



## **PROGRAMME & DEVELOPMENT SERVICES**

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# **XML Services**

**Ver 10.0.1**

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Unit Test Plan for Routing Service for Global  
schema

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# **1 TEST ENVIRONMENT**

## **1.1 XML Service Gateway**

### **1.1.1 Hardware**

- Linux v6.x 64 bits
- Terminal Emulator H/W e.g. IBM PC

### **1.1.2 Software**

- JDK 1.7

### **1.1.3 Special Test Needs**

- Access to XMLPI application with valid credential

## **1.2 DHLClient Installation**

### **1.2.1 Hardware**

- Windows XP and above

### **1.2.2 Software**

- JDK 1.5

### **1.2.3 Special Test Needs**

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

## 2 UNIT TEST REPORT

<b>Author</b>	MyDHL API team
<b>Program Name</b>	Routing Services.
<b>Functionality Tested</b>	Routing Services.
<b>Test Execution Procedure</b>	<p>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</p> <p>The following URL</p> <p style="padding-left: 40px;"><a href="https://xmlpitest-ea.dhl.com/XMLShippingServlet">https://xmlpitest-ea.dhl.com/XMLShippingServlet</a></p> <p>is an example used for testing purpose.</p>
<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 Routing 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 Routing request.  Ref: <a href="#">RouteRequest_Global_AP.xml</a> <a href="#">RouteRequest_Global_EU.xml</a> <a href="#">RouteRequest_Global_AM.xml</a>	Valid Routing response is received stored in the specified directory.  <a href="#">RouteResponse_Global_AP.xml</a> <a href="#">RouteResponse_Global_EU.xml</a> <a href="#">RouteResponse_Global_AM.xml</a>

#### 3.2 Routing Service ( [Malformed XML](#) Message)

Sl. No:	Condition to be tested	Expected Result
1.	Run the runDHLClient.cmd file to send a malformed RouteRequest e.g. remove the end tag </ns1:RouteRequest >.  Ref: <a href="#">RouteRequest_Global_Malformed1.xml</a>	Error response is received and stored in the specified directory. The XML has broken response containing java.lang.NullPointerException error.  <a href="#">RouteErrorResponse_Global_Malformed1.xml</a>

#### 3.3 Routing Service ( [Invalid XML](#) Message)

Sl. No:	Condition to be tested	Expected Result
1.	Run the runDHLClient.cmd file to send an invalid routing request e.g. remove the 'SoftwareName' element from the request XML.  Ref: <a href="#">RouteRequest_Global_Invalid1.xml</a>	Error response is received and stored in the specified directory. The XML has error condition code 111 and condition data "Error in parsing request XML:Error: cvc-complex-type.2.4.a: Invalid content was found starting with element 'SoftwareVersion'. One of '{SoftwareName}' is expected. at line 12, column 30".  <a href="#">RouteErrorResponse_Global_Invalid1.xml</a>



### 3.4 Routing Service ( [Incorrect Data XML Message](#) )

Sl. No:	Condition to be Tested	Expected Result
1	Run the runDHLClient.cmd file to send the Routing request.  Ref: <a href="#">RouteRequest_Invalid_RequestType.xml</a>	Error response is received and stored in the specified directory. The XML has error condition code "111" and condition data "Error in parsing request XML:Error: cvc-enumeration-valid: Value 'F' is not facet-valid with respect to enumeration '[O, D]'. It must be a value from the enumeration. at line 17, column 33".  <a href="#">RouteErrorResponse_Invalid_RequestType.xml</a>
2	Run the runDHLClient.cmd file to send the Routing request with invalid SiteId  Ref: <a href="#">RouteRequest_Invalid_SiteId.xml</a>	Routing error response is received and saved in the specified directory. The XML has error condition code "100" and condition data "Validation Failure:Site Id is wrong".  <a href="#">RouteErrorResponse_Invalid_SiteId.xml</a>

### 3.5 Routing mandatory fields and field patterns

Please refer to section 'Routing Request' of [XMLServices10.0.2\\_Routing.pdf](#) for details of all mandatory fields and acceptable values for all Routing Request messages.

### 3.6 Warnings / Error messages returned in case of incorrect data

Please refer to section 'Routing Service' for specific region 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 XML syntax rules.

### 4.2 Malformed XML

XML document, which does not conform to 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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