

# PROGRAMME & DEVELOPMENT SERVICES

# XML Services

Ver. 6.0

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 ( $\underline{Valid\ XML}$ message with correct data)

S.No.	Condition to be Tested	Expected Result
1.	Run the runDHLClient.cmd file to send a valid AP 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	ShipmentValidateResponse Global 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	ShipmentValidateResponse_Global_EU_Regu larShpmt.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 RegularShpmt.xml	ShipmentValidateResponse 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	ShipmentValidateResponse Global AP EPro cY.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	ShipmentValidationResponse Global AP PL TShipment.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.
	ShipmentValidationRequest_Global_EU_PLT Shipment.xml	ShipmentValidationResponse Global EU PL TShipment.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	ShipmentValidationResponse_Global_AM_P LTShipment.xml
8.	Run the runDHLClient.cmd file to send a valid AM shipment validation request with regular shipment request with selected label template	Shipment Validate response is received and stored in the specified directory.
	and customer's logo image.  ShipmentValidationRequest Global AM Shipment_LabelTemplateCustLogo.xml	ShipmentResponse_ShipmentValidateRequest _Global AM Shipment LabelTemplateCustL ogo.xml
9	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.  ShipmentValidateRequest Global AM Advan ceShipment.xml	Shipment Validate response is received and stored in the specified directory.  ShipmentValidateResponse Global AM Adv anceShipment.xml
10	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.  ShipmentValidateRequest Global AP AdvanceShipment.xml	Shipment Validate response is received and stored in the specified directory.  ShipmentValidateResponse Global AP AdvanceShipment.xml
11	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.  ShipmentValidateRequest Global EU Advan ceShipment.xml	Shipment Validate response is received and stored in the specified directory.  ShipmentValidateResponse_Global_EU_AdvanceShipment.xml
12	Run the runDHLClient.cmd file to send a valid AM shipment validation request with Paperless shipment request and require ODD Link option  ShipmentValidateRequest Global AM PLTS hipment_WithODDLinkReq.xml	Shipment Validate response is received and stored in the specified directory.  ShipmentResponse ShipmentValidateRequest Global AM WithODDLinkReq.xml

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S.No.	Condition to be Tested	Expected Result
13	Run the runDHLClient.cmd file to send a valid AP shipment validation request with Paperless shipment request and require ODD Link	Shipment Validate response is received and stored in the specified directory.
	option.  ShipmentValidateRequest Global AP PLTShi pment WithODDLinkReq.xml	ShipmentResponse_ShipmentValidateRequest _Global_AP_WithODDLinkReq.xml
14	Run the runDHLClient.cmd file to send a valid EU shipment validation request with Paperless shipment request and require ODD Link	Shipment Validate response is received and stored in the specified directory.
	option.  ShipmentValidateRequest Global EU PLTSh ipment WithODDLinkReq.xml	ShipmentResponse ShipmentValidateRequest Global EU WithODDLinkReq.xml
15	Run the runDHLClient.cmd file to send a valid EU shipment validation request with Customer Barcode Text and using Customer Barcode	Shipment Validate response is received and stored in the specified directory.
	label template.  ShipmentValidateRequest Global EU Custo merBarcodeText.xml	ShipmentResponse ShipmentValidateRequest Global EU CustomerBarcodeText.xml
16	Run the runDHLClient.cmd file to send a valid EU shipment validation request with Dangerous Goods items.	Shipment Validate response is received and stored in the specified directory.
	ShipmentValidateRequest Global EU Danger ousGoods.xml	ShipmentResponse_ShipmentValidateRequest Global EU DangerousGoods.xml



# 3.2 Shipment Validation Service (Malformed XML Message)

Sl. No:	Condition to be Tested	Expected Result
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



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

Sl. No:	Condition to be Tested	Expected Result
1.	Run the runDHLClient.cmd file to send a AM Shipment validation request for International (Dutiable) with invalid data. Since the shipment is dutiable, remove the dutiable segment from the request message	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 data reads, as 'Dutiable segment Declared Amount Conditional Required Error'
	ShipmentValidateRequest Global AM IncorrectData.xml	ErrorResponse INT DUT AM IncorrectData.xml).
2.	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
3.	Run the runDHLClient.cmd file to send a AM Shipment validation request for Domestic shipment of Brazil without Tax ID fields for both Shipper and Receiver.	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 'Shipper Federal Tax ID Mandatory Required', 'Shipper State Tax ID Mandatory Required', 'Consignee Federal Tax ID Conditional Required' and 'Consignee State Tax ID Conditional Required'.
	ShipmentValidateRequest_Global_AM_ BRBR.xml	ShipmentValidateErrorResponse_Global_AM_BRBR.xml



### 4 Notes

### 4.1 Shipment Validation mandatory fields and field patterns

Please refer to section 'Shipment Validation Request' of <u>XMLServices6.0\_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.