another 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	1	7	5	0	0	2	0	7
Total	1	7	5	0	0	2	0	7

Table 1. Test Summary Table

5.2.2 Test Case List

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

The following status is used in the tables below:

- **Runs (R):** Used to indicate the total number of times the test case have been run ($R = P + F + I$).
- **Pass (P):** Used to indicate how many times the test case have been run and successfully passed.
- **Fail (F):** Used to indicate how many times the test cases have been run and failed (used when the failure reason is known).
- **Inconclusive (I):** Used to indicate how many times the test cases have been run and did not pass due to other nature than conclusive implementation or specification failure (e.g.: the failure reason cannot be clearly determined).
- **Not Applicable (N/A):** Used to indicate how many times the test cases have not be run due to lack of support for the required functionality to run this test case by one or more involved implementations.
- **Out of Time (O):** Used to indicate how many times the test cases have not been run due to lack of time.
- **Problem Report (PR):** Used to indicate how many PRs have been issued for the test case.
- **Note:** Used to indicate the cause of the Inconclusive or Failed results.

Tests for SCOMO v1.0 Enabler TestFest taken from OMA-ETS-SCOMO-V1_0-20090626-C

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCOMO-1.0-INT-001	The purpose of this test is to verify that the SCOMO Client supports the required SCOMO elements and the required nodes in the DM tree	1	1	0	0	0	0		
SCOMO-1.0-INT-002	The purpose is to test client and server interoperability when delivering a Delivery Package using Large Object, using synchronous reporting	1	1	0	0	0	0		
SCOMO-1.0-INT-003	The purpose is to test client and server interoperability when delivering a Delivery Package using Large Object and asynchronous reporting	0	0	0	1	0	0	001 002	Note 003
SCOMO-1.0-INT-004	The purpose is to test client and server interoperability when delivering a Delivery Package using Alternate Download	1	1	0	0	0	0	003	Note 001

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
SCOMO-1.0-INT-005	The purpose is to test client and server interoperability when delivering a Delivery Package using Alternate Download	1	1	0	0	0	0	004 005 006	Note 002
SCOMO-1.0-INT-006	The purpose is to test client and server interoperability when updating an existing software component.	1	1	0	0	0	0		
SCOMO-1.0-INT-007	The purpose is to test client and server interoperability when updating an existing software component.	0	0	0	1	0	0	007	Note 004

Table 2. Test Case Counts

Notes: -

001	In Pass-Criteria 6, it should be /Inventory/Delivered/ instead of /Inventory/Deployed
002	In Pass-Criteria 4.1, Exec command should return 202 instead of 1202. In Pass-Criteria 5.2, /Download/x/Status instead of /Delivered/x/Status In Pass-Criteria 7.4, create node under Delivered instead of Deployed
003	In Pass-Criteria 5, It should return 202 instead of 1200 according to OMA-TS-DM-SCOMO-v1_0-20090710-C, Section 8, page 30. In Pass-Criteria 6, It should return 1200 instead of 200 Problem Report 001
004	In Pass-Criteria 2.1, It should return 202 instead of 1202 according to OMA-TS-DM-SCOMO-v1_0-20090710-C, Section 8, page 30 Problem Report 004

Problem Reports

During the activities for Virtual Test-01, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
001	OMA-ETS-SCOMO-V1_0-200900626-C	It should return 202 instead of 1200 according to OMA-TS-DM-SCOMO-v1_0-20090710-C, Section 8, page 30	SCOMO-1.0-INT-003 , pass criteria bullet 5
002	OMA-ETS-SCOMO-V1_0-200900626-C	It should return 1200 instead of 200	SCOMO-1.0-INT-003 , pass criteria bullet 6
003	OMA-ETS-SCOMO-V1_0-200900626-C	It should be /Inventory/Delivered/ instead of /Inventory/Deployed for Get Command to Query.	SCOMO-1.0-INT-004 , pass criteria bullet 6
004	OMA-ETS-SCOMO-V1_0-200900626-C	It should return 202 instead of 1202 according to OMA-TS-DM-SCOMO-v1_0-20090710-C, Section 8, page 30	SCOMO-1.0-INT-005 , pass criteria 4.1
005	OMA-ETS-SCOMO-V1_0-200900626-C	/Download/x/Status is queried instead of /Delivered/x/Status	SCOMO-1.0-INT-005 , pass criteria 5.2
006	OMA-ETS-SCOMO-V1_0-200900626-C	The newly created dynamic node should be Delivered tree (/Inventory/Delivered/X/) which located in <Target><LocURI> instead of Deployed tree	SCOMO-1.0-INT-005 , pass criteria 7.4
007	OMA-ETS-SCOMO-V1_0-200900626-C	It should return 202 instead of 1202 according to OMA-TS-DM-SCOMO-v1_0-20090710-C	SCOMO-1.0-INT-007 , pass criteria 2.1

Full details of all Problem Reports can be found at:

http://www.openmobilealliance.org/TestFests/Problem_Reporting.aspx

6. Confirmation

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OMA Trusted Zone

Appendix A. Change History (Informative)

Type of Change	Date	Section	Description
New Version	17 th September 2009	All	First Version for Virtual Test-01