PROGRAMME & DEVELOPMENT SERVICES

XML Services

Ver 5.2

Unit Test Plan for Pickup service for Global schema

Table of Contents

THIS DOCUMENT CONTAINS 8 NUMBERED PAGES

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
- Xercers 1.4.1

1.1.3 Special Test Needs
- Access to eCom Gateway backend for AM region
- X Windows server should be set up.

1.2 DHLClient Installation

1.2.1 Hardware
- Windows XP or above

1.2.2 Software
- JDK 1.5
- Xercers 1.4.1

1.2.3 Special Test Needs
- Client side environment needs to be set for java execution.

2 UNIT TEST REPORT

Author	Mary
Program Name	Pickup Services.
Functionality Tested	Pickup Services.
Test Execution Procedure	Once the application server is up and running, open a command prompt and run the 'runDHLClient.cmd' file. The DHLClient 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 Pickup 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 Book, Modify and Cancel Pickup request with account type as D for DHL and DHL Account Number Information for AP region. Ref: BookPickupRequest_GlobalAP_Valid1.xml ModifyPickupRequest_GlobalAP_Valid1.xml CancelPickupRequest_GlobalAP_Valid1.xml	Valid Pickup response is received for Book Pickup, Modify Pickup and Cancel Pickup which is stored in the specified response directory BookPickupResponse_GlobalAP_Valid1.xml ModifyPickupResponse_GlobalAP_Valid1.xml CancelPickupResponse_GlobalAP_Valid1.xml
2.	Run the runDHLClient.cmd file to send a valid Book and Cancel Pickup request for EU region. Ref: BookPickupRequest_GlobalEU_Valid2.xml CancelPickupRequest_GlobalEU_Valid2.xml	Valid Pickup response is received for Book Pickup and Cancel Pickup which is which is stored in the specified directory in the response folder. BookPickupReponse_GlobalEU_Valid2.xml CancelPickupResponse_GlobalEU_Valid2.xml
3.	Run the runDHLClient.cmd file to send a valid Book, Modify and Cancel Pickup request with account type as D for DHL and DHL Account Number Information for AM region. Ref: BookPickupRequest_GlobalAM_Valid3.xml ModifyPickupRequest_GlobalAM_Valid3.xml CancelPickupRequest_GlobalAM_Valid3.xml	Valid Pickup response is received for Book Pickup, Modify Pickup and Cancel Pickup which is stored in the specified response directory BookPickupResponse_GlobalAM_Valid3.xml ModifyPickupResponse_GlobalAM_Valid3.xml CancelPickupResponse_GlobalAM_Valid3.xml

3.2 Pickup Service (Malformed XML Message)

Sl. No:	Condition to be Tested	Expected Result
	Run the runDHLClient.cmd file to send a malformed book, modify and Cancel Pickup request e.g. remove the end tag </req: BookPickupRequest > or </CancelPickupRequest> or </ModifyPickupRequest>. Ref: BookPickupGlobal_Malformed1.xml CancelPickupGlobal_Malformed1.xml ModifyPickupGlobal_Malformed1.xml	Error response is received and stored in the specified directory. The XML has error condition code and data. BookPickupGlobalErrorResponse_Malformed_1.xml CancelPickupGlobalErrorResponseMalformed1.xml ModifyPickupGlobalErrorResponseMalformed1.xml
2.	Run the runDHLClient.cmd file to send a malformed book Pickup request e.g. remove the end tag for 'Pieces' in the Shipment Details Segment. In Cancel Pickup remove the end tag of </Reason>. In Modify Pickup remove the end tag of </CloseTime> Ref: BookPickupGlobal_Malformed2.xml CancelPickupGlobal_Malformed2.xml ModifyPickupGlobal_Malformed2.xml	Error response is received and stored in the specified directory. The XML has error condition code and data. BookPickupGlobal_ErrorResponse_Malformed2.xml CancelPickupGlobal_ErrorResponseMalformed2.xml ModifyPickupGlobal_ErrorResponseMalformed2.xml

3.3 Pickup Service (Invalid XML Message)

Sl. No:	Condition to be Tested	Expected Result
1.	Run the runDHLClient.cmd file to send an invalid book, modify and Cancel Pickup request e.g. remove the 'SiteId' element from the request XML. Ref: BookPickup_Global_Invalid1.xml CancelPickup_Global_Invalid1.xml ModifyPickup_Global_Invalid1.xml	Error response is received and stored in the specified directory. The XML has error condition code and condition data. The error message is "Error in parsing request XML:Error: The content of element type "ServiceHeader" must match" ;(MessageTime?,MessageReference?,SiteID, Password)". BookPickup_Global_ErrorResponse_Invalid1.xml CancelPickup_Global_ErrorResponse_Invalid1.xml ModifyPickup_Global_ErrorResponse_Invalid1.xml
2.	Run the runDHLClient.cmd file to send an invalid book, modify and Cancel Pickup request e.g. Remove all the elements of the requestor segment and in case of Cancel Pickup remove the elements of RequestorName element. BookPickup_Global_Invalid2.xml CancelPickup_Global_Invalid2.xml ModifyPickup_Global_Invalid2.xml	Error response is received and stored in the specified directory. The XML has error condition code and condition data. The error message for book and modify pickup is "Error in parsing request XML:Error: The content of element type "Requestor" is incomplete, it must match "(AccountType,AccountNumber?,Charge Card?,RequestorContact?)". For cancel pickup, the error 'Mandatory Required error' BookPickup_Global_ErrorResponse_Invalid2.xml CancelPickup_Global_ErrorResponse_Invalid2.xml ModifyPickup_Global_ErrorResponse_Invalid2.xml
3.	Run the runDHLClient.cmd file to send an invalid book Pickup request e.g. The "WeightUnit" element in the "Shipment Details" expects a value "L" or "K" but give it as "P ". In modifyPickup request give the value of LocationType as "X" in the Place segment. Ref: BookPickup_Global_Invalid3.xml ModifyPickup_Global_Invalid3.xml	Error response is received and stored in the specified directory. The XML has error condition code and condition data. The error is "Incorrect weight unit, expects value as 'L'or 'K'" for book pickup. The error is "Datatype error: In element 'LocationType' : Value 'X' must be one of [B, R, C]" for modify pickup. BookPickup_Global_ErrorResponse_Invalid3.xml ModifyPickup_Global_ErrorResponse_Invalid3.xml
4	Run the runDHLClient.cmd file to send an invalid Modify and Cancel Pickup without the confirmation number. Ref ModifyPickup_Global_Invalid4.xml CancelPickup_Global_Invalid4.xml	Error response is received and stored in the specified directory. The XML has error condition code and condition data. The error message is "Datatype error: In element '' is not a decimal.". 'ConfirmationNumber' : '' is not a decimal.". ModifyPickup_Global_ErrorResponse_Invalid4.xml CancelPickup_Global_ErrorResponse_Invalid4.xml

3.4 Pickup Service (Incorrect Data XML)

Sl. No:	Condition to be Tested	Expected Result
1	Run the runDHLClient.cmd file to send the Pickup request for Book, Cancel and Modify Pickup with invalid site id as WOE12 for AM region Ref: BookPickup_Global_InvalidSiteId.xml CancelPickup_Global_InvalidSiteId.xml ModifyPickup_Global_InvalidSiteId.xml	Pickup error response is received and saved in the specified directory. The XML has error condition code and data. Error: "Validation Failure:Site Id is wrong" BookPickup_Global_ErrorResponse_InvalidSiteId.xml CancelPickup_Global_ErrorResponse_InvalidSiteId.xml ModifyPickup_Global_ErrorResponse_InvalidSiteId.xml
2	Run the runDHLClient.cmd file to send the Book Pickup Request with duplicate special services in the same Shipment Details Segment. Ref: BookPickup_Global_Duplicate_SpclSvc.xml	Pickup error response is received and saved in the specified directory. The XML has error condition code and data. Error: "The same special Service cannot be requested more than once :Duplicate SpecialServiceType value =S BookPickup_Global_ErrorResponse_Duplicate_SpclSvc.xml
3	Run the runDHLClient.cmd file to send the Book and Modify Pickup Request with ReadyByTime time that is greater than the Station Cutoff time. Ref: BookPickup_Global_AfterCutOffTime.xml ModifyPickup_Global_AfterCutOffTime.xml	Pickup error response is received and saved in the specified directory. The XML has error condition code and data. Error: "Pickup NOT scheduled. Ready by time is passed the station cutoff time. For pickup assistance call customer service representative. BookPickup_Global_ErrorResponse_AfterCutOffTime.xml BookPickup_Global_ErrorResponse_AfterCutOffTime.xml
4	Run the runDHLClient.cmd file to send the Book and Modify Pickup Request with Account Type as D and no DHL Account Number. Ref: BookPickup_Global_Missing_AcctNo.xml ModifyPickup_Global_Missing_AcctNo.xml	Pickup error response is received and saved in the specified directory. The XML has error condition code and data. Error "Requestor Account Number Mandatory Required error". BookPickup_Global_ErrorResponse_Missing_AcctNo.xml ModifyPickup_Global_ErrorResponse_MissingAcctNo.xml

3.5 Notes

3.6 Book Pick up mandatory fields and field patterns

Please refer to section '*Book Pickup Request Schema* 'of XMLServices5.2_Pickup.pdf for details of all mandatory fields and acceptable values for all Book Pick-Up Request messages. Similarly for Cancel Pick-Up and Modify Pick-Up refer '*Cancel Pickup Request Schema*' and '*Modify Pickup Request Schema'* respectively.

3.7 Warnings / Error messages returned in case of incorrect data

Please refer to section '*Pick Up Service – AM Region'* of Reference_Data.xls document -

<Error Messages> tab sheet, for details of all warnings and error messages received

incase of incorrect data.

4 DEFINITIONS

4.1 Well Formed XML

A "Well Formed" XML document is a document that conforms to the W3C XML syntax rules.

4.2 Malformed XML

XML document, which does not conform to W3C XML syntax rules, is called as "Malformed" XML.

4.3 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.

4.4 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.

4.5 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 bill account number entered should confirm to a valid AM account number.

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