



# D&H Canada Customer XML Integration

DH.IS.WEB.XML.2

September 6, 2016

A reference detailing the intended methods for customer XML integrations with D&H. The contents of this manual are intended for the use of Canada D&H customers only. This document should be distributed in its entirety.



## Summary of Changes

Date	Change
09/06/2016	Order Status Response - <XMLRESPONSE> - <MESSAGE> - Contents Order Status Response - <XMLRESPONSE> - <ORDERSTATUS> - <PACKAGE> - Contents

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## XML Integration

D&H's XML integration functions as an extension of DandH.ca. Account management is handled via account management through DandH.ca.

## Terminology

- **Account:** Company's 10-digit reference number within D&H systems.
- **Subaccount:** A 10-digit account number derived from the company's main account. Shares the same 6-digit (AcctNoAR) reference number as the main account.
- **UserCode:** Used to describe the username, userid, login name etc.... used to authenticate access to DandH.ca.
- **PO:** (Purchase Order) refers to the purchase order number assigned to an order by the customer. For XML requests, this number must be unique per account.
- **Spawned Order:** A separate order created from an original order due to shipments from different branch or backorder.

## Submission Methods

There are 3 methods that can be used to post the document to D&H

1. **HTTP POST**
2. **HTML form POST**
  - a. Create an HTTP POST request containing a form field named "xmlDoc", and include your XML document as the value of the "xmlDoc" field.
3. **SOAP**
  - a. Enclose your XML document in a SOAP envelope.

**Submit Canada requests to this URL:** <https://www.dandh.ca/dhXML/xmlDispatch>

## Implementation

### General

- The messages that can be returned as a result of an XML request vary and are subject to change without notice. Elements and values that can be programmatically written to are provided within Specifications.
- Malformed or unparsable XML errors are often the result of invalid special characters or byte order marks (BOM) embedded within XML requests.

### Order Entry

- Addresses that exceed the element size as listed in Specifications shall appear truncated on shipping labels.
- If the <SHIPTOADDRESS> element is empty or not included, orders will be shipped to the default shipping address on the account.
- For accounts that have dropship permissions, if the <SHIPTOADDRESS> element contains a valid value, the order will be drop shipped to this address, provided valid <SHIPTOCITY>, <SHIPTOPROVINCE>, and <SHIPTOPOSTALCODE> elements are provided.

## Order Status

- Backordered items generate an additional `<ORDERSTATUS>` element. The initial `<ORDERSTATUS>` on order receipt spawns additional order number(s) for backordered items. For `<ORDERSTATUS>` elements containing `<INVTOTAL>` element values of 0 and `<QTYBO>` element values greater than 0, refer to spawned order numbers.

## Shipping

- Customers that wish to have an order shipped LTL should specify so in the `<REMARKS>` element. This will force the order to stop with the sales representative to be modified. To ship LTL on a continuous basis, a new subaccount should be created and configured to default ship LTL. Orders placed under the subaccount would automatically ship LTL.
- Ship via is the combination of `<SHIPCARRIER>` and `<SHIPSERVICE>` elements.
- When `<ONLYBRANCH>` and `<BRANCH>` are not specified, Best Branch Logic will be utilized, based on the Ship-To address, to determine the distribution center to ship the order.

## Specifications

The examples included in this document are meant to serve as a guide, and do not represent all of the possible variations of request submissions or responses.

### XML Request Data Types

- String
- Integer
- Logical (Boolean)
- Complex (Contain child elements)

### XML Request Conditions

- Required: The element must be included.
- Optional: The element does not need to be included or only needs to be included when certain criteria are met.
- Option: One of multiple possible elements is required, dependent on the nature of the request.

### Failure Response

All XML requests return the same failure response format (Figure 1).

```
<?xml version="1.0" encoding="UTF-8" ?>
<XMLRESPONSE>
  <STATUS>failure</STATUS>
  <MESSAGE>{Request failure message}</MESSAGE>
</XMLRESPONSE>
```

Figure 1 – Standard Request Failure Response

## Price and Availability Request

Price and/or Availability requests are made to receive real-time item prices and/or inventory availability. Requests may be submitted for price only, availability only, or combined price and availability. Multiple item numbers may be submitted per request. (Figures 2 thru 4)

### <XMLFORMPOST>

Condition: Required  
Parent: None  
Type: Complex  
Size: N/A  
Contents: Elements:  
    <REQUEST>  
    <LOGIN>  
    <PARTNUM>

### <PARTNUM>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: String  
Size: 15  
Contents: The D&H item number for which information is being requested. This element may occur up to 50 times for separate price or availability requests, or up to 25 times for combined price-availability.

### <REQUEST>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: String  
Size: 25  
Valid Values: 'price', 'availability', 'price-availability'  
Contents: The type of request.  
    'price' returns price only  
    'availability' returns available quantity only  
    'price-availability' returns both

### <LOGIN>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: Complex  
Size: N/A  
Contents: Elements:  
    <USERID>  
    <PASSWORD>

### <USERID>

Condition: Required  
Parent: <LOGIN>  
Type: String  
Size: 50  
Contents: DandH.com/ DandH.ca UserCode

### <PASSWORD>

Condition: Required  
Parent: <LOGIN>  
Type: String  
Size: 30  
Contents: The password associated with UserCode

```
<!DOCTYPE html>
<html>
  <head>
    <title>D&H Price and Availability Request</title>
  </head>
  <body onload="document.forms[0].submit()">
    <div align="center">
      <form method="post" action="https://www.dandh.ca/dhXML/xmlDispatch">
        <input type="hidden" name="xmlDoc"
          value="<XMLFORMPOST>
            <REQUEST>price-availability</REQUEST>
            <LOGIN>
              <USERID>{UserCode}</USERID>
              <PASSWORD>{Password}</PASSWORD>
            </LOGIN>
            <PARTNUM>STYLUSCOLOR880</PARTNUM>
          </XMLFORMPOST>" />
      </form>
    </div>
  </body>
</html>
```

Figure 2 – Canada Price and Availability Request HTML Form Post on Document Load



```
<!DOCTYPE html>
<html>
  <head>
    <title>D&H Availability Request</title>
  </head>
  <body>
    <div align="center">
      <form method="post" action="https://www.dandh.ca/dhXML/xmlDispatch">
        <input type="hidden" name="xmlDoc"
          value="<XMLFORMPOST>
            <REQUEST>availability</REQUEST>
            <LOGIN>
              <USERID>{UserCode}</USERID>
              <PASSWORD>{Password}</PASSWORD>
            </LOGIN>
            <PARTNUM>52T</PARTNUM>
            <PARTNUM>STYLUSCOLOR880</PARTNUM>
          </XMLFORMPOST>" />
        <input type="submit" value="Submit Availability Request" />
      </form>
    </div>
  </body>
</html>
```

Figure 3 – Canada Availability Request HTML Form Post

```
var DataToSend = '<?xml version="1.0" encoding="UTF-8"?>' +  
'<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"  
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">' +  
'<SOAP-ENV:Body>' +  
'<XMLFORMPOST>' +  
'<REQUEST>price</REQUEST>' +  
'<LOGIN>' +  
'<USERID>{UserCode}</USERID>' +  
'<PASSWORD>{Password}</PASSWORD>' +  
'</LOGIN>' +  
'<PARTNUM>52T</PARTNUM>' +  
'<PARTNUM>STYLUSCOLOR880</PARTNUM>' +  
'</XMLFORMPOST>' +  
'</SOAP-ENV:Body>' +  
'</SOAP-ENV:Envelope>';  
  
var xmlhttp = new XMLHttpRequest("Microsoft.XMLHTTP");  
xmlhttp.Open("POST", "https://www.dandh.ca/dhXML/xmlDispatch", false);  
xmlhttp.setRequestHeader("Content-Type", "text/xml");  
xmlhttp.setRequestHeader("SOAPAction", "urn:x-progress-soap-1.0:asbroker1#");  
xmlhttp.send(DataToSend);
```

Figure 4 – Canada Price Request SOAP Envelope in JavaScript

## Price and Availability Response

Price and/or Availability responses contain the information requested from a Price and/or Availability Request. The response will contain an <ITEM> element for each <PARTNUM> element that was enclosed in the request. (Figures 5 thru 8)

### <XMLRESPONSE>

Parent: None

Type: Complex

Contents: Elements:

<ITEM>

<STATUS>

<MESSAGE>

### <ITEM>

Parent: <XMLRESPONSE>

Type: Complex

Contents: Elements:

<PARTNUM>

<UNITPRICE> (price requests)

<BRANCHQTY> (availability requests)

<TOTALQTY> (availability requests)

<MESSAGE>

### <PARTNUM>

Parent: <ITEM>

Type: String

Contents: The D&H item number.

### <UNITPRICE>

Parent: <ITEM>

Type: Decimal

Contents: The item price.

### <BRANCHQTY>

Parent: <ITEM>

Type: Complex

Contents: Elements:

<BRANCH>

<QTY>

<INSTOCKDATE>

### <BRANCH>

Parent: <BRANCHQTY>

Type: String

Contents: The D&H distribution center name.

### <QTY>

Parent: <BRANCHQTY>

Type: Integer

Contents: The quantity in stock at the specified distribution center.

### <INSTOCKDATE>

Parent: <BRANCHQTY>

Type: String

Contents: For items that are out of stock, the expected in stock date, if available.

### <TOTALQTY>

Parent: <ITEM>

Type: Integer

Contents: The sum in stock quantity of all branches.

### <MESSAGE>

Parent: <ITEM>

Type: String

Contents: Any item level error messages.

### <STATUS>

Parent: <XMLRESPONSE>

Type: String

Contents: 'success' or 'failure'

If 'success', <XMLRESPONSE> will contain <ITEM>.

If 'failure', <XMLRESPONSE> will contain <MESSAGE>.

### <MESSAGE>

Parent: <XMLRESPONSE>

Type: String

Contents: Error message or notification regarding request failure.

```
<?xml version="1.0" encoding="UTF-8" ?>
<XMLRESPONSE>
  <ITEM>
    <PARTNUM>52T</PARTNUM>
    <UNITPRICE>6.63</UNITPRICE>
    <BRANCHQTY>
      <BRANCH>Toronto</BRANCH>
      <QTY>17</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <TOTALQTY>17</TOTALQTY>
  </ITEM>
  <ITEM>
    <PARTNUM>STYLUSCOLOR880</PARTNUM>
    <UNITPRICE>75.48</UNITPRICE>
    <BRANCHQTY>
      <BRANCH>Toronto</BRANCH>
      <QTY>0</QTY>
      <INSTOCKDATE>01/15/11</INSTOCKDATE>
    </BRANCHQTY>
    <TOTALQTY>0</TOTALQTY>
  </ITEM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 5 – Canada Price and Availability Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<XMLRESPONSE>
  <ITEM>
    <PARTNUM>52T</PARTNUM>
    <UNITPRICE>6.63</UNITPRICE>
  </ITEM>
  <ITEM>
    <PARTNUM>STYLUSCOLOR880</PARTNUM>
    <UNITPRICE>75.48</UNITPRICE>
  </ITEM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 6 – Price Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<XMLRESPONSE>
  <ITEM>
    <PARTNUM>52T</PARTNUM>
    <BRANCH>Toronto</BRANCH>
    <QTY>203</QTY>
    <INSTOCKDATE />
    </BRANCHQTY>
    <TOTALQTY>203</TOTALQTY>
  </ITEM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 7 – Canada Availability Response

```
<?xml version="1.0" encoding="UTF-8" ?>
<XMLRESPONSE>
  <ITEM>
    <PARTNUM>123ABC</PARTNUM>
    <MESSAGE>{Item level failure message}</MESSAGE>
  </ITEM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 8 – Price and Availability Response: Item Level Failure

## Order Entry Request

Order Entry requests are made to submit orders. Multiple items may be submitted per request by including an <ITEM> element for each item within the <ORDERITEMS> element. For drop ship authorized accounts, if <SHIPTO> elements are used, the order will be drop shipped to the address specified; otherwise orders will default to the shipping address on file.

\*Certain <SHIPTO> elements are required for drop shipping. (Figure 9)

### <XMLFORMPOST>

Condition: Required  
Parent: None  
Type: Complex  
Size: N/A  
Contents: Elements

<REQUEST>  
<LOGIN>  
<ORDERHEADER>  
<ORDERITEMS>

### <REQUEST>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: String  
Size: 25  
Valid Values: 'orderEntry'  
Contents: The type of request.

### <LOGIN>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: Complex  
Size: N/A  
Contents: Elements  
<USERID>  
<PASSWORD>

### <USERID>

Condition: Required  
Parent: <LOGIN>  
Type: String  
Size: 50  
Contents: DandH.com/ DandH.ca UserCode

### <PASSWORD>

Condition: Required  
Parent: <LOGIN>  
Type: String  
Size: 30  
Contents: The password associated with UserCode

### <ORDERHEADER>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: Complex  
Size: N/A  
Contents: Elements:  
<PONUM>  
<SHIPCARRIER>  
<SHIPSERVICE>  
<ONLYBRANCH>  
<PARTSHIPALLOW>  
<BACKORDERALLOW>  
<DROPSHIPPW>  
<SHIPTONAME>  
<SHIPTOATTN>  
<SHIPTOADDRESS>  
<SHIPTOADDRESS2>  
<SHIPTOCITY>  
<SHIPTOPROVINCE>  
<SHIPTOPOSTALCODE>  
<REMARKS>

### <PONUM>

Condition: Required  
Parent: <ORDERHEADER>  
Type: String  
Size: 30  
Contents: The unique Purchase Order number for the order. May not be duplicated with any other order from the account.

### <SHIPCARRIER>

Condition: Required  
Parent: <ORDERHEADER>  
Type: String  
Size: 9  
Valid Values: 'Pickup', 'UPS', 'Purolator'  
Contents: The Ship Via carrier preference.

### <SHIPSERVICE>

Condition: Required  
Parent: <ORDERHEADER>  
Type: String  
Size: 12  
Valid Values: 'Pickup', 'Ground', '2nd Day Air', 'Next Day Air'  
Contents: The Ship Via service level.



<ONLYBRANCH>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: String  
Size: 15  
Valid Values: 'Toronto'  
Contents: The Only D&H branch to ship the entire order from. This element will be overridden by the <BRANCH> element at the item detail level.

<PARTSHIPALLOW>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: Logical  
Size: 1  
Valid Values: 'Y', 'N'  
Contents: Determines whether to allow partial shipments. The default allows for partial shipments when all items and quantities contained in an order are not available at a specific distribution center. 'N' will prevent partial shipments. Combined with <BACKORDERALLOW> could cause orders to be cancelled in the event they cannot be completed as desired.

<BACKORDERALLOW>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: Logical  
Size: 1  
Valid Values: 'Y', 'N'  
Contents: Determines whether items that are not available are to be backordered. The default allows for items to be backordered when unavailable. 'N' will prevent items from being backordered. Combined with <PARTSHIPALLOW> could cause orders to be cancelled in the event they cannot be completed as desired.

<DROPSHIPPW>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: String  
Size: 30  
Contents: If a drop ship password is assigned to the account, this element becomes required for drop ship orders. Drop ship authorized accounts only.

<SHIPTOADDRESS>

Condition: Optional\*  
Parent: <ORDERHEADER>  
Type: String  
Size: 30  
Contents: The street address shipped to Drop ship authorized accounts only.

<SHIPTOADDRESS2>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: String  
Size: 30  
Contents: Additional field provided for the street address being shipped to. Drop ship authorized accounts only.

<SHIPTONAME>

Condition: Optional\*  
Parent: <ORDERHEADER>  
Type: String  
Size: 25  
Contents: The Ship-To name. Drop ship authorized accounts only.

<SHIPTOATTN>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: String  
Size: 30  
Contents: The Ship-To attention line. Drop ship authorized accounts only.

<SHIPTOCITY>

Condition: Optional\*  
Parent: <ORDERHEADER>  
Type: String  
Size: 18  
Contents: The Ship-To city. Drop ship authorized accounts only.

<SHIPTOPROVINCE>

Condition: Optional\*  
Parent: <ORDERHEADER>  
Type: String  
Size: 2  
Valid Values: Must be a valid USPS two character province code.  
Contents: The Ship-To province. Drop ship authorized accounts only.

<SHIPTOPOSTALCODE>

Condition: Optional\*  
Parent: <ORDERHEADER>  
Type: String  
Size: 10  
Valid Values: The six (6) characters, space separated postal code.  
Contents: The Ship-To postal code. Drop ship authorized accounts only.

<REMARKS>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: String  
Size: 58  
Contents: Any special instructions regarding the order. Any entry in this element will cause the order to be placed in "On Hold" status awaiting sales representative processing.

<ORDERITEMS>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: Complex  
Size: N/A  
Contents: Elements:  
    <ITEM>

<ITEM>

Condition: Required  
Parent: <ORDERITEMS>  
Type: Complex  
Size: N/A  
Contents: Elements:  
    <PARTNUM>  
    <QTY>  
    <BRANCH>  
    <PRICE>

<PARTNUM>

Condition: Required  
Parent: <ITEM>  
Type: String  
Size: 15  
Contents: The D&H item number being ordered.

<QTY>

Condition: Required  
Parent: <ITEM>  
Type: Integer  
Size: 5  
Contents: The requested quantity of the item being ordered.

<BRANCH>

Condition: Optional  
Parent: <ITEM>  
Type: String  
Size: 15  
Valid Values: 'Toronto'  
Contents: The only D&H Branch to ship the line item from. This element will override the value of the header level <ONLYBRANCH> element.

<PRICE>

Condition: Optional  
Parent: <ITEM>  
Type: Decimal  
Size: N/A  
Contents: Only available to select customers. The customer requested item price.

```
<!DOCTYPE html>
<html>
  <head>
    <title>D&H Order Entry Request</title>
  </head>
  <body>
    <div align="center">
      <form method="post" action="https://www.dandh.ca/dhXML/xmlDispatch">
        <input type="hidden" name="xmlDoc"
          value="<XMLFORMPOST>
            <REQUEST>orderEntry</REQUEST>
            <LOGIN>
              <USERID>{UserCode}</USERID>
              <PASSWORD>{Password}</PASSWORD>
            </LOGIN>
            <ORDERHEADER>
              <ONLYBRANCH></ONLYBRANCH>
              <PARTSHIPALLOW>N</PARTSHIPALLOW>
              <BACKORDERALLOW>N</BACKORDERALLOW>
              <DROPSHIP PW>{Dropship Password}</DROPSHIP PW>
              <SHIPTONAME>{Dropship Name}</SHIPTONAME>
              <SHIPTOATTN>{Dropship Attention}</SHIPTOATTN>
              <SHIPTOADDRESS>{Dropship Street Address}</SHIPTOADDRESS>
              <SHIPTOADDRESS2>{Dropship Address Line 2}</SHIPTOADDRESS2>
              <SHIPTOCITY>{Dropship City}</SHIPTOCITY>
              <SHIPTOPROVINCE>{Dropship Province}</SHIPTOPROVINCE>
              <SHIPTOPOSTALCODE>{Dropship Postal Code}</SHIPTOPOSTALCODE>
              <SHIPCARRIER>{Shipping Carrier}</SHIPCARRIER>
              <SHIPSERVICE>{Shipping Service Level}</SHIPSERVICE>
              <PONUM>{Purchase Order Number}</PONUM>
              <REMARKS>{Order Remarks}</REMARKS>
            </ORDERHEADER>
            <ORDERITEMS>
              <ITEM>
                <PARTNUM>STYLUSCOLOR880</PARTNUM>
                <QTY>5</QTY>
                <BRANCH>Toronto</BRANCH>
              </ITEM>
              <ITEM>
                <PARTNUM>52T</PARTNUM>
                <QTY>1</QTY>
              </ITEM>
            </ORDERITEMS>
          </XMLFORMPOST>" />
        <input type="submit" value="Submit Order Entry Request" />
      </form>
    </div>
  </body>
</html>
```

Figure 9 – Canada Order Entry Request HTML Form Post

## Order Entry Response

Order Entry response will return the order number on successful submission, or an error message on submission failure.  
(Figure 10)

### <XMLRESPONSE>

Parent: None

Type: Complex

Contents: Elements:

<STATUS>

<MESSAGE>

<ORDERNUM>

### <STATUS>

Parent: <XMLRESPONSE>

Type: String

Contents: 'success' or 'failure'

If 'success', <XMLRESPONSE> will  
contain <ORDERNUM>.

If 'failure', <XMLRESPONSE> will  
contain <MESSAGE>.

### <MESSAGE>

Parent: <XMLRESPONSE>

Type: String

Contents: Error message or notification  
regarding request failure.

### <ORDERNUM>

Parent: <XMLRESPONSE>

Type: Integer

Contents: The D&H order number assigned

```
<?xml version="1.0" encoding="utf-8"?>
<XMLRESPONSE>
  <ORDERNUM>5005560</ORDERNUM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 10 – Order Entry Response

## Order Status Request

Order Status requests are made to return information on previously submitted orders. Multiple status requests may be made by including multiple <STATUSREQUEST> elements. (Figure 11)

### <XMLFORMPOST>

Condition: Required  
Parent: None  
Type: Complex  
Size: N/A  
Contents: Elements:  
<REQUEST>  
<LOGIN>  
<STATUSREQUEST>

### <REQUEST>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: String  
Size: 25  
Valid Values: 'orderStatus'  
Contents: The type of request.

### <LOGIN>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: Complex  
Size: N/A  
Contents: Elements:  
<USERID>  
<PASSWORD>

### <USERID>

Condition: Required  
Parent: <LOGIN>  
Type: String  
Size: 50  
Contents: DandH.com/ DandH.ca UserCode

### <PASSWORD>

Condition: Required  
Parent: <LOGIN>  
Type: String  
Size: 30  
Contents: The password associated with UserCode

### <STATUSREQUEST>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: Complex  
Size: N/A  
Contents: Only one of these child elements may be included per each <STATUSREQUEST>, up to 50 <STATUSREQUEST> elements may be included in <XMLFORMPOST>.

#### <PONUM>

#### <ORDERNUM>

#### <INVOICE>

### <PONUM>

Condition: Option  
Parent: <STATUSREQUEST>  
Type: String  
Size: 50  
Contents: To return the status of orders matching a PO number, include this element containing the unique Purchase Order number.

### <ORDERNUM>

Condition: Option  
Parent: <STATUSREQUEST>  
Type: String  
Size: 50  
Contents: To return the status of orders matching a D&H order number, include this element containing the D&H order number.

### <INVOICE>

Condition: Option  
Parent: <STATUSREQUEST>  
Type: String  
Size: 50  
Contents: To return the status of orders matching a D&H invoice number, include this element containing the D&H invoice number.

```
<!DOCTYPE html>
<html>
  <head>
    <title>D&H Order Status Request</title>
  </head>
  <body>
    <div align="center">
      <form method="post" action="https://www.dandh.ca/dhXML/xmlDispatch">
        <input type="hidden" name="xmlDoc"
          Value="<XMLFORMPOST>
            <REQUEST>orderStatus</REQUEST>
            <LOGIN>
              <USERID>{UserCode}</USERID>
              <PASSWORD>{Password}</PASSWORD>
            </LOGIN>
            <STATUSREQUEST>
              <PONUM>{PO Number}</PONUM>
            </STATUSREQUEST>
            <STATUSREQUEST>
              <ORDERNUM>{D&H Order Number}</ORDERNUM>
            </STATUSREQUEST>
            <STATUSREQUEST>
              <INVOICE>{D&H Invoice Number}</INVOICE>
            </STATUSREQUEST>
          </XMLFORMPOST>" />
        <input type="submit" value="Submit Order Status Request" />
      </form>
    </div>
  </body>
</html>
```

Figure 11 – Canada Order Status Request HTML Form Post

## Order Status Response

Order Status responses contain the information requested from an Order Status Request. The response will contain an `<ORDERSTATUS>` element for each Order/Branch combination tasked to fulfill the order. There may be multiple `<ORDERSTATUS>` elements for each `<STATUSREQUEST>` submitted. (Figure 12)

### `<XMLRESPONSE>`

Parent: None  
Type: Complex  
Contents: Elements  
`<STATUS>`  
`<MESSAGE>`  
`<ORDERSTATUS>`

### `<ORDERSTATUS>`

Parent: `<XMLRESPONSE>`  
Type: Complex  
Contents: Elements  
`<DATE>`  
`<PONUM>`  
`<BRANCH>`  
`<ORDERNUM>`  
`<INVOICE>`  
`<INVTOTAL>`  
`<MESSAGE>`  
`<SOLDTO>`  
`<SHIPTO>`  
`<ORDERDETAIL>`  
`<PACKAGE>`

### `<DATE>`

Parent: `<ORDERSTATUS>`  
Type: String  
Contents: The order date.

### `<BRANCH>`

Parent: `<ORDERSTATUS>`  
Type: String  
Contents: The D&H branch the order will be shipped from.

### `<PONUM>`

Parent: `<ORDERSTATUS>`  
Type: String  
Contents: The Purchase Order number for the order.

### `<ORDERNUM>`

Parent: `<ORDERSTATUS>`  
Type: Integer  
Contents: The D&H order number.

### `<INVOICE>`

Parent: `<ORDERSTATUS>`  
Type: String  
Contents: The D&H invoice number, if the order has been invoiced. If not, this element will contain "In Process".

### `<INVTOTAL>`

Parent: `<ORDERSTATUS>`  
Type: Decimal  
Contents: The sum total for the invoice. Contains attributes:  
Tax  
PST  
HST  
QST  
EHF  
Freight  
Handling  
SubTotal

### `<MESSAGE>`

Parent: `<ORDERSTATUS>`  
Type: String  
Contents: The order status message once an order has been invoiced, but has not yet shipped, or if the invoice contains non-stocked items, such as licenses, warranties, or factory-direct.

### `<SOLDTO>`

Parent: `<ORDERSTATUS>`  
Type: Complex  
Contents: The Sold-To elements:  
`<NAME>`  
`<ADDRESS>`  
`<ADDRESS2>`  
`<CITY>`  
`<PROVINCE>`  
`<POSTALCODE>`

### `<NAME>`

Parent: `<SOLDTO>`  
Type: String  
Contents: The Sold-To Name.



<ADDRESS>  
Parent: <SOLDTO>  
Type: String  
Contents: The Sold-To Address.

<ADDRESS2>  
Parent: <SOLDTO>  
Type: String  
Contents: The Sold-To Address continued.

<CITY>  
Parent: <SOLDTO>  
Type: String  
Contents: The Sold-To City.

<PROVINCE>  
Parent: <SOLDTO>  
Type: String  
Contents: The Sold-To Province

<POSTALCODE>  
Parent: <SOLDTO>  
Type: String  
Contents: The Sold-To Postal Code.

<SHIPTO>  
Parent: <ORDERSTATUS>  
Type: Complex  
Contents: The Ship-To elements:  
    <NAME>  
    <ADDRESS>  
    <ADDRESS2>  
    <CITY>  
    <PROVINCE>  
    <POSTALCODE>

<NAME>  
Parent: <SHIPTO>  
Type: String  
Contents: The Ship-To Name.

<ADDRESS>  
Parent: <SHIPTO>  
Type: String  
Contents: The Ship-To Address.

<ADDRESS2>  
Parent: <SHIPTO>  
Type: String  
Contents: The Ship-To Address continued.

<CITY>  
Parent: <SHIPTO>  
Type: String  
Contents: The Ship-To City.

<PROVINCE>  
Parent: <SHIPTO>  
Type: String  
Contents: The Ship-To Province

<POSTALCODE>  
Parent: <SHIPTO>  
Type: String  
Contents: The Ship-To Postal Code.

<ORDERDDetail>  
Parent: <ORDERSTATUS>  
Type: Complex  
Contents: <DETAILITEM> element for each item contained on the order.

<DETAILITEM>  
Parent: <ORDERDETAIL>  
Type: Complex  
Contents: Elements:  
    <ITEMNO>  
    <PRICE>  
    <QUANTITY>  
    <QTYBO>  
    <VENDOR>  
    <DESCRIPTION>

<ITEMNO>  
Parent: <DETAILITEM>  
Type: String  
Contents: The D&H Item Number

<PRICE>  
Parent: <DETAILITEM>  
Type: Decimal  
Contents: The item price.

<QUANTITY>  
Parent: <DETAILITEM>  
Type: Integer  
Contents: The quantity to ship

<QTYBO>  
Parent: <DETAILITEM>  
Type: Integer  
Contents: The quantity backordered

<VENDOR>  
Parent: <DETAILITEM>  
Type: String  
Contents: The item vendor's name

<DESCRIPTION>  
Parent: <DETAILITEM>  
Type: String  
Contents: The item description

<PACKAGE>

Parent: <ORDERSTATUS>

Type: Complex

Contents: This element will be absent if the order has not invoiced, or if the invoice contains non-stocked items, such as licenses, warranties, or factory-direct. Elements:

<DATESHIPPED>

<CARRIER>

<SERVICE>

<SHIPPED>

<TRACKNUM>

<SHIPITEM>

<CARRIER>

Parent: <PACKAGE>

Type: String

Contents: The carrier used for this package.

<SERVICE>

Parent: <PACKAGE>

Type: String

Contents: The service level for this package.

<TRACKNUM>

Parent: <PACKAGE>

Type: String

Contents: The tracking number assigned to the package. This number is subject to change if the package has not physically shipped.

<DATESHIPPED>

Parent: <PACKAGE>

Type: String

Contents: The date the package was shipped from the Distribution Center.

<SHIPPED>

Parent: <PACKAGE>

Type: String

Contents: Yes or No if package has physically shipped.

<SHIPITEM>

Parent: <PACKAGE>

Type: Complex

Contents: There will be one <SHIPITEM> element for each item contained in the package.

Elements:

<SHIPITEMNO>

<SERIALNO>

<SHIPITEMNO>

Parent: <SHIPITEM>

Type: String

Contents: The D&H item number of the item.

<SERIALNO>

Parent: <SHIPITEM>

Type: String

Contents: The serial number of the item if applicable.

<STATUS>

Parent: <XMLRESPONSE>

Type: String

Contents: 'success' or 'failure'

If 'success', <XMLRESPONSE> will contain < ORDERSTATUS >.

If 'failure', <XMLRESPONSE> will contain <MESSAGE>.

<MESSAGE>

Parent: <XMLRESPONSE>

Type: String

Contents: Error message or notification regarding request failure.

```
<?xml version='1.0' encoding='UTF-8' ?>
<XMLRESPONSE>
  <ORDERSTATUS>
    <DATE>12/15/16</DATE>
    <BRANCH>Toronto</BRANCH>
    <PONUM>ABC123456789</PONUM>
    <ORDERNUM>1234567</ORDERNUM>
    <INVOICE>7654321</INVOICE>
    <INVTOTAL Tax="0" PST="0" HST="0" QST="0" EHF="0" Freight="0"
      Handling="0" SubTotal="671.60">
      671.60
    </INVTOTAL>
    <SOLDTO>
      <NAME>{Sold-To Name}</NAME>
      <ADDRESS>{Sold-To Street}</ADDRESS>
      <ADDRESS2>{Sold-To Street Line 2}</ADDRESS2>
      <CITY>{Sold-To City}</CITY>
      <PROVINCE>{Sold-To Province Abbreviation}</PROVINCE>
      <POSTALCODE>{Sold-To Postal Code}</POSTALCODE>
    </SOLDTO>
    <SHIPTO>
      <NAME>{Ship-To Name}</NAME>
      <ADDRESS>{Ship-To Street}</ADDRESS>
      <ADDRESS2>{Ship-To Street Line 2}</ADDRESS2>
      <CITY>{Ship-To City}</CITY>
      <PROVINCE>{Ship-To Province Abbreviation}</PROVINCE>
      <POSTALCODE>{Ship-To Postal Code}</POSTALCODE>
    </SHIPTO>
    <ORDERDETAIL>
      <DETAILITEM>
        <ITEMNO>FP781</ITEMNO>
        <PRICE>444.92</PRICE>
        <QUANTITY>1</QUANTITY>
        <QTYBO>0</QTYBO>
        <VENDOR>BenQ</VENDOR>
        <DESCRIPTION>1280 x1024 TFT, LCD;Silver</DESCRIPTION>
      </DETAILITEM>
      <DETAILITEM>
        <ITEMNO>WRT54G</ITEMNO>
        <PRICE>117.86</PRICE>
        <QUANTITY>1</QUANTITY>
        <QTYBO>0</QTYBO>
        <VENDOR>Linksys</VENDOR>
        <DESCRIPTION>CABLE/DSL RTR 802.11G W/SWITCH</DESCRIPTION>
      </DETAILITEM>
      <DETAILITEM>
        <ITEMNO>WUSB11</ITEMNO>
        <PRICE>54.41</PRICE>
        <QUANTITY>2</QUANTITY>
        <QTYBO>0</QTYBO>
        <VENDOR>Linksys</VENDOR>
        <DESCRIPTION>USB 11MBPS Wireless Adapter</DESCRIPTION>
      </DETAILITEM>
    </ORDERDETAIL>
  </ORDERSTATUS>
</XMLRESPONSE>
```

Figure 12.1 – Canada Order Status Response

```
<DETAILITEM>
  <ITEMNO>MCX0005KKN00</ITEMNO>
  <PRICE>89.12</PRICE>
  <QUANTITY>0</QUANTITY>
  <QTYBO>2</QTYBO>
  <VENDOR>Coolermaster</VENDOR>
  <DESCRIPTION>MasterCase 5</DESCRIPTION>
</DETAILITEM>
</ORDERDETAIL>
<PACKAGE>
  <CARRIER>Purolator</CARRIER>
  <SERVICE>Ground</SERVICE>
  <TRACKNUM>{Carrier Tracking Number}</TRACKNUM>
  <DATESHIPPED>12/17/16</DATESHIPPED>
  <SHIPPED>yes</SHIPPED>
  <SHIPITEM>
    <SHIPITEMNO>FP781</SHIPITEMNO>
    <SERIALNO>991267231123300051hs2311</SERIALNO>
  </SHIPITEM>
</PACKAGE>
<PACKAGE>
  <CARRIER>Purolator</CARRIER>
  <SERVICE>Ground</SERVICE>
  <TRACKNUM>{Carrier Tracking Number}</TRACKNUM>
  <DATESHIPPED>12/17/16</DATESHIPPED>
  <SHIPPED>yes</SHIPPED>
  <SHIPITEM>
    <SHIPITEMNO>EZXS16W</SHIPITEMNO>
  </SHIPITEM>
  <SHIPITEM>
    <SHIPITEMNO>WRT54G</SHIPITEMNO>
  </SHIPITEM>
</PACKAGE>
</ORDERSTATUS>
<STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 12.2 – Canada Order Status Response (continued)