

PITT OHIO Rate Calculator API User Guide

Version 2.0

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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 APIsupport@pittohio.com if you experience any problems or have questions with the contents of this guide, or the software itself.

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The PITT OHIO Rate Calculator 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:

<https://pittoho.com/webservices/restservices/api/B2BRateCalc/get?>

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 TESTyymmddhhmmss and is based on the server system time of the request (Eastern Standard Time).

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 a date in the future by using the ShipDate parameter. The ShipDate may only be four days 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

(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

(Optional)

The following accessorials are supported by the Rate Calculator:

Accessorial	Parameter
Construction Site Del	CSD
Convention Site Del	CNV
Hazardous Material	HAZ
Heat Track - Canada	DNF
Heat Track - Protect From Freeze	PFF
Holiday Del Charge	HOL
Inside Delivery	IDL
Liftgate Delivery	LGD
Limited Access Delivery	LAD

Accessorial	Parameter
Limited Access Pickup	LAP
Mine Site Delivery	MSD
Notification	MNC
Overlength Freight	OVR
Public Self Storage	PSS
Residential Delivery	RES
Residential Pickup	REP

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

...&accessorials=RES|LGD|MNC...

This would indicate residential delivery, liftgate and notify. When including multiple accessorials separate by “|”.

If sending over the Overlength Freight accessorial, a freight length must also be sent:

...&accessorials=OVR&FrtLen=20...

Line Items

(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:

...&Class1=50&Wgt1=1482&Class2=77&Wgt2=497&Class3=100&Wgt3=1104...

which would mean:

<u>Line#</u>	<u>Class</u>	<u>Weight</u>
1	50	1482
2	77	497
3	100	1104

The line item fields are as follows:

ClassN=

(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.)

WeightN=, WgtN=

(At least 1 Mandatory)

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

NMFCN=, NMFCItemN=

(Optional)

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

DescN=

(Optional)

Specifies a description for line N. (60 character max)

Outputs

(Optional)

The following outputs are supported:

- **Verbose=N**

(Default)

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/get?acctnum=joe&
password=password&
shipzip=44101&
shipcity=cleveland&
shipstate=oh&
conszip=15222&
conscity=pittsburgh&
consstate=pa&
class1=50&
wgt1=2000&
accesorials=RES|LGD
test=y
```

XML Output:

```
<B2BRateCalc version="2.0">
<SHIP>
<City>CLEVELAND</City>
<State>OH</State>
<ZIP>44101</ZIP>
</SHIP>
<CONS>
<City>PITTSBURGH</City>
<State>PA</State>
<ZIP>15222</ZIP>
</CONS>
<NumErrors>0</NumErrors>
<QuoteID>TEST201619111621</QuoteID>
<FreightCharges>748.00</FreightCharges>
<AccessorialCharges>157.00</AccessorialCharges>
<Discount>-498.62</Discount>
<DiscountPct>66.66%</DiscountPct>
<FSC>24.94</FSC>
<TotalCharges>431.32</TotalCharges>
<AdvertisedTransit>1</AdvertisedTransit>
<OrigTermInfo>
```

```
<OrigTerm>CLV</OrigTerm>
<OrigTermAddress>15225 Industrial Parkway</OrigTermAddress>
<OrigTermCity>Cleveland</OrigTermCity>
<OrigTermState>OH</OrigTermState>
<OrigTermZIP>44135</OrigTermZIP>
<OrigTermPhone>216-433-9000</OrigTermPhone>
</OrigTermInfo>
<DestTermInfo>
<DestTerm>PGH</DestTerm>
<DestTermAddress>1 Rich Hill Road</DestTermAddress>
<DestTermCity>Cheswick</DestTermCity>
<DestTermState>PA</DestTermState>
<DestTermZIP>15024</DestTermZIP>
<DestTermPhone>412-232-3015</DestTermPhone>
</DestTermInfo>
</B2BRateCalc>
```

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.

Error Codes

The following error codes are returned via the XML Interface.

Code	Meaning
-503	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.
-504	Destination ZIP is not in any of the tariff(s) assigned to the pricing plan.
-552	Invalid class code.
-5000	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.
	<i>Codes –9000 to –9099 indicate problems with the shipper location. Codes –9100 to –9199 indicate problems with the consignee (i.e. –9102 means consignee city name is blank, -9002 means shipper city is blank).</i>
-9002	City name is blank.
-9003	State code is blank.
-9004	Apparent US ZIP code is not numeric.
-9005	Apparent Canadian postal code is not X9X 9X9 format.
-9006	ZIP is not US or Canadian format.
-9050	Could not match city/state to ZIP code.
-9099	Not in POE service area.
-9102 to -9199	Same as –9002 through –9099 but for consignee.
-9200	COD amount is not numeric.
-9201	Weight but no class for line item <line no>
-9202	Class but no weight for line item <line no>
-9205	Pallet count must be greater than 0 if used (0)
-9210	No line items specified.
-9211	Invalid shipment date specified (<date>)
-9230	Accessorial code <XXX> is invalid <XXX> is replaced with the accessorial code that was in error
-9231	Unable to determine charges for accessorial <XXX> <XXX> is replaced with the accessorial code that did not return a charge.
-9240	ShipType is invalid, must be N(on-pallet), P(allet) or M(ixed)
-9241	Pallet count is not specified for pallet shipment type
-9242	Pallet count cannot be specified for a non-pallet shipment type
-9245	Units must be greater than 0 if used (<units>) <units> is replaced with the value that was specified. This indicates that the user tried to specify a negative or zero value for units.
-9246	Units must be numeric (<units>) <units> is replaced with the value that was specified. This indicates that the user tried to specify a non-numeric value for units..
-9247	Units (<units>) specified but UnitType omitted <units> is replaced with the value that was specified.
-9248	UnitType (<unittype>) specified but Units omitted

Code	Meaning
	<unittype> is replaced with the value that was specified.
-9249	UnitType (<unittype>) is not valid <unittype> is replaced with the value that was specified.
-9250	UnitType can not be PAL.
-9500	No pricing plan number set up for your account.
-9501	User ID not specified.
-9502	Password not specified.
-9503	No pricing plan number set up for your account (GetKeyTypeByName failed)
-9504	No pricing plan number set up for your account (User setup not complete)
-9506	No pricing plan number set up for your account (key value formatting problem)
-9511	User ID is not valid.
-9512	Password is not valid.
-9513	User account is inactive
-9519	Account suspended, too many password validations (note that you can clear this error by trying again with the <i>correct</i> password)
-99910 to -99916	Rate engine needed a pop-up operator prompt / request for more information to complete the rate lookup (impossible to do via the web).
All Others	Rate engine error code, see <ErrorMessage> for description.