

Sending Application Data to Tenstreet

API Guide

Contents

Introduction	1
Agreements and Acknowledgements	2
Understanding the API	2
Debugging	2
Logging	2
Data Accuracy	2
Support Requests	2
Other Items	3
Authentication to the Tenstreet API	4
Example	4
Considerations	4
Overview	5
POST Request	5
Premium Features	8
Example	8
Considerations	9
POST Response	9
Example	10
Considerations	10
Transmitting Data	11
Standard HTTPS POST	11
WSDL Consumption	12

Introduction

Our advanced API includes some premium features, including sending documents with your application data, and using custom questions for routing, and tagging. Setting these features up will take custom development and coordination between Tenstreet and you. For use of these features, Tenstreet charges an integration fee. Please reach out to your account manager, or integrations@tenstreet.com for more details.

In order to send data to Tenstreet programmatically, Tenstreet provides an XML POST listener and a Web Service (WSDL) you may consume (pick one).

When HTTP POSTing, you POST with a Content-Type of text/xml and a charset of UTF-8 in the header and does not come over as a url-encoded field. We take whatever information is sent over and put it into our system. If you do not have information for a field that we have listed in our specification, leave the field out entirely.

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 send data to 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 is a valid Enterprise Company, 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 therefore, 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 IP Addresses (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 in an email (PII is defined as the last name with any of the

following: SSN, DOB, or license number). Just replace that with xxx-xx-1234 in the file before you send it. Or delete it completely, as these pieces of info are 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.

Other Items

In building this integration, you agree to not attempt to reverse engineer any portions of our application process, including our side of the interface or any portion of the IntelliApp process. The purpose of the API is to enable you to send basic application data and lead form data to Tenstreet. It is not meant to enable you to create a more complete application (as you'd find on Tenstreet's IntelliApp) and then send all of the data to us. The API does not support this and it is not our intent for its use.

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. The ClientId identifies the sender uniquely and is completely unrelated to the CompanyId(s) you are sending your information to.
Password	String	Required	Provided by Tenstreet. This is a password generated specifically for authenticating to the Tenstreet API. It will be used for all API services, but nowhere else in the system.
Service	String	Required	The service you are requesting. Tenstreet will provide the appropriate value for this field. For sending application data to Tenstreet, this value is: subject_upload

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.

When developing at the start, you will POST to our development environment using CompanyId 15 (our test company in development set aside for this purpose). When your POSTs are successful (Status of Accepted), we will return HTML in an element called DisplayHTML. *This is how you know your XML is being built and formatted correctly, as this is **exactly** how the customer will see your information. It is your responsibility to view the DisplayHTML response XML element and ensure that the information you send to us is formatted the way you want it to be, including accuracy and completeness.*

TenstreetData

This is standard information that is sent with the request:

Node	Data Type	Required	Description
Mode	String	Required	DEV or PROD. Informational only, confirms the system that the data came from
Source	String	Required	Provided by Tenstreet. Indicates the source of the application, which is used in many places in Dashboard and is how the customer will see you. If you are a job board, you will have a unique Source that identifies you. In some rare cases, you may have more than one Source (a company who has more than one business or job board, for example, might have a Source for each unique job board).
CompanyId	Integer	Required	Provided by Tenstreet. Your internal Company ID, used to route your info to the correct Tenstreet customer Example: 15
Company	String	Optional	Name of the Company the data came from. Informational Only and helpful for troubleshooting, especially when the CompanyId provided is incorrect. Example: My Company Name, LLC
DriverId	Integer or String	Optional	An identifier in your system for a subject, such as a unique ID.

PersonalData

This section contains demographic info on the candidate

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 (Optional)

Node	Data Type	Required	Description
CountryCode	String	Optional	Two letter code for subject's country of residence. Use standard country codes from USPS. United States is US, Canada is CA.
Municipality	String	Optional	Subject's municipality of residence. Also called City or Town
Region	String	Optional	Subject's region of residence. Also called State or Province
PostalCode	String or Integer	Optional	Subject's postal code. Also called Zip Code or Post Code
Address1	String	Optional	Subject's primary address. Usually a number followed by a street name. e.g., 123 Test Road
Address2	String	Optional	Subject's secondary address. Usually an apartment number or division assignment number.

ApplicationData

This is data from your application. Not all of these fields will be filled in every time and depending on your application setup, some sections may not appear at all. If you do not have information for a field or section, do not even include it in the XML. Do not provide empty fields or sections.

TenstreetData\ApplicationData

Node	Data Type	Required	Description
AppReferrer	String	Optional	<p>Referrer string for where the application came from. The Source of the lead form answers the question “What form was completed?” while the Referrer answers the question “Where did the person who filled out that form come from?” You can enter almost any string into this field (up to 100 non-multibyte characters). The Referrer is visible on both reports and on the lead you provide.</p> <p>Possible uses of the Referrer include: 1) indicating the specific lead page a candidate completed, 2) tracking the google campaign PPC that the candidate used to arrive at your Source form, 3) the web address that hosts the form if you have multiple sites for SEO purposes. Basically, you should use Referrer to send information that you’d want to report on, whatever that might be.</p>

TenstreetData\ApplicationData\DisplayFields\DisplayField (Optional, Repeatable)

DisplayFields are custom fields that do not fit elsewhere in our API. Everyone has custom questions that they ask that are a little different than the way someone else asks the question (and more generally than you’d ask on a full application), so this is your opportunity to put the questions and answers here. These can be literally anything and we will record the question and answer (DisplayPrompt and DisplayValue respectively). These questions and answers are visible to the system users in the HTML we render for your lead, but are not actually stored in the database.

Node	Data Type	Required	Description
DisplayPrompt	String	Required	The question you would like to record
DisplayValue	String	Required	The answer you would like to record

TenstreetData\ApplicationData\Licenses\License (Optional, Repeatable)

License information goes here if you have more detailed info. If you do not have a value for one of these fields, do not include the element. If you don’t have license info at all, don’t include the Licenses element at all. If you have more than one License, you should indicate which one is the CurrentLicense.

Node	Data Type	Required	Description
CurrentLicense	String	Optional	Y or N. Is this the subject’s current license.
LicenseNumber	String	Required	Number of the license

ExpirationDate	DateTime	Optional	When the license expires. Format is YYYY-MM-DD.
Region	String	Required	State or Province that issued the license.
CountryCode	String	Optional	Two letter code for the country that issued the license.
CommercialDriversLicense	String	Optional	Y or N. Is this license a Commercial Drivers License (CDL).
LicenseClass	String	Optional	License Class. Valid values are "Class A", "Class B", "Class C", "Class D"

TenstreetData\ApplicationData\Licenses\License\Endorsements (Optional)

Node	Data Type	Required	Description
Endorsement	String	Optional	Name of the endorsement. These are the valid endorsements you may pass: hazmat xendorsement tanker doublestriples other

Premium Features

TenstreetData\ApplicationData\CustomQuestions\CustomQuestion (Optional)

Custom question can be used for custom routing of applications (answer must correspond with list provided by Tenstreet).

Node	Data Type	Required	Description
QuestionId	String	Required	Question ID/Name, provided by Tenstreet
Question	String	Required	Wording of Question
Answer	String	Required	Answer to the question. If used for custom routing, must use specific answers provided by Tenstreet.

Example

For an example XML file, [please click here](#)

Considerations

We identify the company in our system (Tenstreet's Customer) 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 sending them over.

You can fill in however few or many of the fields as you want, so long as the required fields are met. Even with the pared down sample I'm sending over, there are more fields than will be used. If there are questions asked that don't fit readily into our database, send them as DisplayFields. DisplayFields are fields that you want to be visible to the user looking at your lead but that are specific to your site and not ours, so we don't have a way to insert them into our standard database tables. So in our attached example, you'd put "Are you at least 21 years old?" into the DisplayPrompt and put the answer into the DisplayValue.

The <Source> of all of your leads would be something we work together on (but would reflect your job board name). The "referrer" (ApplicationData->AppReferrer) can be anything you want it to be for reporting purposes to indicate what position, link, campaign, etc. it came from, and is used for reporting later.

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.

You are responsible for monitoring all rejections (Status of REJECTED) we send back to you and determining the issue.

TenstreetResponse

Node	Data Type	Description
Status	String	ACCEPTED or REJECTED. The description node will contain more information regarding this message. If
Description	String	Description of what happened. If REJECTED, this would indicate why we rejected your information.
Version	Float	Version of the Tenstreet API that is responding
SourceIpAddress	String	The IP address the request came from
CompanyPostedToId	Integer	Tenstreet company id that the data was posted to
ApplicationId	Integer	Unique identifier associated with the application
DateTime	DateTime	Date and Time the response was sent
Mode	String	DEV or PROD. The mode of the system the response was sent from

DriverName	String	Name of the driver who's information was accepted
------------	--------	---

Example

For an example XML file, [please click here](#)

Considerations

When posting to our demo system, we will include a node called DisplayHTML, which includes the HTML and CSS of the posted app as you will see it in the dashboard. Please review this HTML to ensure the data is appearing as you want it to. **You will not receive this node when posting to the production environment.**

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. These are 1) standard HTTP POST, and 2) SOAP (Web Service) call.

Dev URL: <https://devdashboard.tenstreet.com/post/> (the trailing slash is required!)

Production URL: <https://dashboard.tenstreet.com/post/> (the trailing slash is required!)

We will provide the customer's CompanyId to you, along with your ClientId and Password credentials. 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

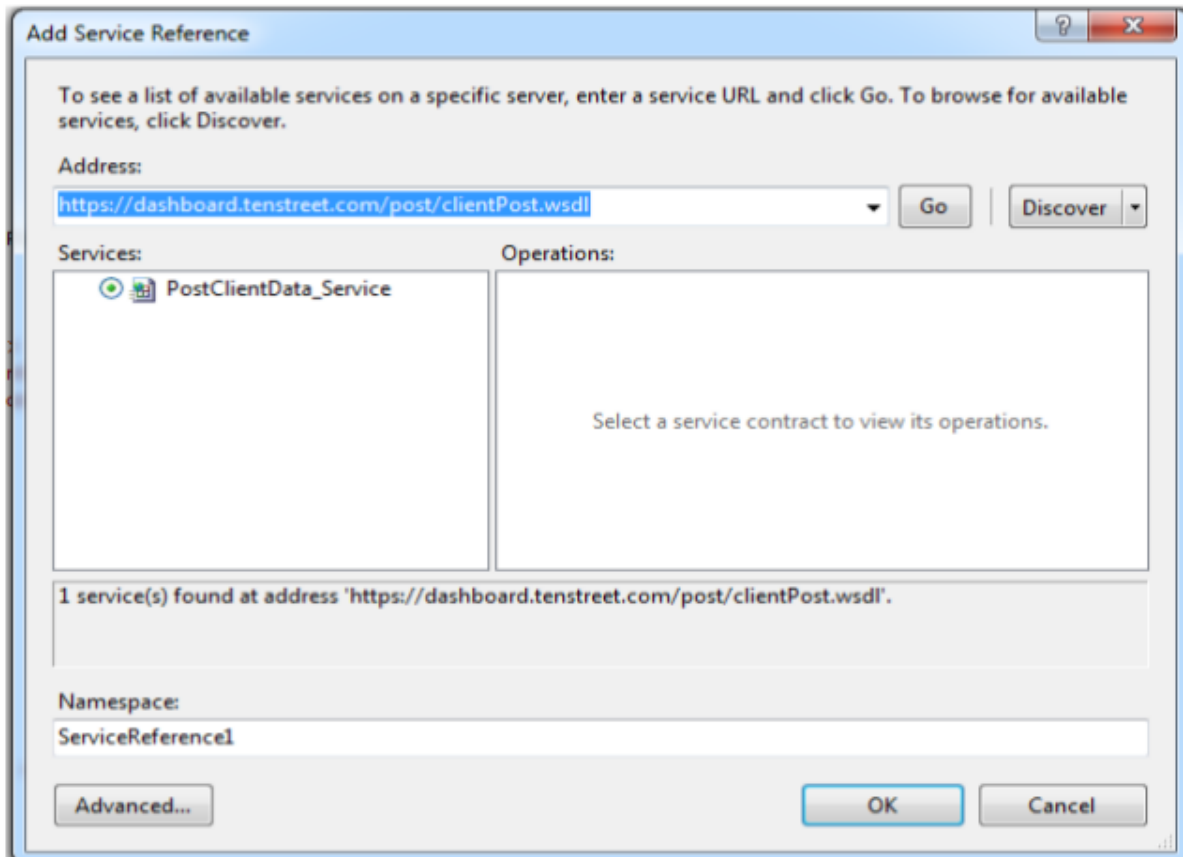
$response_xml = curl_exec($ch); // run the whole process

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

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

WSDL Consumption

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. We'll look at an example using Visual Studio. 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.