

Enabler Test Report MMS v1.1

OMA Test Fest (March 2004) Version 23-Mar-2004

Open Mobile Alliance OMA-Enabler_Test_Report-MMS-v11-2004-03-23

This document is considered confidential and may not be disclosed in any manner to any non-member of the Open Mobile Alliance TM , unless there has been prior explicit Board approval.

This document is a work in process and is not an approved Open Mobile AllianceTM specification. This document is subject to revision or removal without notice. No part of this document may be used to claim conformance or interoperability with the Open Mobile Alliance specifications.

© 2004, Open Mobile Alliance Ltd. All rights reserved.

Terms and conditions of use are available from the Open Mobile Alliance™ Web site at http://www.openmobilealliance.org/copyright.html.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. You may not use this document in any other manner without the prior written permission of the Open Mobile AllianceTM. The Open Mobile Alliance authorises you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services offered by you.

The Open Mobile AllianceTM assumes no responsibility for errors or omissions in this document. In no event shall the Open Mobile Alliance be liable for any special, indirect or consequential damages or any damages whatsoever arising out of or in connection with the use of this information.

This document is not an Open Mobile Alliance™ specification, is not endorsed by the Open Mobile Alliance and is informative only. This document is subject to revision or removal without notice. No part of this document may be used to claim conformance or interoperability with the Open Mobile Alliance specifications.

Open Mobile AllianceTM members have agreed to use reasonable endeavors to disclose in a timely manner to the Open Mobile Alliance the existence of all intellectual property rights (IPR's) essential to the present document. However, the members do not have an obligation to conduct IPR searches. The information received by the members is publicly available to members and non-members of the Open Mobile Alliance and may be found on the "OMA IPR Declarations" list at http://www.openmobilealliance.org/ipr.html. Essential IPR is available for license on the basis set out in the schedule to the Open Mobile Alliance Application Form.

No representations or warranties (whether express or implied) are made by the Open Mobile Alliance™ or any Open Mobile Alliance member or its affiliates regarding any of the IPR's represented on this "OMA IPR Declarations" list, including, but not limited to the accuracy, completeness, validity or relevance of the information or whether or not such rights are essential or non-essential.

This document is available online in PDF format at http://www.openmobilealliance.org/.

Known problems associated with this document are published at http://www.openmobilealliance.org/.

Comments regarding this document can be submitted to the Open Mobile AllianceTM in the manner published at http://www.openmobilealliance.org/documents.html

Contents

1.	SCOPE	4
	REFERENCES	
2.1	1 NORMATIVE REFERENCES	5
2.2	2 Informative References	5
3.	TERMINOLOGY AND CONVENTIONS	6
3.1	1 CONVENTIONS	(
3.2		
3.3		(
4.	SUMMARY	7
5.	TEST DETAILS	
5.1	1 DOCUMENTATION	8
5.2	2 TEST CASE STATISTICS	9
	5.2.1 Test Case Summary	9
	5.2.2 Observations	
6.	CONFIRMATION	18
APP	PENDIX A. CHANGE HISTORY (INFORMATIVE)	19

1. Scope

This report describes the results from the testing carried out at OMA Test Fest (March 2004) concerning MMS enabler version 1.1.

2. References

2.1 Normative References

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

[MMSEICS] MMM version 1.1 Enabler Implementation Conformance Statement (EICS),

http://www.openmobilealliance.org/

[ERELD] "Enabler Release Definition for MMS Version 1.1" Open Mobile Alliance™.

OMA-ERELD-MMS-v1_1. <u>URL:http://www.openmobilealliance.org/</u>

[MMS_SPEC] OMA MMS 1.1 specifications

[EPTR] Enabler Product Test Report

[ETP] Enabler Test Plan

[ETS] Enabler Test Specification for MMS 1.1

Approved Version 1.1.1, 10-Oct-2003

2.2 Informative References

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

EICS Enabler Implementation Conformance Statement

EPTR Enabler Product Test Report

ETP Enabler Test Plan

ETS Enabler Test Specification MM Multimedia Message

MMS Multimedia Messaging Service

MMSC MMS Proxy/Server OMA Open Mobile Alliance PR Problem Report

4. Summary

This report gives details of the testing carried out during the OMA Test Fest (March 2004) for MMS version 1.1.

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

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:	March 2004
Location:	Seattle, USA
Enabler:	MMS v1.1
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-server, Client-to-Client
Test Plan:	MMS Enabler Test Plan [ETP]
Test Specification:	MMS Enabler Test Specification [ETS]
Test Tool:	None
Test Code:	MMS v1.1 Reference Content
Type of Test event:	Test Fest
Participants:	Boompoint Inc., MediaTek Inc., Motorola, Nokia, Openwave Systems, Inc., Oracle Corporation, Siemens, SonyEricsson, SK Telecom & Locus, TTPCom Ltd,
	2 additional vendors
Number of Client Products:	9
Participating Technology Providers for clients:	Boompoint Inc., MediaTek Inc., Nokia, Motorola, Openwave Systems, Inc., Siemens, SonyEricsson, TTPCom Ltd,
	1 additional client
Number of Server Products:	4
Participating Technology Providers for servers:	Openwave Systems, Inc., Oracle Corporation, SK Telecom & Locus 1 additonal server
Number of test sessions completed:	59

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.

Test Section:	Total number of TCs:	Number of Passed:	Number of Failed:	Number of N/A:	Number of OT:	Number of INC:
Client to Client TCs	20	690	98	162	64	106
Client to Server Protocol TCs	33	1086	54	299	403	9
Client to Server Content TCs	13	514	5	60	149	0
Client to Server Email TCs	9	289	19	83	109	4
Total	75	2579	176	604	725	119

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	Ι	PR:	Note:
MMS-1.1-int- 101	Objects – Text	55	49	1	1	4		
MMS-1.1-int- 102	Objects – Text with US-ASCII encoding	48	42	1	1	4		
MMS-1.1-int- 103	Objects – Text with UTF-8 encoding	53	43	3	2	5		
MMS-1.1-int- 104	Objects – Text with UTF-16 encoding	19	11	3	1	4		
MMS-1.1-int- 105	Objects – JPG Images	55	44	4	1	6		
MMS-1.1-int- 106	Objects – GIF Images	55	45	4	1	5		
MMS-1.1-int- 107	Objects – Animated GIF Images	55	45	4	1	5		
MMS-1.1-int- 108	Objects –WBMP Images	55	42	7	1	5		
MMS-1.1-int- 109	Objects – AMR audio	53	40	5	3	5		
MMS-1.1-int- 110	Attachment – vCard	22	15	3	0	4		
MMS-1.1-int- 111	Attachment – vCal	22	11	6	1	4		

	T						
MMS-1.1-int- 112	Layouts	55	37	7	5	6	
MMS-1.1-int- 113	Page Timing	48	31	7	4	6	
MMS-1.1-int- 114	Multiple objects	55	37	7	5	6	
MMS-1.1-int- 115	Multiple pages	55	37	6	6	6	
MMS-1.1-int- 116	Multiple pages and objects with page timing	49	31	7	5	6	
MMS-1.1-int- 117	Subject	53	33	6	7	7	
MMS-1.1-int- 118	Long file names	41	21	9	7	4	
MMS-1.1-int- 119	Empty message	55	38	5	6	6	
MMS-1.1-int- 120	Message size 30kb	55	38	3	6	8	
MMS-1.1-int- 201	Send and receive messages to one MSISDN recipient (to)	56	49	0	7	0	
MMS-1.1-int- 202	Send and receive messages to one MSISDN recipient (cc)	56	39	8	8	1	
MMS-1.1-int- 203	Send and receive messages to one MSISDN recipient (bcc)	38	29	2	7	0	
MMS-1.1-int- 204	Send messages to one email recipient (to)	56	48	0	8	0	
MMS-1.1-int- 205	Send messages to one email recipient (cc)	56	39	9	8	0	
MMS-1.1-int- 206	Send messages to one email recipient (bcc)	41	31	2	8	0	
MMS-1.1-int- 207	Send and receive messages to multiple MSISDN and email recipients (to)	53	43	0	10	0	
MMS-1.1-int- 208	Send and receive messages to multiple MSISDN and email recipients (cc)	53	34	9	10	0	
MMS-1.1-int- 209	Send and receive messages to multiple MSISDN and email recipients (bcc)	35	25	2	8	0	
MMS-1.1-int- 210	Subject field with 40 Chars	57	45	2	10	0	

_	1	1			1	1	T
Subject field with US-ASCII encoding	49	40	0	9	0		
Subject field with UTF8 encoding	53	43	0	10	0		
Address field with US-ASCII encoding	56	45	0	11	0		
Address field with UTF-8 encoding	48	33	1	14	0		
Insert Address Token	51	40	1	10	0		
Download options – Immediate retrieval	55	44	0	11	0		
Download options – delayed retrieval	47	37	0	10	0		
Download options – rejected	34	23	0	11	0		
Priority – Normal	56	46	0	10	0		
Priority – Low	48	37	1	10	0		
Priority –High	48	37	1	10	0		
Delivery report – Retrieved message	46	32	0	14	0		
Delivery report – Rejected message	45	28	0	15	2		
Delivery report – Expired message	46	29	0	17	0		
Delivery report – Multiple recipients	43	21	0	21	1		
Read report when sending to single recipient	32	16	3	13	0		
Read report when sending to multiple recipients	29	7	3	18	1		
Validity Period (Expiry Time) set by Client	41	19	0	22	0		
Validity Period (Expiry Time) set by MMSC	49	25	0	24	0		
Message classes – Personal	56	38	6	12	0		
	encoding Subject field with UTF8 encoding Address field with US-ASCII encoding Address field with UTF-8 encoding Insert Address Token Download options – Immediate retrieval Download options – delayed retrieval Download options – rejected Priority – Normal Priority – Low Priority –High Delivery report – Retrieved message Delivery report – Expired message Delivery report – Multiple recipients Read report when sending to single recipient Read report when sending to multiple recipients Validity Period (Expiry Time) set by Client Validity Period (Expiry Time) set by MMSC	Subject field with UTF8 encoding Address field with US-ASCII encoding Address field with UTF-8 encoding Address field with UTF-8 encoding Insert Address Token Insert Address Token 51 Download options – Immediate retrieval Download options – delayed retrieval Address Field with UTF-8 encoding Address field with UTF-8 encoding 48 Insert Address Token 51 Download options – Immediate retrieval Address Token 52 Download options – rejected 47 Download options – rejected 48 Priority – Normal 56 Priority – Low 48 Priority – High 48 Delivery report – Retrieved message 46 Delivery report – Rejected message 46 Delivery report – Expired message 46 Delivery report – Multiple recipients 43 Read report when sending to single recipient 43 Read report when sending to single recipient 42 Read report when sending to single recipient 43 Read report when sending to single recipient 44 Validity Period (Expiry Time) set by Client 41 Validity Period (Expiry Time) set by MMSC 49	encoding 49 40 Subject field with UTF8 encoding 53 43 Address field with US-ASCII 56 45 Address field with UTF-8 encoding 48 33 Insert Address Token 51 40 Download options – Immediate retrieval 55 44 Download options – delayed retrieval 47 37 Download options – rejected 34 23 Priority – Normal 56 46 Priority – Low 48 37 Priority –High 48 37 Delivery report – Retrieved message 46 32 Delivery report – Repected message 46 29 Delivery report – Expired message 46 29 Delivery report – Multiple recipients 43 21 Read report when sending to single recipient 29 7 Validity Period (Expiry Time) set by Client 41 19 Validity Period (Expiry Time) set by MMSC 49 25 Message classes – Personal	encoding 49 40 0 Subject field with UTF8 encoding 53 43 0 Address field with US-ASCII encoding 56 45 0 Address field with UTF-8 encoding 48 33 1 Insert Address Token 51 40 1 Download options – Immediate retrieval 55 44 0 Download options – delayed retrieval 47 37 0 Download options – rejected 34 23 0 Priority – Normal 56 46 0 Priority – Low 48 37 1 Priority – High 48 37 1 Delivery report – Retrieved message 46 32 0 Delivery report – Retrieved message 46 32 0 Delivery report – Expired message 46 29 0 Delivery report – Multiple recipients 43 21 0 Read report when sending to single recipient 43 21 0 Read report when sending to multiple recipients 43 21 0 Read report when sending to multiple recipient 41 19 0 Validity Period (Expiry Time) set by Client 41 19 0 Validity Period (Expiry Time) set by MMSC 49 25 0	encoding494009Subject field with UTF8 encoding Address field with US-ASCII encoding5343010Address field with UTF-8 encoding and dress field with UTF-8 encoding Insert Address Token4833114Insert Address Token5140110Download options – Immediate retrieval5544011Download options – delayed retrieval4737010Download options – rejected3423011Priority – Normal5646010Priority – Low4837110Priority –High4837110Delivery report – Retrieved message4632014Delivery report – Rejected message4528015Delivery report – Expired message4629017Delivery report – Multiple 	encoding 49 40 0 9 0 Subject field with UTF8 encoding encoding 53 43 0 10 0 Address field with US-ASCII encoding 56 45 0 11 0 Address field with UTF-8 encoding 48 33 1 14 0 Insert Address Token 51 40 1 10 0 Download options – Immediate retrieval 55 44 0 11 0 Download options – delayed retrieval 47 37 0 10 0 Download options – rejected 34 23 0 11 0 Priority – Normal 56 46 0 10 0 Priority – Low 48 37 1 10 0 Priority – High 48 37 1 10 0 Delivery report – Retrieved message 46 32 0 14 0 Delivery report – Expired message 45 28	Subject field with UTF8 encoding

Τ	1						I
Forward without prior retrieval	28	12	1	15	0		
Time Stamp set by Client	45	26	2	17	0		
Time Stamp set by MMSC	46	26	1	15	4		
Text Object	56	45	0	11	0		
Text object with US-ASCII encoding	49	38	0	11	0		
Text object with UTF-8 encoding	56	44	0	12	0		
Text object with UTF-16 encoding	33	21	0	12	0		
Images – JPG	56	45	0	11	0		
Images – GIF	56	44	0	12	0		
Images – WBMP	56	44	0	12	0		
Audio- AMR Object	56	44	0	12	0		
Attachment- vCard	42	30	2	10	0		See Observation 004
Attachment - vCal	42	30	2	10	0		See Observation 004
Multiple pages and objects with page timing	54	42	0	12	0		
Empty message	56	44	0	12	0		
Message size 30kB	56	43	1	12	0		
Send text object to email recipient	56	44	0	12	0		
Send image object to email recipient	56	44	0	12	0		
Send audio object to email recipient	53	43	0	10	0		
Send text, image and audio objects to email recipient	56	44	0	12	0		
	Time Stamp set by MMSC Text Object Text object with US-ASCII encoding Text object with UTF-8 encoding Images – JPG Images – GIF Images – WBMP Audio- AMR Object Attachment- vCard Attachment- vCard Multiple pages and objects with page timing Empty message Message size 30kB Send text object to email recipient Send audio objects objects Send text, image and audio objects	Time Stamp set by Client 45 Time Stamp set by MMSC 46 Text Object 56 Text object with US-ASCII encoding 56 Text object with UTF-8 encoding 56 Text object with UTF-16 encoding 33 Images – JPG 56 Images – GIF 56 Images – WBMP 56 Audio- AMR Object 56 Attachment- vCard 42 Attachment - vCal 42 Multiple pages and objects with page timing 54 Empty message 56 Message size 30kB 56 Send text object to email recipient 56 Send audio object to email recipient 56	Time Stamp set by Client 45 26 Time Stamp set by MMSC 46 26 Text Object 56 45 Text object with US-ASCII encoding 49 38 Text object with UTF-8 encoding 56 44 Text object with UTF-16 encoding 33 21 Images – JPG 56 45 Images – WBMP 56 44 Audio- AMR Object 56 44 Attachment - vCard 42 30 Multiple pages and objects with page timing 54 42 Empty message 56 44 Message size 30kB 56 43 Send text object to email recipient 56 44 Send image object to email recipient 56 44 Send audio object to email recipient 56 44 Send text, image and audio objects 53 43	Time Stamp set by Client 45 26 2 Time Stamp set by MMSC 46 26 1 Text Object 56 45 0 Text object with US-ASCII encoding 49 38 0 Text object with UTF-8 encoding 56 44 0 Text object with UTF-16 encoding 33 21 0 Images – JPG 56 45 0 Images – WBMP 56 44 0 Audio- AMR Object 56 44 0 Attachment - vCard 42 30 2 Attachment - vCard 42 30 2 Multiple pages and objects with page timing 54 42 0 Empty message 56 44 0 Message size 30kB 56 43 1 Send text object to email recipient 56 44 0 Send image object to email recipient 56 44 0 Send audio object to email recipient 56 44 0	Time Stamp set by Client 28 12 1 15 Time Stamp set by MMSC 46 26 1 15 Text Object 56 45 0 11 Text object with US-ASCII encoding 49 38 0 11 Text object with UTF-8 encoding 56 44 0 12 Text object with UTF-16 encoding 33 21 0 12 Images – JPG 56 45 0 11 Images – WBMP 56 44 0 12 Audio- AMR Object 56 44 0 12 Attachment- vCard 42 30 2 10 Multiple pages and objects with page timing 54 42 0 12 Empty message 56 44 0 12 Send text object to email recipient 56 44 0 12 Send image object to email recipient 56 44 0 12 Send audio object to email recipient 56 44 0 12 Send text, image and audio objects <td< td=""><td>Time Stamp set by Client 28 12 1 15 0 Time Stamp set by MMSC 46 26 1 15 4 Text Object 56 45 0 11 0 Text object with US-ASCII encoding 49 38 0 11 0 Text object with UTF-8 encoding 56 44 0 12 0 Text object with UTF-16 encoding 33 21 0 12 0 Images – JPG 56 45 0 11 0 Images – GIF 56 44 0 12 0 Images – WBMP 56 44 0 12 0 Attachment – vCard 42 30 2 10 0 Attachment – vCard 42 30 2 10 0 Multiple pages and objects with page timing 54 42 0 12 0 Empty message 56 44 0 12 0 Message size 30kB 56 44 0 12 0</td><td> Time Stamp set by Client</td></td<>	Time Stamp set by Client 28 12 1 15 0 Time Stamp set by MMSC 46 26 1 15 4 Text Object 56 45 0 11 0 Text object with US-ASCII encoding 49 38 0 11 0 Text object with UTF-8 encoding 56 44 0 12 0 Text object with UTF-16 encoding 33 21 0 12 0 Images – JPG 56 45 0 11 0 Images – GIF 56 44 0 12 0 Images – WBMP 56 44 0 12 0 Attachment – vCard 42 30 2 10 0 Attachment – vCard 42 30 2 10 0 Multiple pages and objects with page timing 54 42 0 12 0 Empty message 56 44 0 12 0 Message size 30kB 56 44 0 12 0	Time Stamp set by Client

MMS-1.1-int- 405	Send vCard object to email recipient	39	26	1	10	2	
MMS-1.1-int- 406	Send vCal object to email recipient	39	28	1	8	2	
MMS-1.1-int- 407	Receive text, image and audio objects from email	48	27	4	17	0	
MMS-1.1-int- 408	Receive vCard object from email	37	19	4	14	0	See Observation 004
MMS-1.1-int- 409	Receive vCal object from email	37	14	9	14	0	See Observation 004

5.2.2 Observations

The following issues were captured by the Trusted Zone during the OMA Test Fest.

5.2.2.1 EICS issues

This section details issues with the MMS v1.1 Enabler Implementation Conformance Statement (EICS) [MMSEICS].

Observation: 001	
Document:	MMS v1.1 Enabler Implementation Conformance Statement (EICS)
Section	5
Comment:	Some SCR items have "sending" and "receiving" categories. When the item is marked "Mandatory" it is not clear whether it is sufficient to support just one of these.
Recommendation:	The requirements for these items should be reviewed.

5.2.2.2 Enabler Test Suite (ETS) issues

This section details issues with the Enabler Test Specification for OMA MMS v1.1.

Observation: 002	
Document:	Enabler Test Specification for MMS 1.1 [ETS]
Section:	General Comment
Comment:	There was some confusion amongst testers about how to assign verdicts to the tests and the roles of the Client A and Client B devices. In previous Fests devices have filled in their test reports from the perspective of Client A devices. The latest ETS only has verdict assignment criteria for the Client B device. Two test reports are distributed for each session, one to each of the Client devices.
Recommendation:	It should be made clear that the intention of the Client-to-Client tests is to verify the Client A behaviour and therefore testers should fill in their test reports based on how their device performs as Client A (i.e. their ability to send, not receive). Similar clarification should be given throughout the ETS.

Observation: 003	Observation: 003							
Document:	Enabler Test Specification for MMS 1.1 [ETS]							
Section:	Section 5.2							
Comment:	There appears to be an error in section 5.2: "In testing client acts as a Client A and another identical Client as Client B.". This is not how the testing is traditionally carried out at a Fest – a second Client device is scheduled during the test session to act as Client B. Testers who were purely trying to follow the documentation only were therefore at a disadvantage.							
Recommendation:	This section of the ETS document should be updated to clarify how the testing should be carried out.							

Observation: 004	
Document:	Enabler Test Specification for MMS 1.1 [ETS]
Section:	MMS-1.1-int-309, MMS-1.1-int-310, MMS-1.1-int-408, MMS-1.1-int-409
Comment:	These test cases relate to the use of vCal and vCard objects, however the relevant SCR items for support of these types are not referenced.
Recommendation:	The requirements for each of these tests should be reviewed.

MMS General Feedback

Support of Mandatory EICS items.

The IOP Policy document states the following:

"All items that are mandated by the EICS needs to be supported, by the implementation, as a minimum before entering the operational testing phase."

Some confusion was caused by the exact interpretation of this statement. All devices attending the Fest claimed all Mandatory items on their EICS documents, but due to network limitations, some were unable to support various Mandatory items during testing. It is not clear whether the above statement requires the device simply to be able to support the required items or whether it must be able to support these items during testing at the Fest.

It is clear that devices which do not support all Mandatory items should be excluded from testing, but currently the only method to determine this is by consulting the submitted EICS document. As there is no test tool to verify usage of these items, it is possible that participants can claim items which they do not support in order to meet the attendance criteria. Guidance is required from OMA-IOP as to how this situation should be handled. There are a number of difficulties that need to be explored.

The key issue is how to assess whether a device does or does not support particular items. Currently this is done by analysis of the EICS document, but there are cases where the results of the Fest appear to contradict the submitted EICS. These cases are highlighted in the issued Product Test Report, but no further action is taken. If such cases are found, how should they be dealt with? Should their results be excluded from the overall results of the Fest? If this is discovered during testing, should the participant be excluded from continuing to test? How do we distinguish between cases where genuine errors have been discovered in implementations, and where no intention to support the required items has been made?

If participation can be blocked after testing has started, another potential issue arises – exclusion of a device may take the numbers participating below the required threshold for valid testing to take place.

Currently there are three options available to determine whether a participant supports the required mandatory items:

- The item is claimed within the EICS.
 This is the current policy and most easy to implement.
 However, the EICS document may not reflect a product's true capabilities.
- 2) The item can be supported at the Test Fest (decision prior to Fest)

a full Fest event.

This would require the participant to examine the available set-up at a particular Fest and decide whether or not they will be able to support the required items, and would work on a Fest by Fest basis. As with 1) this relies on the goodwill of participants as this information would not be verified. The item can be supported at the Test Fest (decision during/after Fest) this would prevent unnecessary testing from taking pace. Difficulties arrive when exclusions cause participant numbers to drop below the allowed threshold, and in setting the criteria for deciding whether a particular device has demonstrated sufficient support. The only possible criteria at present is the analysis of test report results. Should we mandate that no Fail verdicts are allowed against Mandatory test cases? Guidance is needed from OMA to resolve this issue. One participant withdrew from the Fest as they did not support all the required Engineering event Mandatory items in the EICS. However, they did support a large number of the suggestion Mandatory items and were disappointed that they would not be able to participate in testing in any way. It was suggested that some consideration should be given to the inclusion of devices which are still at the development stage, e.g. an Engineering event where no requirements were made upon the participants. Whilst results from such an event would not count towards the development of an Enabler Specification, useful feedback and information could be gained from such an event and may also

help participants to progress their products such that they were able to participate in

6. Confirmation

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

Stephen Higgins - MMS Trusted Zone

Appendix A. Change History

(Informative)

Type of Change	Date	Section	Description