Enabler Test Report Data Synchronization V1.1.1

OMA Test Fest(June 2003)
Version 09-Jul-2003

Open Mobile Alliance
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1. Scope

This report describes the results from the testing carried out at OMA Test Fest(June 2003) concerning the Data Synchronization enabler version 1.1.1.

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2. References

2.1 Normative References

[OMAIOPPROC] OMA Interoperability Policy and Process, http://www.openmobilealliance.org/

[DS111EICS] Data Synchronization version 1.1.1 Enabler Implementation Conformance Statement (EICS), http://www.openmobilealliance.org/

[ERELD] OMA Data Synchronization version 1.1.1 Enabler Release Definition

[DS111_SPEC] OMA Data Synchronization version 1.1.1 specifications

[EPTR] Enabler Product Test Report

[ETP] Enabler Test Report

[ETS] Data Synchronization version 1.1.1 Test Cases, OMA-IOP-2003-0050-DMSYNC-IOPTestCases_DS111, 11-02-2003

2.2 Informative References

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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

None.

3.3 Abbreviations

DS	Data Synchronization
DSDM	Data Synchronization Device Management
EICS	Enabler Implementation Conformance Statement
EPTR	Enabler Product Test Report
ETP	Enabler Test Plan
ETS	Enabler Test Specification
OMA	Open Mobile Alliance
PR	Problem Report
SCTS	Synchronization Conformance Test Suite

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4. Summary

This report gives details of the testing carried out during the OMA Test Fest(June 2003) for enabler Data Synchronization version 1.1.1.

The report is compiled on behalf of OMA by The NCC Group.

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:	June 24th, June 25th, June 26th 2003
Location:	Tampere, Finland
Enabler:	Data Synchronization v1.1.1
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-Server
Test Plan:	Data Synchronization Version 1.1.1 Enabler Test Plan [ETP]
Test Specification:	Data Synchronization Enabler Test Specification [ETS]
Test Tool:	SCTS 3.1.1
Test Code:	None
Type of Test event:	Test Fest
Participants:	NeoSteps Inc. Nokia Teleca
Number of Client Products:	10
Participating Technology Providers for clients:	IBM Motorola NeoSteps Inc. (3 Products) Nokia (2 Products) Teleca (2 Products) *1 additional client products*
Number of Server Products:	3
Participating Technology Providers for servers:	NeoSteps Inc. *2 additional server products*
Number of test sessions completed:	23

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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 that successfully has been passed.
- Number of failed: Used in the summary to indicate how many of the total test cases that has failed.
- Number of N/A: Used in the summary to indicate how many of the total test cases 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 test cases 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 test cases 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.

Data Types:	**Total number of TCs:**	**Number of test session:**	**Number of Passed:**	**Number of Failed:**	**Number of N/A:**	**Number of OT:**	**Number of INC:**
Client to Server TCs	13	25	385	5	6	9	12
Total	13	25	385	5	6	9	12

This breaks down by Data Type synchronized as follows:

Data Types:	**Total number of TCs:**	**Number of test session:**	**Number of Passed:**	**Number of Failed:**	**Number of N/A:**	**Number of OT:**	**Number of INC:**
vCard 2.1	13	25	266	5	6	9	12
vCalendar 1.0	13	16	73	0	0	0	0
vToDo 1.0	13	3	12	0	0	0	0
text/plain	13	4	34	0	0	0	0
Total	13	25	385	5	6	9	12

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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 specific test case has been successfully passed.
- **No. of failed(F):** Used to indicate how many times the specific test case has failed.
- **No. of OT(O):** Used in the summary to indicate how many of the total test cases that has not be run due to no time to run the test case.
- **No. of INC(I):** Used in the summary to indicate how many of the total test cases 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.
- **PR:** Used to indicate if any PRs (Problem Reports) have been issued during testing.

If the specific implementation due to e.g. no support for an optional feature has not run a specific test case the test case should be marked with N/A in the "No. of runs" column.

Test Case:	Test Case Description:	R	P	F	O	I	PR:	Note:
Test Case #1	Initial Two-way Sync	48	47	1	0	0	-	Fail due to client connection issue.
Test Case #2	Two-way Sync with Client and Server Add command	48	47	0	0	1		
Test Case #3	Two-way Sync with Client and Server Replace command	48	47	0	0	1		
Test Case #4	Two-way Sync with Client and Server Delete command	48	46	1	0	1		Fail due to IOP issue in server.
Test Case #5	Two-way Sync with Client sending new data	25	23	0	1	1		
Test Case #6	Two-way Sync with Server sending new data	25	23	0	1	1		
Test Case #7	Two-way Sync with Large number of Objects	25	23	0	1	1		
Test Case #8	Two-way Sync with Large number of Objects Returned	25	23	0	1	1		
Test Case #10	Two-way Sync with Server not responding	25	23	0	1	1		
Test Case #11	Two-way Sync with incomplete communication	25	23	0	1	1		
Test Case #12	Two-way Slow Sync with data	25	23	0	1	1		
Test Case #13	Two-way Slow Sync to restore client data	25	23	0	1	1		

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Test Case #15	Two-way Sync with Large Object Handling	19	14	3	1	1		Fails due to separate IOP issues in the client's handling of large objects.

5.2.3 Observations

Observation: 001	
Document:	Data Synchronization version 1.1.1 Test Cases [ETS]
Section:	[6. SyncML Data Synchronization - Test Cases]
Comment:	All the test cases are missing the following fields from the test specifications: {Test Case ID} {Test Object} {Specification reference} {SCR Reference} {Tool} {Test code} These are defined in the ETS template.
Recommendation	The DataSync v1.1.1 ETS is updated to include the test specification fields defined by the template.

Observation: 002	
Document:	Test Session Report
Section:	4.3.2 Test Case List
Comment:	The Enabler Test Specification for Data Synchronization specifies in section [5.Guidelines for Test Coverage], that if an implementation supports a number of PIM data types, then these should be tested during the Test Fest. In previous test events, the Test Session Results report provided a mechanism for the participant to clearly record which data types are tested using all the test cases and which data type are executed with the regression test cases. In the current form, there is no clear mechanism for showing this to allow the test results to be transferred into the Product Test Report.
Recommendation:	The Test Session Results report for Data Synchronization is modified to allow the participant to record the PIM data types synchronized for each test case.

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6. Confirmation

This signature states that the included information is true and valid.

_____

Stephen Higgins - DSDM Trusted Zone

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Appendix A. Change History (Informative)

Type of Change	Date	Section	Description

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