DSDM Fest#2 - Long Beach Test Report
Version 1.0 06-Feb-2003

Open Mobile Alliance
OMA-IOP-DMSYNC-2003-000-DSDMFest2-Test-Report-20030206-v1

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DSDMFest2_Test_Report_v01_20030204	2003-02-05
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1. DSDMFest Statistics

1.1. Compliant Products

1.1.1. DataSync v1.0.1 Compliance

The following products attending the DSDM Fest in Long Beach (February 3-5 2003), met the criteria for DataSync v1.0.1 compliance:

Clients(2):	Nokia 3650
	SonyEricsson Client 6 R2B
Servers(1):	JP Mobile - SureWave SyncServer v3.1

Number of OMA members attending the test program:	3
Number of Clients Products:	2
Number of Server Products:	1
Number of test sessions completed:	6

1.1.2. DataSync v1.1.1 Compliance

The following products attending the DSDM Fest in Long Beach (February 3-5 2003), met the criteria for DataSync v1.1.1 compliance:

Clients(3):	IBM BlueSyncML 1.0
	Symbian SyncML Client 2.0
	SonyEricsson Client 7 R2C
Servers(2):	Vomobili VoxSync Server 2.0
	fusionOne MightyMobile SyncML Gateway 2.1

Number of OMA members attending the test program:	5
Number of Clients Products:	3
Number of Server Products:	2
Number of test sessions completed:	10
Number of Client's supporting optional Large Object feature:	2 of 3

1.1.3. DevMan v1.1.1 Compliance

The DevMan v1.1.1 <u>Compliance</u> event has been downgraded to be classified as an <u>Engineering</u> Event. Prior to the event, it was agreed between OMA-IOP-DMSYNC and the DevMan working group that Compliance will only be awarded if a minimum of 2 clients and 2 servers met the compliance criteria.

The following products attending the DSDM Fest in Long Beach (February 3-5 2003) participated in testing of version 1.1.1 of the Device Management specifications:

Clients(2):	IBM BlueSyncML 1
	Panasonic SyncML DM Client Protocol Stack 1.0
Servers(3):	Openwave DM Server v1.0
	IBM Tivoli Device Manager v2.0
	Nokia NMTS 3.0

Number of OMA members attending the event:	4
Number of Clients Products:	2
Number of Server Products:	3
Number of test sessions completed:	6

1.2. Test Coverage

1.2.1. DataSync v1.0.1 Test Coverage

The products participating in the DSDM Fest in Long Beach proved during Data Synchronization v1.0.1 testing, interoperability using the following PIM objects:

- vCard 2.1

- vCalendar 1.0

- vToDo 1.0

Currently, in the Interoperability test cases, there are no optional test cases for DataSync v1.0.1.

1.2.2. DataSync v1.1.1 Test Coverage

The products participating in the DSDM Fest in Long Beach proved during Data Synchronization v1.1.1 testing, interoperability using the following PIM objects:

- vCard 2.1

- vCalendar 1.0

- vToDo 1.0

There is one optional test case for the Data Synchronization v1.1.1 specifications. During the DSDM Fest in Long Beach, 2 of the 3 independent products supported and successfully demonstrated this optional functionality.

1.2.3. DevMan v1.1.1 Test Coverage

The following chart provides the number of Pass verdicts for the DevMan Interoperability test cases for all devices that participating in the event:
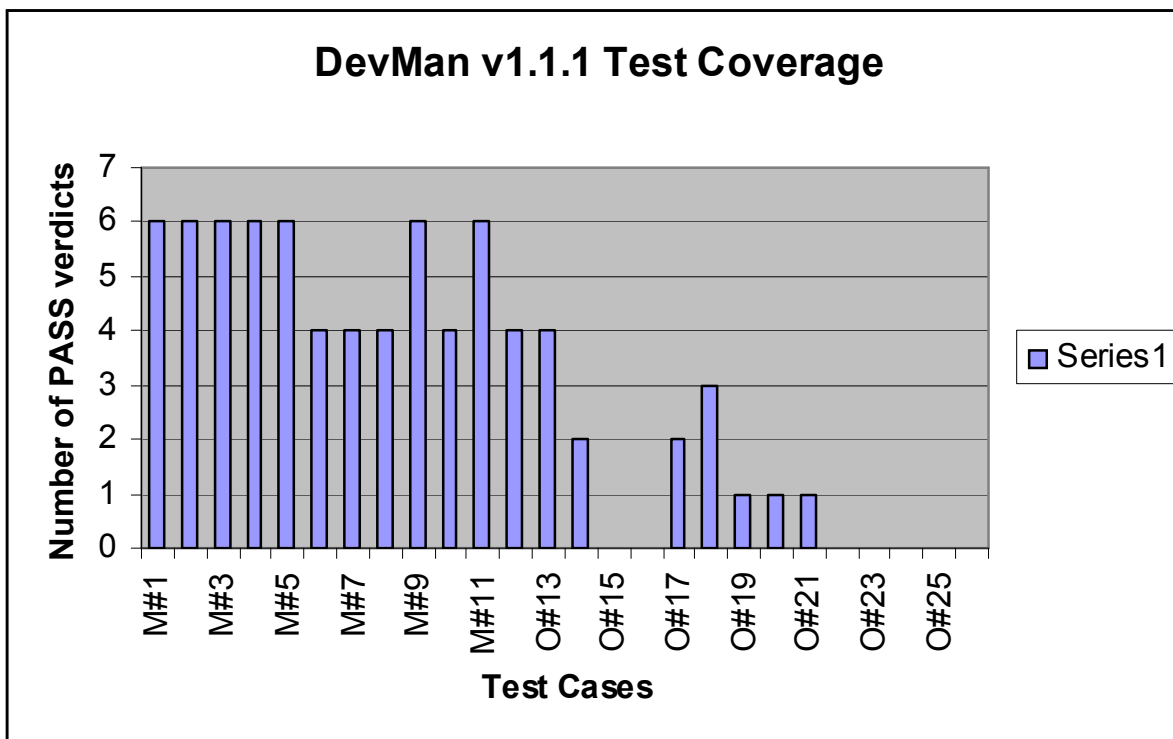
2. DataSync Test Observations

This section contains details of compliance issues recorded during the DSDM Fest 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):	-
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 WWW-Authenticate MAY MAY
Recommendation	Update SICSs accordingly to match SCR definitions in the specifications.

Observation: 002	
Test Case(s):	Test Case#14 - DataSync v1.1.1
Verdict:	FAIL
SCR items / ICS:	MD5 Authentication
Comment:	Server didn't support MD5 Authentication so the test case was assigned a FAIL verdict.
Recommendation	Test Case#14 was de-selected for interoperability testing because for some production servers it was not possible to toggle between Basic and MD5 authentication. OMA-IOP-DMSYNC agreed at the time that since MD5 is validated by the SCTS then it would not be mandated at the Fest.

Observation: 003	
Test Case(s):	N/A
Verdict:	N/A
SCR items / ICS:	4.7 MetaInfo - SCR item: MaxMsgSize MAY MUST
Comment:	The specification is not clear to whether the MaxMsgSize should be symmetric or asymmetric. Consider a client defines [MaxMsgSize=1024] and the Server defines [MaxMsgSize=2048] This can be interpreted in two ways: Symmetric: MaxMsgSize defines the maximum message received by the Client. Server negotiates down to send/receive messages of up to 1024 bytes. Asymmetric: MaxMsgSize defines the size of incoming messages for the Client. Client can receive messages of up to 1024 bytes Client can send messages of up to MaxMsgSize of the Server, i.e. outgoing messages can be larger than incoming messages.
Recommendation:	In the SyncML Meta Information specification, section 5.8, the MaxMsgSize defines: *The element type value is the text string representation of the maximum, decimal byte size of any response message.* A clarification is sought from the Specification group to the correct interpretation of the specification.

Observation: 004	
Test Case(s):	N/A
Verdict:	N/A
SCR items / ICS:	<MetInf> is mandatory for Client and Server

Comment:	The server was unable to parse the following encoding:
	
	`<MetInf xmlns="sync metinf">`
	  `<Anchor>`
	    `<last> </last>`
	    `<next></next>`
	  `</Anchor>`
	  `<MaxObjSize></MaxObjSize>`
	`</MetInf>`
	
	The server was expecting:
	
	`<Anchor xmlns="sync metinf">`
	  `<last></last>`
	  `<next></next>`
	`</Anchor>`

	<MaxObjSize xmlns="sync metinf> <MaxObjSize> Server does not parse <metinf> element, so the client was modified not to send this for testing to be completed.
Recommendation:	Client and Server will re-test in between the Fest after the server has been fixed. Clarification is sought from the specification group to the permissible syntax and use of the <MetInf> element.

Observation: 005	
Test Case(s):	N/A
Verdict:	N/A
SCR items / ICS:	-
Comment:	The DataSync v1.1.1 server did not specify Large Object Handling in the DevInf data. It was argued that this is mandatory for a DataSync v1.1.1 server and therefore the Client should assume that the server supported this feature.
Recommendation:	The specification does not provide any guidelines on how to handle this situation. Clarification is sought from the specification group.

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: 001	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	5.3.4 Response Headers
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 summarises 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 WWW-Authenticate MAY MAY
Recommendation	Update SICSs accordingly to match SCR definitions in the specifications.

Observation: 002	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	4.5 SyncML DM Protocol SCR item: Session Abort Alert - Client - Sending
Comment:	Client does not support a sending of Session Abort Alert, because the approved CR-198 says that "Client MAY send or receive Session Abort Alert".
Recommendation:	Update SICS proforma to include CR-198 and defined SCR item as MAY for sending.

Observation: 003	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	-
Comment:	The following feedback was provided on the DevMan Test report proforma: • Modify Test Report Header – currently says DataSync • Modify Test Report Client and Server Contact Info: • Remove IP Address • Make URL field longer • Change Username to Server Id • Change Password to Server Password • Add Server DMAcc • Add Client username • Add Client password • Add Client deviceID • Which transport for testing Notification? Should be specified in Proforma and Manual test cases.
Recommendation:	OMA-IOP-DMSYNC performs the editorials as recommended above.

Observation: 004	
Test Case(s):	#4 and #13
Verdict:	-
SCR items / ICS:	-
Comment:	It was commented that for Manual Test #4 and #13 – Should server issue Get? Client sends Pkg1, server responds with Status but no Cmds. If client requires server credentials, is it valid for client to challenge server at this point? (Server is in a state where it is not expecting anymore data from client except Pkg 1) If it is, must Pkg1 info be sent again to client?
Recommendation:	Clarification is sought from DevMan working group

Observation: 005	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	-
Comment:	The following issues / clarifications were sought from the independent vendors on version 1.1.1 of the DevMan specifications: • Status on Results for Large Object or use Alert 1222 (next message)? NOTE: SCTS client not checking for last Status being sent for LrgObj Get Result. • Can Results to a Cmd be sent before the Status for the command? • If server sends a Get, is it valid for Client to send back 200 Status and a Result with no \<Data> tag? (i.e. Not return \<Data>\</Data> or \<Data/>) • Tree And Desc. Doc, section 6.7.1.2 Root node ACL does not have Get? • Should you process a Session Abort Alert from a non-authenticated client/server • Security Doc, section 7.3 – Are "" optional on mac= value? • Does a package with a Session Abort Alert need to include the Final tag?
Recommendation:	Clarification is sought from DevMan working group