



**Enabler Test Report MMS v1.1**  
OMA Test Fest (November 2003)  
Version 27-Nov-2003

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Open Mobile Alliance  
OMA-Enabler\_Test\_Report-MMS-v11-2003-11-27

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# 1. Scope

This report describes the results from the testing carried out at OMA Test Fest (November 2003) concerning MMS enabler version 1.1.

## 2. References

### 2.1 Normative References

[OMAIOPPROC]	OMA Interoperability Policy and Process, <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[MMSEICS]	MMM version 1.1 Enabler Implementation Conformance Statement (EICS), <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[ERELED]	“Enabler Release Definition for MMS Version 1.1” Open Mobile Alliance™. OMA-ERELED-MMS-v1_1. <a href="http://www.openmobilealliance.org/">URL:http://www.openmobilealliance.org/</a>
[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 (November 2003) for MMS version 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].

## 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.

<b>Date:</b>	November 2003
<b>Location:</b>	Seattle, USA
<b>Enabler:</b>	MMS v1.1
<b>Process:</b>	OMA Interoperability Policy and Process [OMAIOPPROC]
<b>Type of Testing</b>	Interoperability Testing
<b>Products tested:</b>	Client-to-server, Client-to-Client
<b>Test Plan:</b>	MMS Enabler Test Plan [ETP]
<b>Test Specification:</b>	MMS Enabler Test Specification [ETS]
<b>Test Tool:</b>	None
<b>Test Code:</b>	MMS v1.1 Reference Content
<b>Type of Test event:</b>	Test Fest
<b>Participants:</b>	Comverse, Openwave, Ericsson, Telenity, Nokia, Alactel, magic4, TTPCom, Motorola, Locus, SonyEricsson, 1 other
<b>Number of Client Products:</b>	8
<b>Participating Technology Providers for clients:</b>	Openwave, Nokia (2), magic4, TTPCom, Motorola, SonyEricsson, 1 other
<b>Number of Server Products:</b>	8
<b>Participating Technology Providers for servers:</b>	Comverse, Openwave, Ericsson, Telenity, Nokia, Alcatel, Locus, 1 other
<b>Number of test sessions completed:</b>	78



## 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	400	46	166	129	359
Client to Server Protocol TCs	33	1011	44	343	285	132
Client to Server Content TCs	13	443	11	143	72	46
Client to Server Email TCs	9	284	19	82	80	30
Total	75	2138	120	734	566	567

**Note:** of test reports were submitted blank due to various connectivity issues. These are not included in the summary results.

## 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:
MMS-1.1-int-101	Objects – Text	55	33	1	3	18		
MMS-1.1-int-102	Objects – Text with US-ASCII encoding	33	11	1	4	17		
MMS-1.1-int-103	Objects – Text with UTF-8 encoding	48	24	1	4	19		
MMS-1.1-int-104	Objects – Text with UTF-16 encoding	26	3	0	6	17		
MMS-1.1-int-105	Objects – JPG Images	54	27	1	7	19		
MMS-1.1-int-106	Objects – GIF Images	54	26	2	7	19		
MMS-1.1-int-107	Objects – Animated GIF Images	54	26	2	7	19		
MMS-1.1-int-108	Objects –WBMP Images	48	21	2	6	19		
MMS-1.1-int-109	Objects – AMR audio	52	22	5	6	19		
MMS-1.1-int-110	Attachment – vCard	34	6	7	7	14		
MMS-1.1-int-111	Attachment – vCal	34	9	3	7	15		

MMS-1.1-int-112	Layouts	51	23	3	6	19		
MMS-1.1-int-113	Page Timing	43	18	1	7	17		
MMS-1.1-int-114	Multiple objects	55	26	2	8	19		
MMS-1.1-int-115	Multiple pages	55	26	2	8	19		
MMS-1.1-int-116	Multiple pages and objects with page timing	42	17	1	7	17		
MMS-1.1-int-117	Subject	49	23	2	6	18		
MMS-1.1-int-118	Long file names	42	8	8	8	18		
MMS-1.1-int-119	Empty message	50	24	1	6	19		
MMS-1.1-int-120	Message size 30kb	55	27	1	9	18		
MMS-1.1-int-201	Send and receive messages to one MSISDN recipient (to)	55	47	0	3	5		
MMS-1.1-int-202	Send and receive messages to one MSISDN recipient (cc)	49	38	0	7	4		
MMS-1.1-int-203	Send and receive messages to one MSISDN recipient (bcc)	41	31	0	6	4		
MMS-1.1-int-204	Send messages to one email recipient (to)	55	46	0	6	3		
MMS-1.1-int-205	Send messages to one email recipient (cc)	49	40	0	6	3		
MMS-1.1-int-206	Send messages to one email recipient (bcc)	40	31	0	6	3		
MMS-1.1-int-207	Send and receive messages to multiple MSISDN and email recipients (to)	55	39	0	12	4		
MMS-1.1-int-208	Send and receive messages to multiple MSISDN and email recipients (cc)	49	36	0	10	3		
MMS-1.1-int-209	Send and receive messages to multiple MSISDN and email recipients (bcc)	41	29	0	9	3		
MMS-1.1-int-210	Subject field with 40 Chars	49	41	1	5	2		

MMS-1.1-int-211	Subject field with US-ASCII encoding	44	39	0	3	2		
MMS-1.1-int-212	Subject field with UTF8 encoding	37	31	1	4	1		
MMS-1.1-int-213	Address field with US-ASCII encoding	46	40	0	4	2		
MMS-1.1-int-214	Address field with UTF-8 encoding	30	17	0	9	4		
MMS-1.1-int-215	Insert Address Token	53	39	1	3	10		
MMS-1.1-int-216	Download options – Immediate retrieval	54	45	0	6	3		
MMS-1.1-int-217	Download options – delayed retrieval	46	38	1	4	3		
MMS-1.1-int-218	Download options – rejected	31	16	1	9	5		
MMS-1.1-int-219	Priority – Normal	54	48	1	2	3		
MMS-1.1-int-220	Priority – Low	41	28	6	5	2		
MMS-1.1-int-221	Priority –High	42	31	5	4	2		
MMS-1.1-int-222	Delivery report – Retrieved message	55	37	2	10	6		
MMS-1.1-int-223	Delivery report – Rejected message	42	19	3	12	8		
MMS-1.1-int-224	Delivery report – Expired message	54	22	3	22	7		
MMS-1.1-int-225	Delivery report – Multiple recipients	55	25	3	21	6		
MMS-1.1-int-226	Read report when sending to single recipient	31	14	6	7	4		
MMS-1.1-int-227	Read report when sending to multiple recipients	32	6	6	14	6		
MMS-1.1-int-228	Validity Period (Expiry Time) set by Client	45	18	2	22	3		
MMS-1.1-int-229	Validity Period (Expiry Time) set by MMSC	53	24	2	24	3		
MMS-1.1-int-230	Message classes – Personal	54	46	0	5	3		

MMS-1.1-int-231	Forward without prior retrieval	19	6	0	9	4		
MMS-1.1-int-232	Time Stamp set by Client	32	19	0	9	4		
MMS-1.1-int-233	Time Stamp set by MMSC	39	25	0	7	7		
MMS-1.1-int-301	Text Object	55	51	0	1	3		
MMS-1.1-int-302	Text object with US-ASCII encoding	27	19	0	4	4		
MMS-1.1-int-303	Text object with UTF-8 encoding	48	37	0	5	6		
MMS-1.1-int-304	Text object with UTF-16 encoding	19	6	0	6	7		
MMS-1.1-int-305	Images – JPG	55	47	1	4	3		
MMS-1.1-int-306	Images – GIF	55	43	2	7	3		
MMS-1.1-int-307	Images – WBMP	48	41	0	5	2		
MMS-1.1-int-308	Audio- AMR Object	52	43	2	3	4		
MMS-1.1-int-309	Attachment- vCard	36	17	6	10	3		
MMS-1.1-int-310	Attachment - vCal	37	24	0	10	3		
MMS-1.1-int-311	Multiple pages and objects with page timing	39	29	0	8	2		
MMS-1.1-int-312	Empty message	46	39	0	4	3		
MMS-1.1-int-313	Message size 30kB	55	47	0	5	3		
MMS-1.1-int-401	Send text object to email recipient	55	49	0	5	1		
MMS-1.1-int-402	Send image object to email recipient	55	48	0	6	1		
MMS-1.1-int-403	Send audio object to email recipient	55	46	0	7	2		
MMS-1.1-int-404	Send text, image and audio objects to email recipient	55	45	0	8	2		

MMS-1.1-int-405	Send vCard object to email recipient	40	22	7	10	1		
MMS-1.1-int-406	Send vCal object to email recipient	40	29	0	10	1		
MMS-1.1-int-407	Receive text, image and audio objects from email	43	24	3	10	6		
MMS-1.1-int-408	Receive vCard object from email	35	11	5	12	7		
MMS-1.1-int-409	Receive vCal object from email	35	10	4	12	9		

### 5.2.3 Observations

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

#### 5.2.3.1 EICS issues

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

<b>Observation: 001</b>	
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.

<b>Observation: 002</b>	
Document:	MMS v1.1 Enabler Implementation Conformance Statement (EICS)
Section	5
Comment:	All SCR items starting MMSCTR refer to an incorrect chapter in the specification.
Recommendation:	References should be reviewed.

#### 5.2.3.2 Enabler Test Suite(ETS) issues

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

<b>Observation: 003</b>	
Document:	Enabler Test Specification for MMS 1.1 [ETS]
Section:	
Comment:	Certain test cases require a particular SCR item, but that SCR item is available for both sending and receiving. Where a Client supports only one of sending or receiving, this can lead to a blocked test case.
Recommendation:	One potential solution is to indicate sending or receiving in the test case so that the relevant SCR item can be checked.

<b>MMS General Feedback</b>	
Modification to Product Test Report	The role of the Trusted Zone is to record and correlate the results from the OMA Test Fest. The notes on the Product Test Report reflect the observations recorded on the Test Session Results form. It is the responsibilities of the test parties to perform sign off of the Test Session Results form during the Test Fest.

	<p>Currently within the OMA IOP process, there is no procedure/process for review/modification of the Product Test report by The Trusted Zone, based on re-interpretation of results. For example, if a participant disputes a verdict assignment or wants to provide additional test evidence to annotate the Notes section this is currently outside of the Trusted Zone's mandate.</p> <p>Modification of this nature post-Fest will be second hand from only 1 of the 3 test parties, so the integrity of the notes cannot be verified.</p> <p>Note: The only modifications of the Product Test Report currently undertaken are editorial modifications for general typos and Product/Vendor information.</p> <p>OMA-IOP should determine whether Product Test reports can be annotated based upon additional post-Fest evidence of one or more of the test parties. Alternatively, participants should be clearly informed that the test evidence recorded on the Test Session results report will be reflected in the Product Test report and should endeavour to provide sufficient detail during the Test Fest.</p>
<p>Verdict Assignment</p>	<p>There was anecdotal evidence from Test Fest participants to uncertainty with respect to assigning Fail and Inconclusive verdicts.</p> <p>The following examples demonstrate this issue:</p> <ol style="list-style-type: none"> <li>1. All test parties (Client A, Client B and Server) support the optional SCR feature and the test is applicable to be executed. If the Server did not function correctly, what verdict is assigned for Client A?</li> <li>2. All test parties (Client A, Client B and Server) support the optional SCR feature and the test is applicable to be executed. If the Client B did not function correctly, what verdict is assigned for Client A?</li> <li>3. Only test parties Client A and Client B support the optional SCR feature. Client B does not support the feature so a duplicate of Client A is used to conduct testing, what verdict should be assigned for Client A/Server?</li> <li>4. During testing, an error occurs such that the criteria for the test verdict are not met. The test parties cannot determine the cause of the error, i.e. whether it is one of the implementations under test or a connectivity issue. What is the verdict of the test?</li> <li>5. Client A does not claim an optional SCR item in their EICS, so the Trusted Zone has marked the test case as N/A. During the Test Fest, the test case is executed correctly between the test parties and a Pass entered to overwrite the N/A. Is it permissible for the test parties to overwrite the pre-formatted test result?</li> <li>6. The test case requires reporting of an error when login is unsuccessful. An error was displayed but was not user friendly (e.g. "HTTP 409"). The verdict criteria are not specific about the error, does this constitute a pass?</li> <li>7. If a test case fails due to functionality not being supported by the client or the server. Should these be N/A or FAIL?</li> </ol> <p>One solution to this would be to provide within the FAQ a set of examples to provide clear guidelines for verdict assignment.</p>
<p>Connectivity Issues</p>	<p>There were a number of connectivity issues that caused difficulties in testing:</p> <ul style="list-style-type: none"> <li>• Due to an error in the registration page, some participants did not realise they would need to test with a handset that supported the US carrier</li> </ul>



	<p>network (1900/850). The network support provided at the Fest should be made clear on the registration page.</p> <ul style="list-style-type: none"><li>• A number of issues were raised as to the effectiveness of the network in place – some messages took a very long time to appear which led to a large number of test sessions running out of time. In some cases it was thought this may be caused by the increased throughput and load on the GSM/GPRS network. The requirements of participants and the number of concurrent users should be made clear to the network supplier in order that these problems do not occur again.</li></ul>
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## 6. Confirmation

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

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Stephen Higgins - MMS Trusted Zone

## Appendix A. Change History (Informative)

Type of Change	Date	Section	Description