

B2B Transit Time Calculator

Version 1.0

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Overview

The B2B Transit Time Calculator enables customers to interact with PITT OHIO to obtain transit time information. Customers may integrate with our Transit Time Calculator via a SOAP web service. This PITT OHIO web service uses the SOAP protocol as specified by W3C and as implemented in the Microsoft .NET platform.

Web Service Location

<http://works.pittohio.com/WebServices/PBEServices/B2BTransitTime.asmx>

Web Service Description

<http://works.pittohio.com/WebServices/PBEServices/B2BTransitTime.asmx?WSDL>

Namespace

Methods and data objects in the B2BTransitTime web service are in the namespace "http://pittohio.com". Other namespaces used in the web service description document are:

- xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
- xmlns:tm="http://microsoft.com/wsdl/mime/textMatching/"
- xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
- xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
- xmlns:tns="http://pittohio.com/"
- xmlns:s="http://www.w3.org/2001/XMLSchema"
- xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
- xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
- xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"

Method: CalculateTransitTime

```
<s:element name="CalculateTransitTime">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="origZip" type="s:string" />
      <s:element minOccurs="0" maxOccurs="1" name="destZip" type="s:string" />
      <s:element minOccurs="0" maxOccurs="1" name="shipDate" type="s:string" />
      <s:element minOccurs="1" maxOccurs="1" name="verbose" type="s:boolean" />
    </s:sequence>
  </s:complexType>
</s:element>
```

CalculateTransitTime: Input Parameters

Parameter	Type	Required	Description	Examples
origZip	String	Required	This value represents the origin ZIP code of the intended shipment. The <code>origZip</code> must be entered as a 5-digit US Zip Code, 5-digit US Zip Code+4 or an "ANA NAN" style Canadian Postal Code. Either the <code>origZip</code> or <code>destZip</code> must be serviced directly by PITT OHIO.	15226 15226-1625 M6E 3V4
destZip	String	Required	A string representing the destination ZIP code of the intended shipment. The <code>destZip</code> must be entered as a 5-digit US Zip Code, 5-digit US Zip Code+4 or an "ANA NAN" style Canadian Postal Code. Either the <code>origZip</code> or <code>destZip</code> must be a ZIP code serviced directly by PITT OHIO.	15226 15226-1625 M6E 3V4
shipDate	String	Optional	This string is used to indicate the date of the intended shipment and must be able to be converted to a valid <code>DateTime</code> . The <code>shipDate</code> must not be in the past and no more than two weeks into the future. The shipping date may not be a weekend or	1/8/2013 01-08-13 01/08/2013

			holiday. If a <code>shipDate</code> is not provided the current date will be used as the default date.	
verbose	Boolean	Required	A boolean value that indicates whether detailed or summary transit information is desired. When <code>verbose</code> is false the function returns the standard transit time, estimated delivery date and booleans indicating if the origin and destination ZIP codes are within the PITT OHIO service territory. When <code>verbose</code> is true, in addition to the summary information, the SOAP response will include details about the origin and destination terminal. If the ZIP code is serviced by a partner carrier, the partner's terminal details will also be provided (if available).	true false

CalculateTransitTime: Possible Errors

- Missing destination ZIP/Postal Code.
- Missing origin ZIP/Postal Code.
- Origin ZIP/Postal Code is invalid or unknown.
- Destination ZIP/Postal Code is invalid or unknown.
- Origin and destination points are both outside of the PITT OHIO territory.
- Origin ZIP/Postal code ##### not serviced.
- Destination ZIP/Postal code ##### not serviced.
- Transit time cannot be calculated for the given ZIP/Postal Codes.
- Date is more than two weeks in the future.
- Date a weekend or holiday.
- Date is in the past.

CalculateTransitTime: Type - TransitTimeResultEx

```
<s:complexType name="TransitTimeResultEx">
  <s:sequence>
    <s:element minOccurs="0" maxOccurs="1" name="Request" type="tns:TransitTimeRequest" />
    <s:element minOccurs="0" maxOccurs="1" name="ErrorMessage" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="ErrorMessages" type="tns:ArrayOfString" />
    <s:element minOccurs="0" maxOccurs="1" name="TransitTimeInfo" type="tns:TransitTimeInfoEx" />
  </s:sequence>
</s:complexType>
```

CalculateTransitTime: Type - TransitTimeInfoEx

```
<s:complexType name="TransitTimeInfoEx">
  <s:sequence>
    <s:element minOccurs="1" maxOccurs="1" name="TransitDays" nillable="true" type="s:int" />
    <s:element minOccurs="0" maxOccurs="1" name="ShipDate" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="EstimatedDeliveryDate" type="s:string" />
    <s:element minOccurs="1" maxOccurs="1" name="OrigDirectService" type="s:boolean" />
    <s:element minOccurs="1" maxOccurs="1" name="DestDirectService" type="s:boolean" />
    <s:element minOccurs="0" maxOccurs="1" name="PITTOHIOOrigTerminalInfo" type="tns:PBETerminalInfo" />
    <s:element minOccurs="0" maxOccurs="1" name="PITTOHIODestTerminalInfo" type="tns:PBETerminalInfo" />
    <s:element minOccurs="0" maxOccurs="1" name="PartnerOrigTerminalInfo" type="tns:PBETerminalInfo" />
    <s:element minOccurs="0" maxOccurs="1" name="PartnerDestTerminalInfo" type="tns:PBETerminalInfo" />
  </s:sequence>
</s:complexType>
```

Field Name	Type	Description
TransitDays	Integer	This is the standard transit time for the ZIP codes provided. Please note that service times and terminal routing are subject to change. We strongly suggest passing the optional parameter, <code>shipDate</code> , in order to ensure that the accurate transit days are returned.
ShipDate	String	This date represents the shipping date that the transit calculation was requested for. This value will be equal to the current date (default) if a <code>shipDate</code> was not passed as an input.
EstimatedDeliveryDate	String	This is the estimated delivery date which is calculated based on the shipping

		date and the standard transit time. Please note the estimated delivery date maybe greater than the services days due to weekends or holidays. For shipments requiring weekend delivery, guaranteed delivery dates or expedited service please contact our customer service department.
OrigDirectService	Boolean	This value will be true if the origin ZIP code is serviced directly by PITT OHIO. A false value indicates that the origin point is serviced by a member of The Reliance Network or another agent of PITT OHIO.
DestDirectService	Boolean	This value will be true if the destination ZIP code is serviced directly by PITT OHIO. A false value indicates that the destination point is serviced by a member of The Reliance Network or another agent of PITT OHIO.
PITTOHIOOrigTerminalInfo	PBETerminalInfo	Details of the PITT OHIO terminal that services the origin ZIP code. If the origin ZIP code is not serviced directly by PITT OHIO, details of the PITT OHIO terminal that interchanges with the partner or agent will be displayed.
PITTOHIODestTerminalInfo	PBETerminalInfo	Details of the PITT OHIO terminal that services the destination ZIP code. If the destination ZIP code is not serviced directly by PITT OHIO, details of the PITT OHIO terminal that interchanges with the partner or agent will be displayed.
PartnerOrigTerminalInfo	PBETerminalInfo	If the origin ZIP code is not a direct service point for PITT OHIO, this element will include details of the partner terminal that services the pick-up location. Please note partner information may not be complete for all carriers and agents.
PartnerDestTerminalInfo	PBETerminalInfo	If the destination ZIP code is not a direct service point for PITT OHIO, this element will include details of the partner terminal that services the delivery location. Please note partner information may not be complete for all carriers and agents.

CalculateTransitTime: Type - TransitTimeInfoEx

```

<s:complexType name="PBETerminalInfo">
  <s:sequence>
    <s:element minOccurs="0" maxOccurs="1" name="Carrier" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="SCAC" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="TermID" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="Name" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="Address1" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="Address2" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="City" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="State" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="Zip" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="Phone" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="Fax" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="TollFree" type="s:string" />
    <s:element minOccurs="1" maxOccurs="1" name="IsTRNET" type="s:boolean" />
  </s:sequence>
</s:complexType>

```

Field Name	Type	Description
Carrier	String	The name of the carrier.
SCAC	String	The SCAC (Standard Carrier Alpha Code) is a unique two-to-four-letter code used to identify transportation companies. PITT OHIO's SCAC is "PITD". More information about SCACs can be found on the National Motor Freight Traffic Association's website, www.nmfta.org .
TermID	String	This code is a unique identifier that the carrier uses to identify their terminals. *
Name	String	The descriptive name of the carrier's terminal. *
Address1	String	The terminal's address. *
Address2	String	The second line of the terminal's address. *
City	String	The city in which the terminal is located. *
State	String	The state or province in which the terminal is located. *

Zip	String	The 5-digit US Zip Code, 5-digit US Zip Code+4 or an "ANA NAN" style Canadian Postal Code for the terminal. *
Phone	String	The local phone number for the terminal. *
Fax	String	The fax number for the terminal. *
TollFree	String	The toll free contact number for the terminal. *
IsTRNET	Boolean	This flag indicates whether or not the carrier is a member of The Reliance Network. PITT OHIO is a founding member of The Reliance Network. More information about The Reliance Network can be found at www.thereliancenetwork.com .
		* Please note terminal information is subject to availability and may not be complete for all carriers and agents.

Example #1: SOAP Request

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CalculateTransitTime xmlns="http://pittohio.com/">
      <OrigZip>44118</OrigZip>
      <DestZip>15239</DestZip>
      <ShipDate/>
      <Verbose>false</Verbose>
    </CalculateTransitTime>
  </soap:Body>
</soap:Envelope>
```

Example #1: SOAP Response

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CalculateTransitTimeResponse xmlns="http://pittohio.com/">
      <CalculateTransitTimeResult>
        <Request>
          <OrigZip>44118</OrigZip>
          <DestZip>15239</DestZip>
          <ShipDate />
          <Verbose>false</Verbose>
        </Request>
        <TransitTimeInfo>
          <TransitDays>1</TransitDays>
          <ShipDate>2013-01-09</ShipDate>
          <EstimatedDeliveryDate>2013-01-10</EstimatedDeliveryDate>
          <OrigDirectService>true</OrigDirectService>
          <DestDirectService>true</DestDirectService>
        </TransitTimeInfo>
      </CalculateTransitTimeResult>
    </CalculateTransitTimeResponse>
  </soap:Body>
</soap:Envelope>
```

Example #2: SOAP Request

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CalculateTransitTime xmlns="http://pittohio.com/">
      <OrigZip>44118</OrigZip>
      <DestZip>30602</DestZip>
      <ShipDate>1/10/13</ShipDate>
      <Verbose>false</Verbose>
    </CalculateTransitTime>
  </soap:Body>
</soap:Envelope>
```

Example #2: SOAP Response

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CalculateTransitTimeResponse xmlns="http://pittohio.com/">
      <CalculateTransitTimeResult>
        <Request>
          <OrigZip>44118</OrigZip>
          <DestZip>15239</DestZip>
          <ShipDate>1/10/13</ShipDate>
          <Verbose>false</Verbose>
        </Request>
        <TransitTimeInfo>
          <TransitDays>2</TransitDays>
          <ShipDate>2013-01-10</ShipDate>
          <EstimatedDeliveryDate>2013-01-14</EstimatedDeliveryDate>
          <OrigDirectService>true</OrigDirectService>
          <DestDirectService>false</DestDirectService>
          <PITTOHIOOrigTerminalInfo>
            <Carrier>PITT OHIO Express</Carrier>
            <SCAC>PITD</SCAC>
            <TermID>CLV</TermID>
            <Name>Cleveland</Name>
            <Address1>15225 Industrial Parkway</Address1>
            <Address2 />
            <City>Cleveland</City>
            <State>OH</State>
            <Zip>44135</Zip>
            <Phone>1-216-433-9000</Phone>
            <Fax>1-216-433-1197</Fax>
            <TollFree>1-800-241-1222</TollFree>
            <IsTRNET>true</IsTRNET>
          </PITTOHIOOrigTerminalInfo>
          <PITTOHIODestTerminalInfo>
            <Carrier>PITT OHIO Express</Carrier>
            <SCAC>PITD</SCAC>
            <TermID>CIN</TermID>
            <Name>Cincinnati</Name>
            <Address1>11501 Mosteller Road</Address1>
            <Address2 />
            <City>Cincinnati</City>
            <State>OH</State>
            <Zip>45241</Zip>
            <Phone>1-513-771-2477</Phone>
            <Fax>1-513-771-3477</Fax>
          </PITTOHIODestTerminalInfo>
        </TransitTimeInfo>
      </CalculateTransitTimeResult>
    </CalculateTransitTimeResponse>
  </soap:Body>
</soap:Envelope>
```



```
<TollFree>1-800-765-4165</TollFree>
<IsTRNET>true</IsTRNET>
</PITTOHIODestTerminalInfo>
<PartnerDestTerminalInfo>
  <Carrier>Averitt Express</Carrier>
  <SCAC>AVRT</SCAC>
  <TermID>NOR</TermID>
  <Name>ATLANTA EAST (NOR)</Name>
  <Address1>1156 OLD NORCROSS RD</Address1>
  <Address2 />
  <City>LAWRENCEVILLE</City>
  <State>GA</State>
  <Zip />
  <Phone>678-407-6500</Phone>
  <Fax>678-407-4690</Fax>
  <TollFree>800-283-7488</TollFree>
  <IsTRNET>true</IsTRNET>
</PartnerDestTerminalInfo>
</TransitTimeInfo>
</CalculateTransitTimeResult>
</CalculateTransitTimeReponse>
</soap:Body>
</soap:Envelope>
```