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Quotes for freight charges obtained via this feature are subject to the terms and conditions of the pricing established between the customer and PITT OHIO. Pricing applies only for those shipments that originate at or are destined to the customer’s physical shipping locations as defined in the pricing agreement with PITT OHIO. Charges will also be based on the actual shipment characteristics on the day it is tendered to us.

Please contact us at webmaster@pittohio.com if you experience any problems or have questions with the contents of this guide, or the software itself.
The B2B Rate Calculator XML Interface is a wrapper for the PITT OHIO rate engine. It provides access to the rate engine via a parameterized URL, and returns shipment rate information and/or error messages in XML format as output.

**URL Input**

To send a rate request, format your URL as:

```
http://works.pittohio.com/mypittohio/b2bratecalc.asp?acctnum=##&password=##& …
```

Parameters and values are not case sensitive (with the exception of the password value).

There are a fairly large number of parameters (many with synonyms) that can be sent.

- **AcctNum=, Login=, UserID=, UID=** (Mandatory)
  - Any of these can be used to send your login.

- **Password=, PWD=** (Mandatory)
  - Any of these can be used to send your password.

- **Test=, TestMode=** (Optional, Default=N)
  - If you are just testing with the B2B XML interface, send this with a value of Y (i.e. Test=Y). This will prevent a quote from being saved for this rate lookup request. A dummy quote number will still be returned in the output. The dummy quote number will be formatted as TEStTyymmddhhmmss and is based on the server system time of the request (Eastern Standard Time).

- **UseEscapeSeqs=** (Optional, Default=Y)
  - By default, if an output data field contains certain special characters, then they are replaced with the equivalent escape sequence. The replacements that are made are:

    ```
    & with &amp;
    < with &lt;
    > with &gt;
    " with &quot;
    ```

  - If you are parsing the XML output with your own code (as opposed to using a pre written XML parsing object), you may find it easier to disable these special character replacements. To do so, include UseEscapeSeqs=N in your URL.
ShipCity= (Mandatory)  
Shipper city.

ShipState= (Mandatory)  
Shipper two character state code.

ShipZIP= (Mandatory)  
Shipper five digit US ZIP code.

ConsCity= (Mandatory)  
Consignee city.

ConsState= (Mandatory)  
Consignee two character state code.

ConsZIP= (Mandatory)  
Consignee five digit US ZIP code.

CODAmount=, COD= (Optional, Default=0)  
Any of these can be used to specify that there is a COD for this shipment. The value is the amount to be collected (i.e. CODAmount=2000.00 would mean a COD of $2000.).

PayTerms=, Terms=, PpdCol= (Optional, Default=P)  
Any of these can be used to specify the payment terms. There are three possible settings:

- P for prepaid.
- I for inbound collect
- 3 for third party

ShipDate= (Optional, Default=Current Date)  
Depending on your company’s pricing plan, special rates might be offered based on a specific day of the week. Since this type of pricing is uncommon, the current pickup date is used as a default when this parameter is not provided. Users may request a rate for the next pickup date (excluding Saturday and Sunday) by using the ShipDate parameter. The ShipDate may only be one day ahead of the current pickup day. Valid formats are:

- &ShipDate=MM/DD/YYYY
  Alternatively
- &ShipMonth=MM
- &ShipDay=DD
- &shipyear=YYYY
Shipment Type (Optional)
The following shipment types are supported:

- **ShipType=P, ShipType=PAL**
  Palletized freight (use either P or PAL). A pallet count, Pallets=, must also be provided.

- **ShipType=N** (Default)
  Non-palletized freight. You can include a UnitType and number of units.
  UnitType=, Units=
  For example, to indicate seven drums:
  ShipType=N&UnitType=DRUM&Units=7
  Both UnitType and Units must be sent (or don’t send either of them). UnitType cannot be PAL, use ShipType=P for pallets.

  Some unit types supported include:
  DRUM = drums
  TOTE = totes
  TIRE = tires
  PCS = pieces
  ENG = engines
  CRAT = crates
  CART = cartons
  PLCR = pallet/crates

- **ShipType=M**
  Mixed freight.

(Note: If pallet or unit rates are applicable for a specific pricing plan, and no pallet or unit rates are included in the URL – the shipment will be rated using LTL rates. Please check your company’s pricing to determine whether or not you should be utilizing shipment types.)
### Accessorials

The following accessorials are supported by the B2B Rate Calculator:

<table>
<thead>
<tr>
<th>Accessorial</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Site Del</td>
<td>Acc_CSD=Y</td>
</tr>
<tr>
<td>Convention Site Del</td>
<td>Acc_CNV=Y</td>
</tr>
<tr>
<td>Hazardous Material</td>
<td>Acc_HAZ=Y</td>
</tr>
<tr>
<td>Heat Track - Canada</td>
<td>Acc_DNF=Y</td>
</tr>
<tr>
<td>Heat Track - Protect From Freeze</td>
<td>Acc_PFF=Y</td>
</tr>
<tr>
<td>Holiday Del Charge</td>
<td>Acc_HOL=Y</td>
</tr>
<tr>
<td>Inside Delivery</td>
<td>Acc_IDL=Y</td>
</tr>
<tr>
<td>Liftgate Delivery</td>
<td>Acc_LGD=Y</td>
</tr>
<tr>
<td>Limited Access Delivery</td>
<td>Acc_LAD=Y</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessorial</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited Access Pickup</td>
<td>Acc_LAP=Y</td>
</tr>
<tr>
<td>Mine Site Delivery</td>
<td>Acc_MSD=Y</td>
</tr>
<tr>
<td>Notification</td>
<td>Acc_MNC=Y</td>
</tr>
<tr>
<td>Overlength Freight</td>
<td>Acc_OVR=Y</td>
</tr>
<tr>
<td>Public Self Storage</td>
<td>Acc_PSS=Y</td>
</tr>
<tr>
<td>Residential Delivery</td>
<td>Acc_RES=Y</td>
</tr>
<tr>
<td>Residential Pickup</td>
<td>Acc_REP=Y</td>
</tr>
<tr>
<td>Residential Pick-Up Charge</td>
<td>Acc_REP=Y</td>
</tr>
</tbody>
</table>

You can include more than one accessorial, i.e:

```plaintext
...&Acc_RES=Y&Acc_LGD=Y&Acc_MNC=Y...
```

This would indicate residential delivery, lift-gate and notify.
Line Items \hspace{2cm} \textbf{(At least 1 Mandatory)}

Each line item requires at least a weight and a class. You can optionally also specify an NMFC code or a description for each line item.

Line item parameters are followed by a number between 1 and 10 to allow for up to 10 line items. For example, a three line item bill might look like this:

\[ \ldots \& \text{Class1}=50 \& \text{Wgt1}=1482 \& \text{Class2}=77 \& \text{Wgt2}=497 \& \text{Class3}=100 \& \text{Wgt3}=1104 \ldots \]

which would mean:

<table>
<thead>
<tr>
<th>Line#</th>
<th>Class</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50</td>
<td>1482</td>
</tr>
<tr>
<td>2</td>
<td>77</td>
<td>497</td>
</tr>
<tr>
<td>3</td>
<td>100</td>
<td>1104</td>
</tr>
</tbody>
</table>

The line item fields are as follows:

\textbf{ClassN=} \hspace{2cm} \textbf{(At least 1 Mandatory)}

Freight classification for line number N. Use one of the 18 standard class codes: 50, 55, 60, 65, 70, 77 (or 77.5), 85, 92 (or 92.5), 100, 110, 125, 150, 175, 200, 250, 300, 400, 500. (NOTE: YOU MUST USE THE ACTUAL CLASS OF THE FREIGHT. FAK’S ARE AUTOMATICALLY APPLIED IN THE RESULTING CHARGES.)

\textbf{WeightN=, WgtN=} \hspace{2cm} \textbf{(At least 1 Mandatory)}

Use either one to specify the weight in pounds for line number N.

\textbf{NMFCN=, NMFCItemN=} \hspace{2cm} \textbf{(Optional)}

Use either one to specify the NFMC code for line N.

\textbf{DescN=} \hspace{2cm} \textbf{(Optional)}

Specifies a description for line N.
Outputs
The following outputs are supported:

- **Verbose=N**
  This is the default setting. No line item data is returned.

- **Verbose=Y**
  Line item data is returned with the freight charges.

XML Output Example

An example of the XML output is as follows.

URL input: (Note: URL parameters are listed on separate lines in this document for clarity. The actual input would be one long string.)

```
B2BRateCalc.asp?uid=joe&pwd=foo&
   shipcity=CLEVELAND&shipstate=OH&shipzip=44101&
   conscity=PITTSBURGH&consstate=PA&conszip=15201&
   class1=50&weight1=4850&nmfc1=1234567&
   acc_res=Y&cod=1750.00&test=Y
```

XML Output:

```
<?xml version="1.0"?>
<PITTOHIO>
   <NUMERRORS>0</NUMERRORS>
   <QUOTEID>TEST050811164228</QUOTEID>
   <CHARGE>260.59</CHARGE>
   <ADVERTISEDTRANSIT>1</ADVERTISEDTRANSIT>
   <DISCOUNTPERCENTAGE>33.375%</DISCOUNTPERCENTAGE>
   <CODFEE>43.75</CODFEE>
   <ORIGTERMINFO>
      <ORIGTERM>CLV</ORIGTERM>
      <ORIGTERMADDRESS>15225 Industrial Parkway</ORIGTERMADDRESS>
      <ORIGTERMSTATE>Cleveland</ORIGTERMSTATE>
      <ORIGTERMZIP>44135</ORIGTERMZIP>
      <ORIGTERMPHONE>216-433-9000</ORIGTERMPHONE>
   </ORIGTERMINFO>
   <DESTTERMINFO>
      <DESTTERM>PGH</DESTTERM>
      <DESTTERMADDRESS>45 26th Street</DESTTERMADDRESS>
      <DESTTERMCITY>Pittsburgh</DESTTERMCITY>
      <DESTTERMSTATE>PA</DESTTERMSTATE>
      <DESTTERMZIP>15222</DESTTERMZIP>
      <DESTTERMPHONE>412-232-3015</DESTTERMPHONE>
   </DESTTERMINFO>
</PITTOHIO>
```
Note that if “test=N” (or if “test=” is not specified at all), then this would be a production rate request and a real quote number would be returned.

Standard format always echoes back the origin and destination.

Charges are itemized to break down the freight charges, discount (and percentage), accessorials, FSC and COD FEE. The total charges are in the <TotalCharges> field; the charges include everything.
XML Output Showing City Error

When a city doesn’t match the specified ZIP code, the XML output string returns extra data. In the following example, the shipper city name is misspelled. All the possible PITT OHIO service points for zip code 44101 would be returned.

URL Input:

```
B2BRateCalc.asp?uid=joe&pwd=foo&shipcity=CLEVLAND&shipstate=OH&shipzip=44101&conscity=PITTSBURGH&consstate=PA&conszip=15201&class1=50&weight1=4850&nmfc1=1234567&acc_res=Y&cod=1750.00&test=Y
```

XML Output:

```
<?xml version="1.0"?>
PITTOHIO
  <SHIP>
    <CITYCODEINFO>
      <SIMILARCITIES>
        <CITYRECORD>
          <CITY>BROOKLYN</CITY>
          <STATE>OH</STATE>
          <ZIP>44101</ZIP>
          <STATION>CLV</STATION>
          <SERVICE>D</SERVICE>
        </CITYRECORD>
        <CITYRECORD>
          <CITY>CLEVELAND</CITY>
          <STATE>OH</STATE>
          <ZIP>44101</ZIP>
          <STATION>CLV</STATION>
          <SERVICE>D</SERVICE>
        </CITYRECORD>
        <CITYRECORD>
          <CITY>EUCLID HEIGHTS</CITY>
          <STATE>OH</STATE>
          <ZIP>44101</ZIP>
          <STATION>CLV</STATION>
          <SERVICE>D</SERVICE>
        </CITYRECORD>
        <CITYRECORD>
          <CITY>EUCLID JUNCTION</CITY>
          <STATE>OH</STATE>
          <ZIP>44101</ZIP>
          <STATION>CLV</STATION>
          <SERVICE>D</SERVICE>
        </CITYRECORD>
        <CITYRECORD>
          <CITY>LEWIS RESEARCH CTR</CITY>
          <STATE>OH</STATE>
          <ZIP>44101</ZIP>
          <STATION>CLV</STATION>
          <SERVICE>D</SERVICE>
        </CITYRECORD>
      </SIMILARCITIES>
    </CITYCODEINFO>
  </SHIP>
```
Note that this output includes an <DROPDOWN> section that contains the HTML to populate a combo box with the list of cities that were found. This is included in the output, but, to properly embed HTML within XML, the CDATA tag must be used, i.e.:

```xml
<DROPDOWN><![CDATA[<... html here ...]]></DROPDOWN>
```

The combo box’s name will be cmbSHIPLocs if the problem is with the shipper or cmbCONSLocs if the problem is with the consignee.
Error Codes
The following error codes are returned via the XML Interface.

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>-503</td>
<td>Origin ZIP is not in any of the tariff(s) assigned to the pricing plan. The terminal service checking should hide this (and -504) unless the account is pointed to a pricing plan that uses an out-of-date tariff.</td>
</tr>
<tr>
<td>-504</td>
<td>Destination ZIP is not in any of the tariff(s) assigned to the pricing plan.</td>
</tr>
<tr>
<td>-552</td>
<td>Invalid class code.</td>
</tr>
<tr>
<td>-5000</td>
<td>No more quote numbers available (or NextNos program is being used to change the quote number pool). Please contact the webmaster if this error is received.</td>
</tr>
<tr>
<td>-9002</td>
<td>City name is blank.</td>
</tr>
<tr>
<td>-9003</td>
<td>State code is blank.</td>
</tr>
<tr>
<td>-9004</td>
<td>Apparent US ZIP code is not numeric.</td>
</tr>
<tr>
<td>-9005</td>
<td>Apparent Canadian postal code is not X9X 9X9 format.</td>
</tr>
<tr>
<td>-9006</td>
<td>ZIP is not US or Canadian format.</td>
</tr>
<tr>
<td>-9050</td>
<td>Could not match city/state to ZIP code.</td>
</tr>
<tr>
<td>-9099</td>
<td>Not in POE service area.</td>
</tr>
<tr>
<td>-9102 to -9199</td>
<td>Same as -9002 through -9099 but for consignee.</td>
</tr>
<tr>
<td>-9200</td>
<td>COD amount is not numeric.</td>
</tr>
<tr>
<td>-9201</td>
<td>Weight but no class for line item &lt;line no&gt;</td>
</tr>
<tr>
<td>-9202</td>
<td>Class but no weight for line item &lt;line no&gt;</td>
</tr>
<tr>
<td>-9205</td>
<td>Pallet count must be greater than 0 if used (0)</td>
</tr>
<tr>
<td>-9210</td>
<td>No line items specified.</td>
</tr>
<tr>
<td>-9211</td>
<td>Invalid shipment date specified (&lt;date&gt;)</td>
</tr>
<tr>
<td>-9230</td>
<td>Accessorial code &lt;XXX&gt; is invalid &lt;XXX&gt; is replaced with the accessorial code that was in error</td>
</tr>
<tr>
<td>-9231</td>
<td>Unable to determine charges for accessorial &lt;XXX&gt; &lt;XXX&gt; is replaced with the accessorial code that did not return a charge.</td>
</tr>
<tr>
<td>-9240</td>
<td>ShipType is invalid, must be N(on-pallet), P(allet) or M(ixed)</td>
</tr>
<tr>
<td>-9241</td>
<td>Pallet count is not specified for pallet shipment type</td>
</tr>
<tr>
<td>-9242</td>
<td>Pallet count cannot be specified for a non-pallet shipment type</td>
</tr>
<tr>
<td>-9245</td>
<td>Units must be greater than 0 if used (&lt;units&gt;) &lt;units&gt; is replaced with the value that was specified. This indicates that the user tried to specify a negative or zero value for units.</td>
</tr>
<tr>
<td>-9246</td>
<td>Units must be numeric (&lt;units&gt;) &lt;units&gt; is replaced with the value that was specified. This indicates that the user tried to specify a non-numeric value for units.</td>
</tr>
<tr>
<td>-9247</td>
<td>Units (&lt;units&gt;) specified but UnitType omitted &lt;units&gt; is replaced with the value that was specified.</td>
</tr>
<tr>
<td>-9248</td>
<td>UnitType (&lt;unittype&gt;) specified but Units omitted &lt;unittype&gt; is replaced with the value that was specified.</td>
</tr>
<tr>
<td>Code</td>
<td>Meaning</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>-9249</td>
<td>UnitType (&lt;unittype&gt;) is not valid&lt;br/&gt;&lt;unittype&gt; is replaced with the value that was specified.</td>
</tr>
<tr>
<td>-9250</td>
<td>UnitType can not be PAL.</td>
</tr>
<tr>
<td>-9500</td>
<td>No pricing plan number set up for your account.</td>
</tr>
<tr>
<td>-9501</td>
<td>User ID not specified.</td>
</tr>
<tr>
<td>-9502</td>
<td>Password not specified.</td>
</tr>
<tr>
<td>-9503</td>
<td>No pricing plan number set up for your account (GetKeyTypeByName failed)</td>
</tr>
<tr>
<td>-9504</td>
<td>No pricing plan number set up for your account (User setup not complete)</td>
</tr>
<tr>
<td>-9506</td>
<td>No pricing plan number set up for your account (key value formatting problem)</td>
</tr>
<tr>
<td>-9511</td>
<td>User ID is not valid.</td>
</tr>
<tr>
<td>-9512</td>
<td>Password is not valid.</td>
</tr>
<tr>
<td>-9513</td>
<td>User account is inactive</td>
</tr>
<tr>
<td>-9519</td>
<td>Account suspended, too many password validations (note that you can clear this error by trying again with the correct password)</td>
</tr>
<tr>
<td>-99910 to 99916</td>
<td>Rate engine needed a pop-up operator prompt / request for more information to complete the rate lookup (impossible to do via the web).</td>
</tr>
<tr>
<td>All Others</td>
<td>Rate engine error code, see &lt;ErrorMessage&gt; for description.</td>
</tr>
</tbody>
</table>