



# D&H U.S. Customer XML Integration

DH.IS.WEB.XML.1

February 7, 2024

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



## Summary of Changes

Date	Change
6/27/2022	Order Status Response <ul style="list-style-type: none"> <li>• Manufacturer direct order information including shipment tracking</li> <li>• Order status milestones through order submission and shipment               <ul style="list-style-type: none"> <li>This is noted in the &lt;MESSAGE&gt; element. Returned values will now indicate the milestone of the order:                   <ul style="list-style-type: none"> <li>▪ 'Cancelled' - The order was cancelled.</li> <li>▪ 'In-Process' - Order is processing.</li> <li>▪ 'Order Sent to Vendor for Fulfillment' - The order was sent to the Manufacturer for fulfillment.</li> <li>▪ 'Backordered' - Order is on backorder, waiting inventory.</li> <li>▪ 'Shipped' - Order is complete and has shipped. ** NOTE, if D&amp;H does not receive Shipping information from a Manufacturer, 'Order Sent to Vendor for Fulfillment' will be returned and no shipment detail information will be provided.</li> <li>▪ 'Invoice' - Order has been Invoiced but has not shipped.</li> </ul> </li> </ul> </li> </ul>
4/5/2021	Added Shipment Billing Account <SHIPBILLTOACCOUNT> element
8/24/2021	Added End User Data <RESELLERPHONE> element Added 'FirstClassMail' & 'PriorityMail' as valid US <SHIPSERVICE> for 'USPS' valid <SHIPCARRIER>
08/30/2019	Implement ItemInquiry Request & Response
02/06/2019	Update to Canada <SHIPCARRIER> Valid Values.
04/27/2018	Added additional End User Data fields.
02/05/2018	Added Environmental/eWaste Handling charges.
06/01/2017	Added <ETA> element to Order Status Response Expanded Order Entry <ORDERHEADER><ENDUSREDATA><SERIALNUM> to 1250 characters. Expanded upon Order Status Response <ORDERSTATUS><MESSAGE>
04/03/2017	Added End User Data elements.
02/28/2017	Expanded explanation of partial shipment and backorder combinations.
09/06/2016	Order Status Response - <XMLRESPONSE> - <MESSAGE> - Contents Order Status Response - <XMLRESPONSE> - <ORDERSTATUS> - <PACKAGE> - Contents

# Contents

XML Integration.....	1
Terminology.....	1
Submission Methods.....	1
Implementation.....	2
Specifications.....	3
Figure 1 – Standard Request Failure Response .....	4
Price and Availability Request .....	5
Figure 2 – US Price and Availability Request HTML Form Post on Document Load .....	6
Figure 3 – US Availability Request HTML Form Post .....	7
Figure 4 – US Price Request SOAP Envelope in JavaScript .....	8
Price and Availability Response.....	9
Figure 5 – US Price and Availability Response .....	10
Figure 6 – Price Response .....	11
Figure 7 – US Availability Response.....	12
Figure 8 – Price and Availability Response: Item Level Failure .....	13
Order Entry Request .....	14
Figure 9 – US Order Entry Request HTML Form Post.....	22
Figure 9.1 – US Order Entry Request with End User Data HTML Form Post.....	23
Order Entry Response .....	24
Figure 10 – Order Entry Response .....	25
Order Status Request .....	26
Figure 11 – US Order Status Request HTML Form Post.....	27
Order Status Response .....	28
Figure 12.1 – US Order Status Response.....	32
Figure 12.2 – US Order Status Response (continued) .....	33
Item Inquiry Request .....	34
Figure 13 – Item Inquiry Request.....	35
Item Inquiry Response .....	36
Figure 14 – Item Inquiry Response.....	38

## XML Integration

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

## 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.com.
- **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.

**Submission URL:** <https://www.dandh.com/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 unparseable 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>`, `<SHIPTOSTATE>`, and `<SHIPTOZIP>` elements are provided.

### Partial Shipments and Backorders

`<PARTSHIPALLOW> = N & <BACKORDERALLOW> = N`

- Order will be fulfilled from the specified/best branch(s) as long as all quantities are available at the specified/default branch. No quantities sent to backorder, all quantities must be fulfilled or order will fail.

`<PARTSHIPALLOW> = Y & <BACKORDERALLOW> = N`

- Order will be fulfilled from the specified/best branch(s). If full item quantity is not available, the next best branch (based on ship to) will be used to obtain remaining quantity. No quantities sent to backorder, remaining unavailable quantities are ignored. If all item quantities are unavailable, order will fail.

`<PARTSHIPALLOW> = N & <BACKORDERALLOW> = Y`

- Order will be fulfilled from the specified/best branch(s). Unavailable quantities are sent to backorder.

`<PARTSHIPALLOW> = Y & <BACKORDERALLOW> = Y`

- Order will be fulfilled from the specified/best branch(s). If full item quantity is not available, the next best branch (based on ship to) will be used to obtain remaining quantity. Unavailable quantities are sent to backorder.

### 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.com/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 – US 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.com/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 – US 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.com/dhXML/xmlDispatch", false);
xmlhttp.setRequestHeader("Content-Type", "text/xml");
xmlhttp.setRequestHeader("SOAPAction", "urn:x-progress-soap-1.0:asbroker1#");
xmlhttp.send(DataToSend);
```

Figure 4 – US 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>California</BRANCH>
      <QTY>17</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Chicago</BRANCH>
      <QTY>18</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Atlanta</BRANCH>
      <QTY>81</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Harrisburg</BRANCH>
      <QTY>203</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <TOTALQTY>319</TOTALQTY>
  </ITEM>
  <ITEM>
    <PARTNUM>STYLUSCOLOR880</PARTNUM>
    <UNITPRICE>75.48</UNITPRICE>
    <BRANCHQTY>
      <BRANCH>California</BRANCH>
      <QTY>0</QTY>
      <INSTOCKDATE>01/15/11</INSTOCKDATE>
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Chicago</BRANCH>
      <QTY>91</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Atlanta</BRANCH>
      <QTY>20</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Harrisburg</BRANCH>
      <QTY>0</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <TOTALQTY>111</TOTALQTY>
  </ITEM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 5 – US 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>
    <BRANCHQTY>
      <BRANCH>California</BRANCH>
      <QTY>17</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Chicago</BRANCH>
      <QTY>18</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Atlanta</BRANCH>
      <QTY>81</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Harrisburg</BRANCH>
      <QTY>203</QTY>
      <INSTOCKDATE />
    </BRANCHQTY>
    <TOTALQTY>319</TOTALQTY>
  </ITEM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 7 – US 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>  
<SHIPBILLTOACCOUNT>  
<ONLYBRANCH>  
<PARTSHIPALLOW>  
<BACKORDERALLOW>  
<DROPSHIPW>  
<SHIPTONAME>  
<SHIPTOATTN>  
<SHIPTOADDRESS>  
<SHIPTOADDRESS2>  
<SHIPTOCITY>  
<SHIPTOSTATE>  
<SHIPTOZIP>  
<REMARKS>  
<ENDUSERDATA>

### <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', 'FedEx', 'USPS'  
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', 'FirstClassMail', 'PriorityMail',  
'Red Sat Del'  
Contents: The Ship Via service level.

<SHIPBILLTOACCOUNT>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: String  
Size: 10  
Contents: The Freight Account in which the  
shipping charges will be billed to.

<ONLYBRANCH>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: String  
Size: 15  
Valid Values: 'Harrisburg', 'California',  
'Chicago', 'Atlanta'  
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.

<SHIPTOSTATE>

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

<SHIPTOZIP>

Condition: Optional\*  
Parent: <ORDERHEADER>  
Type: String  
Size: 10  
Valid Values: The five (5) [or nine (9) digit separated with a hyphen (-)] zip code.  
Contents: The Ship-To zip 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.

<ENDUSERDATA>

Condition: Optional  
Parent: <ORDERHEADER>  
Type: Complex  
Size: N/A  
Contents: Elements  
<ORGANIZATION>  
<ATTENTION>  
<ADDRESS>  
<ADDRESS2>  
<CITY>  
<STATE>  
<ZIP>  
<PONUM>  
<DEPARTMENT>  
<PHONE>  
<FAX>  
<EMAIL>  
<AUTHQUOTENUM>  
<MCN>  
<CCOIDNUM>  
<SERIALNUM>  
<ESDEMAIL>  
<RESELLEREMAIL>  
<RESELLERPHONE>  
<CUSTACCTNO>  
<DATEOFSALE>  
<MODELNO>  
<SKU>  
<DOMAIN>  
<ADMINEMAIL>  
<UPDATETYPE>  
<SUPPORTSTARTDATE>

<ORGANIZATION>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 30  
Contents: End user organization.

<ATTENTION>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 30  
Contents: End user attention to.

<ADDRESS>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 30  
Contents: End user street address.

<ADDRESS2>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 30  
Contents: Additional field provided for end user street address.

<CITY>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 18  
Contents: End user city.

<STATE>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 2  
Valid Values: Must be a valid USPS two character state code.  
Contents: End user state code.

<ZIP>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 10  
Valid Values: The five (5) [or nine (9) digit separated with a hyphen (-)] zip code.  
Contents: End user zip code.

<PONUM>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 30  
Contents: End user PO Number.

<DEPARTMENT>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: End user department.

<PHONE>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 15  
Contents: End user phone number.

<FAX>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 15  
Contents: End user fax number.

<EMAIL>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: End user email address.

<AUTHQUOTENUM>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: Authorization quote number.

<MCN>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: Master contract number.

<CCOIDNUM>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: CCOID number.

<SERIALNUM>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 1250  
Contents: A comma-delimited list of serial numbers.

<ESDEMAIL>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: End user email address for Electronic Software Distribution.

<RESELLEREMAIL>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: Reseller email address.

<RESELLERPHONE>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 15  
Contents: Reseller phone number.

<CUSTACCTNO>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: Customer account number

<DATEOFSALE>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size 10  
Contents: Date of sale (MM/DD/YYYY)

<MODELNO>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: Model number

<SKU>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: Warranty SKU

<DOMAIN>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 250  
Contents: Domain site.

<ADMINEMAIL>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 50  
Contents: Domain Administrator E-mail Address

<UPDATETYPE>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size 25  
Valid Values: "New", "Renewal", or "Upgrade"  
Contents: Update type purchased.

<SUPPORTSTARTDATE>

Condition: Optional  
Parent: <ENDUSERDATA>  
Type: String  
Size: 10  
Contents: When <UPDATETYPE> is "Renewal" or "Upgrade", submit the Support Start Date (MM/DD/YYYY). Otherwise, leave empty.

<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: 'Harrisburg', 'California', 'Chicago', 'Atlanta'  
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.com/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>
              <SHIPTOSTATE>{Dropship State}</SHIPTOSTATE>
              <SHIPTOZIP>{Dropship Zip Code}</SHIPTOZIP>
              <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>Harrisburg</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 – US Order Entry Request HTML Form Post

```

<!DOCTYPE html>
<html>
  <head>
    <title>D&H Order Entry Request</title>
  </head>
  <body>
    <div align="center">
      <form method="post" action="https://www.dandh.com/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>
              <SHIPTOSTATE>{Dropship State}</SHIPTOSTATE>
              <SHIPTOZIP>{Dropship Zip Code}</SHIPTOZIP>
              <SHIPCARRIER>{Shipping Carrier}</SHIPCARRIER>
              <SHIPSERVICE>{Shipping Service Level}</SHIPSERVICE>
              <PONUM>{Purchase Order Number}</PONUM>
              <REMARKS>{Order Remarks}</REMARKS>
            <ENDUSERDATA>
              <ORGANIZATION>{End User's Company Name}</ORGANIZATION>
              <ADDRESS>{End User's Street Address}</ADDRESS>
              <CITY>{End User's City}</CITY>
              <STATE>{End User's State Abbreviation}</STATE>
              <ZIP>{End User's Zip Code}</ZIP>
              <AUTHQUOTENUM>{Authorization Number}</AUTHQUOTENUM>
            </ENDUSERDATA>
          </ORDERHEADER>
          <ORDERITEMS>
            <ITEM>
              <PARTNUM>SRW2048K9NA</PARTNUM>
              <QTY>1</QTY>
              <BRANCH>California</BRANCH>
            </ITEM>
          </ORDERITEMS>
        </XMLFORMPOST>" />
        <input type="submit" value="Submit Order Entry Request" />
      </form>
    </div>
  </body>
</html>

```

Figure 9.1 – US Order Entry Request with End User Data 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.com/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 – US 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  
EHF (Environmental Handling)  
Freight  
Handling  
SubTotal

### `<MESSAGE>`

Parent: `<ORDERSTATUS>`  
Type: String  
Contents: values indicate order milestone.

- 'Cancelled' - The order was cancelled.
- 'In-Process' - Order is processing.
- 'Order Sent to Vendor for Fulfillment' - The order was sent to the Manufacturer for fulfillment.
- 'Backordered' - Order is on backorder, waiting inventory.
- 'Shipped' - Order is complete and has shipped. \*\* NOTE, if D&H does not receive Shipping information from a Manufacturer, 'Order Sent to Vendor for Fulfillment' will be returned and no shipment detail information will be provided.
- 'Invoiced' - Order has been Invoiced but has not shipped.

<SOLDTO>  
Parent: <ORDERSTATUS>  
Type: Complex  
Contents: The Sold-To elements:  
    <NAME>  
    <ADDRESS>  
    <ADDRESS2>  
    <CITY>  
    <STATE>  
    <ZIP>

<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.

<STATE>  
Parent: <SOLDTO>  
Type: String  
Contents: The Sold-To State

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

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

<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.



<p>&lt;STATE&gt; Parent: &lt;SHIPTO&gt; Type: String Contents: The Ship-To State</p>	<p>&lt;VENDOR&gt; Parent: &lt;DETAILITEM&gt; Type: String Contents: The item vendor's name</p>
<p>&lt;ZIP&gt; Parent: &lt;SHIPTO&gt; Type: String Contents: The Ship-To ZIP Code.</p>	<p>&lt;DESCRIPTION&gt; Parent: &lt;DETAILITEM&gt; Type: String Contents: The item description</p>
<p>&lt;ORDERDETAIL&gt; Parent: &lt;ORDERSTATUS&gt; Type: Complex Contents: &lt;DETAILITEM&gt; element for each item contained on the order.</p>	<p>&lt;PACKAGE&gt; Parent: &lt;ORDERSTATUS&gt; 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: &lt;DATESHIPPED&gt; &lt;CARRIER&gt; &lt;SERVICE&gt; &lt;SHIPPED&gt; &lt;TRACKNUM&gt; &lt;SHIPITEM&gt;</p>
<p>&lt;DETAILITEM&gt; Parent: &lt;ORDERDETAIL&gt; Type: Complex Contents: Elements: &lt;ITEMNO&gt; &lt;PRICE&gt; &lt;QUANTITY&gt; &lt;QTYBO&gt; &lt;ETA&gt; &lt;VENDOR&gt; &lt;DESCRIPTION&gt;</p>	<p>&lt;CARRIER&gt; Parent: &lt;PACKAGE&gt; Type: String Contents: The carrier used for this package.</p>
<p>&lt;ITEMNO&gt; Parent: &lt;DETAILITEM&gt; Type: String Contents: The D&amp;H Item Number</p>	<p>&lt;SERVICE&gt; Parent: &lt;PACKAGE&gt; Type: String Contents: The service level for this package.</p>
<p>&lt;PRICE&gt; Parent: &lt;DETAILITEM&gt; Type: Decimal Contents: The item price.</p>	<p>&lt;TRACKNUM&gt; Parent: &lt;PACKAGE&gt; Type: String Contents: The tracking number assigned to the package. This number is subject to change if the package has not physically shipped.</p>
<p>&lt;QUANTITY&gt; Parent: &lt;DETAILITEM&gt; Type: Integer Contents: The quantity to ship</p>	<p>&lt;DATESHIPPED&gt; Parent: &lt;PACKAGE&gt; Type: String Contents: The date the package was shipped from the Distribution Center.</p>
<p>&lt;QTYBO&gt; Parent: &lt;DETAILITEM&gt; Type: Integer Contents: The quantity backordered</p>	<p>&lt;SHIPPED&gt; Parent: &lt;PACKAGE&gt; Type: String Contents: Yes or No if package has physically shipped.</p>
<p>&lt;ETA&gt; Parent: &lt;DETAILITEM&gt; Type: String Contents: The next closest estimated availability date of an item on backorder. (MM/dd/yy)</p>	

<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>12/16/16</DATE>
    <BRANCH>Chicago</BRANCH>
    <PONUM>ABC123456789</PONUM>
    <ORDERNUM>1234567</ORDERNUM>
    <INVOICE>7654321</INVOICE>
    <INVTOTAL Tax="0" EHF="0" Freight="0" Handling="0" SubTotal="945.66">
      945.66
    </INVTOTAL>
    <SOLDTO>
      <NAME>{Sold-To Name}</NAME>
      <ADDRESS>{Sold-To Street}</ADDRESS>
      <ADDRESS2>{Sold-To Street Line 2}</ADDRESS2>
      <CITY>{Sold-To City}</CITY>
      <STATE>{Sold-To State Abbreviation}</STATE>
      <ZIP>{Sold-To Zip Code}</ZIP>
    </SOLDTO>
    <SHIPTO>
      <NAME>{Ship-To Name}</NAME>
      <ADDRESS>{Ship-To Street}</ADDRESS>
      <ADDRESS2>{Ship-To Street Line 2}</ADDRESS2>
      <CITY>{Ship-To City}</CITY>
      <STATE>{Ship-To State Abbreviation}</STATE>
      <ZIP>{Ship-To Zip Code}</ZIP>
    </SHIPTO>
    <ORDERDETAIL>
      <DETAILITEM>
        <ITEMNO>OEMSVR12UCAL5PK</ITEMNO>
        <PRICE>146.17</PRICE>
        <QUANTITY>1</QUANTITY>
        <QTYBO>0</QTYBO>
        <VENDOR>Microsoft OEM Software</VENDOR>
        <DESCRIPTION>Server 2012 User CAL 5PK</DESCRIPTION>
      </DETAILITEM>
      <DETAILITEM>
        <ITEMNO>OEMSVR12R2S1PK</ITEMNO>
        <PRICE>640.57</PRICE>
        <QUANTITY>1</QUANTITY>
        <QTYBO>0</QTYBO>
        <VENDOR>Microsoft OEM Software</VENDOR>
        <DESCRIPTION>Server Standard 2012 R2 2CPU</DESCRIPTION>
      </DETAILITEM>
      <DETAILITEM>
        <ITEMNO>SCANMAKER5900</ITEMNO>
        <PRICE>158.92</PRICE>
        <QUANTITY>1</QUANTITY>
        <QTYBO>0</QTYBO>
        <VENDOR>Scanpaq/Scanport</VENDOR>
        <DESCRIPTION>48 Bit;4800x2400; USB w/TMA</DESCRIPTION>
      </DETAILITEM>
    </ORDERDETAIL>
  </ORDERSTATUS>
</XMLRESPONSE>
```

Figure 12.1 – US Order Status Response

```
<DETAILITEM>
  <ITEMNO>CEMT1B12S1</ITEMNO>
  <PRICE>23.3</PRICE>
  <QUANTITY>0</QUANTITY>
  <QTYBO>2</QTYBO>
  <VENDOR>Siig</VENDOR>
  <DESCRIPTION>DualArm TV Mount 10 to 27&quot;</DESCRIPTION>
</DETAILITEM>
</ORDERDETAIL>
<PACKAGE>
  <CARRIER>UPS</CARRIER>
  <SERVICE>Ground</SERVICE>
  <TRACKNUM>{Carrier Tracking Number}</TRACKNUM>
  <DATESHIPED>12/17/16</DATESHIPED>
  <SHIPPED>Yes</SHIPPED>
  <SHIPITEM>
    <SHIPITEMNO>OEMSVR12R2S1PK</SHIPITEMNO>
  </SHIPITEM>
  <SHIPITEM>
    <SHIPITEMNO>OEMSVR12UCAL5PK</SHIPITEMNO>
  </SHIPITEM>
</PACKAGE>
<PACKAGE>
  <CARRIER>UPS</CARRIER>
  <SERVICE>Ground</SERVICE>
  <TRACKNUM>{Carrier Tracking Number}</TRACKNUM>
  <DATESHIPED>12/17/16</DATESHIPED>
  <SHIPPED>Yes</SHIPPED>
  <SHIPITEM>
    <SHIPITEMNO>SCANMAKER5900</SHIPITEMNO>
    <SERIALNO>991267231123300051HS2311</SERIALNO>
  </SHIPITEM>
</PACKAGE>
</ORDERSTATUS>
<STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 12.2 – US Order Status Response (continued)

## Item Inquiry Request

Item Inquiry requests to retrieve information about a product in greater detail than Price and Availability requests. Requests may be submitted for a single item per request. (Figure 13)

### <XMLFORMPOST>

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

### <REQUEST>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: String  
Size: 25  
Valid Values: 'itemInquiry'  
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

### <PARTNUM>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: String  
Size: 50  
Contents: The Manufacturer or D&H product  
number

### <LOOKUPTYPE>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: String  
Size: 10  
Valid Values: 'DH', 'MFR'  
Contents: Use 'DH' when submitting a request  
using the D&H product number. Use MFR when  
submitting a request using the Manufacturer  
product number.

### <QUANTITY>

Condition: Required  
Parent: <XMLFORMPOST>  
Type: Integer  
Size: 5  
Contents: The item quantity of product to receive  
pricing by volume.

```
<!DOCTYPE html>
<html>
  <head>
    <title>D&H Inquiry Request</title>
  </head>
  <body>
    <div align="center">
      <form method="post" action="https://www.dandh.com/dhXML/xmlDispatch">
        <input type="hidden" name="xmlDoc"
          Value="<XMLFORMPOST>
            <REQUEST>itemInquiry</REQUEST>
            <LOGIN>
              <USERID>{UserCode}</USERID>
              <PASSWORD>{Password}</PASSWORD>
            </LOGIN>
            <PARTNUM>{D&H or Mfr product number}</PARTNUM>
            <LOOKUPTYPE>{DH or MFR}</LOOKUPTYPE>
            <QUANTITY>1</QUANTITY>
          </XMLFORMPOST>" />
        <input type="submit" value="Submit Item Inquiry Request" />
      </form>
    </div>
  </body>
</html>
```

Figure 13 – Item Inquiry Request

## Item Inquiry Response

Item Inquiry contains detailed information about a product beyond what is returned via Price and Availability, including unit pricing by volume. (Figure 14)

<p>&lt;XMLRESPONSE&gt; Parent: None Type: Complex Contents: Elements:     &lt;ITEM&gt;     &lt;STATUS&gt;     &lt;MESSAGE&gt;</p>	<p>&lt;DESCRIPTION&gt; Parent: &lt;ITEM&gt; Type: String Contents: The D&amp;H item description.</p>
<p>&lt;ITEM&gt; Parent: &lt;XMLRESPONSE&gt; Type: Complex Contents: Elements:     &lt;PARTNUM&gt;     &lt;UNITPRICE&gt;     &lt;ITEMNO&gt;     &lt;VENDORITEMNO&gt;     &lt;DESCRIPTION&gt;     &lt;VENDORDESCR&gt;     &lt;ERP&gt;     &lt;REBATEVALUE&gt;     &lt;REBATEENDDATE&gt;     &lt;ISNONSTOCK&gt;     &lt;ISFACTORYDIRECT&gt;     &lt;FREEFRT&gt;     &lt;RESTRICTED&gt;     &lt;BRANCHQTY&gt;     &lt;TOTALQTY&gt;</p>	<p>&lt;VENDORDESCR&gt; Parent: &lt;ITEM&gt; Type: String Contents: The Manufacturer's item description.</p> <p>&lt;ERP&gt; Parent: &lt;ITEM&gt; Type: Decimal Contents: The Estimated Retail Price.</p> <p>&lt;REBATEVALUE&gt; Parent: &lt;ITEM&gt; Type: Decimal Contents: The dollar value of any existing rebate</p> <p>&lt;REBATEENDDATE&gt; Parent: &lt;ITEM&gt; Type: String Contents: The date the existing rebate ends</p> <p>&lt;ISNONSTOCK&gt; Parent: &lt;ITEM&gt; Type: Logical Contents: True or false if an item is stocked at a D&amp;H branch.</p> <p>&lt;ISFACTORYDIRECT&gt; Parent: &lt;ITEM&gt; Type: Logical Contents: True or false if an item ships directly from the Manufacturer.</p> <p>&lt;FREEFRT&gt; Parent: &lt;ITEM&gt; Type: Logical Contents: True or false if the item is eligible for free freight.</p>
<p>&lt;PARTNUM&gt; Parent: &lt;ITEM&gt; Type: String Contents: The D&amp;H item number of the request, regardless of &lt;LOOKUPTYPE&gt;.</p>	
<p>&lt;UNITPRICE&gt; Parent: &lt;ITEM&gt; Type: Decimal Contents: The item price by volume.</p>	
<p>&lt;ITEMNO&gt; Parent: &lt;ITEM&gt; Type: String Contents: The D&amp;H item number.</p>	
<p>&lt;VENDORITEMNO&gt; Parent: &lt;ITEM&gt; Type: String Contents: The Manufacturer's item number.</p>	

<RESTRICTED>

Parent: <ITEM>  
Type: Logical  
Contents: True or false if the item is a member of a restricted sales grouping.

<BRANCHQTY>

Parent: <ITEM>  
Type: Complex  
Contents: Elements:  
    <BRANCH>  
    <QTY>  
    <INSTOCKDATE>

<TOTALQTY>

Parent: <ITEM>  
Type: Integer  
Contents: The sum in stock quantity of all branches.

<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.

<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.



```
<XMLRESPONSE>
  <ITEM>
    <PARTNUM>01GP31302LR</PARTNUM>
    <UNITPRICE>$39.72</UNITPRICE>
    <ITEMNO>01GP31302LR</ITEMNO>
    <VENDORITEMNO>01G-P3-1302-LR</VENDORITEMNO>
    <DESCRIPTION>EVGA 01G-P3-1302-LR GeForce 8400 GS Graphic Card - 520 MHz Core
- 1 GB DDR3 SDRAM</DESCRIPTION>
    <VENDORDESCR>EVGA</VENDORDESCR>
    <ERP>$45.50</ERP>
    <REBATEVALUE>$0.00</REBATEVALUE>
    <REBATEENDDATE></REBATEENDDATE>
    <ISNONSTOCK>>false</ISNONSTOCK>
    <ISFACTORYDIRECT>>false</ISFACTORYDIRECT>
    <FREEFRT>>false</FREEFRT>
    <RESTRICTED>>false</RESTRICTED>
    <BRANCHQTY>
      <BRANCH>Harrisburg</BRANCH>
      <QTY>33</QTY>
      <INSTOCKDATE></INSTOCKDATE>
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>California</BRANCH>
      <QTY>39</QTY>
      <INSTOCKDATE></INSTOCKDATE>
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Chicago</BRANCH>
      <QTY>0</QTY>
      <INSTOCKDATE></INSTOCKDATE>
    </BRANCHQTY>
    <BRANCHQTY>
      <BRANCH>Atlanta</BRANCH>
      <QTY>0</QTY>
      <INSTOCKDATE></INSTOCKDATE>
    </BRANCHQTY>
    <TOTALQTY>72</TOTALQTY>
  </ITEM>
  <STATUS>success</STATUS>
</XMLRESPONSE>
```

Figure 14 – Item Inquiry Response