Enabler Test Specification for (Conformance) for MMS

Candidate Version 1.3 – 05 Feb 2013

Open Mobile Alliance

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Contents

1 Scope

This document describes in detail available conformance test cases for MMS Enabler 1.3, http://www.openmobilealliance.org/.

The MMS test cases are split in two categories, conformance and interoperability test cases.

The conformance test cases are aimed to verify the adherence to normative requirements described in the technical specifications.

The interoperability test cases are aimed to verify that implementations of the specifications work satisfactory and are defined in [MMSETSINT].

2 References

2.1 Normative References

[MMSCONF] "MMS Conformance Document", Version 1.3, Open Mobile Alliance™. OMA-MMS-CONF-V1_3, URL:http://www.openmobilealliance.org/

[MMSCTR] "MMS Client Transaction", Version 1.3, Open Mobile Alliance™. OMA-MMS-CTR-V1_3, URL:http://www.openmobilealliance.org/

[MMSENC] "MMS Encapsulation", Version 1.3, Open Mobile Alliance™. OMA-MMS-ENC-V1_3, URL :http://www.openmobilealliance.org/

[MMSTEMP] "MMS Message Template Specification", Version 1.3, Open Mobile Alliance™. OMA-MMS-TEMP-V1_3, URL:http://www.openmobilealliance.org/

[RFC2119] "Key words for use in RFCs to Indicate Requirement Levels". S. Bradner. March 1997. URL:http://www.ietf.org/rfc/rfc2119.txt

2.2 Informative References

[MMSARCH] "Multimedia Messaging Service Architecture Overview", Version 1.3, Open Mobile Alliance™. OMA-AD_MMS-V1_3, URL:http://www.openmobilealliance.org/

[MMSERELD] "Enabler Release Definition for MMS", Version 1.3, Open Mobile Alliance™. OMA-ERELD-MMS-V1_3, URL: http://www.openmobilealliance.org/

[MMSETP] "MMS Enabler Test Plan", Version 1.3, Open Mobile Alliance™. OMA-MMS-ETP-1_3, URL:http://www.openmobilealliance.org/

[MMSETR] "MMS Enabler Test Requirements", Version 1.3, Open Mobile Alliance™. OMA-MMS-ETR-1_3, URL:http://www.openmobilealliance.org/

[MMSETSINT] "Enabler Test Specification (Interoperability) for MMS", Version 1.3, Open Mobile Alliance™. OMA-ETS-MMS-INT-1_3, URL:http://www.openmobilealliance.org/

[OMADICT] "Dictionary for OMA specifications". Version 2.7, Open Mobile Alliance™. OMA-Dictionary-v2_7. URL:http://www.openmobilealliance.org/

3 Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

The following numbering scheme is used:

xxx-y.z-con-number where:

xxx	Name of enabler, e.g. MMS or Browsing
y.z	Version of enabler release, e.g. 1.2 or 1.2.1
con	Indicating this test is a conformance test case
number	Leap number for the test case

Or

xxx-y.z-int-number where:

xxx	Name of enabler, e.g. MMS or Browsing
y.z	Version of enabler release, e.g. 1.2 or 1.2.1
int	Indicating this test is a interoperability test case
number	Leap number for the test case

3.2 Definitions

Client A	The MMS client, which sends a multimedia message (Mobile Originating)
Client B	The MMS client, which receives a multimedia message (Mobile Terminating)
Client X	The MMS client representative of a unique implementation. In testing, can take a role of either client A or client B
Client Y	The MMS client representative of a unique implementation. In testing, can take a role of either client A or client B
Multimedia Messaging Service (MMS)	A system application by which a client is able to provide a messaging operation with a variety of media types.
MMS Client	The MMS service endpoint located on the client device.
MMS Proxy-Relay	A server, which provides access to various messaging systems.
MMS Server	A server that provides storage and operational support for the MMS service.
MMS SMIL	A SMIL subset defined for MMS purposes.
Reasonably Presented	“Something intelligible, which is not necessarily a close reflection of the author’s original intentions.” From the World Wide Web Consortium, W3C
Reference Content	Specified text, audio and images used in test cases. Reference content shall be available with the Enabler Test Specification (ETS).
Textually Correct	The property of a text, being word for word and letter by letter, presented in the same manner as originally written. There are no specific demands on identical font, color or size of presented text.
Transaction	One or more PDU exchanges that collectively are considered logically separate from other PDU exchanges.

3.3 Abbreviations

13k	13k speech codec
AMR	Adaptive Multi Rate
EICS	Enabler Implementation Conformance Statement
Email	Electronic mail
GIF	Graphics Interchange Format
H.263	ITU video coding standard
HTTP	Hyper text Transfer Protocol
JPG	Joint Photographic (Experts') Group
MDN	Mobile Directory Number
MIME	Multipurpose Internet Mail Extensions
MM	Multimedia Message
MMS	Multimedia Messaging Service
MMSC	MMS Proxy/Server
MS	Mobile Station
MSISDN	Mobile Station ISDN Number
NAS	Network Access Point
MPEG4	Moving Picture Experts Group 4 standard
OMA	Open Mobile Alliance
OTA	Over The Air
PDU	Protocol Data Unit
PIM	Personal Information Management
QCIF	Quarter Common Intermediate Format
SMIL	Synchronised Multimedia Integration Language
SMS	Short Message Service
US-ASCII	American Standard Code for Information Interchange, 7-bit encoding form.
UTF-8	Unicode Transformation Format, 8-bit encoding form.
UTF-16	Unicode Transformation Format, 16-bit encoding form.
WAP	Wireless Application Protocol
WBMP	Wireless Bit Map

4 Introduction

The purpose of this document is to provide test cases for MMS Enabler Release 1.3.

The intention of this test specification is to test conformance and interoperability between MMS implementations on MMS protocol and MMS content level and hence the test cases do not address the specific transport protocols (e.g. WAP 1.2.1 or HTTP).

4.1 Test Objects

Test objects can be the following:

- Client A, which originates messages
- Client B, which receives messages. Client B is a role, not a physical client. There may be several clients taking on the role of Client B in some test cases. Client B may also be an email client.
- MMSC Server, which is forwarding messages from Client A to Client B(s) and/or to Email recipient(s) and Email sender to Client B. During client-to-client testing, the MMSC is not a test object.
- Email recipient, which is a combination of an email server and an email program. These are used to receive messages. Email recipient is a role, not a physical client. There may be several clients taking on the role of email recipient in some test cases.
- Email sender, which is a combination of an email server and an email program. These are used to originate messages.

Each separate test case specifies the test objects for that test case.

4.2 Test case selection

The tests associated with mandatory and optional features are selected based on the appropriate EICS (Enabler Implementation Conformance Statement). If a feature is marked as supported, the corresponding test cases MUST be included. Selection of the conformance test cases is performed as follows:

Client testing

1. Select the test cases for the Client in the role of test object Client A (Originating messages)
2. Select the test cases for the Client in the role of test object Client B (Terminating messages)
3. The total test scope for the Client is defined as the sum of steps 1 and 2 above.

Server testing

1. Select the test cases for the test object MMSC.

4.3 Test procedures

4.3.1 Test case execution

Test cases marked as applicable are executed in the order of the test report. Testing of the test object is deemed completed when all applicable test cases in the test report have been executed and the result of each test case has been recorded.

4.3.2 Addressing

- MSISDN numbers are used to identify clients. The international format for these numbers is always used, i.e. +1 234 567890
- Email addressing [RFC 2822] is used to identify email recipients. The address is on the format: Id@domain.

4.3.3 Reference Content

Reference content is specified text, video, audio and images and other content used in test cases. Reference content shall be made available with the Enabler Test Specification. Many test cases have specified the content file to be used.

When a client supports loading of such content and subsequent use of it in MMs, this content SHALL be used.

In case client does not support loading of content and subsequent use of it in MMS, alternative means of populating the test case MAY be used. If such content is used, it should be retained and made available with the test report.

Content should be pre-loaded into clients and email recipients beforehand. Optionally, the reference content can be provided by an external media, e.g. CD or a server.

4.4 General

Conformance tests only have one object under test. Even though the test cases in the pre-conditions and the test procedures and the pass criteria mention other objects, these can be emulated/simulated in a test tool.

For example in the case where the test object is client A, the terminating client B may be represented by the use of a test tool

4.4.1 Test Tool

The test cases in this section of the document assume the use of a Test Tool for verification of the Pass Criteria. Test cases are described in a way that there is always only one Test Object. This may act as “Client A” (when sending MMs) or “Client B” (when receiving MMs). The Test Object interacts in the Test Case with the Test Tool in different ways.

For the purposes of this document, the concept of a “Test Tool” may have different meanings. The criteria for the stringency of the Test Tool may vary depending on where the results of tests will be used.

The following is a non-exhaustive list of possible “Test Tool set-ups”:

1. Single Test Tool, which emulates an MMSC and either Client A or Client B.
2. Multiple test tools, one emulating the MMSC and one emulating either Client A or ClientB
3. Real MMSC, including functions to analyse incoming messages. Emulated or real Client A and Client B.
4. Real MMSC, separate analysis tool to analyse incoming messages (e.g. EtherReal). Emulated or real Client A and Client B

When selecting the environment to be the “Test Tool” in a given situation, it is important to realise the different observation points in the different test cases and assess the “test Tool’s” ability to produce a stable verdict of the Test Case.

Note however, that the Points of Control and Observation (PCOs) should be unambiguously defined for the Conformance Tests. The PCOs should not be left as implementation dependent. For MMS Client Conformance Test Cases there should (and need) be only two PCOs defined covering all test cases:

1. At the control/display interface of the MMS Client Under Test
2. At the MMS(M) interface of the MMSC, as defined in section 5 of the OMA MMS Architecture document [MMSARCH].

Furthermore, since clause 4 of this document states that:
"The intention of this test specification is to test conformance and interoperability between MMS implementations on MMS protocol and MMS content level and hence the test cases do not address the specific transport protocols (e.g. WAP 1.2.1 or HTTP)."

4.4.2 Initial Conditions

In order to better facilitate repeatability of conformance test results each separate conformance test should start with the Test Object in a defined state.

The test case pre-amble for each of the client conformance test cases should establish the required initial state of the Test Object. Unless specified otherwise in the individual test case description the initial condition for all client conformance test cases is:

1. MM inbox empty
2. SMS inbox empty

5 MMS Client Conformance Test Cases

5.1 CLIENT SENDING

5.1.1 Message

5.1.1.1 General

5.1.1.1.1 MMS-1.3-con-102 - SMIL layout portrait with text above the image

Test Case Id	MMS-1.3-con-102
Test Object	Client A
Test Case Description	The purpose is to verify that messages with SMIL layouts, here portrait with text above the image, is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the SMIL part of the MM sent by Client A contains the appropriate layout information.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-102
Preconditions	-Client A Capability: Ability to create portrait layout with text above the image.
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, use portrait layout, enter text as in file Generic_Text.txt on top and add image file/object JPG80x60.jpg below. 4. In Client A, send MM to Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	The SMIL part of the MM sent from Client A contains the following layout information: Image Top > Text Top And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL.

5.1.1.1.2 MMS-1.3-con-103 - SMIL layout portrait with text below the image

Test Case Id	MMS-1.3-con-103
Test Object	Client A
Test Case Description	The purpose is to verify that messages with SMIL layouts, here portrait with text below the image, is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the SMIL part of the MM sent by Client A contains the appropriate layout information.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-103
Preconditions	-Client A Capability: Ability to create portrait layout with text element below the image.
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, use portrait layout, add image file/object JPG80x60.jpg on top and enter text as in file Generic_Text.txt below. 4. In Client A, send MM to Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	The SMIL part of the MM sent from Client A contains the following layout information: Image Top < Text Top And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL.

5.1.1.1.3 MMS-1.3-con-104 - SMIL layout landscape with text to the left of the image

Test Case Id	MMS-1.3-con-104
Test Object	Client A
Test Case Description	The purpose is to verify that messages with SMIL layouts, here landscape with text to the left of the image, is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the SMIL part of the MM sent by Client A contains the appropriate layout information.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-104
Preconditions	-Client A Capability: Ability to create landscape layout
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, use landscape layout, enter text as in file Generic_Text.txt to the left and add image file/object JPG80x60.jpg to the right. 4. In Client A, send MM to Test Tool 5. In the Test Tool, accept the message . Verify the pass criteria below.
Pass Criteria	The SMIL part of the MM sent from Client A contains the following layout information: Image Left > Text Left And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL.

5.1.1.1.4 MMS-1.3-con-105 - SMIL layout landscape with text to the right of the image

Test Case Id	MMS-1.3-con-105
Test Object	Client A
Test Case Description	The purpose is to verify that messages with SMIL layouts, here landscape with text to the right of the image, is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the SMIL part of the MM sent by Client A contains the appropriate layout information.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-105
Preconditions	-Client A Capability: Ability to create landscape layout
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, use landscape layout, add image file/object JPG80x60.jpg to the left enter text as in file Generic_Text.txt to the right. 4. In Client A, send MM to Test Tool 5. In the Test Tool, accept the message . Verify the pass criteria below
Pass Criteria	The SMIL part of the MM sent from Client A contains the following layout information: Image Left < Text Left And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL.

5.1.1.1.5 MMS-1.3-con-106 - Multiple objects in same page

Test Case Id	MMS-1.3-con-106
Test Object	Client A
Test Case Description	The purpose is to verify that multiple objects (one image, one text and one audio file) are correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that three objects of the correct type are present in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023, MMSCONF-MED-C-013
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-106
Preconditions	-Client A Capability: Ability to create a page with multiple objects
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, create one page and enter the text “Hello World”, add the image JPG80x60.jpg file/object and add the file/object Audio1NB.amr. 4. In Client A, send MM to Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A contains exactly 3 media objects and that there is one object of content type text/plain, one object of content type image/jpeg and one object of content type audio/AMR And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL.

5.1.1.1.6 MMS-1.3-con-107 - Multiple pages

Test Case Id	MMS-1.3-con-107
Test Object	Client A
Test Case Description	The purpose is to verify that multiple pages are correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the MM sent from Client A contains as many pages as were specified.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-107
Preconditions	-Client A Capability: Ability to create multiple pages
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, create ixit_page_count pages, adding the files/objects images GIF1.gif through GIF10.gif to these pages as applicable, with one image per page. 4. In Client A, send MM to Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The SMIL part of the MM sent by Client A contains ixit_page_count pages and there is one image/gif object per page. And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL.

5.1.1.1.7 MMS-1.3-con-108 - Multiple pages with page timing and time dependent content

Test Case Id	MMS-1.3-con-108
Test Object	Client A
Test Case Description	The purpose is to verify that multiple pages and objects with page timing are correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the SMIL part of the MM sent by Client A contains the right number of pages, with the correct timing values and that the objects for these pages are present in the MM.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023, MMSCONF-MED-C-013, MMSCONF-MED-C-053
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-108
Preconditions	-Client A Capability: Ability to create multiple pages Ability to specify Page Timing for multiple pages Ability to specify Page Timing for pages that contain media video or audio files
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address 3. In MM content: In the message body, create the following three pages: - Page 1, enter text as in file Generic_Text.txt, add the file/object JPG80x60.jpg, add the file/object 20sec_audio.amr or 20sec_audio.qcp and specify a page timing to ixit_8sec_page_timing seconds. - Page 2, enter the text as in file Text_us-ascii.txt, add the file/object GIF80x60.gif, add the file/object (either audio2NB.amr or audio2.qcp) and specify page timing to ixit_8sec_page_timing seconds. - Page 3, enter the text Generic_Text.txt, add the file/object WBMP_80x60.wbmp, add the file/object 20sec_audio.amr or 20sec_audio.qcp and specify page timing to ixit_8sec_page_timing seconds. 3. In Client A, send MM to the Test Tool. 4. In the Test Tool, accept the message 5. Verify the pass criteria below.
Pass Criteria	The SMIL part of the MM sent by Client A contains 3 pages and that the page timing for all the pages is set to ixit_8sec_page_timing seconds Page 1 contains JPG80x60.jpg and 20sec_audio.amr/20sec_audio.qcp Page 2 contains GIF80x60.gif and audio2NB.amr/audio2.qcp Page 3 contains WBMP_80x60.wbmp and 20sec_audio.amr/20sec_audio.qcp And the SMIL content of the MM received from Client A is valid “MMS

SMIL" as defined by the XML Schema for MMS SMIL.

5.1.1.1.8 MMS-1.3-con-109 - Multiple pages with page timing

Test Case Id	MMS-1.3-con-109
Test Object	Client A
Test Case Description	The purpose is to verify that messages with different SMIL page timing are sent correctly from Client A. This message contains 4 different pages and page times: - Page 1 with page timing ixit_min_page_time - Page 2 with 5 seconds page timing - Page 3 with page time ixit_max_page_time - Page 4 with no page timing Note: Since the last page of a SMIL presentation can be shown indefinitely on a client until further actions, this fourth page is only used to permit the period of time that page 3 is displayed to be determined. Verification is done by sending the message from Client A to a test tool, which will verify that the number of pages is correct and that the timing values exist in the message.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-109
Preconditions	-Client A Capability: Ability to specify different SMIL page timings and support multiple pages with images
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, create the following four pages: - Page 1, enter the text "Page 1" and specify timing to ixit_min_page_time. - Page 2, add the file/object JPG80x60.jpg and specify timing to 5 seconds. - Page 3, enter the text "Page 3" and specify timing to ixit_max_page_time. - Page 4, add the file/object JPG80x60.jpg. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message 6. Verify the pass criteria below.
Pass Criteria	The SMIL part of the MM sent by Client A contains 4 pages and the page timing is set to ixit_min_page_time, 5 and ixit_max_page_time respectively for pages 1, 2 and 3. The text or image content of pages 1, 2 and 3 shall be as defined in the test procedure above. And the SMIL content of the MM received from Client A is valid "MMS SMIL" as defined by the XML Schema for MMS SMIL.

5.1.1.1.9 MMS-1.3-con-111 - Subject field with UTF8 encoding

Test Case Id	MMS-1.3-con-111
Test Object	Client A
Test Case Description	The purpose is to verify that a subject field encoded in UTF-8 is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the text entered is correctly encoded in the MM sent by Client A.
Specification Reference	MMSENC Table 1,Table 3, Table 5
SCR Reference	MMSE-C-025, MMSE-C-046, MMSE-C-067
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-111
Preconditions	-Client A Capability: UTF-8 charset encoding of Subject field
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM header: Subject-field is set to the character string given in the reference content file “Short_Text_UTF-8.txt” inand the encoding is set to UTF-8. (Alternative characters may be substituted where necessary as described in the reference content document “Content used in OMA MMS tests.doc”). 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to Test Tool. 6. In the Test Tool, accept the message . 7. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A contains a “Subject” header field containing the entered text correctly encoded in UTF-8..

5.1.1.1.10 MMS-1.3-con-171 - Long Subject field

Test Case Id	MMS-1.3-con-171
Test Object	Client A
Test Case Description	The purpose is to verify that a Client will not send multimedia message with a Subject-field longer than 40 characters.
Specification Reference	[MMSCONF] Chapter 10.2.5
SCR Reference	MMSCONF- GEN-C-003
Tool	MMS Conformance Tool
Test Code	Validated test code for test case MMS-1.3-con-171
Preconditions	-Client A Capability: Client provides means to modify the subject field
Test Procedure	1. In Client A, create a new MM. 2. In MM header: Enter ixit_max_subject_len characters of the following 41 characters to the subject field, "abcdefghijklmnopqrstuvwxyz0123456789/-+@?". 3. In MM content: In the message text part, enter the text "Hello World". 4. In Client A, send MM to Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The M-Send.req PDU sent by Client A contains a "Subject" header field containing ixit_max_subject_len characters, being a subset of the characters specified in the Test Procedure.

5.1.1.1.11 MMS-1.3-con-161 - Send MMS message without defining the <par> dur value

Test Case Id	MMS-1.3-con-161
Test Object	Client A
Test Case Description	The purpose is to verify that Client will set the dur attribute to the same value or longer as the duration of the media object contained in the slide presentation. Verification is done by sending the message from Client A to a test tool, which will verify that the Client is able to support the appropriate <par> dur attribute.
Specification Reference	[MMSCONF] Chapter 8.1.2
SCR Reference	MMSCONF-MED-C-052
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-161
Preconditions	
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address 3. In MM content: Add to the first slide of the message the audio file/object 30k_basic_AMR.amr (45 seconds long). Add to the second slide only the file Text_us-ascii.txt 4. In Client A, send MM to the Test Tool 5. In the Test Tool, accept the message. 1. Verify the pass criteria below.
Pass Criteria	Client A has successfully created the message, the message sent by the client was accepted by the Test Tool and the dur attribute within the SMIL header is set to 45 sec or longer and dur attribute can be +/- 1 second of media object contained in the slide presentation. And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL

5.1.1.1.12 MMS-1.3-con-162 - Send MMS message with user specific <par> dur value

Test Case Id	MMS-1.3-con-162
Test Object	Client A
Test Case Description	The purpose is to verify that Client will accept to set the dur attribute to a user specific value. Verification is done by sending the message from Client A to a test tool, which will verify that the Client is able to support the appropriate <par> dur attribute.
Specification Reference	[MMSCONF] Chapter 8.1.2
SCR Reference	MMSCONF-MED-C-053
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-162
Preconditions	
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address 3. In MM content: Add to the first slide audio file/object Audio3NB.amr (10 seconds long) and specify timing to 20 seconds or client maximum. Add to the second slide only Text_us-ascii.txt 4. In Client A, send MM to the Test Tool 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	Client A has successfully created the message, the message sent by the client was accepted by the Test Tool and the dur attribute within the SMIL header is set to 20 seconds or client maximum. And the SMIL content of the MM received from Client A is valid “MMS SMIL” as defined by the XML Schema for MMS SMIL

5.1.2 Core MM Content Domain

5.1.2.1 Text

5.1.2.1.1 MMS-1.3-con-112 - Text with US-ASCII encoding

Test Case Id	MMS-1.3-con-112
Test Object	Client A
Test Case Description	The purpose is to verify that a text object with US-ASCII encoding is correctly sent from Client A . Verification is done by sending the message from Client A to a test tool, which will verify that the text entered is correctly encoded in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7.1.8
SCR Reference	MMSCONF-MED-C-002, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-112
Preconditions	-Client A - Ability to select US-ASCII encoding for text input (either as default or using MMI) Supports US-ASCII (*IANA MIBEnum 3)* encoding when creating messages
Test Procedure	1. In Client A, create a new MM. If supported by the Client create the MM without a presentation part. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, enter text as in file Text_us-ascii.txt. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A contains a text part containing the entered text correctly encoded in USASCII. The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related if a presentation part is present or the MM PDU content type is set to application/vnd.wap.multipart.mixed if the MM does not contain a presentation part.

5.1.2.1.2 MMS-1.3-con-113 - Text with UTF-8 encoding

Test Case Id	MMS-1.3-con-113
Test Object	Client A
Test Case Description	The purpose is to verify that a text object with UTF-8 encoding is correctly sent from Client A . Verification is done by sending the message from Client A to a test tool, which will verify that the text entered is correctly encoded in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7.1.8
SCR Reference	MMSCONF-MED-C-003, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-113
Preconditions	-Client A - Support of UTF-8 charset encoding - Supports utf-8 (IANA MIBenum 106) [Unicode] encoding when creating messages
Test Procedure	1. In Client A, create a new MM. If supported by the Client create the MM without a presentation part. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, enter text as in file Text_UTF-8.txt. (Alternative characters may be substituted where necessary as described in the reference content document “Content used in OMA MMS tests.doc”) 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A contains a text part containing the entered text correctly encoded in UTF-8. The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related if a presentation part is present or the MM PDU content type is set to application/vnd.wap.multipart.mixed if the MM does not contain a presentation part.

5.1.2.2 Image

5.1.2.2.1 MMS-1.3-con-116 - JPG Image size 160x120

Test Case Id	MMS-1.3-con-116
Test Object	Client A
Test Case Description	The purpose is to verify that a JPG image of the size 160x120 is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-007, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-116
Preconditions	-Client A
Test Procedure	6. In Client A, create a new MM. 7. In MM header: To-field is set to any legal address 8. In MM content: Add image file/object JPG160x120.jpg to the message. 9. In Client A, send MM to the Test Tool 10. In the Test Tool, accept the message . 11. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/jpeg and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/jpeg and this shall contain the complete contents of the image file.

5.1.2.2.2 MMS-1.3-con-118 - JPG Image size 640x480

Test Case Id	MMS-1.3-con-118
Test Object	Client A
Test Case Description	The purpose is to verify that a JPG image of the size 640x480 is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-007, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-118
Preconditions	-Client A Capability: Content class greater than Image Basic class
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address 3. In MM content: Add image file/object JPG640x480.jpg to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/jpeg and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/jpeg and this shall contain the complete contents of the image file.

5.1.2.2.3 MMS-1.3-con-120 - GIF Image size 160x120

Test Case Id	MMS-1.3-con-120
Test Object	Client A
Test Case Description	The purpose is to verify that a GIF87a image of the size 160x120 is correctly sent from Client A . Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-009, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-120
Preconditions	-Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add image file/object GIF87a160x120.gif to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/gif and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/gif and this shall contain the complete contents of the image file.

5.1.2.2.4 MMS-1.3-con-122 - GIF Image size 640x480

Test Case Id	MMS-1.3-con-122
Test Object	Client A
Test Case Description	The purpose is to verify that a GIF87a image of the size 640x480 is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-009, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-122
Preconditions	-Client A Capability: Content class greater than Image Basic class
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add image file/object GIF87a640x480.gif to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/gif and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/gif and this shall contain the complete contents of the image file.

5.1.2.2.5 MMS-1.3-con-124 - Animated GIF Image size 160x120

Test Case Id	MMS-1.3-con-124
Test Object	Client A
Test Case Description	The purpose is to verify that an animated GIF89a image of the size 160x120 is correctly sent from Client A . Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-010, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-124
Preconditions	-Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add image file/object AnimatedGIF89a_160x120.gif to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/gif and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/gif and this shall contain the complete contents of the image file.

5.1.2.2.6 MMS-1.3-con-126 - Animated GIF Image size 640x480

Test Case Id	MMS-1.3-con-126
Test Object	Client A
Test Case Description	The purpose is to verify that an animated GIF89a image of the size 640x480 is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-010, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-126
Preconditions	-Client A Capability: Content class greater than Image Basic class
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add image file/object AnimatedGIF89a_640x480.gif to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/gif and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/gif and this shall contain the complete contents of the image file.

5.1.2.2.7 MMS-1.3-con-128 - WBMP Image size 160x120

Test Case Id	MMS-1.3-con-128
Test Object	Client A
Test Case Description	The purpose is to verify that a WBMP image of the size 160x120 is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-011, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-128
Preconditions	-Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add image file/object WBMP_160x120.wbmp to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/vnd.wap.wbmp and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/vnd.wap.wbmp and this shall contain the complete contents of the image file.

5.1.2.2.8 MMS-1.3-con-130 - WBMP Image size 640x480

Test Case Id	MMS-1.3-con-130
Test Object	Client A
Test Case Description	The purpose is to verify that a WBMP image of the size 640x480 is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the image file is included in its entirety in the MM sent by Client A
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-011, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-130
Preconditions	-Client A Capability: Content class greater than Image Basic class
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add image file/object WBMP_640x480.wbmp to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	3GPP Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/vnd.wap.wbmp and contain the complete contents of the image file. A part with content type application/smil shall also be present. 3GPP2 Client : The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to image/vnd.wap.wbmp and this shall contain the complete contents of the image file.

5.1.2.2.9 MMS-1.3-con-160 - Sending MM with JPEG and Huffman table

Test Case Id	MMS-1.3-con-160
Test Object	Client A
Test Case Description	The purpose is to verify that Client A fully supports creation and submission of an MM with an JPEG including the following Huffman tables: • 1 AC Luminance Table • 1 DC Luminance Table • 1 AC Chrominance Table • 1 DC Chrominance Table Verification is done by sending the message from Client A to a test tool which will verify that the above mentioned Huffman tables are all included in the image.
Specification Reference	[MMSCONF] Chapter 7.1.1
SCR Reference	
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-160
Preconditions	--Client B Support of JPEG with Huffman table UE has a built in camera
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address 3. In MM content: Take a picture with the built in camera and add it with format image/jpeg to the message. 4. In Client A, send MM to the Test Tool 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/jpeg and contain the complete contents of the image file. A part with content type application/smil shall also be present. The image within the MM contains the above mentioned Huffman tables.

5.1.2.3 Audio

5.1.2.3.1 MMS-1.3-con-131 - AMR audio NB

Test Case Id	MMS-1.3-con-131
Test Object	Client A
Test Case Description	The purpose is to verify that an AMR audio NB object/content is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the audio file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-013, MMSE-C-033
Tool	MMS Conformance Tool
Test Code	Validated test code for test case MMS-1.3-con-131
Preconditions	-Client A -Support for AMR audio NB
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add audio file/object audio1NB.amr to the message and set page timing to allow for the audio1NB.amr file to be played. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to audio/amr and contain the complete contents of the audio file. A part with content type application/smil shall also be present.

5.1.2.3.2 MMS-1.3-con-132 – 3GPP2 13k speech

Test Case Id	MMS-1.3-con-132
Test Object	Client A
Test Case Description	The purpose is to verify that a 13k speech object/content is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the audio file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-014, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add speech file/object audio1.qcp to the message and set page timing to allow for the audio1.qcp file to be played. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to audio/qcp and contain the complete contents of the audio file. A part with content type application/smil shall also be present.

5.1.2.4 Video

5.1.2.4.1 MMS-1.3-con-133 - 3GPP Video QCIF

Test Case Id	MMS-1.3-con-133
Test Object	Client A
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly sent from Client A Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-133
Preconditions	-Client A - Support for media type video/3gpp
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object qcif_video.3gp to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.2 MMS-1.3-con-134 - 3GPP Video sub-QCIF

Test Case Id	MMS-1.3-con-134
Test Object	Client A
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-134
Preconditions	-Client A - Support for media type video/3gpp
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object sub-qcif_video.3gp to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.3 MMS-1.3-con-135 - 3GPP2 Video QCIF (MPEG4+13k)

Test Case Id	MMS-1.3-con-135
Test Object	Client A
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports MPEG4 and 13k
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (mp4_13k_qcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.4 MMS-1.3-con-136 - 3GPP2 Video QCIF (MPEG4+AMR)

Test Case Id	MMS-1.3-con-136
Test Object	Client A
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports MPEG4 and AMR
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (mp4_amr_qcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.5 MMS-1.3-con-137 - 3GPP2 Video QCIF (H.263+13k)

Test Case Id	MMS-1.3-con-137
Test Object	Client A
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports H.263 and 13k
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (h263_13k_qcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.6 MMS-1.3-con-138 - 3GPP2 Video QCIF (H.263+AMR)

Test Case Id	MMS-1.3-con-138
Test Object	Client A
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports H.263 and AMR
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (h263_amr_qcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.7 MMS-1.3-con-139 - 3GPP2 Video sub-QCIF (MPEG4 +13k)

Test Case Id	MMS-1.3-con-139
Test Object	Client A
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports MPEG4 and 13k
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (mp4_13k_sqcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.8 MMS-1.3-con-140 - 3GPP2 Video sub-QCIF (MPEG4 +AMR)

Test Case Id	MMS-1.3-con-140
Test Object	Client A
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports MPEG4 and AMR
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (mp4_amr_sqcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.9 MMS-1.3-con-141 - 3GPP2 Video sub-QCIF (H.263 +13k)

Test Case Id	MMS-1.3-con-141
Test Object	Client A
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports H.263 and 13k
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (h263_13k_sqcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.4.10 MMS-1.3-con-142 - 3GPP2 Video sub-QCIF (H.263 +AMR)

Test Case Id	MMS-1.3-con-142
Test Object	Client A
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the video file is included in its entirety in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-021, MMSE-C-033
Tool	None
Test Code	None
Preconditions	-Client A Capability supports H.263 and AMR
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: Add video file/object (h263_amr_sqcif.3g2) to the message. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to video/3gpp2 and contain the complete contents of the video file. A part with content type application/smil shall also be present.

5.1.2.5 Attachment

5.1.2.5.1 MMS-1.3-con-143 - vCard

Test Case Id	MMS-1.3-con-143
Test Object	Client A
Test Case Description	The purpose is to verify that a vCard MIP object is correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the vCard file is included in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7.1.3
SCR Reference	MMSCONF-MED-C-016, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-143
Preconditions	-Client A Capability: vCard 2.1 MIP
Test Procedure	1. In Client A, create a new Address Book entry containing all possible fields of the reference content "John Doe.vcf" as supported by the MMI of Client A 2. In Client A, create a new MM using the vCard object from the above mentioned address book entry. 3. In MM header: To-field is set to any legal address. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	Test Tool has received the message with vCard object and the message PDU content type is set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to text/x-vCard. If ixit mms version equals "1.3" the text/x-vCard part shall contain, at least, the following vCard properties: • N (Name), which shall be textually correct • VERSION, which shall be set to "2.1" • Three EMAIL property fields which shall be textually correct • Three TEL property fields which shall be textually correct.

5.1.2.5.2 MMS-1.3-con-144 - vCalendar

Test Case Id	MMS-1.3-con-144
Test Object	Client A
Test Case Description	The purpose is to verify that a vCalendar MIP object correctly sent from Client A. Verification is done by sending the message from Client A to a test tool, which will verify that the Content type is correct and that the vCalendar file is included in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7.1.3
SCR Reference	MMSCONF-MED-C-027, MMSE-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-144
Preconditions	-Client A Capability: vCalendar 1.0 MIP
Test Procedure	1. In Client A, create a new Calendar entry containing all possible fields of the reference content “Christmas.vcs” as supported by the MMI of Client A 2. In Client A, create a new MM using the above mentioned vCalendar object. 3. In MM header: To-field is set to any legal address. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message . 6. Verify the pass criteria below.
Pass Criteria	Test Tool has received the message with vCalendar object and the message PDU content type set to application/vnd.wap.multipart.related or application/vnd.wap.multipart.mixed. The MM message content shall contain a part with content type set to text/x-vCalendar. If ixit mms version equals “1.3” the text/x-vCalendar part shall contain, at least, the following vEvent properties: • VERSION, which shall be set to “1.0” and it shall follow directly after the BEGIN:VCALENDAR property. • CATEGORIES, which shall be textually correct or set to null (0x00h). • DESCRIPTION, which shall be textually correct or set to null (0x00h). • DTEND, which shall be textually correct or set to null (0x00h). • RRULE, which shall be textually correct or set to null (0x00h). • DTSTART, which shall be textually correct or set to null (0x00h).

5.1.2.6 Megapixel

5.1.2.6.1 MMS-1.3-con-157 - Full conformance to mega pixel class – creation and submission of single object

Test Case Id	MMS-1.3-con-157
Test Object	Client A
Test Case Description	The purpose is to verify that Client A is compliant to "Full conformance to mega pixel class" in creation and submission. Verification is done by sending the message from Client A to a test tool, which will verify that the Client is able to create and submit a message belonging to the mega pixel class.
Specification Reference	[MMSCONF] Chapter 12.1
SCR Reference	MMSCONF-CCC-C-017 MMSCONF-MPC-C-001 MMSCONF-MPC-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-157
Preconditions	--Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address 3. In MM content: Add image file/object JPG1600x1200-550kB.jpg to the message. 4. In Client A, send MM to the Test Tool 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A has the MM PDU content type set to application/vnd.wap.multipart.related. The MM message content shall contain at least two parts in the MIME multipart content. One of these parts shall have content type set to image/jpeg and contain the complete contents of the image file. A part with content type application/smil shall also be present.

5.1.2.6.2 MMS-1.3-con-158 - Rich Text in megapixel content class

Test Case Id	MMS-1.3-con-158
Test Object	Client A
Test Case Description	The purpose is to verify that a Rich Text object is correctly sent from Client A in an MM of class megapixel. Verification is done by sending the message from Client A to a test tool, which will verify that the rich text entered is correctly encoded in the MM sent by Client A.
Specification Reference	[MMSCONF] Chapter 7.1.9.2.2
SCR Reference	MMSCONF-RTX-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-158
Preconditions	-Client A - Support of megapixel class
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, create the following two pages: - Page 1, enter rich text as in file Rich-Text-module-text1.html, add the file/object JPG1600X1200.jpg and specify page timing that will permit assessment of the pass criteria. - Page 2, enter rich text as in file Rich-Text-module-lists.html, add the file/object GIF80x60.gif and specify page timing that will permit assessment of the pass criteria. 4. In Client A, send MM to the Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The MM sent by Client A contains two pages, each with a rich text part which validates correctly against the DTD defined in the XHTML Mobile Profile specification. The rich text part in page 1 contains at least one example of each of the following XHTML MP 1.2 elements from the Structure module: • body, head, html, title The rich text part in page 1 contains at least one example of each of the following XHTML MP 1.2 elements from the Text module; • address, b, div, h1, h3, h6, p, span, strong The rich text part in page 1 contains at least one example of each of the following XHTML MP 1.2 elements from the Stylesheet module; • style The rich text part in page 1 contains at least one example of each of the following XHTML MP 1.2 style properties:

- color
- text-decoration with value underline.

The rich text part in page 2 contains at least one example of each of the following XHTML MP 1.2 elements from the List module;

- dd, dl, dt, li, ol, ul

5.1.2.6.3 MMS-1.3-con-159 - Full conformance to mega pixel class – creation and submission of multiple objects

Test Case Id	MMS-1.3-con-159
Test Object	Client A
Test Case Description	The purpose is to verify that Client A is compliant to "Full conformance to mega pixel class" in creation and submission. Verification is done by sending the message from Client A to a test tool, which will verify that the Client is able to create and submit a message belonging to the mega pixel class and containing as many pages as were specified.
Specification Reference	[MMSCONF] Chapter 12.1
SCR Reference	MMSCONF-CCC-C-017 MMSCONF-MPC-C-001 MMSCONF-MPC-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-159
Preconditions	--Client A Capability: Ability to create multiple pages
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In MM content: In the message body, create ixit_page_count pages, adding the files/objects images GIF1-40kB.gif through GIF10-40kB.gif to these pages as applicable, with one image per page and Rich-Text-1.html through Rich-Text-10.html with one text part per page. 4. In Client A, send MM to Test Tool. 5. In the Test Tool, accept the message. 6. Verify the pass criteria below.
Pass Criteria	The SMIL part of the MM sent by Client A contains ixit_page_count pages and there is one image/gif object + one XHTML text file per page. And the SMIL content of the MM received from Client A is valid "MMS SMIL" as defined by the XML Schema for MMS SMIL.

5.1.3 MM Content Domain Independent Services

5.1.3.1 Postcard Service

5.1.3.1.1 Normal Flow

5.1.3.1.2 MMS-1.3-con-153 - Postcard vCard attachment to multiple recipients

Test Case Id	MMS-1.3-con-153
Test Object	Client A
Test Case Description	The purpose is to verify that a MM is correctly sent to multiple recipients using the MMS Postcard service when each recipient is identified by its own vCard attachments
Specification Reference	[MMSCONF] 17.1
SCR Reference	MMSCONF-PST-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-153
Preconditions	-Client A Support of Postcard Service
Test Procedure	1. In Client A, create two new Address Book entries containing only N, Version and ADR fields as in the reference contents "Postcard_John_Doe.vcf and Postcard_Jane_Doe.vcf" 2. In Client A, create a new postcard MM. 3. In MM header: To-field is set to Postcard service address 4. In MM content: add image file/object JPG640X480PC.jpg 5. Add vCard objects from the above mentioned address book entries 6. In Client A, send MM to the Test Tool. 7. In test Tool, accept the MM 8. Verify the pass criteria below.
Pass Criteria	Client A has sent a message and the test tool verifies that each of the vCard attachments contain ONLY N, Version and ADR.

5.1.3.1.3 MMS-1.3-con-154 - Postcard vCard attachment to multiple recipients with additional vCard properties

Test Case Id	MMS-1.3-con-154
Test Object	Client A
Test Case Description	The purpose is to verify that a MM is correctly sent to multiple recipients using the MMS Postcard service when each recipient is identified by its own vCard attachments
Specification Reference	[MMSCONF] 17.1
SCR Reference	MMSCONF-PST-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-154
Preconditions	-Client A Support of Postcard Service
Test Procedure	1. In Client A, create two new Address Book entries containing only N, Version and ADR fields as in the reference contents “John_Doe.vcf and Jane_Doe.vcf” 2. In Client A, create a new postcard MM. 3. In MM header: To-field is set to Postcard service address 4. In MM content: add image file/object JPG640X480PC.jpg 5. Add vCard objects from the above mentioned address book entries 6. In Client A, send MM to the Test Tool. 7. In test Tool, accept the MM 8. Verify the pass criteria below (a) or (b)
Pass Criteria	a) Client A is not allowing the user to send the MM (note: indicating to the user the reason why it can not send the MM) b) Client A sends a message and the test tool verifies that each of the vCard attachments contain ONLY N, Version and ADR.

5.1.3.1.4 MMS-1.3-con-155 - Postcard X-MMS-GREETINGTEXT

Test Case Id	MMS-1.3-con-155
Test Object	Client A
Test Case Description	The purpose is to verify that in a postcard message the X-MMS-GREETINGTEXT field is used correctly.
Specification Reference	[MMSCONF] 17.2
SCR Reference	MMSCONF-PST-C-004
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-xxx
Preconditions	-Client A Support of Postcard Service
Test Procedure	1. In Client A, create new Address Book entry containing only N, Version and ADR fields as in the reference content "Postcard_John_Doe.vcf " 2. In Client A, create a new MM. 3. In MM header: To-field is set to Postcard service address 4. In MM content: add image file/object JPG640X480PC.jpg 5. Add vCard object from the above mentioned address book entry 6. Edit a greeting text "Greetings from OMA" 7. In Client A, send MM to the Test Tool 8. In test Tool, accept the MM 9. Verify the pass criteria below.
Pass Criteria	Client A has sent a message.and the test tool verifies that the X-MMS-GREETINGTEXT header field is set to "Greetings from OMA"

5.1.3.1.5 Error Flow

5.1.3.1.6 MMS-1.3-con-156 - Postcard vCard attachment with ADR field empty

Test Case Id	MMS-1.3-con-156
Test Object	Client A
Test Case Description	The purpose is to verify that the MMS client does not allow the user to send a MM to a postcard service if the fields N and/or Address are empty.
Specification Reference	[MMSCONF] 17.1
SCR Reference	MMSCONF-PST-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-155
Preconditions	-Client A Support of Postcard Service
Test Procedure	1. In Client A, create new Address Book entry containing only N, and Version fields as in the reference content “EmptyADRfield.vcf ” 2. In Client A, create a new postcard MM. 3. In MM header: To-field is set to Postcard service address 4. In MM content: add image file/object JPG640X480PC.jpg 5. Try to add vCard object from the above created address book entry 6. Verify the pass criteria below.
Pass Criteria	Client A identifies that it is a Postcard service address and does not allow the user to send a MM to the postcard service if one of the fields N and/or Address is empty (note: the terminal should warn the user that one of the fields required of the intended recipient is empty)

5.2 CLIENT RECEIVING

5.2.1 General

5.2.1.1 Preconditions

The client under test is set to immediate retrieval mode unless this feature is not supported, in this case the deferred retrieval mode is utilized.

The MM sent from the Test Tool to Client B in the Test Cases in this section are predefined and stored in the Test Tool, all messages share a common structure, while particular variants are created for the different test cases. The following table shows the common structure. Under each test case, the differences from this structure are specified.

5.2.1.2 Generic MM

MM Content:	HTTP Headers:	Content-Type:	"application/vnd.wap.mms-message"
		Accept:	*/*
		Cache-Control:	"no-cache"
		Accept-Charset:	"*"
	MMS Headers:	X-Mms-Message-Type:	m-retrieve-conf
		X-Mms-Transaction-ID :	<new ID>
		X-Mms-Version:	1.3
		Date	<current date>
		From	<any legal value>*
		Content-Type	application/vnd.wap.multipart.related
	MMS Content:	Multipart structure with the following sections (order is significant): – SMIL: default layout with 1 slide, portrait oriented, Image on top and text below. 50% image, 50% text. – none	

Not all phones may support anonymous messages. A legal value is added to avoid testing the anonymous feature.

5.2.2 Message Structure and Handling

5.2.2.1 Presentation

5.2.2.1.1 MMS-1.3-con-201 - Empty text file

Test Case Id	MMS-1.3-con-201
Test Object	Client B
Test Case Description	The purpose is to verify that a message with subject and empty content is correctly received by Client B and that the received message is reasonably presented, with no error. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	MMSENC Table 3, Table 5
SCR Reference	MMSE-C-046, MMSE-C-067, MMSCTR-FTC-C-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-201
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	An empty text file	

5.2.2.1.2 MMS-1.3-con-202 - SMIL layout portrait with text above the image

Test Case Id	MMS-1.3-con-202
Test Object	Client B
Test Case Description	The purpose is to verify that messages with SMIL layouts, here portrait with text above the image, is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-202
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message. A layout is used and both image and text objects are reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: default layout with 1 slide, portrait oriented, Text on top and Image below. 50% image, 50% text. – Text object: Generic_Text.txt – Image object JPG80x60.jpg	

5.2.2.1.3 MMS-1.3-con-203 - SMIL layout portrait with text below the image

Test Case Id	MMS-1.3-con-203
Test Object	Client B
Test Case Description	The purpose is to verify that messages with SMIL layouts, here portrait with text below the image, is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-203
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message. A layout is used and both image and text objects are reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: no change – Text object: Generic_Text.txt – Image object JPG80x60.jpg	

5.2.2.1.4 MMS-1.3-con-204 - SMIL layout landscape with text to the left of the image

Test Case Id	MMS-1.3-con-204
Test Object	Client B
Test Case Description	The purpose is to verify that messages with SMIL layouts, here landscape with text to the left of the image, is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-204
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message. A layout is used and both image and text objects are reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: default layout with 1 slide, landscape oriented, Text to the left and Image to the right. 50% image, 50% text. – Text object: Generic_Text.txt – Image object JPG80x60.jpg	

5.2.2.1.5 MMS-1.3-con-205 - SMIL layout landscape with text to the right of the image

Test Case Id	MMS-1.3-con-205
Test Object	Client B
Test Case Description	The purpose is to verify that messages with SMIL layouts, here landscape with text to the right of the image, is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 8
SCR Reference	MMSCONF-MED-C-025
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-205
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message. A layout is used and both image and text objects are reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: default layout with 1 slide, landscape oriented, Image to the left and Text to the right. 50% image, 50% text. – Text object: Generic_Text.txt – Image object JPG80x60.jpg	

5.2.2.1.6 MMS-1.3-con-206 - Multiple objects in same page

Test Case Id	MMS-1.3-con-206
Test Object	Client B
Test Case Description	The purpose is to verify that multiple objects (one image, one text and one audio file) are correctly received by Client B and that all contents of the received message are reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-206
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and all contents of the received message are reasonably presented in one page.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: add reference to Audio object – Text object: "Hello World" (ASCII encoded) – Image object: JPG80x60.jpg – Audio object: audio1NB.amr	

5.2.2.1.7 MMS-1.3-con-207 - Multiple pages

Test Case Id	MMS-1.3-con-207
Test Object	Client B
Test Case Description	The purpose is to verify that multiple pages are correctly received by Client B and that all pages are reasonably presented in the correct order. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-207
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and all pages are reasonably presented in the correct order.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To <address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: add 9 more pages with same layout – Image object GIF1.gif – Image object GIF2.gif – Image object GIF3.gif – Image object GIF4.gif – Image object GIF5.gif – Image object GIF6.gif – Image object GIF7.gif – Image object GIF8.gif – Image object GIF9.gif – Image object GIF10.gif

5.2.2.1.8 MMS-1.3-con-208 - Multiple pages with page timing and time dependent content

Test Case Id	MMS-1.3-con-208
Test Object	Client B
Test Case Description	The purpose is to verify that multiple pages and objects with page timing are correctly received by Client B and that all pages and objects are reasonably presented in the correct order. The timing of the pages follows the specified values or client default values. Note: Since the last page of a SMIL presentation can be shown indefinitely on a client until further actions, a dummy last page is added to the MM so that the period of time that page 3 is displayed can be determined. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-208
Preconditions	-Client B Capability: Client supports ics_page_timing_retrieval
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and pages 1-3 and their associated objects are reasonably presented in the correct order. The timing of pages 1-3 follows the specified values.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: add 2 more pages with same layout. – Page 1 contains Generic_Text.txt, JPG-80x60.jpg and timing is 3 seconds. – Page 2 contains Text_us-ascii.txt, GIF_80x60.gif and timing is 5 seconds. – Page 3 contains Generic_Text.txt, WBMP_80x60.wbmp, audio3NB.amr and timing is 5 seconds – Page 4 contains Image file JPG_80x60.jpg and timing is set to 5 seconds. – Text object Generic_Text.txt – Image object JPG-80x60.jpg – Text object Text_us-ascii.txt – Image object GIF80x60.gif	

- Image object WBMP80x60.wbmp
- Audio object audio3NB.amr
- Image object JPG80x60.jpg

5.2.2.1.9 MMS-1.3-con-209 - Multiple pages with page timing

Test Case Id	MMS-1.3-con-209
Test Object	Client B
Test Case Description	The purpose is to verify that messages with different SMIL page timing can be received and reasonably presented. This message contains 4 different pages and page times: - Page 1 with page timing 100 ms - Page 2 with 5 seconds page timing. - Page 3 with page time 20 seconds - Page 4 with 5 seconds page timing. Note: Since the last page of a SMIL presentation can be shown indefinitely on a client until further actions, this fourth page is only used to permit the period of time that page 3 is displayed to be determined. It is then possible to verify that the timing of page 3 received by Client B is the same that was sent. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.7
SCR Reference	MMSCONF-MED-C-023
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-209
Preconditions	--Client B Capability: Client supports ics_page_timing_retrieval
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and pages 1, 2 and 3 of the received message are reasonably presented. The timing of pages 1, 2 and 3 follows the specified values (100ms or ixit_min_page_time if bigger than 100ms, 5secs and 20 secs or ixit_max_page_time if smaller than 20 secs).

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: add 3 more pages with same layout. Page 1 contains “Page 1”, and timing is 100 milliseconds or ixit_min_page_time. Page 2 contains Image file JPG-80x60.jpg and timing is 5 seconds. Page 3 contains “Page 3”, and timing is 20 seconds or ixit_max_page_time. Page 4 contains Image file JPG_80x60.jpg and timing is set to 5 seconds. – Text object “Page 1” (ASCII encoding) – Image object JPG80x60.jpg – Text object “Page 3” (ASCII encoding)	

5.2.2.1.10 MMS-1.3-con-276 - Support of 3GPP PSS6 SMIL Language Profile – Attributes and values supported

Test Case Id	MMS-1.3-con-276
Test Object	Client B
Test Case Description	The purpose is to verify that a client is able to recognise a presentation part of PSS SMIL Profile as a valid document and is able to handle it correctly.
Specification Reference	[MMSCONF] 7.1.8
SCR Reference	MMSCONF-MED-C-044
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-276
Preconditions	-Client B Supports 3GPP PSS6 SMIL Language Profile
Test Procedure	1. In test tool, send Reference content "PSS SMIL1.smil" conforming to 3GPP PSS6 SMIL Language Profile and Heading_Elements.xhtml referenced in the SMIL file to client B 2. In Client B, receive and open the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B is able to present the message reasonably

5.2.2.1.11 MMS-1.3-con-277 - Support of 3GPP PSS6 SMIL Language Profile – Attributes and/or Values not supported

Test Case Id	MMS-1.3-con-277
Test Object	Client B
Test Case Description	The purpose is to verify that attributes and/or values outside PSS6 SMIL are correctly ignored by client B and the other SMIL attributes are correctly presented
Specification Reference	[MMSCONF] 4.1, 8.1, 11.1
SCR Reference	MMSCONF-MED-C-028
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-277
Preconditions	-Client B Supports 3GPP PSS6 SMIL Language Profile
Test Procedure	1. In test tool, send Reference content (Set Reference content here) containing attributes outside 3GPP PSS6 SMIL Language Profile to client B 2. In Client B, receive and open the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B is able to present the message reasonably ignoring the attributes and values it does not understand

5.2.2.1.12 MMS-1.3-con-278 – Hyperlinks - Recognition

Test Case Id	MMS-1.3-con-278
Test Object	Client B
Test Case Description	The purpose is to verify that the terminal is able to recognize a hyperlink sent within a MM.
Specification Reference	[MMSCONF] Chapter 8.2
SCR Reference	MMSCONF-MED-C-040 MMSCONF-MED-C-042
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-278
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass-Criteria	Client B has received the message and the received message as displayed contains a hyperlink which is accessible by the user to open the browser.

MM Content specific to this Test Case.

MM Content: MMS Headers: To <address of Client B>

MMS Content:
- SMIL: no change
- hyperlink.txt

5.2.2.1.13 MMS-1.3-con-279 – Hyperlinks - No impact on presentation

Test Case Id	MMS-1.3-con-279
Test Object	Client B
Test Case Description	The purpose is to verify that a SMIL message received in a terminal will not be stopped due to the hyperlink within the MM.
Specification Reference	[MMSCONF] Chapter 8.2
SCR Reference	MMSCONF-MED-C-041
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-279
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass-Criteria	Client B has received the SMIL message and the presentation is not stopped due to the hyperlink within the MM.

MM Content specific to this Test Case.

MM Content:

MMS Headers: To <address of Client B>

MMS Content: Multipart structure with the following sections:

- Page 1 contains Generic_Text.txt, JPG80x60.jpg and timing is 3 seconds.
- Page 2 contains GIF80x60.gif, hyperlink (http://www.openmobilealliance.org) and timing is 5 seconds.
- Page 3 contains Generic_Text.txt, WBMP80x60.wbmp, audio3NB.amr and timing is 5 seconds

5.2.2.1.14 MMS-1.3-con-280 – Hyperlinks - Not followed automatically

Test Case Id	MMS-1.3-con-280
Test Object	Client B
Test Case Description	The purpose is to verify that a hyperlink sent within a MM will not be opened automatically while the MM is presented.
Specification Reference	[MMSCONF] Chapter 8.2
SCR Reference	MMSCONF-MED-C-043
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-280
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass-Criteria	Client B has received the message and the received message as displayed contains a hyperlink which is not accessed automatically.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To <address of Client B>
	MMS Content:	– SMIL: no change – hyperlink.txt

5.2.2.2 Header Field Handling

5.2.2.2.1 MMS-1.3-con-210 - Long Content-Location field

Test Case Id	MMS-1.3-con-210
Test Object	Client B
Test Case Description	The purpose is to verify that a message, where the SMIL part references an object using a long Content-Location field, is correctly received by Client B and that the image is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapters 10.2.2, 10.2.4
SCR Reference	MMSCONF- GEN-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-210
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the image is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: The image reference (“src” attribute value) is set to the same long file name string used for the gif image below. – Image object part: The Content-Location field of the MIME multipart header is set to : Long_file_name_for_gif_image_60X80_with_non_ASCII_characters_ooo_Length_is_93_characters.gif	

5.2.2.2.2 MMS-1.3-con-211 - Subject field with UTF8 encoding

Test Case Id	MMS-1.3-con-211
Test Object	Client B
Test Case Description	The purpose is to verify that a subject field encoded in UTF-8 is correctly received by Client B and that the message subject displayed is textually correct. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	MMSENC Table 1,Table 3, Table 5
SCR Reference	MMSE-C-025, MMSE-C-046, MMSE-C-067
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-211
Preconditions	-Client B Capability Subject field UTF-8 encoding
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve and display the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the message subject associated with the MM itself (not the MM notification) when displayed is textually correct.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
		Subject	Character string as given in reference content file “Short_Text_UTF-8.txt in UTF-8 encoding without BOM (UTF-8 signature mark).
	MMS Content:	– SMIL: no change – Text Object:	“Hello World” (ASCII encoded)

5.2.2.2.3 MMS-1.3-con-271 - Long Subject field

Test Case Id	MMS-1.3-con-271
Test Object	Client B
Test Case Description	The purpose is to verify that a maximum length subject field is correctly received and displayed by Client B in both the M-Notification.ind PDU and the M-Retrieve.conf PDU. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 10.2.5
SCR Reference	MMSCONF- GEN-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-271
Preconditions	-Client B
Test Procedure	1. Set retrieval mode to deferred in client B 2. In Test Tool, send notification for an MM to Client B. 3. In Client B receive MM notification and if applicable display Subject field and verify section a. of pass criteria. 4. In Client B, initiate download of MM, receive and open the MM. 5. Verify section b. of the pass criteria below.
Pass Criteria	a. Client B has received the MM notification and if applicable the subject associated with the MM notification when displayed is textually correct. b. Client B has received and opened the MM and the message subject associated with the MM itself when displayed is textually correct.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
		Subject	“abcdefghijklmnopqrstuvwxyz0123456789/-+@” in us-ascii encoding
	MMS Content:	– SMIL: no change	
		– Text Object:	“Hello World” (ASCII encoded)

5.2.2.2.4 MMS-1.3-con-272 - Long X-Mms-Content-Location field in Notification

Test Case Id	MMS-1.3-con-272
Test Object	Client B
Test Case Description	The purpose is to verify that a multimedia message, where the X-Mms-Content-Location field in the M-Notification-ind PDU has a length equal to the maximum permitted value, is correctly received by Client B and that the MM is reasonably presented. Verification is done by sending a Notification PDU from a Test Tool to Client B and then observe how the multimedia message is retrieved and presented.
Specification Reference	[MMSCONF] Chapter 10.2.5
SCR Reference	MMSCONF- GEN-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-272
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has retrieved the multimedia message and it is reasonably presented.

MMS PDU Content specific to this Test Case.

M-Notification-ind	MMS Headers:	X-Mms-Content-Location	A URI format text string having a length of 100 characters. The URI value itself will be Test Tool dependent, but the length must be 100 characters in total.

5.2.2.2.5 MMS-1.3-con-273 - Size Indication in Notification – Non-rejection of incoming MM

Test Case Id	MMS-1.3-con-273
Test Object	Client B
Test Case Description	The purpose is to verify that the recipient client does not reject an incoming multimedia message based on the message size indicated in the MM notification
Specification Reference	[MMSCONF] Chapter 9.4.1
SCR Reference	MMSCONF-CAD-C-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-273
Preconditions	-Client B Capability retrieval mode set to immediate
Test Procedure	1. The test tool sends the notification of the message to Client B and the indicated message size is ixit_max_msg_size_recv + 20kB. 2. Client B starts the retrieval of the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the notification of the message and is able to initiate the retrieval, despite the message size indicated in the MM notification.

5.2.2.2.6 MMS-1.3-con-281- Receive unrecognised header field

Test Case Id	MMS-1.3-con-281
Test Object	Client B
Test Case Description	The purpose is to verify that a message with an unrecognised field in the MMS header, is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMS-ENC] Chapter 6.14.2
SCR Reference	MMSE-C-REC-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-281
Preconditions	- Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message. The MMS message is reasonably presented.

MM Content specific to this Test Case.

MM Content for M-retrieve.conf PDU:

MM Content:	MMS Headers:	To:	<address of Client B>
		X-MMS-Unrecognised-Header-Field:	Yes
		Note: the field "X-MMS-Unrecognised-Header-Field" is encoded in textual encoding as per section 7.1 of OMA-TS-MMS-ENC-V1_3-2005XXXX, in order to permit sending of this undefined field.	
	MMS Content:	Multipart structure with the following sections: – Text object: Generic_Text.txt – Image object JPG80x60.jpg	

5.2.2.2.7 MMS-1.3-con-282- Receive recognised fields with unrecognised values

Test Case Id	MMS-1.3-con-282
Test Object	Client B
Test Case Description	The purpose is to verify that a message with a recognised field but with an unrecognised value is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMS-ENC] Chapter 6.14.2
SCR Reference	MMSE-C-REC-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-282
Preconditions	- Client B
Test Procedure	1. In Test Tool, sends MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message. MMS message is reasonably presented.

MM Content specific to this Test Case.

MM Content for M-Notification.ind PDU

MM Content:	MMS Headers:	To	<address of Client B>
		X-Mms-Message-Class:	NewMessageClass
		Note: the X-Mms-Message-Class field is encoded using Token-text encoding as per section 7.3.27 of OMA-TS-MMS- ENC-V1_3-2005XXXX, in order to permit sending of the new value "NewMessageClass".	

MM Content for M-retrieve.conf PDU:

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – Text object: Generic_Text.txt – Image object JPG80x60.jpg	

5.2.2.3 Malformed Content Handling

5.2.2.3.1 MMS-1.3-con-274 - Corrupted Content

Test Case Id	MMS-1.3-con-274
Test Object	Client B
Test Case Description	The purpose is to verify that if the MMS Client receives an MM that contains corrupted content, the MMS Client is able to present the rest of the content that is not corrupted
Specification Reference	[MMSCONF] 10.3
SCR Reference	MMSCONF-GEN-C-004
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-274
Preconditions	-Client B supports MM content class
Test Procedure	1. In test tool, create MM with corrupted image content file/object oma_logo_corrupted.gif 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. Verify the pass criteria below.
Pass Criteria	Client B is able to continue functioning properly (note: present the rest of the content that is not corrupted (note: Client B could present the rest of the content that is not corrupted and an icon, a warning or a message to the user indicating that there is some corrupted content in the MM)

5.2.2.3.2 MMS-1.3-con-275 - Content not supported by Client B (e.g. PDF content)

Test Case Id	MMS-1.3-con-275
Test Object	Client B
Test Case Description	The purpose is to verify that if the MMS Client receives a MM that contains content not supported by Client B (e.g. PDF content), then the MMS Client is able to present the rest of the content that Client B supports
Specification Reference	[MMSCONF] 10.3
SCR Reference	MMSCONF-GEN-C-004
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-275
Preconditions	-Client B does NOT support PDF content
Test Procedure	1. In test tool, create MM with PDF content file/object oma_logo_pdf.pdf 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. Verify the pass criteria below.
Pass Criteria	Client B is able to continue functioning properly (note: Client B could present a warning or a message to the user indicating that there is some content in the MM not supported by the terminal)

5.2.3 Core MM Content Domain

5.2.3.1 Text

5.2.3.1.1 MMS-1.3-con-212 - Text with US-ASCII encoding

Test Case Id	MMS-1.3-con-212
Test Object	Client B
Test Case Description	The purpose is to verify that a text object with US-ASCII encoding is correctly received by Client B and that the received message as displayed is textually correct. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.8
SCR Reference	MMSCONF-MED-C-002, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-212
Preconditions	--Client B
Test Procedure	4. In Test Tool, send MM notification to Client B. 5. In Client B, receive the MM notification and retrieve the MM. 6. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message as displayed is textually correct.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
		Content-Type	application/vnd.wap.multipart.mixed
	MMS Content:	– SMIL:	not present
		– Text Object:	Text_us-ascii.txt

5.2.3.1.2 MMS-1.3-con-213 - Text with UTF-8 encoding

Test Case Id	MMS-1.3-con-213
Test Object	Client B
Test Case Description	The purpose is to verify that a text object with UTF-8 encoding is correctly received by Client B and that the received message as displayed is textually correct. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.8
SCR Reference	MMSCONF-MED-C-003, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-213
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message as displayed is textually correct.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
		Content-Type	application/vnd.wap.multipart.mixed
	MMS Content:	– SMIL:	not present
		– Text Object:	Text_UTF-8.txt

5.2.3.1.3 MMS-1.3-con-214 - Text with UTF-16(LE) encoding

Test Case Id	MMS-1.3-con-214
Test Object	Client B
Test Case Description	The purpose is to verify that a text object with UTF-16 “little-endian” encoding and with an explicit Byte Order Mark is correctly received by Client B and that the received message as displayed is textually correct. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.8
SCR Reference	MMSCONF-MED-C-004, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-214
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message as displayed is textually correct.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
		Content-Type	application/vnd.wap.multipart.mixed
	MMS Content:	– SMIL:	not present
		– Text Object:	Text_UTF-16.txt
			- Content-Type: text/plain; charset=utf-16
			- (Transmitted byte order is little-endian and the Byte Order Mark is included in the transmitted text)

5.2.3.2 Image

5.2.3.2.1 MMS-1.3-con-216 - JPG Image size 160x120

Test Case Id	MMS-1.3-con-216
Test Object	Client B
Test Case Description	The purpose is to verify that a JPG image of the size 160x120 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-007, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-216
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: JPG160x120.jpg	

5.2.3.2.2 MMS-1.3-con-218 - JPG Image size 640x480

Test Case Id	MMS-1.3-con-218
Test Object	Client B
Test Case Description	The purpose is to verify that a JPG image of the size 640x480 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7, 7.1.1
SCR Reference	MMSCONF-MED-C-007, MMSCONF-IRC-C-003, MMSCONF-IRC-C-004, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-218
Preconditions	--Client B - Supports content class greater than Image Basic class.
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: JPG640x480.jpg	

5.2.3.2.3 MMS-1.3-con-220 - GIF Image size 160x120

Test Case Id	MMS-1.3-con-220
Test Object	Client B
Test Case Description	The purpose is to verify that a GIF87a image of the size 160x120 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-009, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-220
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: GIF160x120.gif	

5.2.3.2.4 MMS-1.3-con-222 - GIF Image size 640x480

Test Case Id	MMS-1.3-con-222
Test Object	Client B
Test Case Description	The purpose is to verify that a GIF87a image of the size 640x480 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7, 7.1.1
SCR Reference	MMSCONF-MED-C-009, MMSCONF-IRC-C-003, MMSCONF-IRC-C-004, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-222
Preconditions	-Client B - Supports content class greater than Image Basic class.
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: GIF640x480.gif	

5.2.3.2.5 MMS-1.3-con-224 - Animated GIF Image size 160x120

Test Case Id	MMS-1.3-con-224
Test Object	Client B
Test Case Description	The purpose is to verify that an animated GIF89a image of the size 160x120 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-010, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-224
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: AnimatedGIF89a160x120.gif	

5.2.3.2.6 MMS-1.3-con-226 - Animated GIF Image size 640x480

Test Case Id	MMS-1.3-con-226
Test Object	Client B
Test Case Description	The purpose is to verify that an animated GIF89a image of the size 640x480 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7, 7.1.1
SCR Reference	MMSCONF-MED-C-010, MMSCONF-IRC-C-003, MMSCONF-IRC-C-004, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-226
Preconditions	-Client B - Supports content class greater than Image Basic class.
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: AnimatedGIFa640x480.gif	

5.2.3.2.7 MMS-1.3-con-228 - WBMP Image size 160x120

Test Case Id	MMS-1.3-con-228
Test Object	Client B
Test Case Description	The purpose is to verify that a WBMP image of the size 160x120 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-011, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-228
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: WBMP160x120.wbmp	

5.2.3.2.8 MMS-1.3-con-230 - WBMP Image size 640x480

Test Case Id	MMS-1.3-con-230
Test Object	Client B
Test Case Description	The purpose is to verify that a WBMP image of the size 640x480 is correctly received by Client B and that the received message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7, 7.1.1
SCR Reference	MMSCONF-MED-C-011, MMSCONF-IRC-C-003, MMSCONF-IRC-C-004, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-230
Preconditions	-Client B - Supports content class greater than Image Basic class.
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the received message is reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: no change – Image Object: WBMP640x480.wbmp	

5.2.3.2.9 MMS-1.3-con-254 - Support of EXIF compressed image file format as JPEG interchange format

Test Case Id	MMS-1.3-con-254
Test Object	Client B
Test Case Description	The purpose is to verify that Client B fully supports the retrieval and presentation of an MM with an EXIF compressed image file format as JPEG interchange format. Verification is done by sending the message from a test tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.1
SCR Reference	MMSCONF-MED-C-033
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-254
Preconditions	
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the image is reasonably presented.

MM Content specific to this Test Case:

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: add 1 pages with same layout – Image object-jpeg-EXIF.jpeg – Text_us-ascii.txt	

5.2.3.2.10 MMS-1.3-con-256 - Receiving MM with JPEG and Huffman table

Test Case Id	MMS-1.3-con-256
Test Object	Client B
Test Case Description	The purpose is to verify that Client B fully supports the retrieval and presentation of an MM with an JPEG including the following Huffman tables: • 1 AC Luminance Table • 1 DC Luminance Table • 1 AC Chrominance Table • 1 DC Chrominance Table Verification is done by sending the message from a test tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.1
SCR Reference	
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-256
Preconditions	--Client B Support of JPEG with Huffman table
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and both images are reasonably presented.

MM Content specific to this Test Case:

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections:	
		– SMIL:	add 2 pages with same layout
		– Image page 1:	JPG80X60-1DHTMarker.jpg
		– Text page 1 :	"Jpeg image with 1 DHT marker"
		– Image page 2 :	JPG80X60-4DHTMarkers.jpg
		– Text page 2 :	"Jpeg image with 4 DHT markers"

5.2.3.3 Audio

5.2.3.3.1 MMS-1.3-con-231 - AMR audio NB

Test Case Ids	MMS-1.3-con-231
Test Object	Client B
Test Case Description	The purpose is to verify that an AMR audio NB object/content is correctly received by Client B and that the AMR audio NB file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-013, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-231
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the AMR audio NB file/object is reasonably presented and AMR audioNB is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL:	add reference to audio object
		– Audio Object:	audio1NB.amr

5.2.3.3.2 MMS-1.3-con-232 – 3GPP2 13k speech

Test Case Id	MMS-1.3-con-232
Test Object	Client B
Test Case Description	The purpose is to verify that a 13k speech object/content is correctly received by Client B and that the 13k speech file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-014, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the 13k speech file/object is reasonably presented and 13k speech is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to audio object – Audio Object: audio1.qcp	

5.2.3.4 Video

5.2.3.4.1 MMS-1.3-con-233 - 3GPP Video QCIF

Test Case Id	MMS-1.3-con-233
Test Object	Client B
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly received by Client B and that the QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-233
Preconditions	-Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the QCIF video file/object is reasonably presented and the QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: qcif_video.3gpp	

5.2.3.4.2 MMS-1.3-con-234 - 3GPP Video sub-QCIF

Test Case Id	MMS-1.3-con-234
Test Object	Client B
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly received by Client B and that the sub-QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-234
Preconditions	--Client B
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the sub-QCIF video file/object is reasonably presented and sub-QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: sub_qcif_video.3gpp	

5.2.3.4.3 MMS-1.3-con-235 - 3GPP2 Video QCIF (MPEG4+13k)

Test Case Id	MMS-1.3-con-235
Test Object	Client B
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly received by Client B and that the QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports MPEG4 and 13k
Test Procedure	1. In Test Tool, send MM notification to Client B 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the QCIF video file/object is reasonably presented and QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: mp4_13k_qcif.3g2	

5.2.3.4.4 MMS-1.3-con-236 - 3GPP2 Video QCIF (MPEG4+AMR)

Test Case Id	MMS-1.3-con-236
Test Object	Client B
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly received by Client B and that the QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports MPEG4 and AMR
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the QCIF video file/object is reasonably presented and QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: mp4_amr_qcif.3g2	

5.2.3.4.5 MMS-1.3-con-237 - 3GPP2 Video QCIF (H.263+13k)

Test Case Id	MMS-1.3-con-237
Test Object	Client B
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly received by Client B and that the QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports H.263 and 13k
Test Procedure	1. In Test Tool, send MM notification to Client B 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the QCIF video file/object is reasonably presented and QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: h263_13k_qcif.3g2	

5.2.3.4.6 MMS-1.3-con-238 - 3GPP2 Video QCIF (H.263+AMR)

Test Case Id	MMS-1.3-con-238
Test Object	Client B
Test Case Description	The purpose is to verify that a QCIF video file/object is correctly received by Client B and that the QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports H.263 and AMR
Test Procedure	1. In Test Tool, send MM notification to Client B 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the QCIF video file/object is reasonably presented and QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: h263_amr_qcif.3g2	

5.2.3.4.7 MMS-1.3-con-239 - 3GPP2 Video sub-QCIF (MPEG4 +13k)

Test Case Id	MMS-1.3-con-239
Test Object	Client B
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly received by Client B and that the sub-QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports MPEG4 and 13k
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the sub-QCIF video file/object is reasonably presented and sub-QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: mp4_13k_sqcif.3g2	

5.2.3.4.8 MMS-1.3-con-240 - 3GPP2 Video sub-QCIF (MPEG4 +AMR)

Test Case Id	MMS-1.3-con-240
Test Object	Client B
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly received by Client B and that the sub-QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports MPEG4 and AMR
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the sub-QCIF video file/object is reasonably presented and sub-QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: (mp4_amr_sqcif.3g2	

5.2.3.4.9 MMS-1.3-con-241 - 3GPP2 Video sub-QCIF (H.263 +13k)

Test Case Id	MMS-1.3-con-241
Test Object	Client B
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly received by Client B and that the sub-QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports H.263 and 13k
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the sub-QCIF video file/object is reasonably presented and sub-QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: h263_13k_sqcif.3g2	

5.2.3.4.10 MMS-1.3-con-242 - 3GPP2 Video sub-QCIF (H.263 +AMR)

Test Case Id	MMS-1.3-con-242
Test Object	Client B
Test Case Description	The purpose is to verify that a sub-QCIF video file/object is correctly received by Client B and that the sub-QCIF video file/object is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-MED-C-020, MMSE-C-072
Tool	None
Test Code	None
Preconditions	-Client B Capability supports H.263 and AMR
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the sub-QCIF video file/object is reasonably presented and sub-QCIF video file/object is played in its entirety.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– SMIL: add reference to video object – Video Object: h263_amr_sqcif.3g2	

5.2.3.5 Attachment

5.2.3.5.1 MMS-1.3-con-243 - vCard

Test Case Id	MMS-1.3-con-243
Test Object	Client B
Test Case Description	The purpose is to verify that a vCard MIP object can be correctly received by Client B and that the received vCard as displayed is textually correct. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.3
SCR Reference	MMSCONF-MED-C-016, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-243
Preconditions	--Client B Capability: vCard 2.1 MIP
Test Procedure	1. In Test Tool, send two MM notifications to Client B. 2. In Client B, receive the MM notifications and retrieve MM#1 and MM#2. 3. Verify the pass criteria below.
Pass Criteria	Client B has received and parsed both messages. Client B has registered the supported properties from the messages. If ixit mms version equals "1.3" the registered vCard entry derived from each of the messages shall contain fields which correspond to the following message properties and the fields are textually correct: • N (Name) property field • Three EMAIL property fields • Three TEL property fields.

Message #1

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– Content Type: application/vnd.wap.multipart.mixed – Reference to vCard object – vCard Object: John_Doe.vcf	

Message #2

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– Content Type: application/vnd.wap.multipart.related – Reference to vCard object – vCard Object: Jane_Doe.vcf	

5.2.3.5.2 MMS-1.3-con-244 - vCalendar

Test Case Id	MMS-1.3-con-244
Test Object	Client B
Test Case Description	The purpose is to verify that vCalendar MIP objects can be correctly received by Client B and that the received vCalendar objects as displayed are textually correct. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.3
SCR Reference	MMSCONF-MED-C-027, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-244
Preconditions	--Client B Capability: vCalendar 1.0 MIP
Test Procedure	1. In Test Tool, send two MM notifications to Client B. 2. In Client B, receive the MM notification and retrieve MM#1 and MM#2. 3. Verify the pass criteria below.
Pass Criteria	Client B has received and parsed both messages. Client B has registered the supported properties from the messages.

Message #1

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– Content Type: application/vnd.wap.multipart.mixed – Reference to vCalendar object – vCalendar Object:	Christmas.vcs

Message #2

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	– Content Type: application/vnd.wap.multipart.related – reference to vCalendar object – vCalendar Object:	WrapPresents.vcs

5.2.3.6 Megapixel

5.2.3.6.1 MMS-1.3-con-245 - Full conformance to mega pixel class – retrieval and presentation of single page

Test Case Id	MMS-1.3-con-245
Test Object	Client B
Test Case Description	The purpose is to verify that Client B is compliant to "Full conformance to mega pixel class" in retrieval and presentation. Verification is done by sending the message from a test tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 12.1
SCR Reference	MMSCONF-CCC-C-017 MMSCONF-MPC-C-003 MMSCONF-MPC-C-004
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-245
Preconditions	
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the image is reasonably presented.

MM Content specific to this Test Case:

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	Multipart structure with the following sections:	
		– SMIL:	add 1 page with same layout
		– Image object:	JPG1200x1600-550kB.jpg
		– Text:	Rich-Text-module-text1.html

5.2.3.6.2 MMS-1.3-con-246 - Full conformance to mega pixel class – retrieval and presentation of multiple objects

Test Case Id	MMS-1.3-con-246
Test Object	Client B
Test Case Description	The purpose is to verify that Client B is compliant to "Full conformance to mega pixel class" in retrieval and presentation. Verification is done by sending the message from a test tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 12.1
SCR Reference	MMSCONF-CCC-C-017, MMSCONF-MPC-C-003, MMSCONF-MPC-C-004
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-246
Preconditions	
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the image is reasonably presented.

MM Content specific to this Test Case:

MM Content:	MMS Headers:	To <address of Client B>
	MMS Content:	Multipart structure with the following sections: – SMIL: add 9 pages with same layout – Image object-jpeg1-640x480-45kB.jpeg – Text Rich-Text-1.html – Image object-jpeg2-640x480-45kB.jpeg – Text Rich-Text-2.html – Image object-jpeg3-640x480-45kB.jpeg – Text Rich-Text-3.html – Image object-jpeg4-640x480-45kB.jpeg – Text Rich-Text-4.html – Image object-jpeg5-640x480-45kB.jpeg – Text Rich-Text-5.html – Image object-jpeg6-640x480-45kB.jpeg – Text Rich-Text-6.html – Image object-jpeg7-640x480-45kB.jpeg – Text Rich-Text-7.html – Image object-jpeg8-640x480-45kB.jpeg – Text Rich-Text-8.html – Image object-jpeg9-640x480-45kB.jpeg – Text Rich-Text-9.html

5.2.3.6.3 MMS-1.3-con-247 - Rich Text in megapixel content class

Test Case Id	MMS-1.3-con-247
Test Object	Client B
Test Case Description	The purpose is to verify that a MM belonging to the megapixel content class, containing the mandatory supported features of Rich Text, is correctly received by Client B and that the message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.9.2
SCR Reference	MMSCONF-RTX-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-247
Preconditions	--Client B Capability to receive megapixel class messages
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the Rich Text, image and voice content are reasonably presented.

MM Content specific to this Test Case.

MM Content: MMS Headers: To <address of Client B>

MMS Content: Multipart structure with the following sections:

- 1st SMIL page (15 sec)
  - Rich-Text-module-text1.html
  - audio1NB.amr
- 2nd SMIL page (15 sec)
  - Rich-Text-module-text2.html
  - audio1NB.amr
- 3rd SMIL page (15 sec)
  - Rich-Text-module-presentation-style.html
  - audio1NB.amr
- 4th SMIL page (15 sec)
  - Rich-Text-module-lists.html
  - JPG1600x1200.jpg
  - audio1NB.amr

5.2.3.6.4 MMS-1.3-con-248 - XHTML Family User Agent conformance

Test Case Id	MMS-1.3-con-248
Test Object	Client B
Test Case Description	The purpose is to verify that a Client B supporting the megapixel content class and XHTML Family User Agent conformance will process white space, unrecognised elements, unrecognised attributes and unrecognised entity references as required. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.9.2.1
SCR Reference	MMSCONF-RTX-C-005
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-248
Preconditions	--Client B Capability to receive megapixel class messages
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and the white space, unrecognised elements, unrecognised attributes and unrecognised entity references are presented as required by [XHTMLMod].

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To <address of Client B>
	MMS Content:	Multipart structure with the following sections: – 1st SMIL page (13 sec) o Rich-Text-XHTML-Family-UA.html o JPG1600x1200.jpg

5.2.4 Content MM Content Domain

5.2.4.1 Content Basic Content Class

5.2.4.1.1 MMS-1.3-con-250 – Retrieval and presentation of Content Basic content class

Test Case Id	MMS-1.3-con-250
Test Object	Client B
Test Case Description	The purpose is to verify that a MM belonging to the content basic class is correctly received by Client B and that the message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-CBC-C-001, MMSCONF-CBC-C-002, MMSCONF-RTX-C-006, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-250
Preconditions	--Client B Capability to receive content basic class messages
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and all pages with the content belonging to content basic class are reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To <address of Client B>
	MMS Content:	Multi-part structure with the following sections: – 1st SMIL page (4 sec) o Rich-text.html o JPG640x480.jpg – 2nd SMIL page (8 sec) o AnimatedGIF89a_640X480.gif o Text_UTF-8.txt o audio.mid – 3rd SMIL page (13 sec) o WBMP640x480.wbmp o Text_us-ascii.txt o audio1NB.amr

5.2.4.1.2 MMS-1.3-con-252 – Rich Text in Content Basic content class

Test Case Id	MMS-1.3-con-252
Test Object	Client B
Test Case Description	The purpose is to verify that a MM belonging to the content basic class, containing the mandatory supported features of Rich Text, is correctly received by Client B and that the message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.9.2
SCR Reference	MMSCONF-RTX-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-252
Preconditions	--Client B Capability to receive content basic class messages
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and all pages with the content belonging to content basic class are reasonably presented.

MM Content specific to this Test Case.

MM Content: MMS Headers: To <address of Client B>

MMS Content: Multipart structure with the following sections:

- 1st SMIL page (15 sec)
  - Rich-Text-module-text1.html
  - audio1NB.amr
- 2nd SMIL page (15 sec)
  - Rich-Text-module-text2.html
  - audio1NB.amr
- 3rd SMIL page (15 sec)
  - Rich-Text-module-presentation-style.html
  - audio1NB.amr
- 4th SMIL page (15 sec)
  - Rich-Text-module-lists.html
  - JPG640x480.jpg
  - audio1NB.amr

5.2.4.2 Content Rich Content Class

5.2.4.2.1 MMS-1.3-con-251 – Retrieval and presentation of Content Rich content class

Test Case Id	MMS-1.3-con-251
Test Object	Client B
Test Case Description	The purpose is to verify that a MM belonging to the content rich class is correctly received by Client B and that the message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7
SCR Reference	MMSCONF-CRC-C-001, MMSCONF-CRC-C-002 MMSCONF-RTX-C-006, MMSE-C-072
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-251
Preconditions	--Client B Capability to receive content rich class messages
Test Procedure	4. In Test Tool, send MM notification to Client B. 5. In Client B, receive the MM notification and retrieve the MM. 6. Verify the pass criteria below.
Pass Criteria	Client B has received the message and all pages with the content belonging to content rich class are reasonably presented.

MM Content specific to this Test Case.

MM Content: MMS Headers: To <address of Client B>

MMS Content: Multipart structure with the following sections:

- 1st SMIL page (4 sec)
  - Rich-text.html
  - JPG1600x1200.jpg
- 2nd SMIL page (8 sec)
  - oma_in_colour.svg
  - Text_UTF-8.txt
  - EnhancedAACplusAudio. 3gp
- 3rd SMIL page (13 sec)
  - VideoRich300k.3gp

5.2.4.2.2 MMS-1.3-con-253 – Rich Text in Content Rich content class

Test Case Id	MMS-1.3-con-253
Test Object	Client B
Test Case Description	The purpose is to verify that a MM belonging to the content rich class, containing the mandatory supported features of Rich Text, is correctly received by Client B and that the message is reasonably presented. Verification is done by sending the message from a Test Tool to Client B, and observe how the message is presented.
Specification Reference	[MMSCONF] Chapter 7.1.9.2
SCR Reference	MMSCONF-RTX-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-253
Preconditions	--Client B Capability to receive content rich class messages
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has received the message and all pages with the content belonging to content rich class are reasonably presented.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To <address of Client B>
	MMS Content:	Multipart structure with the following sections: – 1st SMIL page (15 sec) o Rich-Text-module-text1.html o EnhancedAACplusAudio.3gp – 2nd SMIL page (15 sec) o Rich-Text-module-text2.html – 3rd SMIL page (15 sec) o Rich-Text-module-presentation-style.html – 4th SMIL page (15 sec) o Rich-Text-module-lists.html o JPG1600x1200.jpg

5.3 CLIENT CREATION MODE

5.3.1 Content Creation

5.3.1.1 MMS-1.3-con-301 - Creation mode - Restricted - oversize

Test Case Id	MMS-1.3-con-301
Test Object	Client A
Test Case Description	The purpose is to verify that oversized content added to a message is refused in RESTRICTED mode in Client A and that the device is limited to the addition of allowable content within the core domain.
Specification Reference	[MMSCONF] Chapter 12
SCR Reference	MMSCONF-CMO-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-301
Preconditions	-Client A Setting: Creation Mode set to Restricted
Test Procedure	1. In client A, create a new MM. 2. In MM content: Add audio file/object 615k_AMR.amr to the message. 3. Verify the pass criteria below.
Pass Criteria	Client A is limited to the addition of allowable content within the core domain. The inclusion of the content is refused.

5.3.1.2 MMS-1.3-con-302 - Creation mode - Restricted - inclusion of non core domain content

Test Case Id	MMS-1.3-con-302
Test Object	Client A
Test Case Description	The purpose is to verify that content outside the core domain is prohibited when Client A is in RESTRICTED mode. Verification is done by attempting to add an arbitrary file, of a type not belonging to the core domain, but which is available in the terminal, to an MM and observe if this is possible or not
Specification Reference	[MMSCONF] Chapter 12
SCR Reference	MMSCONF-CMO-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-302
Preconditions	-Client A Setting: Creation Mode set to Restricted
Test Procedure	1. In client A, create a new MM. 2. In MM content: Try to add any one of the following files that does not belong to the core domain (song.wav, song.mp3, song.imy or image.png) to the message. 3. Verify the pass criteria below.
Pass Criteria	Client A is limited to the addition of allowable content within the CORE Domain. The inclusion of any one of the above content types is refused.

5.3.1.3 MMS-1.3-con-303 - Creation mode - Restricted - oversize image resolution

Test Case Id	MMS-1.3-con-303
Test Object	Client A
Test Case Description	The purpose is to verify that inclusion content with oversized image resolution not belonging to the core domain is prohibited when Client A is in RESTRICTED mode.
Specification Reference	[MMSCONF] Chapter 12
SCR Reference	MMSCONF-CMO-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-303
Preconditions	-Client A Setting: Creation Mode set to Restricted
Test Procedure	1. In client A, create a new MM. 2. In MM content: Add image file/object JPG1650x1238.jpg to the message. 3. In Client A, attempt to send the MM to Test Tool. 4. In the Test Tool, accept the message, if sent. 5. Verify the pass criteria below.
Pass Criteria	Client A is limited to the addition of allowable content within the CORE Domain or content is resized by client before sending it out. Either the inclusion of the content is refused or the content received in MM has been resized in the client before sending the MM.

5.3.1.4 MMS-1.3-con-304 - Creation mode - Restricted – forwarding oversize

Test Case Id	MMS-1.3-con-304
Test Object	Client A
Test Case Description	The purpose is to verify that an oversized message is refused to be forwarded when Client A is in RESTRICTED mode.
Specification Reference	[MMSCONF] Chapter 12
SCR Reference	MMSCONF-CMO-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-304
Preconditions	-Client A Setting: Creation Mode set to Restricted Capability: Maximum message size greater than 610k.
Test Procedure	1. From the test tool send an MM containing the media object 615k_AMR.amr to Client A so that the message size is larger than the maximum allowed in the core domain in RESTRICTED mode. 2. In Client A, receive the MM notification and retrieve the MM. 3. Client A: Try to forward this message. 4. Verify the pass criteria below.
Pass Criteria	Client A refuses to forward the message.

5.3.1.5 MMS-1.3-con-305 - Creation mode - Restricted – forwarding non conformant message

Test Case Id	MMS-1.3-con-305
Test Object	Client A
Test Case Description	The purpose is to verify that a non conformant message is refused to be forwarded when Client A is in RESTRICTED mode.
Specification Reference	[MMSCONF] Chapter 12
SCR Reference	MMSCONF-CMO-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-305
Preconditions	-Client A Setting: Creation Mode set to Restricted
Test Procedure	1. From the test tool send an MM to Client A with a message containing the image JPG1650X1238.jpg so that image resolution is greater than the maximum allowed in the core domain in RESTRICTED mode. 2. In Client A, receive the MM notification and retrieve the MM. 3. Client A: Try to forward this message 4. Verify the pass criteria below.
Pass Criteria	Client A refuses to forward the message.

5.3.1.6 MMS-1.3-con-306 - Creation mode - Restricted - forwarding non conformant content

Test Case Id	MMS-1.3-con-306
Test Object	Client A
Test Case Description	The purpose is to verify that a message containing non conformant content is refused to be forwarded when Client A is in RESTRICTED mode. Verification is done by sending an MM to Client A, with one or more arbitrarily selected content,files not belonging to the core domain, and observe if this MM is possible to forward or not.
Specification Reference	[MMSCONF] Chapter 12
SCR Reference	MMSCONF-CMO-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-306
Preconditions	-Client A Setting: Creation Mode set to Restricted
Test Procedure	1. From the test tool send an MM to Client A with a message containing content that is not allowed in the core domain (song.wav, song.mp3, Song.imy or image.png). 2. In Client A, receive the MM notification and retrieve the MM. 3. Client A: Try to forward this message. 4. Verify the pass criteria below.
Pass Criteria	Client A refuses to forward the message.

5.3.2 Content Adaptation

5.3.2.1 MMS-1.3-con-310 - Ability to reduce in size any image taken by the integrated camera to fit into an MM of the Core MM Content Domain

Test Case Id	MMS-1.3-con-310
Test Object	Client A
Test Case Description	The purpose of this test is to verify that the terminal is able to reduce in size the picture taken by the integrated camera such that it fits into a MM of the Core MM Content Domain.
Specification Reference	[MMSCONF] 9.5.1
SCR Reference	missing
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-310
Preconditions	-Client A camera integrated into the terminal maximum message size supported is lower than size of picture taken with highest resolution
Test Procedure	1. In Client A, take a picture with the camera integrated in the terminal with the highest resolution 2. In client A, send this picture to the test tool via MMS 3. Verify the pass criteria below
Pass Criteria	Test tool verifies that the image in the MM received is compliant with the Core MM Domain.

5.4 CLIENT TRANSACTION

5.4.1 Message Delivery Status Report

5.4.1.1 MMS-1.3-con-601 - Delivery report – Retrieved message

Test Case Id	MMS-1.3-con-601
Test Object	Client A
Test Case Description	The purpose is to verify that a message with a request for a delivery report is correctly sent from Client A and that the originator can receive a delivery report with the Retrieved status after successful message delivery. Verification is done by sending the message from Client A to a test tool, requesting a delivery report. The Test Tool will verify that the request is correct. Verification of the reception of the Delivery Report is done by sending a delivery report from a Test Tool back to Client A, and observe client behaviour upon reception
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1 [MMSCTR] Chapter 6.5
SCR Reference	MMSE-C-031, MMSCTR-DRP-C-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-601
Preconditions	-Client A Capability: Delivery report request
Test Procedure	1. In Client A, create a new MM. 2. In MM header: set Delivery Report Request-Field to ON. 3. In MM header: To-field is set to a legal address 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to Test Tool. 6. In test Tool, accept the MM and send Delivery Report back to Client A 7. Verify the pass criteria below.
Pass Criteria	Client A has sent a message with the correct request for Delivery Report. If Client A is able to display delivery report notification through the MMI, ensure that it has done so and that the retrieved status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Delivery Report Content specific to this Test Case.

MM Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf PDU from the Test Tool>
		To	<same as in the sent MM>
		Date	<current date>

X-Mms-Status	Retrieved

5.4.1.2 MMS-1.3-con-602 - Delivery report – Rejected message

Test Case Id	MMS-1.3-con-602
Test Object	Client A
Test Case Description	The purpose is to verify that the originator of a message with a request for a delivery report can receive a delivery report with the Rejected status after message rejection. Verification is done by sending the message from Client A to a test tool, requesting a Delivery report. Verification of the reception of the Delivery Report is done by sending a delivery report from a Test Tool back to Client A, and observe client behaviour upon reception.
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1 [MMSCTR] Chapter 6.5
SCR Reference	MMSE-C-031, MMSCTR-DRP-C-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-602
Preconditions	-Client A Capability: Delivery report request
Test Procedure	1. In Client A, create a new MM. 2. In MM header: set Delivery Report Request-Field to ON. 3. In MM header: To-field is set to a legal address 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to test Tool. 6. In Test Tool,.accept the MM and send Delivery Report back to Client A 7. In Client A, receive the Delivery Report and open it. 8. Verify the pass criteria below.
Pass Criteria	Client A displays delivery report notification through the MMI, and indicates the appropriate retrieved status if capable. Otherwise if client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Delivery Report Content specific to this Test Case.

MM Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf PDU from the Test Tool>
		To	<same as in the sent MM>
		Date	<current date>
		X-Mms-Status	Rejected

5.4.1.3 MMS-1.3-con-603 - Delivery report – Expired message

Test Case Id	MMS-1.3-con-603
Test Object	MMSC
Test Case Description	The purpose is to verify that the originator of a message with a request for a delivery report can receive a delivery report with the Expired status after message expiration. Verification is done by sending the message from Client A to a test tool, requesting a Delivery report. Verification of the reception of the Delivery Report is done by sending a delivery report from a Test Tool back to Client A, and observe client behaviour upon reception.
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1 [MMSCTR] Chapter 6.5
SCR Reference	MMSE-C-031, MMSCTR-DRP-C-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-603
Preconditions	-Client A Capability: Delivery report request
Test Procedure	1. In Client A, create a new MM. 2. In MM header: set Delivery Report Request-Field to ON. 3. In MM header: To-field is set to a legal address 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to Test Tool. 6. In Test Tool, accept the MM and send Delivery Report back to Client A. 7. Verify the pass criteria below.
Pass Criteria	If Client A is able to display delivery report notification through the MMI, ensure that it has done so and that the retrieved status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Delivery Report Content specific to this Test Case.

MM Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf PDU from the Test Tool>
		To	<same as in the sent MM>
		Date	<current date>
		X-Mms-Status	Expired

5.4.1.4 MMS-1.3-con-604 - Delivery report – Multiple recipients each with Different Delivery Status

Test Case Id	MMS-1.3-con-604
Test Object	Client A
Test Case Description	The purpose is to verify that if a message with a request for a delivery report from Client A is sent to multiple recipients then the originator (Client A) can receive and display a separate delivery report for each recipient, with the correct Delivery Status for each recipient after message delivery or message delivery attempt (in the case of Expired Status) to each separate recipient. Verification is done by sending the message from Client A to a test tool, requesting a Delivery report. Verification of the reception of multiple Delivery Reports is done by sending several delivery reports from a Test Tool back to Client A, and observe client behaviour upon reception.
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1 [MMSCTR] Chapter 6.5
SCR Reference	MMSE-C-031, MMSCTR-DRP-C-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-604
Preconditions	-Client A Capability: Delivery report request
Test Procedure	1. In Client A, create a new MM. 2. In MM header: set Delivery Report Request-Field to ON. 3. In MM header: To-field is set to: a sequence of four legal addresses 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to Test Tool. NOTE: Each Client B will generate a different MM Delivery Status. 6. In Test Tool accept the MM. 7. In the Test Tool send 1st Delivery report back to Client A, reporting the first addressee received the MM. 8. In the Test Tool send 2nd Delivery report back to Client A, reporting the second addressee received the MM. 9. In the Test Tool send 3rd Delivery report back to Client A, reporting the third addressee rejected the MM. 10. In the Test Tool send 4th Delivery report back to Client A, reporting the fourth addressee did not receive the MM before it expired. In Client A, wait until all 4 delivery reports have arrived Verify the pass criteria below.
Pass Criteria	Client A has received a separate delivery report for each recipient, with the correct Delivery Status for each recipient after message delivery or message delivery attempt (in the case of Expired Status) to each separate recipient.

If Client A is able to display delivery report notification through the MMI, ensure that is has done so and that the retrieved status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Delivery Report Content specific to this Test Case.

1

MM Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf
		PDU from the Test Tool>	
		To	first address entered above
		Date	<current date>
		X-Mms-Status	Retrieved

2

MM Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf
		PDU from the Test Tool>	
		To	second address entered above
		Date	<current date>
		X-Mms-Status	Retrieved

3

MM Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf
		PDU from the Test Tool>	
		To	third address entered above
		Date	<current date>
		X-Mms-Status	Rejected

4

MM Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf
		PDU from the Test Tool>	
		To	Fourth address entered above
		Date	<current date>
		X-Mms-Status	Expired

5.4.1.5 MMS-1.3-con-620 - Delivery report – Interpreting Message-ID field

Test Case Id	MMS-1.3-con-620
Test Object	Client A
Test Case Description	The purpose is to verify that the originator of multiple MMs can correctly utilise the Message-ID field to associate received Delivery Reports with their respective MMs.
Specification Reference	[MMSENC] Chapter 6.1.2 Table 2 and Chapter 6.6 Table 9 [MMSCTR] Chapter 6.1.1 and Chapter 6.5.1
SCR Reference	MMSE-C-039, MMSE-C-087, MMSCTR-SND-C-003, MMSCTR-DRP-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-617
Preconditions	-Client A Capability: Delivery report request Support for interpreting Message-ID field Display of Delivery Report
Test Procedure	1. In Client A, create a new MM (Message1) ; set the Delivery Report request field to ON; set the To field to a legal address; and in the message text part enter the text “Hello World – Retrieved”. 2. In Client A, send the MM to the Test Tool. 3. In the Test Tool, accept the MM and send an M-Send.conf PDU to Client A with the Message-ID field set to “retrieved@mmsc”. 4. In Client A, create a new MM (Message2); set the Delivery Report request field to ON; set the To field to the same legal address as above; and in the message text part enter the text “Hello World – Rejected”. 5. In Client A, send the MM to the Test Tool. 6. In the Test Tool, accept the MM and send an M-Send.conf PDU to Client A with the Message-ID field set to “rejected@mmsc”. 7. In Client A, create a new MM (Message3); set the Delivery Report request field to ON; set the To field to the same legal address as above; and in the message text part enter the text “Hello World – Expired”. 8. In Client A, send the MM to the Test Tool. 9. In the Test Tool, accept the MM and send an M-Send.conf PDU to Client A with the Message-ID field set to “expired@mmsc”. 10. In the Test Tool, send a Delivery Report in response to the third MM send request received; i.e. in the M-Delivery.ind PDU include the Message-ID field set to “expired@mmsc”. 11. In the Test Tool, send a Delivery Report in response to the first MM send request received; i.e. in the M-Delivery.ind PDU include the Message-ID field set to “retrieved@mmsc”. 12. In the Test Tool, send a Delivery Report in response to the second

MM send request received; i.e. in the M-Delivery.ind PDU include the Message-ID field set to “rejected@mmsc”.

13. In Client A, examine each of the three received Delivery Reports
14. Verify the pass criteria below

Pass Criteria	Client A displays the delivery status of Message1 as Retrieved; and Client A displays the delivery status of Message2 as Rejected; and Client A displays the delivery status of Message 3 as Expired.

Send Confirmation Content specific to this Test Case.

Step 3

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-send-conf
		X-Mms-Transaction-ID	<same as in the M-Send.req PDU from Client A>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“retrieved@mmsc”

Step 6

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-send-conf
		X-Mms-Transaction-ID	<same as in the M-Send.req PDU from Client A>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“rejected@mmsc”

Step 9

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-send-conf
		X-Mms-Transaction-ID	<same as in the M-Send.req PDU from Client A>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“expired@mmsc”

Delivery Report Content specific to this Test Case.

Step 10

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	expired@mmsc
		To	<Address as in the M-Send.req from Client A>
		Date	<current date>
		X-Mms-Status	Expired

Step 11

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	retrieved@mmsc
		To	<Address as in the M-Send.req from Client A>
		Date	<current date>
		X-Mms-Status	Retrieved

Step 12

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	rejected@mmsc
		To	<Address as in the M-Send.req from Client A>

Date	<current date>
X-Mms-Status	Rejected

5.4.2 Message Read-Reply Status Report

5.4.2.1 MMS-1.3-con-605 - Read-Reply report Date

Test Case Id	MMS-1.3-con-605
Test Object	Client A
Test Case Description	The purpose is to verify that a message with a request for a Read-Reply report is correctly sent from Client A and that Client A is able to receive and reasonably present the Read-Reply report sent from the MMSC Verification is done by sending the message from Client A to a test tool, requesting a Read-Reply report. The Test Tool will verify that the request is correct. Verification of the reception of the Read-Reply Report is done by sending a Read-Reply report from a Test Tool back to Client A, and observe client behaviour upon reception.
Specification Reference	[MMSENC] Chapter 6.7.1 Table 10, Table 11
SCR Reference	MMSCTR-RRP-C-002, MMSCTR-RRP-C-008, MMSE-RDR-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-605
Preconditions	-Client A Capability: Read Report request Support for PDU Read Reporting functionality
Test Procedure	1. In Client A, create a new MM. 2. In MM header: Read-Reply Report Request-Field is set to ON. 3. In MM header: To-field is set to: a legal address 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to Test Tool. 6. In Test Tool, accept MM. 7. In Test Tool, send a Read-Reply report back to Client A. 8. In Client A, open the received Read-Reply report. 9. Verify the pass criteria below.
Pass Criteria	Client A has sent an MM with a correct request for Read-Reply Report. Client A has received a Read-Reply report with the date on which the message was read. If Client A is able to display the read reply report message through the MMI, ensure that it has done so and that the retrieved status has been appropriately indicated. If the client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Read-Reply Report Content specific to this Test Case.

MM Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3

Message-ID	<same as in the M-send.conf PDU from the Test Tool>
To	<address of Client A>
From	The legal address entered above
Date	<current date>
X-Mms-Read-Status	Read

5.4.2.2 MMS-1.3-con-606 - Read-Reply report

Test Case Id	MMS-1.3-con-606
Test Object	Client B
Test Case Description	The purpose is to verify that when a message with a request for a Read-Reply report is received by Client B and if Client B has the capability to send a Read-Reply report, then Client B sends a Read-Reply report. This is verified by sending an MM from a Test Tool to Client B, which may respond with the action to submit a read-reply report.
Specification Reference	[MMSENC] Chapter 6.7.1 Table 10.
SCR Reference	MMSE-RDR-C-003, MMSCTR-RRP-C-001, MMSCTR-RRP-C-006, MMSCTR-RRP-C-007.
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-606
Preconditions	-Test Tool An MM addressed to Client B is created and stored, with the Read-Reply Report Request-Field set to ON in the MM header -Client B Capability: Sending of Read-Reply reports Support for PDU Read Reporting functionality Setting: Set Client B to allow the sending of Read-Reply reports
Test Procedure	1. From the test tool send notification of an MM to Client B.. 2. In Client B, receive the MM notification. 3. In Client B, retrieve and open the MM. A Read-Reply report is sent to the test tool. 4. Verify the pass criteria below.
Pass Criteria	In the test tool, verify that Client B has sent a Read-Reply report and that the M-read-rec.ind PDU is conformant.

Read-Reply Report Content specific to this Test Case.

MM Content:	MMS Headers:	X-Mms-Message-Type	m-read-rec.ind
		X-Mms-MMS-Version	ixit_mms_version
		Message-ID	<same as in the M-send.conf PDU from the Test Tool>
		To	<fictitious address of Client A as defined by the test tool>
		From	<Address of Client B>
		Date	Not checked
		X-Mms-Read-Status	Read

5.4.2.3 MMS-1.3-con-607 - Read-Reply Report when sending to multiple recipients

Test Case Id	MMS-1.3-con-607
Test Object	Client A
Test Case Description	The purpose is to verify that a message with a request for a Read-Reply report is correctly sent from Client A to multiple recipients and that the originator can receive a separate and correct Read-Reply report from each recipient after the message has been read by each recipient. Verification is done by sending the message from Client A to a test tool, requesting a Read-Reply report. The Test Tool will verify that the request is correct. Verification of the reception of the Read-Reply Report is done by sending several Read-Reply reports from a Test Tool back to Client A, and observe client behaviour upon reception
Specification Reference	[MMSENC] Chapter 6.7.1 Table 10, Table 11
SCR Reference	MMSE-RDR-C-003, MMSCTR-RRP-C-002, MMSCTR-RRP-C-008
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-607
Preconditions	-Client A Capability: Read Report request Support for PDU Read Reporting functionality
Test Procedure	1. In Client A, create a new MM. 2. In MM header: Read-Reply Report Request-Field is set to ON. 3. In MM header: To-field is set to: a sequence of three legal addresses 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to Test Tool. 6. In Test Tool accept the MM. 7. In the Test Tool send 1st Read-Reply report back to Client A, reporting that the first addressee deleted the MM without reading it.. 8. In the Test Tool send the 2nd and 3rd Read-Reply reports back to Client A, reporting that the MM was read 9. Verify the pass criteria below.
Pass Criteria	Client A receives a separate Read-Reply report from 2 recipients that the messages was read, and a Read-Reply report from 1 recipient that the message was deleted without being read. If Client A is able to display read reply report messages through the MMI, ensure that it has done so and that the retrieved status has been appropriately indicated for all recipients. If the client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Read-Reply Report Content specific to this Test Case.

1.

MM Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf
		PDU from the Test Tool>	
		To	first address entered above
		From	<address of Client A>
		Date	<current date>
		X-Mms-Read-Status	Deleted without being read

2

MM Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf
		PDU from the Test Tool>	
		To	second address entered above
		From	<address of Client A>
		Date	<current date>
		X-Mms-Read-Status	Read

3

MM Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf
		PDU from the Test Tool>	
		To	third address entered above
		From	<address of Client A>
		Date	<current date>
		X-Mms-Read-Status	Read

5.4.2.4 MMS-1.3-con-608 - Read-Reply report when sending to single recipient

Test Case Id	MMS-1.3-con-608
Test Object	Client A
Test Case Description	The purpose is to verify that a message with a request for a Read-Reply report is correctly sent from Client A and that the originator can receive a read report after the message has been read Verification is done by sending the message from Client A to a test tool, requesting a Read-Reply report. The Test Tool will verify that the request is correct. Verification of the reception of the Read-Reply Report is done by sending a Read-Reply report from a Test Tool back to Client A, and observe client behaviour upon reception.
Specification Reference	[MMSENC] Chapter 6.7.1 Table 10, Table 11
SCR Reference	MMSE-RDR-C-003, MMSCTR-RRP-C-002, MMSCTR-RRP-C-008
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-608
Preconditions	-Client A Capability: Read Report request Support for PDU Read Reporting functionality
Test Procedure	1. In Client A, create a new MM. 2. In MM header: Read-Reply Report Request-Field is set to ON. 3. In MM header: To-field is set to: a legal address 4. In MM content: In the message text part, enter the text “Hello World”. 5. In Client A, send MM to Test Tool. 6. In Test Tool, accept MM. 7. In Test Tool, send a Read-Reply report back to Client A. 10. In Client A, open the received Read-Reply report 8. Verify the pass criteria below.
Pass Criteria	Client A has sent an MM with a correct request for a Read-Reply Report. Client A has received a Read-Reply report. If Client A is able to display the read reply report message through the MMI, ensure that is has done so and that the retrieved status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Read-Reply Report Content specific to this Test Case.

MM Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-send.conf PDU from the Test Tool>
		To	<address of Client A>
		From	legal address as entered
		aboveDate	<current date>
		X-Mms-Read-Status	Read

5.4.2.5 MMS-1.3-con-621 - Read report – Interpreting Message-ID field

Test Case Id	MMS-1.3-con-621
Test Object	Client A
Test Case Description	The purpose is to verify that the originator of multiple MMs can correctly utilise the Message-ID field to associate received Read Reports with their respective MMs.
Specification Reference	[MMSENC] Chapter 6.1.2 Table 2 and Chapter 6.7 Table 11 [MMSCTR] Chapter 6.1.1 and Chapter 6.6
SCR Reference	MMSE-C-037, MMSE-RDR-C-006, MMSCTR-SND-C-003, MMSCTR-RRP-C-008
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-621
Preconditions	-Client A Capability: Ability to request Read Reports Ability to handle Read Reports in the form of PDUs Support for interpreting Message-ID field
Test Procedure	1. In Client A, create a new MM (Message1) ; set the Read Report request field to ON; set the To field to a legal address; and in the message text part enter the text “Hello World – Read1”. 2. In Client A, send the MM to the Test Tool. 3. In the Test Tool, accept the MM and send an M-Send.conf PDU to Client A with the Message-ID field set to “read1@mmsc”. 4. In Client A, create a new MM (Message2); set the Read Report request field to ON; set the To field to the same legal address as above; and in the message text part enter the text “Hello World – deleted”. 5. In Client A, send the MM to the Test Tool. 6. In the Test Tool, accept the MM and send an M-Send.conf PDU to Client A with the Message-ID field set to “deleted@mmsc”. 7. In Client A, create a new MM (Message3); set the Read Report request field to ON; set the To field to the same legal address as above; and in the message text part enter the text “Hello World – Read2”. 8. In Client A, send the MM to the Test Tool. 9. In the Test Tool, accept the MM and send an M-Send.conf PDU to Client A with the Message-ID field set to “read2@mmsc”. 10. In the Test Tool, send a Read Report in response to the third MM send request received; i.e. in the M-Read-orig.ind PDU include the Message-ID field set to “read2@mmsc”. 11. In the Test Tool, send a Read Report in response to the first MM send request received; i.e. in the M-Read-orig.ind PDU include the Message-ID field set to “read1@mmsc”.

12. In the Test Tool, send a Read Report in response to the second MM send request received; i.e. in the M-Read-orig.ind PDU include the Message-ID field set to "deleted@mmsc".
13. In Client A, examine each of the three received Read Reports
14. Verify the pass criteria below

Pass Criteria	Client A displays the read status of Message1 as Read; and Client A displays the read status of Message2 as Deleted; and Client A displays the read status of Message 3 as Read.

Send Confirmation Content specific to this Test Case.

Step 3

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-send-conf
		X-Mms-Transaction-ID	<same as in the M-Send.req PDU from Client A>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	"read1@mmsc"

Step 6

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-send-conf
		X-Mms-Transaction-ID	<same as in the M-Send.req PDU from Client A>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	"deleted@mmsc"

Step 9

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-send-conf
		X-Mms-Transaction-ID	<same as in the M-Send.req PDU from Client A>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	"read2@mmsc"

Read Report Content specific to this Test Case.

Step 10

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	read2@mmsc
		To	<address of Client A>
		From	<Address as in the M-Send.req from Client A>
		Date	<current date>
		X-Mms-Read-Status	Read

Step 11

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	read1@mmsc
		To	<address of Client A>
		From	<Address as in the M-Send.req from Client A>
		Date	<current date>
		X-Mms-Read-Status	Read

Step 12

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	deleted@mmsc
		To	<address of Client A>
		From	<Address as in the M-Send.req from Client A>
		Date	<current date>
		X-Mms-Read-Status	Deleted

5.4.3 Forwarding

5.4.3.1 MMS-1.3-con-611 - Forward without Prior retrieval

Test Case Id	MMS-1.3-con-611
Test Object	Client B
Test Case Description	The purpose is to verify that a message can be forwarded without prior retrieval Verification is done by sending a notification from a Test Tool to Client B. Client B then sends a forwarding message to the Test Tool. The Test Tool verifies that this message is correct.
Specification Reference	[MMSENC] Chapter 6.5 Table 5
SCR Reference	MMSCTR-FWD-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-611
Preconditions	Client B Capability: Deferred Retrieval mode Forwarding without prior retrieval
Test Procedure	1. Set retrieval mode to deferred in client B 2. In Test Tool, send notification for an MM to Client B. 3. In Client B, initiate the forwarding of the MM, without prior retrieval, to another, legal, address. 4. In Test Tool, receive the forwarding message.. 5. Verify the pass criteria below.
Pass Criteria	The Client B has sent a correct forwarding message.

5.4.3.2 MMS-1.3-con-612 Forward without prior retrieval - Validity Period (Expiry Time) set by Client when forwarding

Test Case Id	MMS-1.3-con-612
Test Object	Client B
Test Case Description	The purpose is to verify that a request to forward a message with a Validity Period/Expiry Time, set by the client, is correctly formatted.
Specification Reference	[MMSENC] Chapter 6.5 Table 7
SCR Reference	MMSE-FWD-C-010
Tool	MMS Conformance Tool
Test Code	Validated test code for test case MMS-1.3-con-612
Preconditions	-Client B Capability: Setting (relative) Expiry Time of a Forwarded message Deferred Retrieval mode Forwarding without prior retrieval
Test Procedure	1. Set retrieval mode to deferred in client B 2. In Test Tool, send notification for an MM to Client B. 3. In Client B, request that the Validity Period/Expiry Time, in the M-Forward.req PDU is set to 1 hour (or lowest possible value). In Client B, initiate the forwarding of the MM, without prior retrieval, to another, legal, address. 4. In Test Tool, receive the forwarding message. 5. Verify the pass criteria below.
Pass Criteria	The Client B has sent a correct forwarding message and the X-Mms-Expiry value is set to 1 hour (or the lowest possible value allowed by the client).

5.4.3.3 MMS-1.3-con-613 - Forward without prior retrieval - Forwarding Delivery report – Retrieved message

Test Case Id	MMS-1.3-con-613
Test Object	Client B
Test Case Description	The purpose is to verify that a message addressed to a client can be forwarded without prior retrieval. The forwarding Client B can request and subsequently receive a delivery report with the Retrieved status.
Specification Reference	[MMSENC] Chapter 6.5.1 Table 7
SCR Reference	MMSE-FWD-C-013
Tool	MMS Conformance Tool
Test Code	Validated test code for test case MMS-1.3-con-613
Preconditions	-Client B Capability: To request a Delivery report Deferred retrieval mode Forwarding without prior retrieval
Test Procedure	1. Set retrieval mode to deferred in client B 2. In Test Tool, send notification for an MM to Client B 3. In Client B, do not retrieve the MM. Set Client B to request a Delivery Report and initiate the forwarding of the MM to another, legal, address. 4. In Test Tool, receive the forwarding message and send Delivery Report back to Client B. 5. Verify the pass criteria below.
Pass Criteria	Client B has sent an M-Forward.req PDU with the X-Mms-Delivery-Report field set to Yes. If Client B is able to display delivery report notification through the MMI, ensure that it has done so and that the Retrieved status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Delivery Report Content specific to this Test Case.

PDU Content:	MMS Headers:	X-Mms-Message-Type	M-Delivery.ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-Forward.conf PDU from the Test Tool>
		To	<same as in the sent MM>
		Date	<current date>
		X-Mms-Status	Retrieved

5.4.3.4 MMS-1.3-con-614 - Forward without prior retrieval - Forwarding Delivery report – Rejected message

Test Case Id	MMS-1.3-con-614
Test Object	Client B
Test Case Description	The purpose is to verify that a message addressed to a client can be forwarded without prior retrieval. The forwarding Client B can request and subsequently receive a delivery report with the Rejected status.
Specification Reference	[MMSENC] Chapter 6.5.1 Table 7
SCR Reference	MMSE-FWD-C-013
Tool	MMS Conformance Tool
Test Code	Validated test code for test case MMS-1.3-con-614
Preconditions	-Client B Capability: To request a Delivery report Deferred retrieval mode Forwarding without prior retrieval
Test Procedure	1. Set retrieval mode to deferred in client B. 2. In Test Tool, send notification for an MM to Client B. 3. In Client B, do not retrieve the MM. Set Client B to request a Delivery Report and initiate the forwarding of the MM to another, legal, address. 4. In Test Tool, receive the forwarding message and send Delivery Report back to Client B. 5. Verify the pass criteria below.
Pass Criteria	Client B has sent an M-Forward.req PDU with the X-Mms-Delivery-Report field set to Yes. If Client B is able to display delivery report notification through the MMI, ensure that it has done so and that the Rejected status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Delivery Report Content specific to this Test Case.

PDU Content:	MMS Headers:	X-Mms-Message-Type	M-Delivery.ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-Forward.conf PDU from the Test Tool>
		To	<same as in the sent MM>
		Date	<current date>
		X-Mms-Status	Rejected

5.4.3.5 MMS-1.3-con-615 - Forward without prior retrieval - Forwarding Delivery report – Expired message

Test Case Id	MMS-1.3-con-615
Test Object	Client B
Test Case Description	The purpose is to verify that a message addressed to a client can be forwarded without prior retrieval. The forwarding Client B can request and subsequently receive a delivery report with the Expired status.
Specification Reference	[MMSENC] Chapter 6.5.1 Table 7
SCR Reference	MMSE-FWD-C-013
Tool	MMS Conformance Tool
Test Code	Validated test code for test case MMS-1.3-con-615
Preconditions	-Client B Capability: To request a Delivery report Deferred retrieval mode Forwarding without prior retrieval
Test Procedure	1. Set retrieval mode to deferred in client B. 2. In Test Tool, send notification for an MM to Client B. 3. In Client B, do not retrieve the MM. Set Client B to request a Delivery Report and initiate the forwarding of the MM to another, legal, address. 4. In Test Tool, receive the forwarding message and send Delivery Report back to Client B. 5. Verify the pass criteria below.
Pass Criteria	Client B has sent an M-Forward.req PDU with the X-Mms-Delivery-Report field set to Yes. If Client B is able to display delivery report notification through the MMI, ensure that it has done so and that the Expired status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Delivery Report Content specific to this Test Case.

PDU Content:	MMS Headers:	X-Mms-Message-Type	M-Delivery.ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-Forward.conf PDU from the Test Tool>
		To	<same as in the sent MM>
		Date	<current date>
		X-Mms-Status	Expired

5.4.3.6 MMS-1.3-con-616 - Forward without prior retrieval - Read report when forwarding to single recipient

Test Case Id	MMS-1.3-con-616
Test Object	Client B
Test Case Description	The purpose is to verify that a message addressed to a client can be forwarded without prior retrieval. The forwarding Client B can request and subsequently receive a read report with the Read status.
Specification Reference	[MMSENC] Chapter 6.5.1 Table 7
SCR Reference	MMSE-FWD-C-014
Tool	MMS Conformance Tool
Test Code	Validated test code for test case MMS-1.3-con-616
Preconditions	-Client B Capability: To request a Read report Deferred retrieval mode Forwarding without prior retrieval
Test Procedure	1. Set retrieval mode to deferred in client B. 2. In Test Tool, send notification for an MM to Client B. 3. In Client B, do not retrieve the MM. Set Client B to request a Read Report and initiate the forwarding of the MM to another, legal, address.. 4. In Test Tool, receive the forwarding message and send Read Report back to Client B with Read-status-value of Read. 5. Verify the pass criteria below.
Pass Criteria	Client B has sent an M-Forward.req PDU with the X-Mms-Read-Report field to to Yes. If Client B is able to display read report notification through the MMI, ensure that it has done so and that the Read status has been appropriately indicated. If client is unable to display the notification then ensure that the MMS layer is still capable of functioning by the successful receipt of an additional MM.

Read Report Content specific to this Test Case.

PDU Content:	MMS Headers:	X-Mms-Message-Type	M-Read-Orig.ind
		X-Mms-MMS-Version	1.3
		Message-ID	<same as in the M-Forward.conf PDU from the Test Tool>
		To	<same as in the sent MM>
		From	<legal address as entered above>
		Date	<current date>
		X-Mms-Read-Status	Read

5.4.3.7 MMS-1.3-con-617 - Forward without prior retrieval - Delivery Report when Forwarding– Interpreting Message-ID field

Test Case Id	MMS-1.3-con-617
Test Object	Client B
Test Case Description	The purpose is to verify that a Client forwarding multiple MMs can correctly utilise the Message-ID field to associate received Delivery Reports with their respective MMs.
Specification Reference	[MMSENC] Chapter 6.5.2 Table 8 and Chapter 6.6 Table 9 [MMSCTR] Chapter 6.4.1 and Chapter 6.5.1
SCR Reference	MMSE-FWD-C-018, MMSE-C-087, MMSCTR-FWD-C-003, MMSCTR-DRP-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-617
Preconditions	-Client B Capability: Delivery report request Forwarding without prior retrieval Support for interpreting Message-ID field Display of Delivery Report
Test Procedure	1. Set retrieval mode to deferred in client B. 2. In Test Tool, send a notification for an MM (Message1) to Client B; with the Subject field set to “Hello World – Retrieved”. 3. In Client B, do not retrieve the MM. Set Client B to request a Delivery Report and initiate the forwarding of the MM to another, legal, address (the Forwarding Address). 4. In the Test Tool, accept the forward request and send an M-Forward.conf PDU to Client B with the Message-ID field set to “retrieved@mmsc”. 5. In Test Tool, send a notification for an MM (Message2) to Client B; with the Subject field set to “Hello World – Rejected”. 6. In Client B, do not retrieve the MM. Set Client B to request a Delivery Report and initiate the forwarding of the MM to the Forwarding Address as used above. 7. In the Test Tool, accept the forward request and send an M-Forward.conf PDU to Client B with the Message-ID field set to “rejected@mmsc”. 8. In Test Tool, send a notification for an MM (Message3) to Client B; with the Subject field set to “Hello World – Expired”. 9. In Client B, do not retrieve the MM. Set Client B to request a Delivery Report and initiate the forwarding of the MM to the Forwarding Address as used above. 10. In the Test Tool, accept the forward request and send an M-Forward.conf PDU to Client B with the Message-ID field set to “expired@mmsc”.

11. In the Test Tool, send a Delivery Report in response to the third forward request received; i.e. in the M-Delivery.ind PDU include the Message-ID field set to “expired@mmsc”.
12. In the Test Tool, send a Delivery Report in response to the first forward request received; i.e. in the M-Delivery.ind PDU include the Message-ID field set to “retrieved@mmsc”.
13. In the Test Tool, send a Delivery Report in response to the second forward request received; i.e. in the M-Delivery.ind PDU include the Message-ID field set to “rejected@mmsc”.
14. In Client B, examine each of the three received Delivery Reports
15. Verify the pass criteria below

Pass Criteria	Client B displays the delivery status of Message1 as Retrieved; and Client B displays the delivery status of Message2 as Rejected; and Client B displays the delivery status of Message 3 as Expired.

Forward Confirmation Content specific to this Test Case.

Step 4

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-forward-conf
		X-Mms-Transaction-ID	<same as in the M-Forward.req PDU from Client F>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“retrieved@mmsc”

Step 7

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-forward-conf
		X-Mms-Transaction-ID	<same as in the M-Forward.req PDU from Client F>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“rejected@mmsc”

Step 10

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-forward-conf
		X-Mms-Transaction-ID	<same as in the M-Forward.req PDU from Client F>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“expired@mmsc”

Delivery Report Content specific to this Test Case.

Step 11

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	expired@mmsc
		To	<Forwarding Address as in the M-Forward.req from Client F>
		Date	<current date>
		X-Mms-Status	Expired

Step 12

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	retrieved@mmsc
		To	<Forwarding Address as in the M-Forward.req from Client F >
		Date	<current date>
		X-Mms-Status	Retrieved

Step 13

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-delivery-ind
		X-Mms-MMS-Version	1.3
		Message-ID	rejected@mmsc
		To	<Forwarding Address as in the M-Forward.req from Client F >
		Date	<current date>
		X-Mms-Status	Rejected

5.4.3.8 MMS-1.3-con-618 - Forward without prior retrieval - Read Report when Forwarding – Interpreting Message-ID field

Test Case Id	MMS-1.3-con-618
Test Object	Client B
Test Case Description	The purpose is to verify that a Client forwarding multiple MMs can correctly utilise the Message-ID field to associate received Read Reports with their respective MMs.
Specification Reference	[MMSENC] Chapter 6.5.2 Table 8 and Chapter 6.6 Table 9 [MMSCTR] Chapter 6.4.1 and Chapter 6.6.3.2
SCR Reference	MMSE-FWD-C-018, MMSE-RDR-C-006, MMSCTR-FWD-C-003, MMSCTR-RRP-C-008
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-618
Preconditions	-Client B Capability: Ability to request Read Reports Forwarding without prior retrieval Ability to handle Read Reports in the form of PDUs Support for interpreting Message-ID field
Test Procedure	1. Set retrieval mode to deferred in client B. 2. In Test Tool, send a notification for an MM (Message1) to Client B; with the Subject field set to “Hello World – Read1”. 3. In Client B, do not retrieve the MM. Set Client B to request a Read Report and initiate the forwarding of the MM to another, legal, address (the Forwarding Address). 4. In the Test Tool, accept the forward request and send an M-Forward.conf PDU to Client B with the Message-ID field set to “read1@mmsc”. 5. In Test Tool, send a notification for an MM (Message2) to Client B; with the Subject field set to “Hello World – Deleted”. 6. In Client B, do not retrieve the MM. Set Client B to request a Read Report and initiate the forwarding of the MM to the Forwarding Address as used above. 7. In the Test Tool, accept the forward request and send an M-Forward.conf PDU to Client B with the Message-ID field set to “deleted@mmsc”. 8. In Test Tool, send a notification for an MM (Message3) to Client B; with the Subject field set to “Hello World – Read2”. 9. In Client B, do not retrieve the MM. Set Client B to request a Read Report and initiate the forwarding of the MM to the Forwarding Address as used above. 10. In the Test Tool, accept the forward request and send an M-Forward.conf PDU to Client B with the Message-ID field set to “read2@mmsc”.

11. In the Test Tool, send a Read Report in response to the third forward request received; i.e. in the M-Read-orig.ind PDU include the Message-ID field set to “read2@mmsc”.
12. In the Test Tool, send a Read Report in response to the first forward request received; i.e. in the M-Read-orig.ind PDU include the Message-ID field set to “read1@mmsc”.
13. In the Test Tool, send a Read Report in response to the second forward request received; i.e. in the M-Read-orig.ind PDU include the Message-ID field set to “deleted@mmsc”.
14. In Client B, examine each of the three received Read Reports
15. Verify the pass criteria below

Pass Criteria	Client B displays the read status of Message1 as Read; and Client B displays the read status of Message2 as Deleted; and Client B displays the read status of Message 3 as Read.

Forward Confirmation Content specific to this Test Case.

Step 4

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-forward-conf
		X-Mms-Transaction-ID	<same as in the M-Forward.req PDU from Client B>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“read1@mmsc”

Step 7

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-forward-conf
		X-Mms-Transaction-ID	<same as in the M-Forward.req PDU from Client B>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“deleted@mmsc”

Step 10

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-forward-conf
		X-Mms-Transaction-ID	<same as in the M-Forward.req PDU from Client B>
		X-Mms-MMS-Version	1.3
		X-Mms-Response-Status	Ok
		Message-ID	“read2@mmsc”

Read Report Content specific to this Test Case.

Step 11

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	read2@mmsc
		To	<address of Client B>
		From	<Forwarding Address as in the M-Forward.req from Client B>
		Date	<current date>
		X-Mms-Read-Status	Read

Step 12

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3

		Message-ID	read1@mmsc
		To	<address of Client B>
		From	<Forwarding Address as in the M-Forward.req from Client B>
		Date	<current date>
		X-Mms-Read-Status	Read

Step 13

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-read-orig-ind
		X-Mms-MMS-Version	1.3
		Message-ID	deleted@mmsc
		To	<address of Client B>
		From	<Forwarding Address as in the M-Forward.req from Client B>
		Date	<current date>
		X-Mms-Read-Status	Deleted

5.4.3.9 MMS-1.3-con-619 - Forward without prior retrieval - Long X-Mms-Content-Location field when Forwarding

Test Case Id	MMS-1.3-con-619
Test Object	Client B
Test Case Description	The purpose is to verify that a multimedia message, where the X-Mms-Content-Location field in the M-Notification-ind PDU has a length equal to the maximum permitted value, is correctly forwarded by Client B. Verification is done by sending a Notification PDU from a Test Tool to Client B and then inspect the contents of the M-Forward-req PDU sent to the Test Tool.
Specification Reference	[MMSCONF] Chapter 10.2.5
SCR Reference	MMSCONF- GEN-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-617
Preconditions	-Client B
Test Procedure	1. Set retrieval mode to deferred in client B 2. In Test Tool, send notification for an MM to Client B. 3. In Client B, initiate the forwarding of the MM, without prior retrieval, to another, legal, address. 4. In Test Tool, receive the forwarding message 5. Verify the pass criteria below
Pass Criteria	The contents of the X-Mms-Content-Location field in the M-Forward-req PDU received by the Test Tool is equal to the value sent by the Test Tool in the M-Notification-ind PDU.

MMS PDU Content specific to this Test Case.

M-Notification-ind	MMS Headers:	X-Mms-Content-Location	A URI format text string having a length of 100 characters. The URI value itself will be Test Tool dependent, but the length must be 100 characters in total.

5.4.4 Cancel

5.4.4.1 MMS-1.3-con-623 - Cancel

Test Case Id	MMS-1.3-con-623
Test Object	Client B
Test Case Description	The purpose is to verify that when a MM is received by Client B and a Cancel afterwards, the client does respond correctly and cancel the message at the client. This is verified by sending an MM from a Test Tool to Client B, and a Cancel request afterwards.
Specification Reference	[MMSENC] Chapter 6.13.2 Table 24. [MMSCTR] Chapter 6.7
SCR Reference	MMSCTR-PDU-C-021, MMSCTR-CNC-C-001, MMSCTR-CNC-C-002, MMSCTR-CNC-C-003, MMSE-CNC-C-001, MMSE-CNC-C-002, MMSE-CNC-C-003, MMSE-CNC-C-004, MMSE-CNC-C-006
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-623
Preconditions	-Test Tool An MM addressed to Client B is created and stored -Client B Capability: Receiving of M-Cancel.req Support for sending M-Cancel.conf
Test Procedure	1. From the test tool send notification of an MM to Client B. 2. In Client B, receive the MM notification. 3. In Client B, retrieve and open the MM. 4. From the test tool send a M-Cancel.req to Client B. 5. Client B sends a M-Cancel.conf to the test tool. 6. Verify the pass criteria below.
Pass Criteria	In the test tool, verify that Client B has sent a M-Cancel.conf according the table below and that the MM retrieved in step 3 is cancelled at Client B.

M-Cancel.req content specific to this Test Case.

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-cancel-req
		X-Mms-MMS-Version	1.3
		X-Mms-Transaction-ID	<an unique identifier>
		X-Mms-Cancel-ID	reference to the message-ID sent from the test tool to Client B in step 1

M-Cancel.conf content specific to this Test Case.

PDU Content:	MMS Headers:	X-Mms-Message-Type	m-cancel-conf
		X-Mms-MMS-Version	1.3
		X-Mms-Transaction-ID	<same as in the M-cancel.req PDU from the Test Tool
		X-Mms-Cancel-Status	successful

5.5 CLIENT B (RECIPIENT)

5.5.1 Download options

5.5.1.1 MMS-1.3-con-701 - Download options – Immediate retrieval

Test Case Id	MMS-1.3-con-701
Test Object	Client B
Test Case Description	The purpose is to verify that a message is correctly received by Client B and that the message is immediately retrieved by using the Immediate Retrieval mode. Verification is done by sending a notification from a Test Tool to Client B. Client B then immediately initiates a retrieval of the message from the Test Tool. On the Test Tool it can be verified that no M-NotifyResp.ind message is sent from Client B before the GET operation is initiated
Specification Reference	[MMSCTR] Chapter 6.3.1 [MMSCTR] Chapter 6.2.1
SCR Reference	MMSCTR-FTC-C-002, MMSCTR-NTF-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-701
Preconditions	-Client B Capability Immediate retrieval
Test Procedure	1. In Test Tool, send notification of an MM to Client B. 2. In Client B, receive the MM notification and retrieve and open the MM. 3. Verify the pass criteria below.
Pass Criteria	Client B has retrieved the MMs immediately and responded with a M-NotifyResp.ind to the Test Tool after the initiation of the GET operation. The X-Mms-Status field SHALL have a Status-value of Retrieved.

5.5.1.2 MMS-1.3-con-702 - Download options – Deferred retrieval

Test Case Id	MMS-1.3-con-702
Test Object	Client B
Test Case Description	The purpose is to verify that a message is correctly received by Client B and that the message is retrieved by using the Deferred Retrieval mode. Verification is done by sending a notification from a Test Tool to Client B. On the Test Tool it can be verified that an M-NotifyResp.ind message is sent from Client B before the GET operation is initiated
Specification Reference	[MMSCTR] Chapter 6.3.1 [MMSCTR] Chapter 6.2.1
SCR Reference	MMSCTR-FTC-C-002, MMSCTR-NTF-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-702
Preconditions	-Client B Capability Deferred retrieval Setting: Download option is set to Deferred Retrieval mode
Test Procedure	1. In Test Tool, send notification of an MM to Client B. 2. In Test Tool, wait for M-NotifyResp.ind from Client B 3. In Client B, initiate download of MM, receive and open the MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the notification and initially responded with M-NotifyResp.ind with the message retrieval status code set to Deferred. The X-Mms-Status field SHALL have a Status-value of Deferred. After user interaction, client B has successfully downloaded the message and sent the M-acknowledge.ind.

5.5.1.3 MMS-1.3-con-703 - Download options – Rejected retrieval

Test Case Id	MMS-1.3-con-703
Test Object	Client B
Test Case Description	The purpose is to verify that a message is correctly received by Client B and that Client B can reject the messages and not attempt message download. Verification is done by sending a notification from a Test Tool to Client B. The MM is rejected at Client B. On the Test Tool it can be verified that an M-NotifyResp.ind message is sent from Client B with message retrieval status set to Rejected and no download attempt is made by Client B.
Specification Reference	[MMSCTR] Chapter 6.3.1 [MMSCTR] Chapter 6.2.1
SCR Reference	MMSCTR-NTF-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-703
Preconditions	-Client B Setting: Download option is set to Rejected Retrieval mode
Test Procedure	1. 2. In Test Tool, send notification of an MM to Client B. 3. In Client B, reject the MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the notification. Client B has successfully rejected the message by responding with M-NotifyResp.ind with the message retrieval status code set to Rejected.

5.5.2 DRM Support

5.5.2.1 Normal Flow

5.5.2.1.1 MMS-1.3-con-704 - DRM support – Forward Lock

Test Case Id	MMS-1.3-con-704
Test Object	Client B
Test Case Description	The purpose is to verify that the terminal is able to receive a message containing DRM protected content and that the received objects are properly protected. Verification is done by sending an MM with DRM content from a Test Tool to Client B. The Client B should be able to receive the MM and open the content, but should not be able to forward the protected content.
Specification Reference	[MMSCONF] Chapter 7.1.4
SCR Reference	MMSCONF-MED-C-022
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-704
Preconditions	-Client B Support for DRM Forward Lock
Test Procedure	1. An MM , containing DRM/Forward-Lock-protected content is sent to Client B from the Test Tool 2. In Client B, receive and open the MM containing protected content 3. In client B, try to forward the MM to client A 4. Verify the pass criteria below.
Pass-Criteria	Client B receives the protected content and the received message is reasonably presented The received objects are properly protected and the protected objects are not forwarded.

MM Content specific to this Test Case.

MM Content: MMS Headers: To <address of Client B>

MMS Content:
- int-3.dm (content type: application/vnd.oma.drm.message)

5.5.2.1.2 MMS-1.3-con-705 - Combined delivery restrictions on the submission of MM

Test Case Id	MMS-1.3-con-705
Test Object	Client B
Test Case Description	The purpose of this test is to verify that when submitting an already received MM containing DRM combined delivery protected content and a text file, the MMS Client either submits the MM without enclosing the DRM content or restricts the submission of the MM
Specification Reference	[MMSCONF] 16.2.1.1
SCR Reference	MMSCONF-DRM-C-004
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-705
Preconditions	-Client B terminal supports OMA DRM Combined delivery protection mechanisms
Test Procedure	1. In test tool, create MM containing DRM combined delivery protected content and a text file. 2. In test tool, send MM to Client B. 3. In Client B, render and present MM. 4. In Client B, submit MM to test tool. 5. Verify pass criteria (a) or (b) below.
Pass Criteria	a) Test tool verifies that Client B submits the MM without enclosing the DRM content. b) Client B restricts the submission of the MM.

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:		o CombinedValid 100.dm (content type: application/vnd.oma.drm.message) o Generic_Text.txt o a SMIL object

5.5.2.1.3 MMS-1.3-con-706 - Message presentation with valid rights: Combined delivery

Test Case Id	MMS-1.3-con-706
Test Object	Client B
Test Case Description	The purpose of this test is to verify that the Client is able to present a MM containing DRM combined delivery protected content when the valid rights are available to the user.
Specification Reference	[MMSCONF] 16.2
SCR Reference	
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-706
Preconditions	-Client B terminal supports OMA DRM Combined delivery protection mechanisms
Test Procedure	1. In test tool, create MM containing DRM combined delivery protected content with the valid rights to visualize the content. 2. In test tool, send MM to Client B 3. In Client B, receive MM 4. Verify pass criteria below
Pass Criteria	Client B presents the MM with the protected content

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	○	CombinedValid 100.dm (content type: application/vnd.oma.drm.message)

5.5.2.1.4 MMS-1.3-con-707 - Message presentation with valid rights: Separate delivery

Test Case Id	MMS-1.3-con-707
Test Object	Client B
Test Case Description	The purpose of this test is to verify that the MMS Client is able to present the protected content using separate delivery when the valid rights are available to the user.
Specification Reference	[MMSCONF] 16.2
SCR Reference	
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-707
Preconditions	-Client B terminal supports OMA DRM Separate delivery protection mechanisms
Test Procedure	1. In test tool, create MM containing DCF separate delivery protected content (note: rights to be delivered separately). 2. In test tool, send MM to Client B 3. In Client B, receive MM 4. In test tool, send the corresponding valid rights using WAP push technology. 5. Verify pass criteria below
Pass Criteria	Client B presents the MM with the protected content

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	○	SeparateContent.dcf (content type: application/vnd.oma.drm.content)
WAP Push Content:	MMS Content:	SeparateContent.dr (content type: application/vnd.oma.drm.rights+xml)	

5.5.2.2 Error Flow

5.5.2.2.1 MMS-1.3-con-711 - Message presentation with non-valid rights: Combined delivery

Test Case Id	MMS-1.3-con-711
Test Object	Client B
Test Case Description	The purpose of this test case is to verify that the client can not visualize a multimedia message containing an DRM combined delivery protected object if the rights are not valid.
Specification Reference	[MMSCONF] 16.2
SCR Reference	
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-711
Preconditions	-Client B terminal supports OMA DRM Combined delivery protection mechanisms
Test Procedure	1. In test tool, create MM that contains a combination of DRM Message(s) and DCF's protected objects and send together with the not valid rights to visualize the content (Combined delivery) 2. In test tool, send MM to Client B 3. In Client B, receive MM 4. Verify pass criteria (a) or (b) below
Pass Criteria	a) Client B presents the MM but without any protected content (note: the terminal could prompt a message indicating that the DRM protected content could not be presented) part. b) Client B restricts the presentation of the whole MM (note: the terminal could prompt a message indicating that the MM message could not be presented because a valid rights object was not available to present the protected content contained in the MM)

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:	○	CombinedValid_0.dm

5.5.2.2.2 MMS-1.3-con-712 - Message presentation without valid rights: Separate delivery

Test Case Id	MMS-1.3-con-712
Test Object	Client B
Test Case Description	The purpose of this test is to verify that, in the absence of a required valid rights object for a protected content within an MM, the MMS Client presents the MM without the protected content, or restricts the presentation of the whole MM
Specification Reference	[MMSCONF] 16.2
SCR Reference	
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-712
Preconditions	-Client B terminal supports OMA DRM Separate delivery protection mechanisms
Test Procedure	1. In test tool, create MM that contains a combination of DRM Message(s) and DCF's protected objects (note: rights to be delivered separately) 2. In test tool, send MM to Client B 3. In Client B, receive MM without retrieving a valid rights object 4. Verify pass criteria (a) or (b) below
Pass Criteria	a) Client B presents the MM but without any protected content (note: the terminal could prompt a message indicating that the DRM protected content could not be presented) b) Client B restricts the presentation of the whole MM (note: the terminal could prompt a message indicating that the MM message could not be presented because a valid rights object was not available to present the protected content contained in the MM)

MM Content specific to this Test Case.

MM Content:	MMS Headers:	To	<address of Client B>
	MMS Content:		o int-5.dcf
			o JPG160X120.jpg

5.5.3 Re-submission Mode

5.5.3.1 Normal Flow

5.5.3.1.1 MMS-1.3-con-715 - Re-submission of MM not conformant to MM Content Class: re-submission FREE

Test Case Id	MMS-1.3-con-715
Test Object	Client B
Test Case Description	The purpose of this test is to verify that if the user is re-submitting a MM previously retrieved in terminal B that is NOT conforming to any MM Content Class in the Core MM Content Domain, the client is able to re-submit the MM as is, if the re-submission mode is set to FREE despite its creation mode is set to RESTRICTED.
Specification Reference	[MMSCONF] 15
SCR Reference	MMSCONF-CMO-C-009
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-715
Preconditions	-Client B creation mode is set to RESTRICTED re-submission mode is set to FREE -MMS Relay/Server Content adaptation deactivated
Test Procedure	1. In test tool, create MM not belonging to the Core MM Content Domain, add image file/object oma_in_colour.svg 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. In Client B, re-submit the received MM. 5. Verify the pass criteria below.
Pass Criteria	Client B is able to re-submit the received MM.

5.5.3.1.2 MMS-1.3-con-716 - Re-submission of MM not conformant to MM Content Class: re-submission WARNING

Test Case Id	MMS-1.3-con-716
Test Object	Client B
Test Case Description	The purpose of this test is to verify that if the user is re-submitting a MM previously retrieved in terminal B that is NOT conforming to any MM Content Class in the Core MM Content Domain , the client is able to re-submit the MM as is, if the re-submission mode is set to WARNING despite its creation mode is set to RESTRICTED and that Client B warns the user that the MM does not belong to the Core MM Content Domain.
Specification Reference	[MMSCONF] 15
SCR Reference	MMSCONF-CMO-C-008
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-716
Preconditions	-Client B creation mode is set to RESTRICTED re-submission mode is set to WARNING -MMS Relay/Server Content adaptation deactivated
Test Procedure	1. In test tool, create MM not belonging to the Core MM Content Domain, add image file/object oma_in_colour.svg 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. In Client B, re-submit the received MM 5. Verify the pass criteria below.
Pass Criteria	Client B displays a warning to the user indicating that the MM does not belong to the Core MM Content domain AND (a) or (b) below a) Client B is able to re-submit the MM if the user accepts to send the MM b) Client B does NOT re-submit the MM if the user does not accept to send the MM

5.5.3.1.3 MMS-1.3-con-717 - Re-submission of MM adding media object conformant to MM class with total size lower than maximum supported

Test Case Id	MMS-1.3-con-717
Test Object	Client B
Test Case Description	The purpose of this test is to verify that if the user is re-submitting a MM previously retrieved in terminal B, the user is able to add media object(s) conforming to the Core MM Content Domain and submit the MM when the total size of the MM is lower than the maximum size supported
Specification Reference	[MMSCONF] 15
SCR Reference	MMSCONF-CMO-C-009
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-717
Preconditions	-Client B creation mode is set to RESTRICTED re-submission mode is set to FREE supports addition of media objects to MM -MMS Relay/Server Content adaptation deactivated
Test Procedure	1. In test tool, create MM add image/objects JPG80X60.jpg, and JPG160X120.jpg 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. In Client B, add media object(s) conforming to the Core MM Content Domain (note: producing an MM with total size below the largest MM content class to which the MMS Client is conformant) 5. In Client B, re-submit MM to the Test Tool. 6. Verify the pass criteria below.
Pass Criteria	Client B is able to re-submit the MM with the object(s) added by the user

5.5.3.2 Error Flow

5.5.3.2.1 MMS-1.3-con-721 - No Re-submission of MM not conformant to MM Content Class: re-submission RESTRICTED

Test Case Id	MMS-1.3-con-721
Test Object	Client B
Test Case Description	The purpose of this test is to verify that if the user is re-submitting a MM previously retrieved in terminal B that is NOT conforming to the Core MM Content Domain, the client is NOT able to re-submit the MM, if the re-submission mode is set to RESTRICTED and the creation mode is set to RESTRICTED.
Specification Reference	[MMSCONF] 15
SCR Reference	MMSCONF-CMO-C-007
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-721
Preconditions	-Client B creation mode is set to RESTRICTED re-submission mode is set to RESTRICTED -MMS Relay/Server Content adaptation deactivated
Test Procedure	1. In test tool, create MM not belonging to the Core MM Content Domain, add image file/object oma_in_colour.svg 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. In Client B, try to re-submit MM 5. Verify the pass criteria below.
Pass Criteria	Client B is NOT able to re-submit the MM (note: terminal B should display a message to the user indicating why the MM can not be submitted)

5.5.3.2.2 MMS-1.3-con-722 - No Re-submission of MM adding media object not conformant to the Core MM Content Domain

Test Case Id	MMS-1.3-con-722
Test Object	Client B
Test Case Description	The purpose of this test is to verify that if the user is re-submitting a MM previously retrieved in terminal B and adds media object(s) not conforming to the Core MM Content Domain, the client is NOT able to re-submit the MM.
Specification Reference	[MMSCONF] 15
SCR Reference	MMSCONF-CMO-C-009
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-722
Preconditions	-Client B creation mode is set to RESTRICTED re-submission mode is set to FREE supports addition of media objects to MM -MMS Relay/Server Content adaptation deactivated
Test Procedure	1) In test tool, create MM, add image file/object oma_in_colour.svg and JPG80X60.jpg 2) In test tool, send MM to client B 3) In Client B, receive and open the MM. 4) In Client B, add media object not conforming to the Core MM Content Domain 5) Verify the pass criteria (a) or (b) below
Pass Criteria	(a) Client B is NOT able to add any media object not conforming to the Core MM Content Domain (b) In Client B, try to re-submit MM and Client B is NOT able to re-submit the MM (note: terminal B should warn the user that the media object he is trying to send is not conformant to the MM class terminal B supports)

5.5.3.2.3 MMS-1.3-con-723 - No Re-submission of MM adding media object conformant to MM class with total size larger than maximum supported

Test Case Id	MMS-1.3-con-723
Test Object	Client B
Test Case Description	The purpose of this test is to verify that if the user is re-submitting a MM previously retrieved in terminal B and adds media object(s) conforming to the Core MM Content Domain, the client is NOT able to re-submit the MM if the total size of the MM is larger than the maximum size supported
Specification Reference	[MMSCONF] 15
SCR Reference	MMSCONF-CMO-C-009
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-723
Preconditions	-Client B creation mode is set to RESTRICTED re-submission mode is set to FREE supports addition of media objects to MM -MMS Relay/Server Content adaptation deactivated
Test Procedure	1. In test tool, create MM, JPG80X60.jpg 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. In Client B, try to add media object conforming to the Core MM Content Domain (note: producing an MM with total size over the largest MM content class to which the MMS Client is conformant) 5. Verify the pass criteria (a) or (b) below
Pass Criteria	(a) Client B is NOT able to add media object producing an MM with total size over the largest MM content class to which the MMS Client is conformant to (b) In Client B, try to re-submit MM and Client B is NOT able to re-submit the MM (note: terminal B should warn the user that the total size of the MM is larger than the maximum size supported)

5.5.3.2.4 MMS-1.3-con-724 - Creation mode set to FREE; Re-submission mode follows Creation mode

Test Case Id	MMS-1.3-con-724
Test Object	Client B
Test Case Description	The purpose of this test is to verify that re-submission follows the creation mode when the creation mode is set to FREE
Specification Reference	[MMSCONF] 15
SCR Reference	missing
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-724
Preconditions	-Client B creation mode is set to FREE re-submission mode is set to RESTRICTED -MMS Relay/Server Content adaptation deactivated
Test Procedure	1. In test tool, create MM not belonging to the Core MM Content Domain add image file/object oma_in_colour.svg 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. In Client B,re-submit the received MM 5. Verify the pass criteria below.
Pass Criteria	Client B is able to re-submit the MM

5.5.3.2.5 MMS-1.3-con-725 - Creation mode set to WARNING; Re-submission mode follows Creation mode

Test Case Id	MMS-1.3-con-725
Test Object	Client B
Test Case Description	The purpose of this test is to verify that re-submission follows the creation mode when the creation mode is set to WARNING
Specification Reference	[MMSCONF] 15
SCR Reference	missing
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-725
Preconditions	-Client B creation mode is set to WARNING re-submission mode is set to RESTRICTED -MMS Relay/Server Content adaptation deactivated
Test Procedure	1. In test tool, create MM not belonging to the Core MM Content Domain add image file/object oma_in_colour.svg 2. In test tool, send MM to client B 3. In Client B, receive and open the MM. 4. In Client B, try to re-submit the received MM 5. Verify the pass criteria below.
Pass Criteria	Client B displays a warning to the user indicating that the MM does not belong to the Core MM Content domain AND (a) or (b) below a) Client B is able to re-submit the MM if the user accepts to send the MM b) Client B does NOT re-submit the MM if the user does not accept to send the MM

5.5.4 MMS Template Handling

5.5.4.1 MMS-1.3-con-761 - Valid MTD

Test Case Id	MMS-1.3-con-761
Test Object	Client B
Test Case Description	The purpose is to verify that Client B validates the MTD against the XML schema for a MMS Message Template before using the MTD for creating an MM, and pass if the MTD is valid.
Specification Reference	[MMSTEMP] Chapter 5.2.2.1
SCR Reference	MMSTEMP-MMSTC-C-001
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-761
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Headers.mtd (a multimedia object with MIME type “application/vnd.omammsg-mtd+xml” which is valid in respect of the XML schema described in Appendix B of [MMSTEMP])	

5.5.4.2 MMS-1.3-con-762 - Invalid MTD

Test Case Id	MMS-1.3-con-762
Test Object	Client B
Test Case Description	The purpose is to verify that Client B validates the MTD against the XML schema for a MMS Message Template before using the MTD for creating an MM, and ignore it if the MTD is not valid.
Specification Reference	[MMSTEMP] Chapter 5.2.2.1
SCR Reference	MMSTEMP-MMSTC-C-002
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-762
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is not used for creating MM.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition:	Invalid.mtd (a multimedia object with MIME type “application/vnd.omammsg-mtd+xml” which is invalid in respect of the XML schema described in Appendix B of [MMSTEMP])

5.5.4.3 MMS-1.3-con-763 - Supported MTD Version

Test Case Id	MMS-1.3-con-763
Test Object	Client B
Test Case Description	The purpose is to verify that Client B checks the version of the MTD, and pass if the version of MTD is supported.
Specification Reference	[MMSTEMP] Chapter 5.2.2.1
SCR Reference	MMSTEMP-MMSTC-C-003
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-763
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition:	Headers.mtd (a multimedia object with MIME type “application/vnd.omammsg-mtd+xml” and containing correct MMS Template Public and System Identifiers as defined in [MMSTEMP] v1.3)

5.5.4.4 MMS-1.3-con-764 - Unsupported MTD Version

Test Case Id	MMS-1.3-con-764
Test Object	Client B
Test Case Description	The purpose is to verify that Client B checks the version of the MTD, and terminates creation of an MM if the version of MTD is not supported.
Specification Reference	[MMSTEMP] Chapter 5.2.2.1
SCR Reference	MMSTEMP-MMSTC-C-004
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-764
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is not used for creating an MM.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition:	Unsupported_version.mtd (a multimedia object with MIME type “application/vnd.omammsg-mtd+xml” and containing MMS Template Public and System Identifiers not as defined in [MMSTEMP] v1.3)

5.5.4.5 MMS-1.3-con-765 - Replace media objects by target name

Test Case Id	MMS-1.3-con-765
Test Object	Client B
Test Case Description	The purpose is to verify that Client B replaces the media object specified by the target-name described at a step element in the wizard part of the Message Template Definition (MTD) and to verify that Client B reflects the change of the media object's name in the MMS presentation part of the MTD.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-001, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-765
Preconditions	-Client B Contains image file “JPG80x60.jpg” Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, create a new MM with MMS Message Template. 4. While creating MM with the Message Template in Client B, the user selects media object “JPG80x60.jpg” at the step in wizard. 5. In Client B send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	The Resulting MM sent from Client B has the replaced media object named “JPG80x60.jpg” as the target-name described in the step element. The Resulting MM sent from Client B has a MMS presentation part, which has a reference to the name of the replaced media object (“JPG80x60.jpg”).

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.related
MM Content:	MMS Message Template:	Multipart structure with the following sections:	
		- Message Template Definition:	File_manager.mtd (a multimedia object with MIME type "application/vnd.omammsg-mtd+xml" and which contains a wizard part with one step element to replace a media object)
		- JPEG Image file:	JPG60x80.jpg
		- MMS Presentation part:	Replace_media.smil (contains a reference to the replaceable media object)

5.5.4.6 MMS-1.3-con-766 - Add media objects by target name

Test Case Id	MMS-1.3-con-766
Test Object	Client B
Test Case Description	The purpose is to verify that Client B adds the media object named as the target-name described in a step element in the wizard part of the Message Template Definition (MTD).
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-001, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-766
Preconditions	-Client B Contains image file "JPG80x60.jpg" Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, create a new MM with MMS Message Template. 4. While creating MM with the Message Template in Client B, the user selects the media object "JPG80x60.jpg" at the step in wizard. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	The Resulting MM sent from Client B has the replaced media object named "JPG80x60.jpg" as the target-name described in the step element. The Resulting MM sent from Client B has a MMS presentation part, which has a reference to the name of the replaced media object ("JPG80x60.jpg").

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.related
MM Content:	MMS Message Template:	Multipart structure with the following sections:	
		- Message Template Definition:	File_manager.mtd
		(a multimedia object with MIME type “application/vnd.omammsg-mtd+xml” and which contains a wizard part with one step element to input a media object)	
		- MMS Presentation part:	Replace_media.smil
		(contains a reference to a media object)	

5.5.4.7 MMS-1.3-con-767 - Invalid target type for replacement

Test Case Id	MMS-1.3-con-767
Test Object	Client B
Test Case Description	The purpose is to verify that Client B prohibits replacement with a media object that violates the target type described in a step element in the wizard part of the Message Template Definition (MTD).
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-002, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-767
Preconditions	-Client B Contains image file “image.png” Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the user is not able to select the media object “image.png” that has a different MIME type from the target-type.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.related
MM Content:	MMS Message Template:	Multipart structure with the following sections: - Message Template Definition: File_manager.mtd (a multimedia object with MIME type “application/vnd.omammsg-mtd+xml” and which contains a wizard part with one step element to input a JPEG media object) - MMS Presentation part: Replace_media.smil (contains a reference to a media object)	

5.5.4.8 MMS-1.3-con-768 - Fixed media objects

Test Case Id	MMS-1.3-con-768
Test Object	Client B
Test Case Description	The purpose is to verify that Client B prohibits changing fixed media objects which are not specified in any step elements in the wizard part of the Message Template Definition (MTD).
Specification Reference	[MMSTEMP] Chapter 5.2.2.1
SCR Reference	MMSTEMP-WIZC-C-003, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-768
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the user is not able to replace media objects.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following sections: - Message Template Definition: Headers.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which does not contain a wizard part meaning that there is no way to replace a media object) - JPEG Image file: JPG60x80.jpg	

5.5.4.9 MMS-1.3-con-769 - Guidance message

Test Case Id	MMS-1.3-con-769
Test Object	Client B
Test Case Description	The purpose is to verify that Client B shows the guide message at the appropriate step in the wizard part of Message Template Definition (MTD).
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-004, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-769
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the guidance message is presented.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: File_manager.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which has the wizard part with a step element that has a guide attribute)	

5.5.4.10 MMS-1.3-con-770 - Input media object by plain text editor

Test Case Id	MMS-1.3-con-770
Test Object	Client B
Test Case Description	The purpose is to verify that Client B supports the replacement of a media object using the plain text editor while creating an MM with a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-005, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-770
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template Support to launch text editor application to replace the text
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user inputs the text “Test” in the text editor application. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the plain text editor is launched for replacing the media object. The Resulting MM sent from Client B has a content part with type text/plain, which contains the string “Test”.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following sections:	
		- Message Template Definition:	Text_editor.mtd
		(a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which uses the plain text editor in the first step)	
		- Text file:	Generic_Text.txt

5.5.4.11 MMS-1.3-con-771 - Input media object by file manager

Test Case Id	MMS-1.3-con-771
Test Object	Client B
Test Case Description	The purpose is to verify that Client B supports the replacement of a media object using the file manager while creating an MM with a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-005, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-771
Preconditions	-Client B Contains image file "JPG80x60.jpg" Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template Support to launch file manager application to replace the media object
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user selects the media object with "JPG80x60.jpg" in the file manager application. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the file manager is launched to replace the media object. The Resulting MM sent from Client B has the image file "JPG80x60.jpg".

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed

MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: File_manager.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which uses the file manager in the first step)

5.5.4.12 MMS-1.3-con-772 - Input media object by address book

Test Case Id	MMS-1.3-con-772
Test Object	Client B
Test Case Description	The purpose is to verify that Client B supports the replacement of a media object using the address book while creating an MM with a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-005, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-772
Preconditions	-Client B Contains address book entry containing all supported fields in "John Doe.vcf" Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template Support to launch address book application to input address book entry Support for vCard (media type text/x-vcard)
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user selects the address book entry in the address book application. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the address book is launched to replace the media object. The Resulting MM sent from Client B shall contain a part with content type set to text/x-vCard.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Address_book.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which uses the address book in the first step)	

5.5.4.13 MMS-1.3-con-773 - Input media object by still-camera application

Test Case Id	MMS-1.3-con-773
Test Object	Client B
Test Case Description	The purpose is to verify that Client B supports the replacement of a media object using the still-camera application while creating an MM with a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-005, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-773
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template Support to launch still-camera application to input the media object
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user inputs the media object in the still-camera application. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the still-camera application is launched to replace the media object. The Resulting MM sent from Client B shall contain a part with content type set to image/jpeg.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Still_camera.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which uses the still-camera application in the first step)	

5.5.4.14 MMS-1.3-con-774 - Input media object by video-camera application

Test Case Id	MMS-1.3-con-774
Test Object	Client B
Test Case Description	The purpose is to verify that Client B supports the replacement of a media object using the video-camera application while creating an MM with a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-005, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-774
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template Support to launch video-camera application to input the media object Support for media type video/3gpp
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user inputs the media object in the video-camera application. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the video-camera application is launched to replace the media object. The Resulting MM sent from Client B shall contain a part with content type set to video/3gpp.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed

MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Video_camera.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which uses the video-camera application in the first step)

5.5.4.15 MMS-1.3-con-775 - Input media object by sound recorder application

Test Case Id	MMS-1.3-con-775
Test Object	Client B
Test Case Description	The purpose is to verify that Client B supports the replacement of a media object using the sound recorder application while creating an MM with a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-005, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-775
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template Support to launch sound recorder application to input the media object Support for media type audio/amr
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user inputs the media object in the sound recorder application. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the sound recorder application is launched to replace the media object. The Resulting MM sent from Client B shall contain a part with content type set to audio/amr.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed

MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Sound_recorder.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which uses the sound recorder application in the first step)

5.5.4.16 MMS-1.3-con-776 - Input media object by rich text editor

Test Case Id	MMS-1.3-con-776
Test Object	Client B
Test Case Description	The purpose is to verify that Client B supports the replacement of a media object using the rich text editor while creating an MM with a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-005, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-776
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template Support to launch rich text editor application to replace the text Support for media file application/vnd.wap.xhtml+xml
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user inputs the text string given in “Generic_Text.txt” as rich text using the rich text editor application. 5. In Client B, send MM to Test Tool. 6. In the Test Tool, accept the message. 7. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In creating the MM, the rich text editor is launched to replace the media object. The Resulting MM sent from Client B shall contain a part with content type set to “application/vnd.wap.xhtml+xml”.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS	Content-Type	application/vnd.wap.multipart.mixed

	Headers:	
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Rich_text_editor.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which uses the rich text editor application in the first step)

5.5.4.17 MMS-1.3-con-777 - Forward/Backward navigation with steps

Test Case Id	MMS-1.3-con-777
Test Object	Client B
Test Case Description	The purpose is to verify that Client B can go forward/backward to the next/previous step between several steps in the wizard part of a Message Template Definition (MTD).
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZC-C-007, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-777
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. In Client B, go forward to the next step. 5. In Client B, go backward to the previous step. 6. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. While creating the MM, the Client B can go forward and backward between the steps.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Navi_req.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which has a wizard part with more than one step element)	

5.5.4.18 MMS-1.3-con-778 - Check for required attribute

Test Case Id	MMS-1.3-con-778
Test Object	Client B
Test Case Description	The purpose is to verify that Client B checks whether the "required" attribute is indicated for media objects within the steps of the wizard part of a Message Template Definition (MTD), and does not send the MM if the required media objects are not appropriately input.
Specification Reference	[MMSTEMP] Chapter 5.2.2.2
SCR Reference	MMSTEMP-WIZ-C-008, MMSTEMP-MMSTC-C-011
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-778
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template Support the wizard function in MMS Client with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM. 4. While creating MM with the Message Template in Client B, the user tries to create and send the Resulting MM without adding media objects at either of the wizard steps. 5. While creating MM with the Message Template in Client B, the user adds the text string defined in "Generic_text.txt" using the text editor application at the first step in the wizard. 6. In Client B, send MM to Test Tool. 7. In the Test Tool, accept the message. 8. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. In test procedure 4, Client B does not send the Resulting MM. In test procedure 6, Client B sends the Resulting MM and the Test Tool has received the resulting MM containing a part of Content-Type text/plain containing the text string given in "Generic_Text.txt".

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Navi_req.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which has a wizard part with two-step elements. The first step element uses the text editor application and has the “required” attribute)	

5.5.4.19 MMS-1.3-con-779 - Set header values

Test Case Id	MMS-1.3-con-779
Test Object	Client B
Test Case Description	The purpose is to verify that Client B sets the MMS header values of the Resulting MM that was made using a MMS Message Template.
Specification Reference	[MMSTEMP] Chapter 5.2.2.3
SCR Reference	MMSTEMP-MMSTC-C-014
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-779
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, create a new MM with MMS Message Template. 4. In Client B, send MM to Test Tool. 5. In the Test Tool, accept the message 6. Verify the pass criteria below.
Pass Criteria	The To field and the Cc field of the Send Request contain the addresses of the addressed clients, and the Subject field contains the subject of the message, as given in the header elements of “Headers.mtd”.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Headers.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which has the message part with to-header, cc-header, and subject-header elements)	

5.5.4.20 MMS-1.3-con-780 - Make pre-filled MMS header values available to the user

Test Case Id	MMS-1.3-con-780
Test Object	Client B
Test Case Description	The purpose is to verify that Client B makes pre-filled MMS header values of the resulting MM available to the user before sending the MM.
Specification Reference	[MMSTEMP] Chapter 5.2.2.3
SCR Reference	MMSTEMP-MMSTC-C-015
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-780
Preconditions	-Client B Capability: Support to receive MMS Message Template Support to create MM with MMS Message Template
Test Procedure	1. In Test Tool, send MM notification to Client B. 2. In Client B, receive the MM notification and retrieve the MM that contains a MMS Message Template. 3. In Client B, select the received MMS Message Template for creating MM and create a new MM with the Message Template. 4. In Client B, send MM to Test Tool. 5. Verify the pass criteria below.
Pass Criteria	Client B has received the MMS Message Template as a message. The MMS Message Template is used for creating an MM. After creating the MM, Client B has made available to the user the pre-filled MMS header information before sending, for example, by displaying each of the pre-filled header values. Note: The SCR item MMSTEMP-MMSTC-C-015 only specifies that headers should be made available to the user, but does not specify how to make them available. The method of making them available to the user is dependent upon the client's implementation.

MM Content specific to this Test Case:

MM Content for Step 2:

MM Content:	MMS Headers:	Content-Type	application/vnd.wap.multipart.mixed
MM Content:	MMS Message Template:	Multipart structure with the following section: - Message Template Definition: Headers.mtd (a multimedia object, with MIME type “application/vnd.omammsg-mtd+xml”, which has the message part with to-header, cc-header, and subject-header elements)	

5.6 CLIENT ENCAPSULATION

5.6.1 Sending of Multimedia Messages

5.6.1.1 MMS-1.3-con-731 - Support for X-Mms-Message-Type field

Test Case Id	MMS-1.3-con-731
Test Object	Client A
Test Case Description	When a client sends a Send Request, then the M-Send.req.PDU contains an X-Mms-Message-Type field with the value m-send-req
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-016
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-731
Preconditions	Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req.PDU from Client A contains an X-Mms-Message-Type field with the value m-send-req

5.6.1.2 MMS-1.3-con-732 - Support for X-Mms-Transaction-ID field

Test Case Id	MMS-1.3-con-732
Test Object	Client A
Test Case Description	When a client sends a Send Request, then the M-Send.req.PDU contains a X-Mms-Transaction-ID field.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-017
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-732
Preconditions	Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req.PDU from Client A contains an X-Mms-Transaction-ID

5.6.1.3 MMS-1.3-con-733 - Support for Date field

Test Case Id	MMS-1.3-con-733
Test Object	Client A
Test Case Description	If the client supports dates: when a client sends a Send Request, then the M-Send.req.PDU contains a Date field that contains date and time that the request was sent
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-019
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-733
Preconditions	Client A supports dates; Client clock correct
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In Client A, send MM to Test Tool and note the time and date of sending. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req.PDU contains a correctly formatted Date field that contains date and time that the request was sent, accurate to within + or – 10 minutes.

5.6.1.4 MMS-1.3-con-734 - Support for From field

Test Case Id	MMS-1.3-con-734
Test Object	Client A
Test Case Description	When a client sends a Send Request, then the M-Send.req.PDU contains a From field with valid content
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-020
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-734
Preconditions	Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	M-Send.req.PDU contains a From field that contains either the “Insert Address Token” attribute or the address of Client A

5.6.1.5 MMS-1.3-con-735 - Support for To field

Test Case Id	MMS-1.3-con-735
Test Object	Client A
Test Case Description	When a client sends a message to another client, then the To field of the Send Request contains the address of the addressed client.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-021, MMSE-C-024
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-735
Preconditions	Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	To field of the Send Request contains the address of the addressed client.

5.6.1.6 MMS-1.3-con-736 - Support for Cc field

Test Case Id	MMS-1.3-con-736
Test Object	Client A
Test Case Description	When a client carbon copies a message to another client, then the Cc field of the Send Request contains the address of the addressed client
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-022, MMSE-C-024
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-736
Preconditions	Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To field is set to any legal value as required by Client software and CC-field is set to a legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	Cc field of the Send Request contains the address of the copied client

5.6.1.7 MMS-1.3-con-737 - Support for Bcc field

Test Case Id	MMS-1.3-con-737
Test Object	Client A
Test Case Description	When a client blind carbon copies a message to another client, then the Bcc field of the Send Request contains the address of the addressed client.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-023, MMSE-C-024
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-737
Preconditions	Client A
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To field is set to any legal value, as required by Client software and Bcc-field is set to a legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU.. 5. Verify the pass criteria below.
Pass-Criteria	Bcc field of the Send Request contains the address of the blind-copied client

5.6.1.8 MMS-1.3-con-738 - Support for Subject field

Test Case Id	MMS-1.3-con-738
Test Object	Client A
Test Case Description	When a client sends a message to another client and includes a subject for the message, then the Subject field of the Send request contains this subject.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1) [MMSCONF] Chapter 10.2.4 (Table 14)
SCR Reference	MMSE-C-025
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-738
Preconditions	Client A Max Subject field length limit of User Interface = X characters, where X <= 40. If User Interface subject field length limit is > 40, set X = 40
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address. Subject field is set to the first X characters of "A_long_Subject_field_with_40_characters!". 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	Subject field of the Send request contains the first X characters of "A_long_Subject_field_with_40_characters!"

5.6.1.9 MMS-1.3-con-739 - Support for X-Mms-Message-Class field

Test Case Id	MMS-1.3-con-739
Test Object	Client A
Test Case Description	When a client sends a Send Request and the M-Send.req.PDU contains a X-Mms-Message-Class with the value Auto, then the X-Mms-Delivery-Report field has the value No.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1)
SCR Reference	MMSE-C-026, MMSE-C-031
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-739
Preconditions	Client A: Capability: Generate “Auto” class MM
Test Procedure	1. In Client A, create a new “Auto” MM. 2. In MM header: To-field is set to any legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req.PDU contains a X-Mms-Message-Class with the value Auto and a X-Mms-Delivery-Report field that has the value No

5.6.1.10 MMS-1.3-con-740 - Support for X-Mms-Expiry field – Relative

Test Case Id	MMS-1.3-con-740
Test Object	Client A
Test Case Description	When the client sends a Send Request with a relative expiry time, then the M-Send.req PDU contains an X-Mms-Expiry field that has the value Relative followed by the maximum length of time the MM will be stored in MMS Proxy-Relay before deletion.
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1
SCR Reference	MMSE-C-027
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-740
Preconditions	Client A able to set relative expiry time
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and relative expiry time is set to 24 hours (i.e. 1 day) or an equivalent permitted by the User Interface of the Client. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	M-Send.req PDU contains a X-Mms-Expiry field that has the value Relative followed by the value entered at step 2 of the Test Procedure (in seconds).

5.6.1.11 MMS-1.3-con-741 - Support for X-Mms-Expiry field – Absolute

Test Case Id	MMS-1.3-con-741
Test Object	Client A
Test Case Description	When the client sends a Send Request with an Absolute expiry time, then the M-Send.req PDU contains an X-Mms-Expiry field that has the value Absolute, followed by the date at which the MM is to be deleted.
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1
SCR Reference	MMSE-C-027
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-741
Preconditions	Client A able to set absolute expiry time
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and absolute expiry time set to 29 February 2012 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	M-Send.req PDU contains a X-Mms-Expiry field that has the value Absolute followed by the date 29 February 2012

5.6.1.12 MMS-1.3-con-742 - Support for X-Mms-Delivery-Time field – Relative

Test Case Id	MMS-1.3-con-742
Test Object	Client A
Test Case Description	When the client sends a Send Request with a relative delivery time, then the M-Send.req PDU contains an X-Mms-Delivery-Time field with the value Relative followed by the period before which the message must not be delivered
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1 [MMSENC] Chapter 7.2.13
SCR Reference	MMSE-C-028
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-742
Preconditions	Client A able to set relative delivery time
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and delivery time is set to Relative with a value of 24 hours (i.e. 1 day) or an equivalent permitted by the User Interface of the Client. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req PDU contains a X-Mms-Delivery-Time field that has the value Relative followed by the value entered at step 2 of the Test Procedure (in seconds).

5.6.1.13 MMS-1.3-con-743 - Support for X-Mms-Delivery-Time field – Absolute

Test Case Id	MMS-1.3-con-743
Test Object	Client A
Test Case Description	When the client sends a Send Request with an Absolute delivery time, then the M-Send.req PDU contains an X-Mms-Delivery-Time field with the value Absolute followed by the date before which the message must not be delivered
Specification Reference	[MMSENC] Chapter 6.1.1 Table 1 [MMSENC] Chapter 7.2.13.
SCR Reference	MMSE-C-028
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-743
Preconditions	Client A able to set absolute delivery time
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and delivery time set to Absolute with a value set to 29 February 2012. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req PDU contains a X-Mms-Delivery-Time field that has the value Absolute followed by the value 29 February 2012

5.6.1.14 MMS-1.3-con-744 - Support for X-Mms-Priority field – Low

Test Case Id	MMS-1.3-con-744
Test Object	Client A
Test Case Description	When a client sends a Send Request with a Low priority, then the X-Mms-Priority field has the value Low.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1) [MMSENC] Chapter 7.2.28
SCR Reference	MMSE-C-029
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-744
Preconditions	Client A capable of setting priority
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and Priority set to Low. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req PDU X-Mms-Priority field has the value Low

5.6.1.15 MMS-1.3-con-745 - Support for X-Mms-Priority field – Normal

Test Case Id	MMS-1.3-con-745
Test Object	Client A
Test Case Description	When a client sends a Send Request with a Normal priority, then the X-Mms-Priority field has the value Normal..
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1) [MMSENC] Chapter 7.2.28
SCR Reference	MMSE-C-029
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-745
Preconditions	Client A capable of setting priority
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and Priority set to Normal. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req PDU X-Mms-Priority field is either absent or, if present, has the value Normal

5.6.1.16 MMS-1.3-con-746 - Support for X-Mms-Priority field – High

Test Case Id	MMS-1.3-con-746
Test Object	Client A
Test Case Description	When a client sends a Send Request with a High priority, then the X-Mms-Priority field has the value High.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1) [MMSENC] Chapter 7.2.28
SCR Reference	MMSE-C-029
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-746
Preconditions	Client A capable of setting priority
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and Priority set to High. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req PDU X-Mms-Priority field has the value High

5.6.1.17 MMS-1.3-con-747 - Support for X-Mms-Delivery-Report field

Test Case Id	MMS-1.3-con-747
Test Object	Client A
Test Case Description	When the client sends a Send Request and requests that each recipient should return a delivery report, then the X-Mms-Delivery-Report field shall have the value Yes..
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1) [MMSENC] Chapter 7.2.7
SCR Reference	MMSE-C-031
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-747
Preconditions	Client A able to request Delivery Reports
Test Procedure	1. In Client A, create a new MM. 2. In MM header: To-field is set to any legal address and a Delivery Report is requested 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req PDU X-Mms-Delivery field is present and has the value Yes, and the X-Mms-Message-Class, if present, is not set to Auto

5.6.1.18 MMS-1.3-con-748 - Support for X-Mms-Read-Report field

Test Case Id	MMS-1.3-con-748
Test Object	Client A
Test Case Description	When the client sends a Send Request and requests that each recipient should return a read report, then the X-Mms-Read-Report field contains the value Yes.
Specification Reference	[MMSENC] Chapter 6.1.1 (Table 1) [MMSENC] Chapter 7.2.30
SCR Reference	MMSE-C-032
Tool	MMS Conformance tool
Test code	Validated test code for test case MMS-1.3-con-748
Preconditions	Client A able to request read reports
Test Procedure	1. In Client A, create a new MM with Read reports requested. 2. In MM header: To-field is set to any legal address. 3. In Client A, send MM to Test Tool. 4. Test Tool responds to Client A with an M-Send.conf PDU. 5. Verify the pass criteria below.
Pass-Criteria	The M-Send.req PDU X-Mms-Read-Report field is present and contains the value Yes.

5.6.1.19 MMS-1.3-con-749 - Support for X-MMS-Adaptation-Allowed field

Test Case Id	MMS-1.3-con-749
Test Object	Client A
Test Case Description	The purpose is to verify that the X-Mms-Adaptation-Allowed field is sent from Client A.
Specification Reference	[MMSENC] Table 1
SCR Reference	MMSE-SND-C-037
Tool	MMS Conformance tool
Test Code	Validated test code for test case MMS-1.3-con-749
Preconditions	-Client A Capability: To set X-Mms-Adaptation-Allowed Setting: Set the Adaptation field to “Yes”
Test Procedure	8. In Client A, create a new MM. 9. In MM header: To-field is set to a legal address 10. In MM content: In the message text part, enter the text “Hello World”. 11. Add a image/object JPG1000x500.jpg to the message 12. In Client A, send MM to Test Tool. 13. In test Tool, accept the MM 14. Verify the pass criteria below.
Pass Criteria	Client A has sent the message successfully and the received message within the test tool has the right encoded field for X-MMS-Adaptation-Allowed with the value “YES”.

Appendix A. Change History (Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

A.2 Draft/Candidate Version 1.3 History

Document Identifier	Date	Sections	Description
Draft Version OMA-ETS-MMS-CON-V1_3-20050413	13 Apr 2005	n/a	The initial draft version of this document created from OMA-IOP-MMS-ETS-V1_2_0-20041118-A.doc, by removing the interoperability test cases, updating to version to 1.3 and applying outstanding agreed CRs.
Draft Version OMA-ETS-MMS-CON-V1_3-2005xxxx	21 Aug 2005	5.2.2.6, 5.3.2.3 5.3.1, 5.3.2 5.4.2, 5.8.2 5.8.3, 5.7.2.6 App. A	Incorporation of CRs: OMA-IOP-MMS-2005-0069R02 OMA-IOP-MMS-2005-0071R01 OMA-IOP-MMS-2005-0072R02 OMA-IOP-MMS-2005-0076R02 OMA-IOP-MMS-2005-0077R03 OMA-IOP-MMS-2005-0102 OMA-IOP-MMS-2005-0158
Draft Version OMA-ETS-MMS-CON-V1_3-20051031	31 Oct 2005	5.2.2.6, 5.3.2.1, 5.3.2.2, 5.3.2.2 5.3.4, 5.3.4.1, 5.3.4.2	Incorporation of CRs: OMA-IOP-MMS-2005-0152 OMA-IOP-MMS-2005-0185R01-Hyperlinks OMA-IOP-MMS-2005-0186R02 OMA-IOP-MMS-2005-0189R02 OMA-IOP-MMS-2005-0187R01 OMA-IOP-MMS-2005-0188R01
Draft Version OMA-ETS-MMS-CON-V1_3-20051130	30 Nov 2005	5.2.1.1.9, 5.2.2.1.2, 5.3.2.2.2, 5.3.3.1.3, 5.5.1.1.5, 5.5.2.1.2, 5.2.2.5.1, 5.2.2.5.2, 5.3.3.5.1, 5.3.3.5.2, 5.7.2.1, 5.7.2.2, 5.7.2.3, 5.7.2.4, 5.2.2.1.1, 5.2.2.1.2, 5.2.1.1.7, 5.3.2.2.6, 5.3.2.2.7, 5.9.1.19, 5.8.4, 5.2.2.3.2, 5.2.2.4.3 –5.2.2.4.10, 5.3.3.3.2, 5.3.3.4.3 –5.3.3.4.10	Incorporation of CRs: OMA-IOP-MMS-2005-0218 OMA-IOP-MMS-2005-0220 OMA-IOP-MMS-2005-0221 OMA-IOP-MMS-2005-0222 OMA-IOP-MMS-2005-0223 OMA-IOP-MMS-2005-0232 OMA-IOP-MMS-2005-0205 OMA-IOP-MMS-2005-0216R03 OMA-IOP-MMS-2005-0247 OMA-IOP-MMS-2005-0248
Draft Version OMA-ETS-MMS-CON-V1_3-20051201	01 Dec 2005	All	Restructuring of the document in line with the proposal in OMA-IOP-MMS-2005-0241R01--MMS-1.3----ETS-CON-structure-change
Draft Version OMA-ETS-MMS-CON-V1_3-20060216	16 Feb 2006	5.4.4, 5.2.4.1.1, 5.2.4.2.1, 5.1.2, 5.2.3, 5.2.4, 5.1.2.6, 5.1.3, 5.2.3.6, 5.1.2.6, 5.2.3.6, 5.2.4, 5.2.3.2.9, 5.2.3.2.10, 5.1.2.2.9, 5.2.3.2.11, 5.1.2.5, 5.2.3.5, 5.1.1.1.11, 5.1.1.1.12, 5.4.3	Incorporation of CRs: OMA-IOP-MEC-2005-0030R01 OMA-IOP-MEC-2006-0008 OMA-IOP-MEC-2006-0011 OMA-IOP-MEC-2006-0012 OMA-IOP-MEC-2006-0051R01 OMA-IOP-MEC-2006-0066R02 OMA-IOP-MEC-2006-0052R01 OMA-IOP-MEC-2006-0053R01 OMA-IOP-MEC-2006-0064R01 CR OMA-IOP-MEC-2006-0067R01 OMA-IOP-MEC-2006-0118
Draft Version OMA-ETS-MMS-CON-V1_3-20060307	07 Mar 2006	All	Incorporation of CR: OMA-IOP-MEC-2006-0149

Document Identifier	Date	Sections	Description
Draft Version OMA-ETS-MMS-CON-V1_3-20060404	04 Apr 2006	5.2.2.1.1, 5.5.1.1, 5.5.1.2, 5.2.4.1.1, 5.2.4.2.1, 5.1.2.6.1, 5.1.2.6.3, 5.2.3.6.1, 5.2.3.6.2 All of section 6.	Incorporation of CRs: OMA-IOP-MEC-2006-0120R01 OMA-IOP-MEC-2006-0121R01 OMA-IOP-MEC-2006-0144 OMA-IOP-MEC-2006-0164R01 OMA-IOP-MEC-2006-0173
Draft Version OMA-ETS-MMS-CON-V1_3	06 Apr 2006	n/a	OMA-TP-2006-0130
Candidate version OMA-ETS-MMS-CON-V1_3	25 Apr 2006	n/a	Approved through TP R&A 12 to 25 Apr 2006 OMA-TP-2006-0130-OMA-ETS-MMS-V1_3_for_Approval
Draft version OMA-ETS-MMS-CON-V1_3-20060612	12 June 2006	5.5.2.1.2, 5.5.2.1.3, 5.5.2.1.4, 5.5.2.2.1, 5.1.1.1.7 5.2.4.2.1, 5.2.4.2.2, 5.2.3.2.10 5.2.2.3.1, 5.2.2.3.1, 5.1.2.6.3, 5.2.4.2.1 Appendix B, 5.1.1.1.6, 5.1.1.1.7, 5.1.2.4.3, 5.1.2.4.4, 5.1.2.4.5, 5.1.2.4.6, 5.1.2.4.7, 5.1.2.4.8, 5.1.2.4..9, 5.1.2.4.10, 5.4.1.1, 5.4.1.2, 5.4.1.3, 5.4.1.4, 5.5.1.3	Incorporation of CRs: OMA-IOP-MEC-2006-0241R03 OMA-IOP-MEC-2006-0255R01 OMA-IOP-MEC-2006-0259 OMA-IOP-MEC-2006-0260-MMS-content-EXIF-JFIF OMA-IOP-MEC-2006-0239R01-MMS-ETS-Editorial-changes OMA-IOP-MEC-2006-0319R02-MMS-1.3-ICS-IXIT-extension
Draft version OMA-ETS-MMS_CON-V1_3	15 Jun 2006	n/a	Agreed in IOP
Candidate Version OMA-ETS-MMS_CON-V1_3	25 Jul 2006	n/a	Re-approved as Candidate on TP R&A Doc ref: OMA-TP-2006-0236-OMA-ETS-MMS_CON-V1_3_for_re-approval_as_Candidate.zip
	08 Feb 2007	5.1.1.1.6, 5.1.1.1.8, 5.1.1.1.10, 5.1.2.6.3, 5.1.3.1.2, 5.1.3.1.3 5.1.3.1.4, 5.2.1.2, 5.2.2.1.9, 5.2.2.2.5, 5.2.3.6.1. 5.2.3.6.2 5.2.2.1.10, 5.2.2.1.12 5.2.2.1.14, 5.2.2.3.1 5.4.1.1, 5.4.1.2, 5.4.1.3, 5.4.1.4, 5.4.1.5, 5.4.2.1, 5.4.2.2, 5.4.2.3, 5.4.2.4, 5.4.3.3, 5.4.3.4, 5.4.3.5 5.4.3.6, 5.4.3.7, 5.4.3.8 5.4.2.5, 5.5.2.1.1,5.5.2.1.2, 5.5.2.1.3, 5.5.2.1.4, 5.5.3.1.3, App B.3, B.4, B.5	Incorporated CRs: OMA-IOP-MEC-2006-0415R01 OMA-IOP-MEC-2006-0416R02 OMA-IOP-MEC-2006-0419R01 OMA-IOP-MEC-2006-0420 OMA-IOP-MEC-2006-0443 OMA-IOP-MEC-2006-0444 OMA-IOP-MEC-2006-0461 OMA-IOP-MEC-2006-0471
Draft Version OMA-ETS-MMS_CON-V1_3	10 Dec 2007	5.1.2.5, 5.2.1, 5.2.3.5,	Incorporated CRs: OMA-IOP-MEC-2007-0070 OMA-IOP-MEC-2006-0157
	14 Dec 2007	n/a	IOP WG agreed. IOP doc ref. # OMA-IOP-2007-0270-INP_Updated_MMS_V1_3_CON_ETS
Candidate Version OMA-ETS-MMS_CON-V1_3	28 Jan 2008	n/a	Prepared for TP notification as OMA-TP-2007-0501R01-INP_ETS_MMS_CON_V1_3_for_Notification.zip
Draft Version OMA-ETS-MMS_CON-V1_3	01 Apr 2008	App B, 5.1.1.1.7	Incorporated CRs: OMA-IOP-MEC-2007-0020 OMA-IOP-MEC-2007-0093 Editorial updates
Candidate Version OMA-ETS-MMS_CON-V1_3	16 Apr 2008	n/a	TP notification ref# OMA-TP-2008-0176-INP_MMS_1.3_CON_ETS_for_Notification

Document Identifier	Date	Sections	Description
Draft Version OMA-ETS-MMS_CON-V1_3	04 Jul 2008	App C	Incorporated CR: OMA-IOP-MEC-2008-0110
Candidate Version OMA-ETS-MMS_CON-V1_3	18 Jul 2008	n/a	TP notification ref# OMA-TP-2008-0279- INP_MMS_1.3_CON_ETS_for_notification
Draft Version OMA-ETS-MMS_CON-V1_3	28 Aug 2008	App B	Incorporated CR: OMA-IOP-MEC-2008-0133R01 OMA-IOP-MEC-2008-0144R01
	03 Sep 2008	App B	Incorporated CR: OMA-IOP-MEC-2008-0145R01 OMA-IOP-MEC-2008-0147
	30 Oct 2008	App B	Incorporated CR: OMA-IOP-MEC-2008-0182
Candidate Version OMA-ETS-MMS_CON-V1_3	06 Nov 2008	n/a	TP notification ref# OMA-TP-2008-0436- INP_MMS_1.3_CON_ETS_for_notification
Draft Version OMA-ETS-MMS_CON-V1_3	02 Apr 2009	5.1.1.1.11	Incorporated CR: OMA-IOP-MEC-2009-0047
	07 May 2009	5.3	Incorporated CR: OMA-IOP-MEC-2009-0072 OMA-IOP-MEC-0074R01
Candidate Version OMA-ETS-MMS_CON-V1_3	18 May 2009	n/a	TP notification ref# OMA-TP-2009-0219- INP_MMS_1.3_CON_ETS_for_notification
Draft Version OMA-ETS-MMS_CON-V1_3	01 Oct 2010	5.1.1.1.10, 5.2.2.1.8, 5.2.2.1.9, 5.2.3.5.2 B2, B5	Incorporated CR: OMA-IOP-MEC-2010-0074- CR_MMS_1_3_con_171_Applicability_Correction OMA-IOP-MEC-2010-0075R01- CR_MMS_1_3_con_208_209_Pass_Criteria_Clarification OMA-IOP-MEC-2010-0083-CR_MMS13_vCalendar
Candidate Version OMA-ETS-MMS_CON-V1_3	15 Oct 2010	n/a	TP notification ref# OMA-TP-2010-0442-INP_MMS_13_ETS_CON_For_Notification
Draft Version OMA-ETS-MMS_CON-V1_3	17 Feb 2011	5.2.2.1.9	Incorporated CR: OMA-IOP-MEC-2011-0008-CR_MMS_1.3_Correction_TC_209
	20 Nov 2012	B2, B3, B5	Incorporated CR: OMA-IOP-MEC-2012-0140R01-CR_MMS_1.3_ETS_update.doc
Candidate Version OMA-ETS-MMS_CON-V1_3	30 Nov 2012	n/a	OMA-TP-2012-0451- INP_MMS_V1_3_CON_ETS_for_Notification
Draft Version OMA-ETS-MMS_CON-V1_3	17 Jan 2013	B2, B3, B5	Incorporated CR: OMA-IOP-MEC-2012-0164R01- CR_MMS_1.3_ETS_Creation_mode_Restricted
Candidate Version OMA-ETS-MMS_CON-V1_3	05 Feb 2013	n/a	TP notification ref# OMA-TP-2013-0032- INP_MMS_V1_3_CON_ETS_for_notification

Appendix B. Test Cases applicability

B.1 Introduction

This section shall help implementers of the MMS Enabler to select appropriate test cases that are applicable to the features implemented.

This appendix lists all test cases testing only mandatory features, ICS (Implementation Conformance Specification) , IXIT (protocol implementation extra information) and a mapping from ICS/IXIT to applicable test cases as defined by Open Mobile Alliance.

B.2 Test Cases testing only mandatory features

These test cases are independent from any precondition, are testing only mandatory SCRs and SHALL be run with every terminal.

Test Case
MMS-1.3-con-116 - JPG Image size 160x120
MMS-1.3-con-120 - GIF Image size 160x120
MMS-1.3-con-124 - Animated GIF Image size 160x120
MMS-1.3-con-210 - Long Content-Location field
MMS-1.3-con-271 - Long Subject field
MMS-1.3-con-272 - Long X-Mms-Content-Location field in Notification
MMS-1.3-con-273 - Size Indication in Notification – Non-rejection of incoming MM
MMS-1.3-con-212 - Text with US-ASCII encoding
MMS-1.3-con-213 - Text with UTF-8 encoding
MMS-1.3-con-216 - JPG Image size 160x120
MMS-1.3-con-220 - GIF Image size 160x120
MMS-1.3-con-224 - Animated GIF Image size 160x120
MMS-1.3-con-281- Receive unrecognised header field
MMS-1.3-con-282- Receive recognised fields with unrecognised values
MMS-1.3-con-731 - Support for X-Mms-Message-Type field
MMS-1.3-con-734 - Support for From field

B.3 ICS

Applicable column shall be marked “YES” for those features that are supported by the device.

Preconditions		**Applicable**
ICS	*Description*	*(yes/no)*
ics_smil	Client supports SMIL	
ics_portait	Client is capable of creating MMs with Portrait layout	
ics_landscape	Client is capable of creating MMs with Landscape layout	
ics_diff_page_timing	Client can set different page timings in SMIL presentation	

ics_diff_page_timing_with_media	Client can set different page timings when media as video or audio is added to a page	
ics_utf8_subject	UTF-8 encoding of Subject field	
ics_usascii	US-ASCII for text input	
ics_utf8	UTF-8 charset encoding sending/receiving	
ics_utf16	UTF-16 encoding	
ics_cc_text	Content class Text	
ics_cc_image_basic	Content class Image Basic	
ics_cc_image_rich	Content class Image Rich	
ics_cc_video_basic	Content class Video Basic	
ics_cc_video_rich	Content class Video Rich	
ics_cc_megapixel	Content class Megapixel	
ics_cc_content_basic	Content class Content Basic	
ics_cc_content_rich	Content class Content Rich	
ics_postcard	Client supports Postcard service	
ics_hyperlink	Client supports Hyperlinks	
ics_amr_audio	Client supports AMR Audio	
ics_3gpp_video	Client supports video/3gpp	
ics_13k_audio	Client supports 13k Audio	
ics_mpeg4	Client supports MPEG4	
ics_h263	Client supports H.263	
ics_huffmann	Client support Huffmann code in JPEG	
ics_vcard	vCard	
ics_vcal	vCalendar	
ics_deliv_rep_req	Client can request Delivery reports	
ics_read_rep_req	Client can request Read reports	
ics_disp_deliv_rep	client can display Delivery Reports	
ics_read_rep_pdu	Client can send/receive Read Reports as PDU	
ics_send_read_rep	Client can send Read-Reply reports	

ics_dur_media	dur attribute is set according to media length in a slide		
ics_dur_user	dur attribute can be set manually by the user		
Ics_imm_retrieval	Immediate retrieval mode		
ics_def_retrival	Deferred Retrieval mode		
ics_rej_retrival	Rejected Retrieval mode		
ics_expiry_time_forward	Setting (relative) Expiry Time of a Forwarded message		
ics_forward_wo_retrieval	Forwarding without prior retrieval		
ics_msg_id	Client can interpret Message-ID field		
ics_drm_forward	DRM Forward Lock		
ics_drm_combined_delivery	DRM combined right delivery		
Ics_drm_separate_delivery	DRM separate right delivery		
ics_date_field	Date field		
ics_auto_class	Generation of “Auto” class MM		
ics_rel_expire	Relative expiry time		
ics_abs_expire	Absolute expiry time		
ics_rel_delivery	Relative delivery time		
ics_abs_delivery	Absolute delivery time		
ics_prio_low	Priority can be set to low		
ics_prio_normal	Priority can be set to normal		
ics_prio_high	Priority can be set to high		
ics_subject_field	Client provides means to modify the subject field		
ics_to_field	To field	At least one of these MUST be checked	
ics_cc_field	Cc field		
ics_bcc_field	Bcc field		
ics_cancel	Client supports the Cancel transaction		
ics_content_problem	Client continues functioning normally when unsupported or corrupt content is received		

ics_resub_free	Resubmission mode Free	
ics_resub_warning	Resubmission mode Warning	
ics_resub_restricted	Resubmission mode Restricted	
ics_builtin_camera	Client has access to a photo camera to take pictures and attach them in a MM	
ics_resize_picture	Client is able to resize a picture taken with a built in camera to fit to Core domain	
ics_template	Client supports MMS Templates	
ics_template_wizard	Client supports a wizard for templates	
ics_template_valid	Client validates Template Documents	
ics_adaptation_field	Client can set the X-Adaptation-Field	
ics_exif	Client supports EXIF in JPEG files	
ics_restricted	Client support restricted MMS creation	
ics_page_timing_retrieval	Client supports page timing in retrieval mode	
ics_WBMP	Client supports WBMP Image	

B.4 IXIT

Value column shall be filled with appropriate values that are supported by the device.

	Preconditions	**Unit**	**Value**
IXIT	*Description*		
ixit_page_count	10 or maximum number of pages allowed by the client if less than 10.	Integer	Between 1 and 10.
ixit_min_page_time	100ms or minimum page timing allowed by the client if greater than 100ms.	Integer in milliseconds	Between 100 and 8000.
ixit_max_page_time	20secs or maximum page timing allowed by the client if less than 20s.	Integer in milliseconds	Between 1 and 20
ixit_max_subject_len	40 or maximum subject field length allowed by the client if less than 40.	Integer	Between 1 and 40.
ixit_max_msg_size_send	Maximum message size (sending)	Integer in kB	Greater than 0.
ixit_max_msg_size_recv	Maximum message size (receiving)	Integer in kB	Greater than or equal 300.
ixit_8sec_page_timing	Closest value to 8 seconds that can be specified in the client as page timing in a SMIL presentation	Integer in seconds	Between 5 and 10.

ixit_mms_version	The MMS Version implemented by the MMS client	charstring

B.5 ICS/IXIT to test case mapping

According to the ICS and IXIT marked in section 6 and 7 the applicable test cases can be derived from the following table.

Preconditions	Test Case
ics_smil	MMS-1.3-con-202 - SMIL layout portrait with text above the image
	MMS-1.3-con-203 - SMIL layout portrait with text below the image
	MMS-1.3-con-204 - SMIL layout landscape with text to the left of the image
	MMS-1.3-con-205 - SMIL layout landscape with text to the right of the image
	MMS-1.3-con-207 - Multiple pages
	MMS-1.3-con-277 - Support of 3GPP PSS6 SMIL Language Profile – Attributes and/or Values not supported
ics_smil AND ics_portait	MMS-1.3-con-102 - SMIL layout portrait with text above the image
	MMS-1.3-con-103 – SMIL layout portrait with text below the image
ics_smil AND ics_landscape	MMS-1.3-con-104 - SMIL layout landscape with text to the left of the image
	MMS-1.3-con-105 - SMIL layout landscape with text to the right of the image
ics_smil AND ics_amr_audio AND ics_diff_page_timing AND ics_diff_page_timing_with_media	MMS-1.3-con-108 - Multiple pages with page timing and time dependent content
ics_smil AND ics_diff_page_timing	MMS-1.3-con-109 - Multiple pages with page timing
ics_subject_field AND ics_utf8_subject	MMS-1.3-con-111 - Subject field with UTF8 encoding
ics_usascii	MMS-1.3-con-112 - Text with US-ASCII encoding
ics_subject_field	MMS-1.3-con-171 - Long Subject field

	MMS-1.3-con-201 - Empty message
ics_utf8	MMS-1.3-con-113 - Text with UTF-8 encoding
ics_utf8 AND ics_subject_field	MMS-1.3-con-211 - Subject field with UTF8 encoding
ics_utf16	MMS-1.3-con-214 - Text with UTF-16 encoding
ics_cc_image_rich	MMS-1.3-con-118 - JPG Image size 640x480
OR ics_cc_video_basic	MMS-1.3-con-122 - GIF Image size 640x480
OR ics_cc_video_rich	MMS-1.3-con-126 - Animated GIF Image size 640x480
OR ics_cc_megapixel	
OR ics_cc_content_basic	MMS-1.3-con-218 - JPG Image size 640x480
OR ics_cc_content_rich	MMS-1.3-con-222 - GIF Image size 640x480
	MMS-1.3-con-226 - Animated GIF Image size 640x480
ics_drm_combined_delivery AND (ics_cc_image_rich	MMS-1.3-con-705 - Combined delivery restrictions on the submission of MM
OR ics_cc_video_basic	MMS-1.3-con-706 - Message presentation with valid rights: Combined delivery
OR ics_cc_video_rich	MMS-1.3-con-711 - Message presentation with rights expired: Combined delivery
OR ics_cc_megapixel	
OR ics_cc_content_basic	
OR ics_cc_content_rich)	
ics_drm_separate_delivery AND (ics_cc_image_rich	MMS-1.3-con-707 - Message presentation with valid rights: Separate delivery
OR ics_cc_video_basic	MMS-1.3-con-712 - Message presentation without valid rights: Separate delivery
OR ics_cc_video_rich	
OR ics_cc_megapixel	
OR ics_cc_content_basic	
OR ics_cc_content_rich)	
ics_content_problem	MMS-1.3-con-274 – Corrupted Content
	MMS-1.3-con-275 - Content not supported by Client B (e.g. PDF content)
ics_hyperlink	MMS-1.3-con-278 – Hyperlinks - Recognition
	MMS-1.3-con-279 – Hyperlinks - No impact on presentation

	MMS-1.3-con-280 – Hyperlinks - Not followed automatically
ics_cc_megapixel	MMS-1.3-con-157 - Full conformance to mega pixel class – creation and submission of single object
	MMS-1.3-con-158 - Rich Text in megapixel content class
	MMS-1.3-con-159 - Full conformance to mega pixel class – creation and submission of multiple objects
	MMS-1.3-con-245 - Full conformance to mega pixel class – retrieval and presentation of single page
	MMS-1.3-con-246 - Full conformance to mega pixel class – retrieval and presentation of multiple objects
	MMS-1.3-con-247 - Rich Text in megapixel content class
	MMS-1.3-con-248 - XHTML Family User Agent conformance
ics_smil AND ics_postcard	MMS-1.3-con-153 - Postcard vCard attachment to multiple recipients
	MMS-1.3-con-154 - Postcard vCard attachment to multiple recipients with additional vCard properties
	MMS-1.3-con-155 - Postcard X-MMS-GREETINGTEXT
	MMS-1.3-con-156 - Postcard vCard attachment with ADR field empty
ics_cc_content_basic	MMS-1.3-con-250 – Retrieval and presentation of Content Basic content clas
	MMS-1.3-con-252 – Rich Text in Content Basic content class
ics_cc_content_rich	MMS-1.3-con-251 – Retrieval and presentation of Content Rich content clas
	MMS-1.3-con-253 – Rich Text in Content Rich content class
ics_cc_content_basic OR ics_cc_content_rich	MMS-1.3-con-276 - Support of 3GPP PSS6 SMIL Language Profile – Attributes and values supported
ics_smil AND ics_amr_audio	MMS-1.3-con-106 - Multiple objects in same page
	MMS-1.3-con-131 - AMR audio NB
	MMS-1.3-con-206 - Multiple objects in same page
	MMS-1.3-con-231 - AMR audio NB
ics_smil AND ics_13k_audio	MMS-1.3-con-132 - 3GPP2 13k speech
	MMS-1.3-con-232 - 3GPP2 13k speech
ics_3gpp_video	MMS-1.3-con-133 - 3GPP Video QCIF
	MMS-1.3-con-134 - 3GPP Video sub-QCIF

	MMS-1.3-con-233 - 3GPP Video QCIF
	MMS-1.3-con-234 - 3GPP Video sub-QCIF
ics_mpeg4 AND ics_13k_audio	MMS-1.3-con-135 - 3GPP2 Video QCIF (MPEG4+13k)
	MMS-1.3-con-139 - 3GPP2 Video sub-QCIF (MPEG4 +13k)
	MMS-1.3-con-235 - 3GPP2 Video QCIF (MPEG4+13k)
	MMS-1.3-con-239 - 3GPP2 Video sub-QCIF (MPEG4 +13k)
ics_mpeg4 AND ics_amr_audio	MMS-1.3-con-136 - 3GPP2 Video QCIF (MPEG4+AMR)
	MMS-1.3-con-140 - 3GPP2 Video sub-QCIF (MPEG4 +AMR)
	MMS-1.3-con-236 - 3GPP2 Video QCIF (MPEG4+AMR)
	MMS-1.3-con-240 - 3GPP2 Video sub-QCIF (MPEG4 +AMR)
ics_h263 AND ics_13k_audio	MMS-1.3-con-137 - 3GPP2 Video QCIF (H.263+13k)
	MMS-1.3-con-141 - 3GPP2 Video sub-QCIF (H.263 +13k)
	MMS-1.3-con-237 - 3GPP2 Video QCIF (H.263+13k)
	MMS-1.3-con-241 - 3GPP2 Video sub-QCIF (H.263 +13k)
ics_h263 AND ics_amr_audio	MMS-1.3-con-138 - 3GPP2 Video QCIF (H.263+AMR)
	MMS-1.3-con-142 - 3GPP2 Video sub-QCIF (H.263 +AMR)
	MMS-1.3-con-238 - 3GPP2 Video QCIF (H.263+AMR)
	MMS-1.3-con-242 - 3GPP2 Video sub-QCIF (H.263 +AMR)
ics_smil AND ics_huffmann AND ics_builtin_camera	MMS-1.3-con-160 - Sending MM with JPEG and Huffman table
	MMS-1.3-con-256 - Receiving MM with JPEG and Huffman table
ics_smil AND ics_amr_audio AND ics_dur_media	MMS-1.3-con-161 - Send MMS message without defining the <par> dur value
ics_smil AND ics_amr_audio AND ics_dur_user	MMS-1.3-con-162 - Send MMS message with user specific <par> dur value
ixit_mms_version >= 1.2 OR ics_vcard	MMS-1.3-con-143 - vCard
	MMS-1.3-con-243 - vCard
ixit_mms_version >= 1.2 OR ics_vcal	MMS-1.3-con-144 - vCalendar
	MMS-1.3-con-244 - vCalendar

ixit_mms_version >= 1.3 OR ics_exif	MMS-1.3-con-254 - Support of EXIF compressed image file format as JPEG interchange format
ics_restricted	MMS-1.3-con-301 - Creation mode - Restricted - oversize
	MMS-1.3-con-302 - Creation mode - Restricted - inclusion of non core domain content
	MMS-1.3-con-303 - Creation mode - Restricted - oversize image resolution
	MMS-1.3-con-305 - Creation mode - Restricted – forwarding non conformant message
	MMS-1.3-con-306 - Creation mode - Restricted - forwarding non conformant content
ics_deliv_rep_req	MMS-1.3-con-601 - Delivery report – Retrieved message
	MMS-1.3-con-602 -Delivery report – Rejected message
	MMS-1.3-con-603 - Delivery report – Expired message
	MMS-1.3-con-604 - Delivery report – Multiple recipients each with Different Delivery Status
	MMS-1.3-con-747 - Support for X-Mms-Delivery-Report field
ics_deliv_rep_req AND ics_msg_id AND ics_disp_deliv_rep	MMS-1.3-con-620 - Delivery report – Interpreting Message-ID field
ics_send_read_rep AND ics_read_rep_pdu	MMS-1.3-con-606 - Read-Reply report
ics_read_rep_req AND ics_read_rep_pdu	MMS-1.3-con-605 - Read-Reply report Date
	MMS-1.3-con-607 - Read-Reply Report when sending to multiple recipients
	MMS-1.3-con-608 - Read-Reply report when sending to single recipient
ics_read_rep_req AND ics_read_rep_pdu AND ics_msg_id	MMS-1.3-con-621 - Read report – Interpreting Message-ID field
ics_def_retrival AND ics_forward_wo_retrieval	MMS-1.3-con-611 - Forward without Prior retrieval
	MMS-1.3-con-619 - Long X-Mms-Content-Location field when Forwarding
ics_cancel	MMS-1.3-con-623 - Cancel
Ics_imm_retrieval	MMS-1.3-con-701 - Download options – Immediate retrieval

ics_def_retrival	MMS-1.3-con-702 - Download options – Deferred retrieval
ics_expiry_time_forward AND ics_def_retrival AND ics_forward_wo_retrieval	MMS-1.3-con-612 - Validity Period (Expiry Time) set by Client when forwarding
ics_deliv_rep_req AND ics_def_retrival AND ics_forward_wo_retrieval	MMS-1.3-con-613 - Forwarding Delivery report – Retrieved message
	MMS-1.3-con-614 - Forwarding Delivery report – Rejected message
	MMS-1.3-con-615 - Forwarding Delivery report – Expired message
ics_read_rep_req AND ics_def_retrival AND ics_forward_wo_retrieval	MMS-1.3-con-616 - Read report when forwarding to single recipient
ics_deliv_rep_req AND ics_forward_wo_retrieval AND ics_msg_id AND ics_disp_deliv_rep	MMS-1.3-con-617 - Delivery Report when Forwarding– Interpreting Message-ID field
ics_read_rep_req AND ics_forward_wo_retrieval AND ics_read_rep_pdu AND ics_msg_id	MMS-1.3-con-618 - Read Report when Forwarding – Interpreting Message-ID field
ics_rej_retrival	MMS-1.3-con-703 - Download options – Rejected retrieval
ics_drm_forward	MMS-1.3-con-704 - DRM support – Forward Lock
ics_date_field	MMS-1.3-con-733 - Support for Date field
ics_auto_class	MMS-1.3-con-739 - Support for X-Mms-Message-Class field
ics_rel_expire	MMS-1.3-con-740 - Support for X-Mms-Expiry field – Relative
ics_abs_expire	MMS-1.3-con-741 - Support for X-Mms-Expiry field – Absolute
ics_rel_delivery	MMS-1.3-con-742 - Support for X-Mms-Delivery-Time field – Relative
ics_abs_delivery	MMS-1.3-con-743 - Support for X-Mms-Delivery-Time field – Absolute
ics_prio_low	MMS-1.3-con-744 - Support for X-Mms-Priority field – Low
ics_prio_normal	MMS-1.3-con-745 - Support for X-Mms-Priority field – Normal
ics_prio_high	MMS-1.3-con-746 - Support for X-Mms-Priority field – High
ics_read_rep_req	MMS-1.3-con-748 - Support for X-Mms-Read-Report field
ics_to_field	MMS-1.3-con-735 - Support for To field

ics_cc_field	MMS-1.3-con-736 - Support for Cc field
ics_bcc_field	MMS-1.3-con-737 - Support for Bcc field
ics_subject_field	MMS-1.3-con-738 - Support for Subject field
ixit_page_count > 1 AND ics_smil	MMS-1.3-con-107 - Multiple pages
ixit_max_msg_size_send > 610K AND (ics_restricted OR ixit_mms_version >= 1.2)	MMS-1.3-con-304 - Creation mode - Restricted – forwarding oversize
ics_resub_free	MMS-1.3-con-715 - Re-submission of MM not conformant to MM Content Class: re-submission FREE
	MMS-1.3-con-717 - Re-submission of MM adding media object conformant to MM class with total size lower than maximum supported
	MMS-1.3-con-722 - No Re-submission of MM adding media object not conformant to the Core MM Content Domain
	MMS-1.3-con-723 - No Re-submission of MM adding media object conformant to MM class with total size larger than maximum supported
ics_resub_restricted	MMS-1.3-con-721 - No Re-submission of MM not conformant to MM Content Class: re-submission RESTRICTED
	MMS-1.3-con-724 - Creation mode set to FREE; Re-submission mode follows Creation mode
	MMS-1.3-con-725 - Creation mode set to WARNING; Re-submission mode follows Creation mode
ics_resub_warning	MMS-1.3-con-716 - Re-submission of MM not conformant to MM Content Class: re-submission WARNING
ics_adaptation_field	MMS-1.3-con-749 - Support for X-MMS-Adaptation-Allowed field
ics_resize_picture	MMS-1.3-con-310 - Ability to reduce in size any image taken by the integrated camera to fit into an MM of the Core MM Content Domain
ics_template AND ics_template_valid	MMS-1.3-con-761 - Valid MTD
ics_template	MMS-1.3-con-762 - Invalid MTD
	MMS-1.3-con-763 - Supported MTD Version
	MMS-1.3-con-764 - Unsupported MTD Version
ics_template	MMS-1.3-con-765 - Replace media objects by target name
AND ics_template_wizard	MMS-1.3-con-766 - Add media objects by target name

	MMS-1.3-con-767 - Invalid target type for replacement
	MMS-1.3-con-768 - Fixed media objects
	MMS-1.3-con-769 - Guidance message
	MMS-1.3-con-770 - Input media object by plain text editor
	MMS-1.3-con-771 - Input media object by file manager
	MMS-1.3-con-772 - Input media object by address book
	MMS-1.3-con-773 - Input media object by still-camera application
	MMS-1.3-con-774 - Input media object by video-camera application
	MMS-1.3-con-775 - Input media object by sound recorder application
	MMS-1.3-con-776 - Input media object by rich text editor
	MMS-1.3-con-777 - Forward/Backward navigation with steps
	MMS-1.3-con-778 - Check for required attribute
ics_template	MMS-1.3-con-779 - Set header values
	MMS-1.3-con-780 - Make pre-filled MMS header values available to the user
ics_smil AND ics_page_timing_retrieval	MMS-1.3-con-209 - Multiple pages with page timing
ics_smil AND ics_amr_audio AND ics_page_timing_retrieval	MMS-1.3-con-208 - Multiple pages with page timing and time dependent content
ics_WBMP	MMS-1.3-con-128 - WBMP Image size 160x120 MMS-1.3-con-228 - WBMP Image size 160x120
ics_WBMP AND (ics_cc_image_rich OR ics_cc_video_basic OR ics_cc_video_rich OR ics_cc_megapixel OR ics_cc_content_basic OR ics_cc_content_rich)	MMS-1.3-con-130 - WBMP Image size 640x480 MMS-1.3-con-230 - WBMP Image size 640x480

Appendix C. OBSOLETE TESTS (Informative)

The following table, listing test cases which have been deleted from this or an earlier version of this ETS, is provided for informative purposes. The Test Case IDs listed here should be regarded as reserved and should not be allocated to other test cases.

Test Case Id	Test Object	Title
MMS-1.2-con-101	Client A	Empty Message
MMS-1.2-con-110	Client A	Long Filename
MMS-1.2-con-114	Client A	Text with UTF-16 encoding
MMS-1.2-con-115	Client A	Sending - Content: JPG image size 80x60
MMS-1.2-con-117	Client A	Sending - Content: JPG image size 60x80
MMS-1.2-con-119	Client A	Sending - Content: GIF image size 80x60
MMS-1.2-con-121	Client A	Sending - Content: GIF image size 60x80
MMS-1.2-con-123	Client A	Sending - Content: Animated GIF image size 80x60
MMS-1.2-con-125	Client A	Sending - Content: Animated GIF image size 60x80
MMS-1.2-con-127	Client A	Sending - Content: WBMP image size 80x60
MMS-1.2-con-129	Client A	Sending - Content: WBMP image size 60x80
MMS-1.2-con-145	Client A	Forward without Prior retrieval - Previously sent By field
MMS-1.2-con-146	Client A	Forward without Prior retrieval - Previously sent Date field
MMS-1.2-con-147	Client A	Forward without Prior retrieval
MMS-1.2-con-148	Client A	Validity Period (Expiry Time) set by Client when forwarding
MMS-1.2-con-149	Client A	Forwarding Delivery report – Retrieved message
MMS-1.2-con-150	Client A	Forwarding Delivery report – Rejected message
MMS-1.2-con-151	Client A	Forwarding Delivery report – Expired message
MMS-1.2-con-152	Client A	Read-Reply report when forwarding to single recipient
MMS-1.2-con-215	Client B	Receiving - Content: JPG image size 80x60
MMS-1.2-con-217	Client B	Receiving - Content: JPG image size 60x80
MMS-1.2-con-219	Client B	Receiving - Content: GIF image size 80x60
MMS-1.2-con-221	Client B	Receiving - Content: GIF image size 60x80
MMS-1.2-con-223	Client B	Receiving - Content: Animated GIF image size 80x60
MMS-1.2-con-225	Client B	Receiving - Content: Animated GIF image size 60x80
MMS-1.2-con-227	Client B	Receiving - Content: WBMP image size 80x60
MMS-1.2-con-229	Client B	Receiving - Content: WBMP image size 60x80
MMS-1.2-con-401	MMSC	Empty Message
MMS-1.2-con-421	MMSC	Text with UTF-16 encoding
MMS-1.2-con-422	MMSC	JPG Image size 80x60
MMS-1.2-con-424	MMSC	JPG Image size 60x80

MMS-1.2-con-426	MMSC	GIF Image size 80x60
MMS-1.2-con-428	MMSC	GIF Image size 60x80
MMS-1.2-con-430	MMSC	Animated GIF Image size 60x80
MMS-1.2-con-432	MMSC	Animated GIF Image size 60x80
MMS-1.2-con-434	MMSC	WBMP Image size 60x80
MMS-1.2-con-436	MMSC	WBMP Image size 60x80
MMS-1.2-con-609	Client A	Forward without Prior retrieval – Previously sent By field
MMS-1.2-con-610	Client A	Forward without Prior retrieval - Previously sent Date field
MMS-1.2-con-622	Client B	Read report – Sending with Message-ID field
MMS-1.2-con-901	MMSC	Function to enable or disable major content adaptation
MMS-1.2-con-902	MMSC	Availability of original content after major content adaptation
MMS-1.2-con-903	MMSC	Update labels in the presentation after media type adaptation
MMS-1.2-con-904	MMSC	Update file extensions and MIME types after media format
MMS-1.2-con-905	MMSC	Image resolution set to 160x120
MMS-1.2-con-906	MMSC	Size reduction to 30k, GIF87
MMS-1.2-con-907	MMSC	Size reduction to 30k, JPEG
MMS-1.2-con-908	MMSC	GIF89a image larger than 30k
MMS-1.2-con-909	MMSC	SP-MIDI sound
MMS-1.2-con-910	MMSC	Video QCIF to Image reduced to 160x120
MMS-1.2-con-911	MMSC	Video to Image
MMS-1.2-con-912	MMSC	Size reduction to 100k

MMS-1.3-con-402	MMSC	Image Basic - Message Size 30k
MMS-1.3-con-403	MMSC	Image Rich - Message Size 100k
MMS-1.3-con-404	MMSC	Video Rich - Message Size 300k
MMS-1.3-con-405	MMSC	Multiple pages with page timing and time dependent content
MMS-1.3-con-406	MMSC	Subject field with UTF8 encoding
MMS-1.3-con-407	MMSC	Subject field with 40 Characters
MMS-1.3-con-408	MMSC	Subject field with US-ASCII encoding
MMS-1.3-con-415	MMSC	Priority – Normal
MMS-1.3-con-416	MMSC	Priority – Low
MMS-1.3-con-417	MMSC	Priority – High
MMS-1.3-con-418	MMSC	Message Class – Personal
MMS-1.3-con-419	MMSC	Text with US-ASCII encoding
MMS-1.3-con-420	MMSC	Text with UTF-8 encoding

MMS-1.3-con-423	MMSC	JPG Image size 160x120
MMS-1.3-con-425	MMSC	JPG Image size 640x480
MMS-1.3-con-427	MMSC	GIF Image size 160x120
MMS-1.3-con-429	MMSC	GIF Image size 640x480
MMS-1.3-con-431	MMSC	Animated GIF Image size 160x120
MMS-1.3-con-433	MMSC	Animated GIF Image size 640x480
MMS-1.3-con-435	MMSC	WBMP Image size 160x120
MMS-1.3-con-437	MMSC	WBMP Image size 640x480
MMS-1.3-con-438	MMSC	AMR audio NB
MMS-1.3-con-439	MMSC	3GPP2 13k speech
MMS-1.3-con-440	MMSC	3GPP Video QCIF
MMS-1.3-con-441	MMSC	3GPP Video sub-QCIF
MMS-1.3-con-442	MMSC	3GPP2 Video sub-QCIF (MPEG4 +13k)
MMS-1.3-con-443	MMSC	3GPP2 Video sub-QCIF (MPEG4 +AMR)
MMS-1.3-con-444	MMSC	3GPP2 Video sub-QCIF (H.263 +13k)
MMS-1.3-con-445	MMSC	3GPP2 Video sub-QCIF (H.263 +AMR)
MMS-1.3-con-446	MMSC	vCard
MMS-1.3-con-447	MMSC	vCalendar
MMS-1.3-con-409	MMSC	To-field with US-ASCII encoding
MMS-1.3-con-410	MMSC	Cc-field with US-ASCII encoding
MMS-1.3-con-411	MMSC	Bcc-field with US-ASCII encoding
MMS-1.3-con-412	MMSC	To-field with UTF-8 encoding
MMS-1.3-con-413	MMSC	Cc-field with UTF-8 encoding
MMS-1.3-con-414	MMSC	Bcc-field with UTF-8 encoding
MMS-1.3-con-448	MMSC	Send and receive message to one MSISDN/MDN recipient (To:)
MMS-1.3-con-449	MMSC	Send and receive message to one MSISDN/MDN recipient (Cc:)
MMS-1.3-con-450	MMSC	Send and receive message to one MSISDN/MDN recipient (Bcc:)
MMS-1.3-con-451	MMSC	Send and receive message to multiple MSISDN/MDN and email recipients (To:)
MMS-1.3-con-452	MMSC	Send and receive message to multiple MSISDN/MDN and email recipients (Cc:)
MMS-1.3-con-453	MMSC	Send and receive message to multiple MSISDN/MDN and email recipients (Bcc:)

MMS-1.3-con-454	MMSC	Send message to one email recipient (To:)
MMS-1.3-con-455	MMSC	Send message to one email recipient (Cc:)
MMS-1.3-con-456	MMSC	Send message to one email recipient (Bcc:)
MMS-1.3-con-501	MMSC	Insert Address Token
MMS-1.3-con-502	MMSC	Validity Period (Expiry Time) set by Client
MMS-1.3-con-503	MMSC	Validity Period (Expiry Time) set by MMSC
MMS-1.3-con-504	MMSC	Delivery time
MMS-1.3-con-505	MMSC	Time Stamp set by MMSC
MMS-1.3-con-506	MMSC	Forward without Prior retrieval - Previously sent By field
MMS-1.3-con-507	MMSC	Forward without Prior retrieval - Previously sent Date field
MMS-1.3-con-801	MMSC	Send text object to email recipient
MMS-1.3-con-802	MMSC	Send image object to email recipient
MMS-1.3-con-803	MMSC	Send audio object to email recipient
MMS-1.3-con-804	MMSC	Send text - image and audio objects to email recipient
MMS-1.3-con-805	MMSC	Receive text - image and audio objects from email
MMS-1.3-con-806	MMSC	Send vCard object to email recipient
MMS-1.3-con-807	MMSC	Send vCalendar object to email recipient
MMS-1.3-con-808	MMSC	Receive vCard object from email
MMS-1.3-con-809	MMSC	Receive vCalendar object from email
MMS-1.3-con-913	MMSC	Image resolution reduction
MMS-1.3-con-914	MMSC	Size reduction
MMS-1.3-con-915	MMSC	Drop unsupported object type
MMS-1.3-con-916	MMSC	Video QCIF to Image reduced