



XML Order Entry Documentation

Updated August 7th, 2015

To request order entry via XML:

Obtain a DandH.ca User ID and password.

If you already have a DandH.ca account, contact your sales rep to create a new usercode dedicated to XML requests.

If you do not have a DandH.ca login, please contact Lori Horst at

passwords@dandh.com 800-877-1200 ext. 6723

or go to <https://www.dandh.com/v4/view?pageReq=NSNewCust>

Create an XML document with your login information and the order information as described below.

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

You can use a straight forward HTTP POST of the XML document, or you can POST an HTML form with the document in a form field called "xmlDoc", or you can put the XML document in a SOAP envelope.

If using HTTP POST of the XML document:

Submit the request to this URL:

<https://www.dandh.ca/dhXML/xmlDispatch>

If using HTML form post:

Create an HTTP POST request containing a form field named "xmlDoc", and include your XML document as the value of the "xmlDoc" field.

Submit the request to this URL:

<https://www.dandh.ca/dhXML/xmlDispatch>

If using SOAP:

Enclose your XML document in a SOAP envelope, and send as described below.

Specifications for the XML elements:

Element	Required/ Optional	Child of	Description
<XMLFORMPOST>	Required	none	Contains the <REQUEST>, <LOGIN>, <ORDERHEADER>, and <ORDERITEMS> elements.
<REQUEST>	Required	<XMLFORMPOST>	Contains the type of request. The only valid value for the order entry request is "orderEntry".
<LOGIN>	Required	<XMLFORMPOST>	Contains the child elements <USERID> and <PASSWORD>.
<USERID>	Required	<LOGIN>	The DandH.com login ID.
<PASSWORD>	Required	<LOGIN>	The password associated with this User ID.

Element	Required/ Optional	Child of	Description	Field Type	Field Size
<ORDERHEADER>	Required	<XMLFORMPOST>	Contains the child elements that comprise the order header information.	n/a	n/a



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Element	Required/ Optional	Child of	Description	Field Type	Field Size
<PONUM>	Required	<ORDERHEADER>	Contains a unique PO number; cannot be the same as the PO number of any other order in your D&H account.	Character	30
<SHIPCARRIER>	Required	<ORDERHEADER>	Contains the Ship Via carrier preference. Valid values are: "Pickup" "Purolator" "UPS"	Character	6
<SHIPSERVICE>	Required	<ORDERHEADER>	Contains the Ship Via service level. Valid Values are: "Pickup" "Ground" "2nd Day Air" "Next Day Air"	Character	12
<ONLYBRANCH>	Optional	<ORDERHEADER>	The Only D&H Branch to ship the entire order from. Valid Values are: "Toronto" This element cannot be used when using the <BRANCHES> element. This element will be overridden by the <BRANCH> element at the Item detail level.	Character	15
<BRANCHES>	Optional	<ORDERHEADER>	The maximum number of D&H branches to check for inventory. Must be an integer from 1 to 7. 1 will check only the closest branch to the ship-to address; 7 will check all branches, starting with the closest. (Please note, there are 2 branches in Harrisburg.) If this element is absent, all branches will be checked. This element cannot be used when using the <ONLYBRANCH> element. This element will be overridden by the <BRANCH> element at the Item detail level.	Integer	2
<PARTSHIPALLOW>	Optional	<ORDERHEADER>	Valid values: "Y" or "N" . "N" value will disallow partial shipment of the order; otherwise items in stock will be shipped, even if other items are not in stock.	Logical	1



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Element	Required/ Optional	Child of	Description	Field Type	Field Size
<BACKORDERALLOW>	Optional	<ORDERHEADER>	Valid values: "Y" or "N". "N" value will prevent any items that are not in stock from being backordered.	Logical	1
<DROPSHIP PW>	Optional *If a drop-ship password is assigned in your account, then this element is required.	<ORDERHEADER>	The drop ship password assigned to your account, if any.	Character	
<SHIPTOADDRESS>	Optional *If this element is used, then the associated ship-to elements are also required.	<ORDERHEADER>	The ship-to street address.	Character	30
<SHIPTOADDRESS2>	Optional	<ORDERHEADER>	The ship-to street address line 2	Character	30
<SHIPTONAME>	Optional	<ORDERHEADER>	The ship-to name.	Character	25
<SHIPTOATTN>	Optional	<ORDERHEADER>	The ship-to attention line. Optional, even if other ship-to elements are used.	Character	30
<SHIPTOCITY>	Optional	<ORDERHEADER>	The ship-to city.	Character	18
<SHIPTOPROVINCE>	Optional	<ORDERHEADER>	The ship-to province. The value must be a valid USPS 2 character province code.	Character	2
<SHIPTOPOSTALCODE>	Optional	<ORDERHEADER>	The ship-to postal code.	Character	10
<REMARKS>	Optional	<ORDERHEADER>	Contains any special instructions. Any entry in this field will cause the order to stop at your sales rep's desk to await final processing.	Character	58
<ORDERITEMS>	Required	<XMLFORMPOST>	Contains the <ITEM> child elements.	n/a	n/a
<ITEM>	Required	<ORDERITEMS>	Contains the <PARTNUM> and <QTY> child elements.	n/a	n/a
<PARTNUM>	Required	<ITEM>	A valid D&H item number.	Character	15
<QTY>	Required	<ITEM>	The requested quantity of the item.	Integer	5
<BRANCH>	Optional	<ITEM>	The Only D&H Branch to ship the line item from. Valid Values are: "Toronto" This element will override the values, if any, at the header level in the <ONLYBRANCH> and the <BRANCHES> elements.	Character	15



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Here is an example of a web page with an HTML form that contains a valid XML request:

```
<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>youruserid</USERID>
        <PASSWORD>yourpassword</PASSWORD>
      </LOGIN>
      <ORDERHEADER>
        <ONLYBRANCH></ONLYBRANCH>
        <BRANCHES>3</BRANCHES>
        <PARTSHIPALLOW>N</PARTSHIPALLOW>
        <BACKORDERALLOW>N</BACKORDERALLOW>
        <DROPSHIP PW>yourdropshippw</DROPSHIP PW>
        <SHIPTONAME>Test Name</SHIPTONAME>
        <SHIPTOATTN>Test Attn</SHIPTOATTN>
        <SHIPTOADDRESS>101 Test St</SHIPTOADDRESS>
        <SHIPTOADDRESS2>line 2 of address</SHIPTOADDRESS2>
        <SHIPTOCITY>Ottawa</SHIPTOCITY>
        <SHIPTOPROVINCE>ON</SHIPTOPROVINCE>
        <SHIPTOPOSTALCODE>K1P 5K6</SHIPTOPOSTALCODE>
        <SHIPCARRIER>Purolator</SHIPCARRIER>
        <SHIPSERVICE>Ground</SHIPSERVICE>
        <PONUM>7654322</PONUM>
        <REMARKS>These are special instructions.</REMARKS>
      </ORDERHEADER>
      <ORDERITEMS>
        <ITEM>
          <PARTNUM>XXXX</PARTNUM>
          <QTY>20</QTY>
          <BRANCH>Toronto</BRANCH>
        </ITEM>
        <ITEM>
          <PARTNUM>XXXXXXXXXX</PARTNUM>
          <QTY>10</QTY>
        </ITEM>
      </ORDERITEMS>
    </XMLFORMPOST>"
>
<input type="submit" value="submit request">
</form></div></body></html>
```



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Here is an HTML example that submits the form on load of the document:

```
<HTML>
<HEAD>
<TITLE>D&H Order Entry Request</title>
</head><body onLoad="document.forms[0].submit()">
<form method="post"
      action="https://www.dandh.ca/dhXML/xmlDispatch"
>
<input
type="hidden"
name="xmlDoc"
value="<XMLFORMPOST>
  <REQUEST>orderEntry</REQUEST>
  <LOGIN>
    <USERID>youruserid</USERID>
    <PASSWORD>yourpassword</PASSWORD>
  </LOGIN>
  <ORDERHEADER>
    <ONLYBRANCH>Toronto</ONLYBRANCH>
    <BRANCHES></BRANCHES>
    <PARTSHIPALLOW>N</PARTSHIPALLOW>
    <BACKORDERALLOW>N</BACKORDERALLOW>
    <DROPSHIP PW>yourdropshippw</DROPSHIP PW>
    <SHIPTONAME>Test Name</SHIPTONAME>
    <SHIPTOATTN>Test Attn</SHIPTOATTN>
    <SHIPTOADDRESS>101 Test St</SHIPTOADDRESS>
    <SHIPTOADDRESS2>line 2 of address</SHIPTOADDRESS2>
    <SHIPTOCITY>Anytown</SHIPTOCITY>
    <SHIPTOPROVINCE>ON</SHIPTOPROVINCE>
    <SHIPTOPOSTALCODE>K1P 1C7</SHIPTOPOSTALCODE>
    <SHIPCARRIER>Purolator</SHIPCARRIER>
    <SHIPSERVICE>Ground</SHIPSERVICE>
    <PONUM>7654322</PONUM>
    <REMARKS>These are special instructions.</REMARKS>
  </ORDERHEADER>
  <ORDERITEMS>
    <ITEM>
      <PARTNUM>XXXX</PARTNUM>
      <QTY>20</QTY>
    </ITEM>
    <ITEM>
      <PARTNUM>XXXXXXXXX</PARTNUM>
      <QTY>10</QTY>
    </ITEM>
    <ITEM>
      <PARTNUM>XXXXXXXXX</PARTNUM>
      <QTY>30</QTY>
      <BRANCH>Toronto</BRANCH>
    </ITEM>
  </ORDERITEMS>
</XMLFORMPOST>"
>
</form></body></html>
```



This is an example of a JavaScript that creates a valid XML request to be sent using SOAP. Line breaks have been inserted for readability.

```
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>orderEntry</REQUEST>
        <LOGIN>
          <USERID>youruserid</USERID>
          <PASSWORD>yourpassword</PASSWORD>
        </LOGIN>
        <ORDERHEADER>
          <ONLYBRANCH>Toronto</ONLYBRANCH>
          <BRANCHES></BRANCHES>
          <PARTSHIPALLOW></PARTSHIPALLOW>
          <BACKORDERALLOW />
          <DROPSHIP PW></DROPSHIP PW>
          <SHIPTONAME>Test Name</SHIPTONAME>
          <SHIPTOATTN>Test Attn</SHIPTOATTN>
          <SHIPTOADDRESS>101 Test St</SHIPTOADDRESS>
          <SHIPTOADDRESS2>line 2 of address</SHIPTOADDRESS2>
          <SHIPTOCITY>Anytown</SHIPTOCITY>
          <SHIPTOPROVINCE>ON</SHIPTOPROVINCE>
          <SHIPTOPOSTALCODE>K1P 1C7</SHIPTOPOSTALCODE>
          <SHIPCARRIER>Purolator</SHIPCARRIER>
          <SHIPSERVICE>Ground</SHIPSERVICE>
          <PONUM>1243</PONUM>
          <REMARKS>These are special instructions. Any entry in this field
            will cause the order to stop at your sales rep's desk to await
            final processing.</REMARKS>
        </ORDERHEADER>
        <ORDERITEMS>
          <ITEM>
            <PARTNUM>XXXX</PARTNUM>
            <QTY>20</QTY>
            <BRANCH>Toronto</BRANCH>
          </ITEM>
          <ITEM>
            <PARTNUM>XXXXXXXXXX</PARTNUM>
            <QTY>10</QTY>
          </ITEM>
        </ORDERITEMS>
      </XMLFORMPOST>
    </SOAP-ENV:Body>
  </SOAP-ENV:Envelope>'

var xmlhttp = new ActiveXObject("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);
```



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The response will be in the form of an XML document with some or all of these elements:

Element	Child of	Description
<XMLRESPONSE>	none	Contains the <STATUS>, <MESSAGE> and <ORDERNUM> elements.
<STATUS>	<XMLRESPONSE>	The value will be “ success ” or “ failure ”. If the value is “failure”, the <MESSAGE> element will contain an error message. IF the value is “success”, the <ORDERNUM> element will contain the order number.
<MESSAGE>	<XMLRESPONSE>	Contains error messages or other notifications.
<ORDERNUM>	<XMLRESPONSE>	Contains the D&H order number.

These are examples of response documents:

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

```
<?xml version="1.0" encoding="UTF-8" ?>
<XMLRESPONSE>
  <MESSAGE>Duplicate PO Number</MESSAGE>
  <STATUS>failure</STATUS>
</XMLRESPONSE>
```