

PROGRAMME & DEVELOPMENT SERVICES

XML Services

Ver. 5.2

Unit Test Plan for Shipment Validation 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 Global Ecom Gateway backend for AM 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

Author :	Mary Ang
Program Name :	Shipment Validation services
Functionality Tested :	Shipment Validation services
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.



3 TEST CASES

3.1 Shipment Validation Service (<u>Valid XML</u> message with correct data)

S.No.	Condition to be Tested	Expected Result
1.	Run the runDHLClient.cmd file to send a valid AP shipment validation request for international shipment with request of 2 pieces with piece segment defined and label image output.	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest Global AP Regul arShpmt.xml	ShipmentResponse ShipmentValidateReques t AP RegularShpmt.xml
2.	Run the runDHLClient.cmd file to send a valid EU shipment validation request for international shipment with request of 2 pieces with piece segment defined and label image output.	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest Global EU Regul arShpmt.xml	ShipmentResponse ShipmentValidateRequest Global EU RegularShpmt.xml
3.	Run the runDHLClient.cmd file to send a valid AM shipment validation request for international shipment with request of 2 pieces with piece segment defined and label image output.	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest_Global_AM_Regu_larShpmt.xml	ShipmentResponse ShipmentValidateRequest Global AM RegularShpmt.xml
4.	Run the runDHLClient.cmd file to send a valid AP shipment validation request for international shipment with EProcShip of 'Y'	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest_Global_AP_EProc Y.xml	ShipmentResponse_ShipmentValidateRequest Global_AP_EProcY.xml
5.	Run the runDHLClient.cmd file to send a valid AP shipment validation request with Paperless shipment request	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidationRequest_Global_AP_PLT Shipment.xml	ShipmentResponse_ShipmentValidateRequest Global_AP_PLTShipment.xml



S.No.	Condition to be Tested	Expected Result
6.	Run the runDHLClient.cmd file to send a valid EU shipment validation request with Paperless shipment request	Shipment Validate response is received and stored in the specified directory. ShipmentResponse_ShipmentValidateRequest
	ShipmentValidationRequest Global EU PLT Shipment.xml	Global_EU_PLTShipment.xml
7.	Run the runDHLClient.cmd file to send a valid AM shipment validation request with Paperless shipment request	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidationRequest Global AM PLT Shipment.xml	ShipmentResponse ShipmentValidateRequest _Global_AM_PLTShipment.xml
8.	Run the runDHLClient.cmd file to send a valid AM shipment validation request with Advance Shipment request with selected label template and customer's logo image.	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest_Global_AM_Advan ceShipment.xml	ShipmentResponse_ShipmentValidateRequest Global_AM_AdvanceShipment.xml
9.	Run the runDHLClient.cmd file to send a valid AP shipment validation request with Advance Shipment request with selected label template and customer's logo image.	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest_Global_AP_Advanc eShipment.xml	ShipmentResponse ShipmentValidateRequest Global AP AdvanceShipment.xml
10.	Run the runDHLClient.cmd file to send a valid EU shipment validation request with Advance Shipment request with selected label template and customer's logo image.	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest Global EU Advan ceShipment.xml	ShipmentResponse_ShipmentValidateRequest _Global_EU_AdvanceShipment.xml



3.2 Shipment Validation Service (Malformed XML Message)

Sl.	Condition to be Tested	Expected Result
No: 1.	Run the runDHLClient.cmd file to send a mal formed AP Shipment validation request for International (Dutiable). E.g. remove the end tag for 'Piece'	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: The element type " Piece " must be terminated by the matching end-tag " ".
	ShipmentValidateRequest_Global_AP_MalFormed.xml	ErrorResponse_Global_AP_MalFormed.xml
2.	Run the runDHLClient.cmd file to send a mal formed EU Shipment validation request. E.g. remove the end tag of the root element of request message	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: The element type " req: ShipmentRequest " must be terminated by the matching end-tag " ".'
	ShipmentValidateRequest Global EU MalFormed.xml	ErrorResponse_Global_EU_MalFormed.xml

3.3 Shipment Validation Service (<u>Invalid XML</u> Message)

Sl. No.	Condition to be Tested	Expected Results
1	Run the runDHLClient.cmd file to send an invalid AM Shipment validation request condition for International (Dutiable). E.g Acceptable values of 'DutyPaymentType' are 'S', 'R', 'T'. Give 'O'. ShipmentValidateRequest Global AM Invalid.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 inparsing request XML:Error: Datatype error: In 'DutyPaymentType' : Value 'O' must be one of [S, R, T]. at line 20, column 40 ErrorResponse Global AM Invalid.xml
2	Run the runDHLClient.cmd file to send an invalid EU Shipment validation request condition for International (Dutiable). For weight element accepts values only in decimal. Give a fractional value like 12/12. and send the request ShipmentValidateRequest Global EU Invalid.xml	Error response is received and stored in the specified directory. The XML has error condition code and E.g. data. In this case the error message will be like 'Error in parsing request XML:Error: Datatype error: In element ' Weight ' : ' 12/12 ' is not a decimal at line 76, column 26' ErrorResponse Global EU Invalid.xml



3.4 Shipment Validation Service (Incorrect Data XML Message)

Sl. No:	Condition to be Tested	Expected Result
1.	Run the runDHLClient.cmd file to send a AP Shipment validation request for International (Non - Dutiable). E.g. Put a postal code for Receiver country, which is invalid as shipper's postal code.	Shipment validate error response is received and saved in the specified directory. The XML has error condition code and condition data. In this case the condition code reads, as 'Cannot determine destination service. Check recipient Postal code, city and country or complete an airwaybill manually. For assistance call DHL customer services.
	ShipmentValidateRequest Global AP I ncorrectData.xml	ErrorResponse Global AP IncorrectData.xml

4 Notes

4.1 Shipment Validation mandatory fields and field patterns

Please refer to section 'Shipment Validation Request' of <u>XMLServices5.2 ShipmentValidationService.pdf</u> for details of all mandatory fields and acceptable values for all Shipment Validation Request messages.

4.2 Warnings / Error messages returned in case of incorrect data

Please refer to section 'Shipment Validation' – 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.