

OpenMMS Test Plan version 1

Description:

This document describes the testing of the OpenMMS system using a http-request client to simulate the sending of a Multimedia Message (MM). This message is sent directly to the InRelay Servlet thereby triggering the system.

The information sent is the name of the message originator and the message recipient. Upon receiving the http-request, the servlet triggers the MM1_submit class. The message is then given a unique ID, parsed and validated (validation is not complete at this time). The MM is then sent to the server (not yet complete). Once all these tasks are completed a response is sent back to the originator.

The class WriteTest prints all the message headers together with the content, and the generated ID. A start and stop is also indicated each time the servlet is invoked and completed. The printed information is sent to the Tomcat server console as system output.

Test Name: Invoke Servlet

Step Name	Status	Description	Expected	Actual
Step 1	Passed	Fill in the required information on the TestWeb-page (MM-“wannabe”) and click the “submit” button.	The servlet will be invoked. MM1_Submit is triggered and begins to call the various classes.	Logfile on Tomcat shows that the servlet has been invoked

Test Name: Generate unique ID

Step Name	Status	Description	Expected	Actual
Step 2	Passed	An unique ID is created for each message by MM1_SubmitGenID	A unique ID is shown in the Tomcat console each time the servlet is run.	A unique ID was presented for each of the servlet clients

Test Name: Message accepted

Step Name	Status	Description	Expected	Actual
Step 3	N/A	The MM is validated by MM1_SubmitValidator	The MM is validated, and accepted. Validation is set as default “true” at present.	Message accepted

Test name: Message Declined

Step Name	Status	Description	Expected	Actual
Step 4	N/A	The MM has an invalid format such as unknown message type, unknown MMS Version, invalid recipient address or content type.	The message will be declined, and an error message will be sent to the originator.	Not included in test 1, due to the incomplete state of the validate class and the fact that it is not possible to manipulate the headers within TestWeb.

Test name: Receive empty message

Step Name	Status	Description	Expected	Actual
Step 5	Passed	Receive an MM that contains no body content.	The MM is treated as normal	The MM is treated as normal

Test name: Check header info

Step Name	Status	Description	Expected	Actual
Step 6	Passed	WriteTest lists each header type together with its content	Each header is printed out with the correct representation	Displays: Message ID: 2003030611091626710 to: toNina Connection: Keep-Alive Content-Length: 23 Host: neptun:8080 User-Agent: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98) Accept-Encoding: gzip, deflate Accept-Language: no Referer: http://neptun:8080/innservlet/TestWeb.htm from: fromNina Content-Type: application/x-www-form-urlencoded Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, application/x-shockwave-flash, application/vnd.ms-excel, application/vnd.ms-powerpoint, application/msword, */*

Test name: Response to servlet

Step Name	Status	Description	Expected	Actual
Step 7	Passed	MM1_SubmitResponse puts content into the response object	The servlet returns the content which is then displayed at TestWeb	Displays: "Response from MM1_SubmitResponse"

Test name: Multiple Messages at the same time

Step Name	Status	Description	Expected	Actual
Step 8	Passed	Several MM's are sent to the MMSC at the same time.	All MM's should be processed and shown with different MessageID.	All clients received the correct response

Test name: Manipulation of URL

Step Name	Status	Description	Expected	Actual
Step 9	not complete	Sending wrong parameters (Parameter Test: Step9) to the InRelay servlet via url. The servlet returns an error message		The parameter was accepted and shown together with the headers and content as "Parameter Test: Step9" This was due to the incomplete validation.

Summary:

InRelay behaves as expected, and the functions which are at present implemented have been tested. InRelay is not yet complete, and will be further developed and tested.