SyncFest Test Report
Draft Version 1.1 28-Nov-2002

Open Mobile Alliance
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Document History	
SyncFest_Test_report-V1.0-20021125-D	2002-11-25
SyncFest_Test_report-V1.1-20021128-D	Current

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1. SyncFest Statistics

1.1. Compliant Products

1.1.1. DataSync v1.0.1 Compliance

The following products attending the SyncFest in Nice (November 19-21 2002), met the criteria for DataSync v1.0.1 compliance:

Clients(5):	BenQ S830C Motorola A920 Nokia 3650 Oracle Oracle SyncML Client for PocketPC 9.0.4 SonyEricsson P800
Servers(4):	Atchik SyncML Server V1.0 JP Mobile SureWave SyncServer v3.0 Nexthaus SyncSuite Universal Personal Server - Linux Nexthaus SyncSuite Universal Personal Server - Windows

Number of OMA members attending the test program:	8
Number of Clients Products:	5
Number of Server Products:	4
Number of test sessions completed:	19

1.1.2. DataSync v1.1.1 Compliance

The following products attending the SyncFest in Nice (November 19-21 2002), met the criteria for DataSync v1.1.1 compliance:

Clients(11):	Extended Systems XTNDAccess Client fusionOne fusionOne client for Pocket PC fusionOne fusionOne client for Palm v1.1 fusionOne fusionOne Reference Client Institute for Information Industry SyncML Client for Linux PDA v1.0 Nexthaus SyncJe Client Nokia 7250 Nokia SyncML Client 2.0a Sinpag luaSync Client for Outlook v1.0 Sinpag luaSync Client for Pocket PC v1.0 Voxmobili Voxsync Smartphone Companion v1.0
Servers(6):	Critical Path SyncML Server 1.0 EVERelite Sandio Mobile Synchronization Server v2.0 fusionOne MightyMobile SyncML Gateway 2.1 Oracle Oracle Sync Server 9.0.4 Singpag luaPIM Sync Server v2.0 Starfish TrueSync Server v3.4

Number of OMA members attending the test program:	11
Number of Clients Products:	11
Number of Server Products:	6
Number of test sessions completed:	42
Number of Client's supporting optional Large Object feature:	7 of 11

1.1.3. DevMan v1.1.1 Engineering Event

The following products attending the SyncFest in Nice (November 19-21 2002), participated in the DevMan engineering Event:

Clients(4):	IBM WebSphere Studio Device Developer 5.0 Motorola Motorola DM Client Nokia Nokia SyncML DM Client SonyEricsson SonyEricsson Client 6
Servers(3):	IBM IBM Tivoli Device Manager v2.0 Nokia NTMS v3.0 Openwave Openwave DM Server v1.0

Number of OMA members attending the engineering event:	5
Number of Clients Products:	4
Number of Server Products:	3
Number of test sessions completed:	20

The latest version (v0.2) of the DevMan manual test cases dated 2002-10-14 consisting of 14 mandatory test cases and 10 optional test cases were executed during the event. The following chart provides an overview of Pass/Fail test cases for all devices participating in the event:
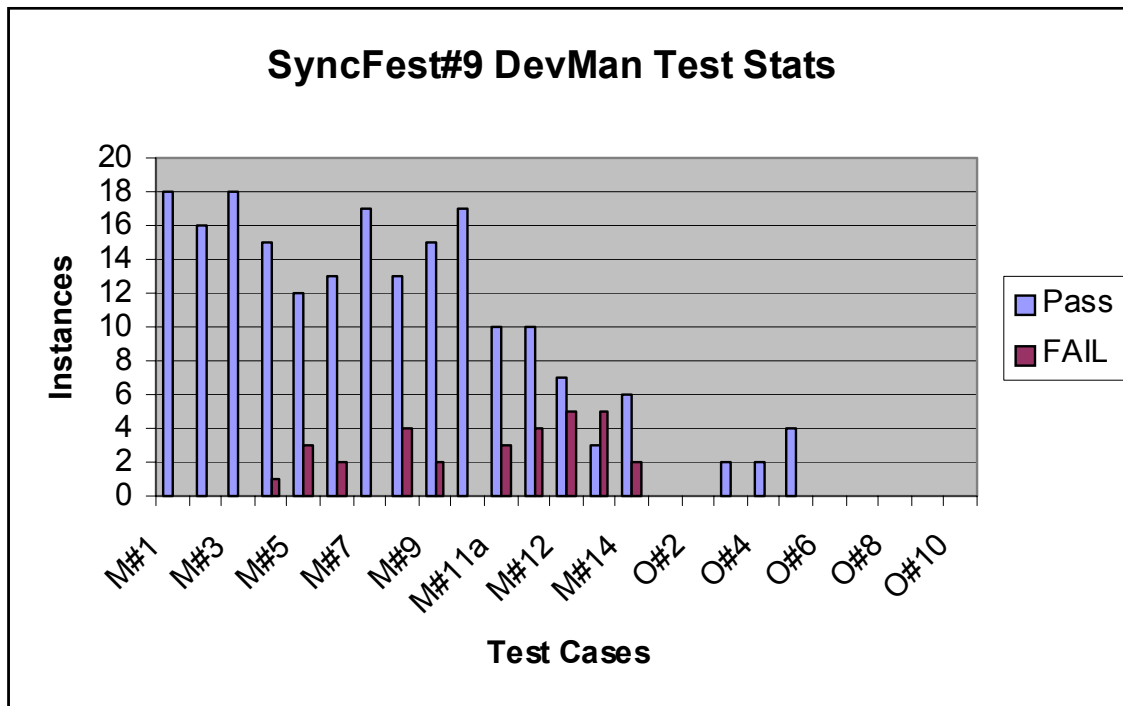
The chart reflects which of the features validated by the Interoperability test cases have been successfully implemented in the DevMan devices attending the engineering event.

2. DataSync Test Observations

This section contains details of compliance issues recorded during the SyncFest test event. Problems have been modified to remove vendor information associated with these issues to present the information in an anonymous manner.

Observation: 001	
Test Case(s):	DataSync #15
Verdict:	FAIL
SCR items / ICS:	Large Object Handling
Comment:	The test actions for this test case read as follows: "Create large objects on the server, filling in as many fields as possible". Perform a two-way sync. Using viewers, verify that object exists correctly on the client and server. Modify the large object on the client. Perform a two-way sync. Using viewers, verify that modified object exists correctly on the client and server" During testing the two-way sync is successful between the Server and the Client. However, when the Client attempts to perform a two-way sync with the server, the TCP/IP connection is dropped by the Server. The Client is based on a Palm platform, the server on an Apache interface on Linux.
Recommendation	Determine the cause of the connection problem and re-test.

Observation: 002	
Test Case(s):	-
Verdict:	PASS
SCR items / ICS:	RxList
Comment:	The client's <rxList> contained incorrect data, but it did not prevent the synchronisation from completing since the server's policy is to use the client's preferred types. This did not prevent the test cases from completing correctly, however, if the server were using a different regime where an item from the rxList list is being used, then the synchronization would have failed.
Recommendation:	Ensure that the information in the <rxList> reflects the correct capabilities of the device.

Observation: 003	
Test Case(s):	-
Verdict:	PASS
SCR items / ICS:	DevInf
Comment:	During testing, the client sent different DevInf depending on the content type being sync'd. When the Client was sync'ing a Vcard it would only send Vcard related DevInf. Then when the Client was sync'ing Vcal, it would send vCal related DevInf assuming that the Server was building up DevInf information about the Client. The Server when it receives the devInfo treats this as a static object. The tests passed by re-initialising the session.
Recommendation	The specification is not clear on the specified behaviour of Client or Server for this situation. DataSync EG need to provide clarification.

Observation: 004	
Test Case(s):	#7, #8
Verdict:	N/A
SCR items / ICS:	-
Comment:	It was suggested that test cases #7 and #8 be moved towards the end of the Interoperability Test Case document. The test cases are related to sending multiple messages. If the sending/receiving message size within a client is large, there is a lot of manual adding/deleting of contacts that is time consuming for the tester.
Recommendation	The sequencing of the Interoperability test cases is intentional to provide extra exercising of the two-way sync of the client/server.

Observation: 005	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	-
Comment:	SCR items for HTTP support in the current SICS v1.1.1 SICS are incorrect. The SCR wasn't updated correctly for the 1.1 release. 5.3.4 Response Headers The following table summarizes the support for the HTTP response headers in the SyncML binding. Response Header Client Server Accept-Ranges MAY MAY Age MAY MAY Allow MAY MAY

	Authentication-Info MAY MAY
Recommendation	Update SICSs accordingly to match SCR definitions in the specifications.

Observation: 006	
Test Case(s):	All
Verdict:	-
SCR items / ICS:	-
Comment:	The server could not parse the incoming WBXML messages. The test session sync'd successfully using XML instead. There were parsing problems in the Server.
Recommendation	Determine the cause of the parsing problem and re-test. Note: The server MUST support both XML and WBXML

Observation: 007	
Test Case(s):	Test Case #1
Verdict:	-
SCR items / ICS:	-
Comment:	When the server connects to the client the FPI in the Server is 1.0 in string table, not 1.1. This meant that the Client could not connect to the Server. This was corrected in the Server and re-tested.
Recommendation	No impact on compliance after re-test

Observation: 008	
Test Case(s):	Test Case #11
Verdict:	PASS
SCR items / ICS:	-
Comment:	During Synchronization, the test case passed, however some of the Add operations in the Sync operation did not contain valid Versit data. This was corrected in the Server during the test session and re-tested.
Recommendation	No impact on compliance after re-test. Note that object level compliance is also required.

Observation: 009	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	-
Comment:	The regression set for the different DataSync media types need to be updated to execute test cases #1 to #4. In addition, the Test report template needs to be updated for OMA and to include sign off by the Trusted Zone as opposed to the SIC.
Recommendation	This will be implemented for the next event.

Observation: 0010	
Test Case(s):	#7
Verdict:	-
SCR items / ICS:	-
Comment:	The Tomcat server has a connection timeout of 60 seconds. When a client is using a CSD connection, there were several instances where the sync could not be performed due to connectivity problems.
Recommendation	This will be implemented for the next event.

3. DevMan Feedback

This section contains details of DevMan issues recorded during the SyncFest test event. Problems have been modified to remove vendor information associated with these issues to present the information in an anonymous manner.

Observation: 0001	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	Atomic
Comment:	In section 4.4, the Atomic command is no longer mandatory to support, and therefor is the "NO" not violating any conformance requirements
Recommendation	The SICS will updated for the next event.

Observation: 0002	
Test Case(s):	5.11
Verdict:	-
SCR items / ICS:	
Comment:	This test case has two initial conditions: the client supports HMAC client or the client supports MD5. During the engineering event, the participants demonstrated HMAC authentication for both of the cases. There should be two different test cases for each of the initial conditions.
Recommendation	Address comments when updating Manual Test cases.

Observation: 0003	
Test Case(s):	5.12
Verdict:	FAIL
SCR items / ICS:	MD5 Server Authentication
Comment:	Test scenario is defined: "In this scenario, the client authenticates OK but the server's MD5 authentication (auth-md5) fails due to an incorrect userid or password or nonce. The client responds with a challenge that includes the nextNonce." Comment on the test report reads: "Should MD5 Cred be b64 encoded when using WBXML encoding
Recommendation	Clarification sought from DevMan Expert Group.

Observation: 0004	
Test Case(s):	All
Verdict:	PASS
SCR items / ICS:	-
Comment:	In one pairing of client/server, in order for any of the Interoperability test cases to be executed, the server needs to support the optional RespURI element in the Hdr.
Recommendation	-