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## PROGRAMME & DEVELOPMENT SERVICES

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# XML Services

Ver. 5.2

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Unit Test Plan for Image Upload Service  
(Global schema)

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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

- WebLogic 12c
- JDK 1.7
- xerces1.4

### 1.1.3 Special Test Needs

- Access to EIP backend for AM region, eCom Gateway for AP region and DCI for EU region.
- X Windows server should be set up.

## 1.2 DHLClient Installation

### 1.2.1 Hardware

- Windows XP Desktop or above

### 1.2.2 Software

- JDK 1.5
- xerces1.4

### 1.2.3 Special Test Needs

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

# 2 UNIT TEST REPORT

<b>Author</b>	: Victor Low
<b>Program Name</b>	: Image Upload service
<b>Functionality Tested</b>	: Image Upload service
<b>Test Execution Procedure</b>	: 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 <a href="https://xmlpitest-ea.dhl.com/XMLShippingServlet">https://xmlpitest-ea.dhl.com/XMLShippingServlet</a> is an example used for testing purpose.
<b>Test Results Checking Method</b>	: The results are stored in XML format in the directory specified in the runDHLClient.cmd file.



### 3 TEST CASES

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

S.No.	Condition to be Tested	Expected Result
1.	Run the runDHLClient.cmd file to send a valid AP image upload request.  <a href="#">ImageUploadRequest_GL_AP_Valid1.xml</a>	Image Upload response is received and stored in the specified directory.  <a href="#">ImageUploadResponse_GL_Valid1.xml</a>
2.	Run the runDHLClient.cmd file to send a valid AM image upload request.  <a href="#">ImageUploadRequest_GL_AM_Valid2.xml</a>	Image Upload response is received and stored in the specified directory.  <a href="#">ImageUploadResponse_GL_Valid2.xml</a>
3.	Run the runDHLClient.cmd file to send a valid EU image upload request.  <a href="#">ImageUploadRequest_GL_EU_Valid3.xml</a>	Image Upload response is received and stored in the specified directory.  <a href="#">ImageUploadResponse_GL_Valid3.xml</a>

#### 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 'Password' element  <a href="#">ImageUploadRequest_GL_Malformed.xml</a>	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 <i>'Error in parsing request XML:Error: The content of element type "ServiceHeader" is incomplete, it must match "(MessageTime,MessageReference,SiteID&gt;Password)"'</i>  <a href="#">ImageUploadResponse_GL_Malformed.xml</a>



### 3.3 Image Upload Service ([Invalid XML Message](#))

S.No.	Condition to be Tested	Expected Result
1.	Run the runDHLClient.cmd file to send an invalid AP Image upload request wrong site id.  <a href="#">ImageUploadRequest_GL_Invalid1.xml</a>	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 <i>'Validation Failure:Site Id is wrong'</i>  <a href="#">ImageUploadResponse_GL_Invalid1.xml</a>
2.	Run the runDHLClient.cmd file to send an invalid AM Image upload request with region code other than AP, AM or EU.  <a href="#">ImageUploadRequest_GL_Invalid2.xml</a>	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 <i>'Error in parsing request XML:Error: Datatype error: In element &amp;apos;RegionCode&amp;apos; :Value &amp;apos;EE&amp;apos; must be one of [AP, EU, AM].'</i>  <a href="#">ImageUploadResponse_GL_Invalid2.xml</a>



### 3.4 Image Upload Service ([Incorrect Data XML](#) Message)

S.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.  <a href="#">ImageUploadRequest_GL_InvalidImageSize.xml</a>	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 <i>'The total image sizes exceeded the maximum image size for Paperless shipment. Please check and resubmit with correct request message.'</i>  <a href="#">ImageUploadResponse_GL_InvalidImageSize.xml</a>

## 4 NOTES

### 4.1 Image Upload mandatory fields and field patterns

Please refer to section 'Image upload request' of [XMLServices5.2 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 conform 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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