Sending Xchange Data to Tenstreet
API Guide (rev 10/2017)

Contents

Introduction

For anyone wanting to send data to us, their only option is to set up an XML POST or consume our Web Service (WSDL). We don't have the ability to receive emails and import them in.

The transmission would have a text/xml UTF-8 header and do not come over as a url-encoded field. We take whatever information is sent over and put it into our system.

Agreements and Acknowledgements

Understanding the API

You are responsible for understanding the basics of xml and HTTP posting, and understanding the information contained within this document.

Debugging

You are responsible for parsing the Tenstreet response for debugging purposes. Failure to do so will result in data not being accepted into the system. If the posting type requires you to send a response back to our system, you are also responsible for sending that response, otherwise our system will not consider operations complete.

Logging

We expect you to keep both post and response logs of data that has been sent and received. **We expect this to be kept for at least 1 calendar year**. Tenstreet keeps the same data for 1 calendar year. This ensures the ability to audit all transactions from both sides.

Data Accuracy

If you have access to update multiple accounts (usually in the case of a job board), you also acknowledge that you will be responsible for posting the correct information to the correct account. Tenstreet will only validate that the passed Company ID and Password match, but will not attempt to validate that the information being sent belongs to the Company ID provided.

Support Requests

We want you to receive and send data to our system as your business use requires. We have a dedicated support group that handles requests about integrating your data with us at integrations@tenstreet.com.

If you need to contact us for support, please note that we are working toward getting you a response in the order it was received in the support queue, and that can take several elapsed working days. Sending more requests will just put your need further behind in the queue as we will have to handle them all separately. So please send one really well-formed request at a time.

This service is very popular, technical, and requires us to free up resources to answer your questions. But we *will* get to them.

When sending support requests, **please include**:
----
a) The Tenstreet XML response you are receiving if you are receiving one at all

b) your outbound or inbound ips (as relevant)

c) The URL you are posting to, as it is quite often that clients post to the development URL for their production data and get a response that says the company id is invalid, so make sure you are posting to the right environment.

d) The XML you are sending or receiving (as relevant), This speaks volumes to us, and will ultimately expedite your request. Do not send us PII data like an SSN. Just replace that with xxx-xx-1234 in the file

before you send it. Or delete it completely, it is not usually relevant to a support case.

e) A phone number, time zone, and time frame in which we can reach you. Often these issues are less overhead to resolve with a single phone call rather than multiple emails.

Authentication to the Tenstreet API

To authenticate your request, you must supply an authentication node in your xml. Please review the following table for a description of the node.

TenstreetData\Authentication

Node	Data Type	Required	Description
ClientId	Integer	Required	Provided by Tenstreet. This is your internal client id in the Tenstreet API system, not your Company ID
Password	String	Required	Provided by Tenstreet. This is a password generated specifically for using the Tenstreet API. It will be used for all API service, but nowhere else in the system.
Service	String	Required	The service you are requesting.

Example

The xml you need to use for this node looks like the follow and must be at the top of your file:

```
<Authentication>
   <ClientId>2</ClientId>
   <Password>987u34hng87asdh</Password>
   <Service> </Service>
</Authentication>
```

Considerations

PLEASE NOTE: This above is sample data. To receive your credentials, please contact integrations@tenstreet.com

Overview

POST Request

Please review the following table for a listing of all the nodes that can be passed in this request, if they are required or not, and a description of what type of data can be passed in.

TenstreetData

This is standard information that gets sent with the request

Node	Data Type	Required	Description
Mode	String	Required	TEST or PROD. Informational only, confirms the system that the data came from
CompanyID	Integer	Required	Provided by Tenstreet. Your internal Company ID, used to help in matching up your request to the correct company Example: 15
ProviderId	Integer	Required	Provided by Tenstreet. Internal ID used in the Xchange system. Example: 15
DriverID	Integer or String	Optional	An identifier in your system for a subject, such as a unique ID. Will be populated in the Tenstreet POST Response, which can then be used in your system for validation of the request.
SendSubjectToXpress	String	Optional	y or n. Also send subject information to Xpress (for enterprise clients)

PersonalData

This section contains demographic info on the candidate

TenstreetData\PersonalData

Node	Data Type	Required	Description
GovernmentId	String	Optional	Subject's Government ID. Has attributes of the following: countryCode issuingAuthority documentType Example: <GovernmentID countryCode="US" issuingAuthority="SSA"

documentType="SSN">111223333</GovernmentID>

DateOfBirth	String	Optional	Subject's Date of Birth. Example: 1969-01-01

TenstreetData\PersonalData\PersonName

Node	Data Type	Required	Description
Prefix	String	Optional	Subject's Prefix (Mr., Mrs., etc)
GivenName	String	Required	Subject's given, or first, name
MiddleName	String	Optional	Subject's middle name or initial(s)
FamilyName	String	Required	Subject's family, or last, name
Affix	String	Optional	Subject's Affix (MD, II, III, Jr, etc)

TenstreetData\PersonalData\PostalAddress

Node	Data Type	Required	Description
CountryCode	String	Required	Two letter code for subject's country of residence
Municipality	String	Required	Subject's municipality of residence. Also called City or Town
Region	String	Required	Subject's region of residence. Also called State or Province
PostalCode	String or Integer	Required	Subject's postal code. Also called Zip Code or Post Code
Address1	String	Required	Subject's primary address. Usually a number followed by a street name.
Address2	String	Optional	Subject's secondary address. Usually an apartment number or division assignment number.

TenstreetData\PersonalData\ContactData(Optional Node)

This node has an optional attribute of PreferredMethod, which can be set to the node name of any of the below

Node	Data Type	Required	Description
InternetEmailAddress	String	Optional	Subject's email address
PrimaryPhone	String	Optional	Subject's Primary Phone Number
SecondaryPhone	String	Optional	Subject's Secondary Phone Number, such as mobile phone

ProviderData

This section contains information about the period of service for the subject.

ProviderData\PeriodOfService

Node	Data Type	Required	Description
StartDate	DateTime	Optional	Start of Subject's employment period
EndDate	DateTime	Optional	End of Subject's employement period
PositionHeld	String	Optional	Subject's title
ReasonForLeaving	String	Optional	Describes why the subject left, if not terminal
DriverClass	String	Optional	One of the following: <blank>, Company, Lease/Purchase, Owner/Operator, Driver for Owner/Operator
DriverType	String	Optional	One of the following: <blank>, Solo, Student, Team
EligibleForRehire	String	Optional	One of the following: <blank>, Yes, No, Review, Other
Terminated	String	Optional	Y or N. Was the subject terminated
TerminatedReason	String	Optional	Explanation of why the subject was terminated
PositionSubjectToFmcsr	String	Optional	Y or n. Was the subject's position subject to the FMCSR
PositionDotSafetySensitive	String	Optional	Y or n. Was the subject's position a DOT safety sensitive position?
FullTimePartTime	String	Optional	Describe the subject's working hours
HoursPerWeek	String	Optional	How many hours the subject drove per week

AreasDriven	String	Optional	Where subject would drive for this position
NumberOfStatesDriven	String	Optional	Number of states subject would drive through for this position
MilesPerWeek	String	Optional	Number of miles subject would drive per week
TruckType	String	Optional	Type of truck driven. Please see examples for a list of acceptable values
TrailerType	String	Optional	Type of trailer pulled. Please see examples for a list of acceptable values
TrailerLength	String	Optional	Length of trailer driver
LoadsHauled	String	Optional	Description of loads hauled

ProviderData\PeriodOfService\DrugAlcoholDetail(Optional Node)

Node	Data Type	Required	Description
AlcoholTestHigherThan04	String	Optional	Y or N. Did the subject test higher than a .04 BAC
VerifiedPositiveDrugTests	String	Optional	Y or N. Did the subject test positive on drug test
TestRefusals	String	Optional	Y or N. Did the subject refuse a drug test
OtherDrugAlcoholTestingRegulations	String	Optional	Y or N
PreviousEmployerReportViolation	String	Optional	Y or N
IfYesReturnToDuty	String	Optional	Y or N

ProviderData\PeriodOfService\Accidents (Optional Node)

If supplying accidents, must of an accident node with an attribute of have_accident="y"

ProviderData\PeriodOfService\Accidents\Accident (Optional Node, Repeatable)

Node	Data Type	Required	Description
AccidentDate	DateTime	Required	Date of the Accident
DotRecordable	String	Optional	Y or N. Was the accident reportable to the DOT

AccidentPreventable	String	Optional	Y or N. Was the accident preventable
AccidentCity	String	Optional	City the accident occurred in
AccidentState	String	Optional	State the accident occurred in
NumberOfInjuries	Integer	Optional	Number of injuries resulting from the accident
NumberOfFatalities	Integer	Optional	Number of fatalities resulting from the accident
Hazmat	String	Optional	Y or N. Did the accident involve hazardous material
AccidentVehicleType	String	Optional	Type of vehicle the subject was driving. Please see the appendix for a list of truck types
AccidentDescription	String	Optional	Description of the accident

Example

For an example XML file, please click here

Considerations

Please note that you must send all accident data for a subject that you would like to have recorded each time you send a subject. If you send 4 accidents in the initial post of a subject, then follow up with two accidents, only two will be shown in Xchange.

We identify the company in our system using the CompanyId field. Each company in our system has a unique ID (732, 10281, etc.). The sender would need to store these values for each company when they send them over.

You can fill in however few or many of the fields as you want, so long as the required fields are met.

POST Response

You will always receive a POST response from Tenstreet, regardless if the attempted post was accepted or rejected, or if nothing occurred during the post. Please review the following table for a description of the XML and nodes that will be sent back.

TenstreetResponse

Node	Data Type	Description
Status	String	ACCEPTED or REJECTED. The description node will contain more information regarding this message
Description	String	Description of what happened
Version	Float	Version of the Tenstreet API that is responding
SourceIpAddress	String	IP Address the original POST request came from
CompanyPostedToId	Integer	Internal ID that the information was posted to
CompanyPostedToName	String	Company name that the information was posted to
DateTime	DateTime	Date and time the response was sent, in CST
Mode	String	Dev or Prod, based on the system that is responding
DriverName	String	Name of the subject that information was posted about

Of these fields, the two that are absolutely required are Status and Description. The rest are optional.

1. Status - ACCEPTED or REJECTED
2. Description - This can say anything, and is visible in the user interface if the status is Rejected (so that a user can take action). Some of our customers have listeners that require certain fields to be set and have validation routines that run, echoing responses in the description upon failure. We show these to the user to remind them to populate certain fields.

Example

For a sample XML file, please click here

Transmitting Data

Standard HTTPS POST

We've made an attempt to make the POST/response process as straightforward as possible. There are two types of data transmitting we accept. The standard HTTP POST and SOAP (Web Service) call.

Dev URL: https://devdashboard.tenstreet.com/post/
Production URL: https://dashboard.tenstreet.com/post/

We will provide your CompanyId to you, along with a ClientId and Password. POST the data as an XML string to us with text/xml headers (not urlencoded or with a POST variable). In procedural PHP, it would look something like this:

```
$post_address = 'https://devdashboard.tenstreet.com/post/';
$ch = curl_init();

curl_setopt($ch, CURLOPT_URL, $post_address);
curl_setopt($ch, CURLOPT_VERBOSE, 1);
curl_setopt($ch, CURLOPT_RETURNTRANSFER,1); // return into a variable
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: text/xml; charset=utf- 8'));
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER,  FALSE);
curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);
curl_setopt ($ch, CURLOPT_POSTFIELDS, $xml_data); // add POST fields

$response_xml = curl_exec($ch); // run the whole process

curl_close($ch); // Always close the connection

echo $response_xml; // $response_xml now contains Tenstreet response.
```
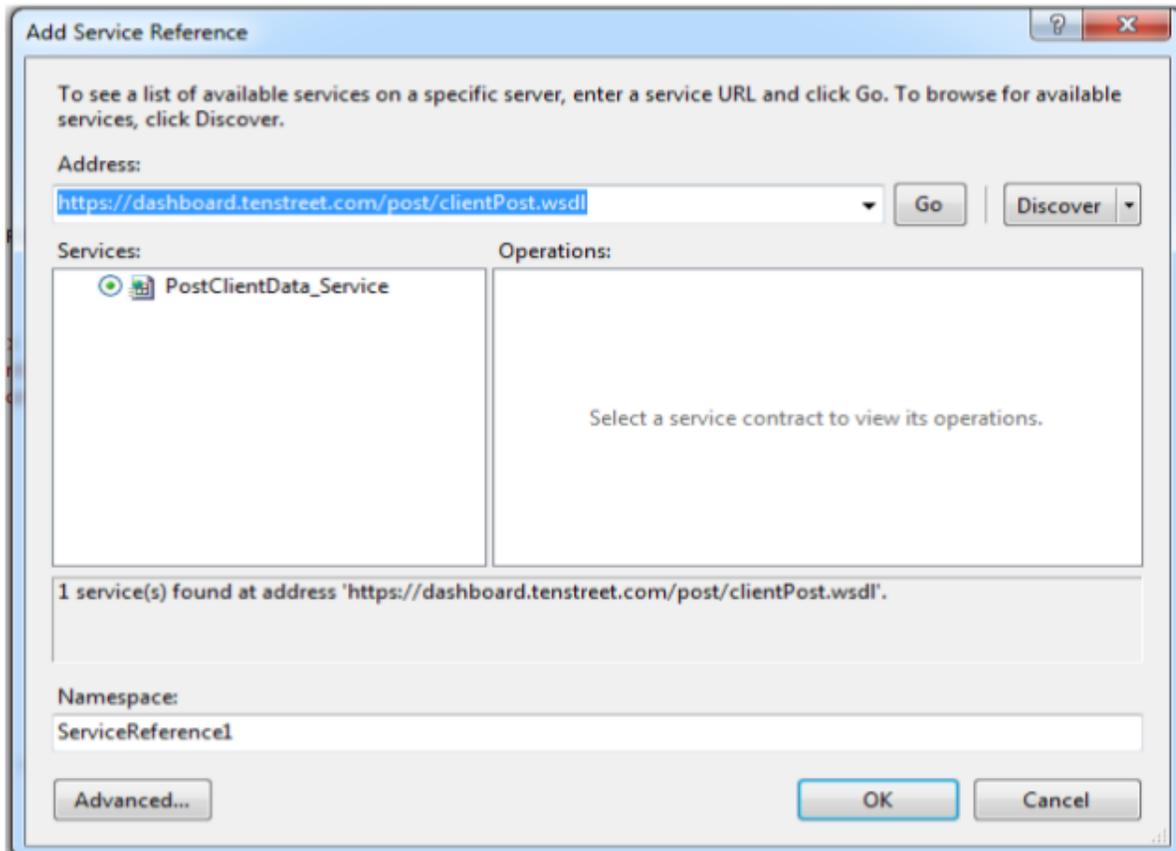
WSDL Consumtion

1. The WSDL for consumption is located here:
   a. Prod: https://dashboard.tenstreet.com/post/clientPost.wsdl
   b. Dev: https://devdashboard.tenstreet.com/post/clientPost.wsdl

2. From Visual Studio (just taking a guess this is what IDE you are using), right-click on 'References'

3. Select 'Add Service Reference'

4. In the 'Address' box enter the WSDL location above and click 'Go':

5. Rename your 'Namespace' for your service reference, and then click 'OK'

6. Once the service has been loaded, calling the service and using the methods looks as follows:
   TenstreetPostService.ClientPost_PortClient client = new
   TenstreetPostService.ClientPost_PortClient();

   var xml = "XML from Appendix A Here"; var postResult = client.PostClientData(xml, **client_id**, "**Password**", "**service**");

The main points of interest are the first and last line. The first line is creating the web service client, and the last line is calling the generic 'PostClientData' method. Please note that VS will show you the arguments for this method, but they are 'xml', 'client_id', 'password', 'service'

The **client_id** is an integer Tenstreet will assign to you as soon as we are ready to do testing.

Password will be assigned to you by Tenstreet as well, and will serve as authentication and identification between our 2 systems.

Service will also be given to you by Tenstreet and will be a string.

[Appendix](#)

Types

    a. Truck Types
- i. Tanker
- ii. Bus
- iii. Cabover Tractor
- iv. Class B Vehicle
- v. Conventional Tractor
- vi. Tractor-Trailer
- vii. Intermodal
- viii. Day Cab
- ix. Day Cab Cabover
- x. Day Cab Conventional
- xi. Dump Truck
- xii. LC Truck
- xiii. Straight Truck
- xiv. Yard Horse
- xv. Other

    b. Trailer Types
- i. Flatbed
- ii. Van
- iii. Container
- iv. Single Trailer
- v. Doubles
- vi. Triples
- vii. Liftgate
- viii. Reefer Trailer
- ix. Tank Trailer
- x. Auto Transporter
- xi. Other