

PROGRAMME & DEVELOPMENT SERVICES

XML

Services

Version 10.0

Unit Test Plan for Pickup service for 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
- 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 | Kosani |
| 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. | <p>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.</p> <p>Note: Same Day Booking <PickupTypeCode>S</PickupTypeCode></p> <p>Ref: BookPickupRequest_GlobalAP_Valid1.xml ModifyPickupRequest_GlobalAP_Valid1.xml CancelPickupRequest_GlobalAP_Valid1.xml </p> | <p>Valid Pickup response is received for Book Pickup, Modify Pickup and Cancel Pickup which is stored in the specified response directory</p> <p>BookPickupResponse_GlobalAP_Valid1.xml ModifyPickupResponse_GlobalAP_Valid1.xml CancelPickupResponse_GlobalAP_Valid1.xml</p> |
| 2. | <p>Run the runDHLClient.cmd file to send a valid Book and Cancel Pickup request for EU region.</p> <p>Note: Same Day Booking <PickupTypeCode>S</PickupTypeCode></p> <p>Ref: BookPickupRequest_GlobalEU_Valid2.xml </p> | <p>Valid Pickup response is received for Book Pickup and Cancel Pickup which is stored in the specified directory in the response folder.</p> <p>BookPickupReponse_GlobalEU_Valid2.xml</p> |
| 3. | <p>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.</p> <p>Note: Same Day Booking <PickupTypeCode>S</PickupTypeCode></p> <p>Ref: BookPickupRequest_GlobalAM_Valid3.xml ModifyPickupRequest_GlobalAM_Valid3.xml CancelPickupRequest_GlobalAM_Valid3.xml </p> | <p>Valid Pickup response is received for Book Pickup, Modify Pickup and Cancel Pickup which is stored in the specified response directory</p> <p>BookPickupResponse_GlobalAM_Valid3.xml ModifyPickupResponse_GlobalAM_Valid3.xml CancelPickupResponse_GlobalAM_Valid3.xml</p> |
| 4. | <p>Run the runDHLClient.cmd file to send a valid Book Pickup request with account type as D for DHL, advance booking with advance date.</p> <p>Note: Advance Booking <PickupTypeCode>A</PickupTypeCode></p> <p>Ref: BookPickupRequest_GlobalAP_Valid4.xml </p> | <p>Valid Pickup response is received for Book Pickup which is store in the specified Response directory.</p> <p>BookPickupResponse_GlobalAP_Valid4.xml</p> |



| | | |
|----|--|---|
| 5. | <p>Run the runDHLClient.cmd file to send a valid Book Pickup request with account type as D EU region for remote Pickup with requestor and Pickup's place information.</p> <p>Ref: BookPickupRequest_Remote_Valid5.xml</p> | <p>Valid Pickup response is received for Book Pickup which is store in the specified response directory</p> <p>BookPickupResponse_Remote_Valid5.xml</p> |
|----|--|---|



3.2 Pickup Service (Malformed XML Message)

| Sl. No: | Condition to be Tested | Expected Result |
|---------|--|---|
| | <p>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</p> | <p>Error response is received and stored in the Specified directory. The XML has error condition Code and data.</p> <p>BookPickupGlobal_Malformed_1.xml CancelPickupGlobal_Malformed1.xml ModifyPickupGlobal_Malformed1.xml</p> |
| 2. | <p>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 tag of <ReadyTime> Ref: BookPickupGlobal_Malformed2.xml CancelPickupGlobal_Malformed2.xml ModifyPickupGlobal_Malformed2.xml</p> | <p>Error response is received and stored in the specified directory. The XML has error condition code and data.</p> <p>BookPickupGlobal_Malformed2.xml CancelPickupGlobal_Malformed2.xml ModifyPickupGlobal_Malformed2.xml</p> |



3.3 Pickup Service (Invalid XML Message)

| Sl. No: | Condition to be Tested | Expected Result |
|---------|--|---|
| 1. | <p>Run the runDHLClient.cmd file to send an invalid book, modify and Cancel Pickup request e.g. remove the 'MessageReference' element from the request XML. Ref:</p> <p>BookPickup_Global_Invalid1.xml CancelPickup_Global_Invalid1.xml ModifyPickup_Global_Invalid1.xml</p> | <p>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,GMTOffset?,MessageReference, SiteID,Password) " at line 9, column 20</p> <p>BookPickup_Global_Invalid1.xml CancelPickup_Global_Invalid1.xml ModifyPickup_Global_Invalid1.xml</p> |
| 2. | <p>Run the runDHLClient.cmd file to send an invalid book, modify and Cancel Pickup request e.g. Remove the element AccountNumber of the requestor segment and in case of Cancel Pickup remove the elements of RequestorName element.</p> <p>BookPickup_Global_Invalid2.xml CancelPickup_Global_Invalid2.xml ModifyPickup_Global_Invalid2.xml</p> | <p>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</p> <p>"(AccountType,AccountNumber,RequestorContact,CompanyName?,Address1,Address2?,Address3?, City,CountryCode,DivisionName?,PostalCode?)";. For cancel pickup, the error 'Mandatory Required error'</p> <p>BookPickup_Global_Invalid2.xml CancelPickup_Global_Invalid2.xml ModifyPickup_Global_Invalid2.xml</p> |
| 3. | <p>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 "R". In modifyPickup request give the value of LocationType as "X" in the Place segment. Ref:</p> <p>BookPickup_Global_Invalid3.xml ModifyPickup_Global_Invalid3.xml</p> | <p>Error response is received and stored in the specified directory. The XML has error Error in parsing request XML:Error: Datatype error: In element 'WeightUnit'; Value 'R'; must be one of [K, L]. Error in parsing request XML:Error: Datatype error: In element 'WeightUnit'; Value 'R'; must be one of [K, L].</p> <p>BookPickup_Global_Invalid3.xml ModifyPickup_Global_Invalid3.xml</p> |
| 4 | <p>Run the runDHLClient.cmd file to send an invalid Modify and Cancel Pickup without the Confirmation number. Ref</p> | <p>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 'ConfirmationNumber'; is not a decimal." 'ConfirmationNumber'; is not a decimal."</p> |



| | |
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| ModifyPickup_Global_Invalid4.xml | ModifyPickup_Global_Invalid4.xml |
| CancelPickup_Global_Invalid4.xml | CancelPickup_Global_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 Kosani 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_InvalidSiteId.xml CancelPickup_Global_InvalidSiteId.xml ModifyPickup_Global_InvalidSiteId.xml |
| 2 | Run the runDHLClient.cmd file to send the Book Pickup Request with Missing Account Number Ref: BookPickup_Global_Missing_AcctNo.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_Missing_AcctNo.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_CloseTime.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: “Close Time must be later than ready time”. BookPickup_Global_CloseTime.xml ModifyPickup_Global_AfterCutOffTime.xml |

3.5 Notes

3.6 Book Pick up mandatory fields and field patterns

Please refer to section ‘Book Pickup Request Schema’ of [XMLServices10.0_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 – Global’ of [Reference_Data.xls](#) document - [<Error Messages>](#) tab sheet, for details of all warnings and error messages received in case 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 conform 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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