

PROGRAMME & DEVELOPMENT SERVICES

XML Services

Ver. R3.4.0

Unit Test Plan for Image Upload Service
(Global schema)

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Table of Contents

1 TEST ENVIRONMENT 3
1.1 XML Service Gateway Installation 3
1.1.1 Hardware 3
1.1.2 Software 3
1.1.3 Special Test Needs 3
1.2 DHLClient Installation 3
1.2.1 Hardware 3
1.2.2 Software 3
1.2.3 Special Test Needs 3
2 UNIT TEST REPORT 3
3 TEST CASES 4
3.1 Image Upload Service (Valid XML message with correct data) 4
3.2 Image Upload Service (Malformed XML Message) 4
3.3 Image Upload Service (Invalid XML Message) 5
3.4 Image Upload Service (Incorrect Data XML Message) 5
4 NOTES 6
4.1 Image Upload mandatory fields and field patterns 6
4.2 Warnings / Error messages returned in case of incorrect data 6
5 DEFINITIONS 6
5.1 Well Formed XML 6
5.2 Malformed XML 6
5.3 Valid XML 6
5.4 Invalid XML 6
5.5 Incorrect Data XML 6

This Document Contains 6 numbered pages.

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1 TEST ENVIRONMENT

1.1 XML Service Gateway Installation

1.1.1 Hardware

- Linux v6.x 64 bits
- Terminal Emulator H/W e.g. IBM PC

1.1.2 Software

- JDK 1.7

1.1.3 Special Test Needs

- Access to XML application with valid credential

1.2 DHLClient Installation

1.2.1 Hardware

- Windows XP Desktop or above

1.2.2 Software

- JDK 1.5

1.2.3 Special Test Needs

- Client side environment needs to be set for java execution.

2 UNIT TEST REPORT

Author	:	MyDHL API team
Program Name	:	Image Upload service
Functionality Tested	:	Image Upload service
Test Execution Procedure	:	Once the application server is up and running, open a command prompt and run the 'runDHLClient.cmd' file. The runDHLClient software should follow correct URL and file names and directory path to read request XML messages and stored response The following URL https://xmlpitest-ea.dhl.com/XMLShippingServlet is an example used for testing purpose.
Test Results Checking Method	:	The results are stored in XML format in the directory specified in the runDHLClient.cmd file.

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3 TEST CASES

3.1 Image Upload Service (Valid XML message with correct data)

Sl. No.	Condition to be Tested	Expected Result
1	Run the runDHLClient.cmd file to send a valid AP image upload request. Ref: ImageUploadRequest_GL_Valid1.xml	Image Upload response is received and stored in the specified directory. ImageUploadResponse_GL_Valid1.xml
2	Run the runDHLClient.cmd file to send a valid AM image upload request. Ref: ImageUploadRequest_GL_Valid2.xml	Image Upload response is received and stored in the specified directory. ImageUploadResponse_GL_Valid2.xml
3	Run the runDHLClient.cmd file to send a valid EU image upload request. Ref: ImageUploadRequest_GL_Valid3.xml	Image Upload response is received and stored in the specified directory. ImageUploadResponse_GL_Valid3.xml
4	Run the runDHLClient.cmd file to send a valid image upload request with multiple Document types. Ref: ImageUploadRequest_GL_MultiType.xml	Image Upload response is received and stored in the specified directory. ImageUploadResponse_GL_MultiType.xml

3.2 Image Upload Service (Malformed XML Message)

Sl. No:	Condition to be Tested	Expected Result
1	Run the runDHLClient.cmd file to send a malformed EU image upload request. E.g. remove the 'Date' element Ref: ImageUploadRequest_GL_Malformed.xml	Error response is received and stored in the specified directory. The XML has error condition code and condition data. In this case the error message will be like *'Error in parsing request XML:Error: cvc-complex-type.2.4.b: The content of element 'ShipmentDetails' is not complete. One of '{Date}' is expected. at line 14, column 23'* ImageUploadResponse_GL_Malformed.xml

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3.3 Image Upload Service (Invalid XML Message)

Sl. No.	Condition to be Tested	Expected Result
1	Run the runDHLClient.cmd file to send an invalid AP Image upload request wrong site id. Ref: ImageUploadRequest_GL_Invalid1.xml	Error response is received and stored in the specified directory. The XML has error condition code and data. In this case the error message will be like '*Validation Failure:Site Id is wrong*' ImageUploadResponse_GL_Invalid1.xml
2	Run the runDHLClient.cmd file to send an invalid AM Image upload request with region code other than AP, AM or EU. Ref: ImageUploadRequest_GL_Invalid2.xml	Error response is received and stored in the specified directory. The XML has error condition code and data. In this case the error message will be like '*Error in parsing request XML:Error: cvc-enumeration-valid: Value 'EE' is not facet-valid with respect to enumeration '[AP, EU, AM]'. It must be a value from the enumeration. at line 10, column 29*' ImageUploadResponse_GL_Invalid2.xml

3.4 Image Upload Service (Incorrect Data XML Message)

Sl. No.	Condition to be Tested	Expected Result
1	Run the runDHLClient.cmd file to send an EU Image upload request with exceed size of image. Ref: ImageUploadRequest_GL_InvalidImageSize.xml	Error response is received and stored in the specified directory. The XML has error condition code and data. In this case the error message will be like '*The total image sizes exceeded the maximum image size for Paperless shipment. Please check and resubmit with correct request message.*' ImageUploadResponse_GL_InvalidImageSize.xml

4 NOTES

4.1 Image Upload mandatory fields and field patterns

Please refer to section '*Image upload request*' of XMLServices_R3.4.0_ShipmentValidationService.pdf: for details of all mandatory fields and acceptable values for all Image upload request messages.

4.2 Warnings / Error messages returned in case of incorrect data

Please refer to section '*Image Upload*' – region specific of Reference_Data.xls document - <Error Messages> tab sheet, for details of all warnings and error messages received incase of incorrect data.

5 DEFINITIONS

5.1 Well Formed XML

A "Well Formed" XML document is a document that conforms to the XML syntax rules.

5.2 Malformed XML

XML document, which does not conform to XML syntax rules, is called as "Malformed" XML.

5.3 Valid XML

A "Valid" XML document is a "Well Formed" XML document, which also conforms to the rules of a Document Type Definition (DTD) or XML schema.

5.4 Invalid XML

An "Invalid" XML document is a "Well Formed" XML document, which does not conforms to the rules of a Document Type Definition (DTD) or XML schema specified for the same.

5.5 Incorrect Data XML

An "Incorrect Data XML" is a valid XML document, which has data that does not conform to business rules of DHL backend services.
E.g. The acceptable shipment date range is from current date or date up to next ten days. If the shipment date does not fall into this date range, then an error message is received.

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