UBL Web-Service

1. Summary

This document describes a how UBL documents may be provided to the Trefi system.

Universal Business Language (UBL) is a standard defined in https://www.oasis-open.org/committees/. Further details can be found in the sepecfic UBL definition directories http://docs.oasis-open.org/ubl/os-UBL-2.0/UBL-2.0.html. Trefi at present has been tested using UBL 2.0 documents.

Support may be requested from support@trefi.com or by phone. See http://trefi.com/contact/ for the phone numbers.

2. Rest webservice

In order to supply data to the webservice a POST must be made to

A POST request containing an UBL 2.0 Invoice object can be send to the Trefi REST webservice.

The post URL extension for an integration partner must be:

/api/postubl/48/<NIN>/<NINcustomer>

The post URL extension for a customer must be:

/api/postubl/<comptp>/<NIN>

Where <NIN> is to be replaced with of the company posting the file and the <NINcustomer> is to be replaced with the NIN of the sender of the UBL message and <comptp> is the type of customer, which may be obtained from support.

The NIN is the combination of the country code and the identifier used in the country of the company. The identifier to be used can be found in https://secure.capitool.com/signup/nincodes/. Examples:

- The Netherlands: NL+chamber of commerce number

- Peru: PE+RUC number

Users of the webservide are authenticated using Basic Authentication and the IP from where the information is submitted.

3. Testing

In order to perform testing of the service a username and password for the acceptance testing environment may be requsted from support.

Testing of the service can be done using the following url:

https://acceptance.capitool.com/api/postubl/33/<NIN>

Testing tool

A free testing tool *SoapUI* that can be utilised for webservice testing can be downloaded on: https://www.soapui.org/

After installing the software click the REST button and click oke.

Fill in the following:

- Method = POST

- Endpoint = https://acceptance.capitool.com

- Resource = /api/postubl/33/<NIN>

- Media Type = text/xml

- Authorisation = Basic

- Username = As received from support

- Password = As received from support

- Checkbox preemptive = Authenticate Pre-emtively

- In the attachement tab, add the attachement

Than click the green play button on the screen.

The screen looks like this:
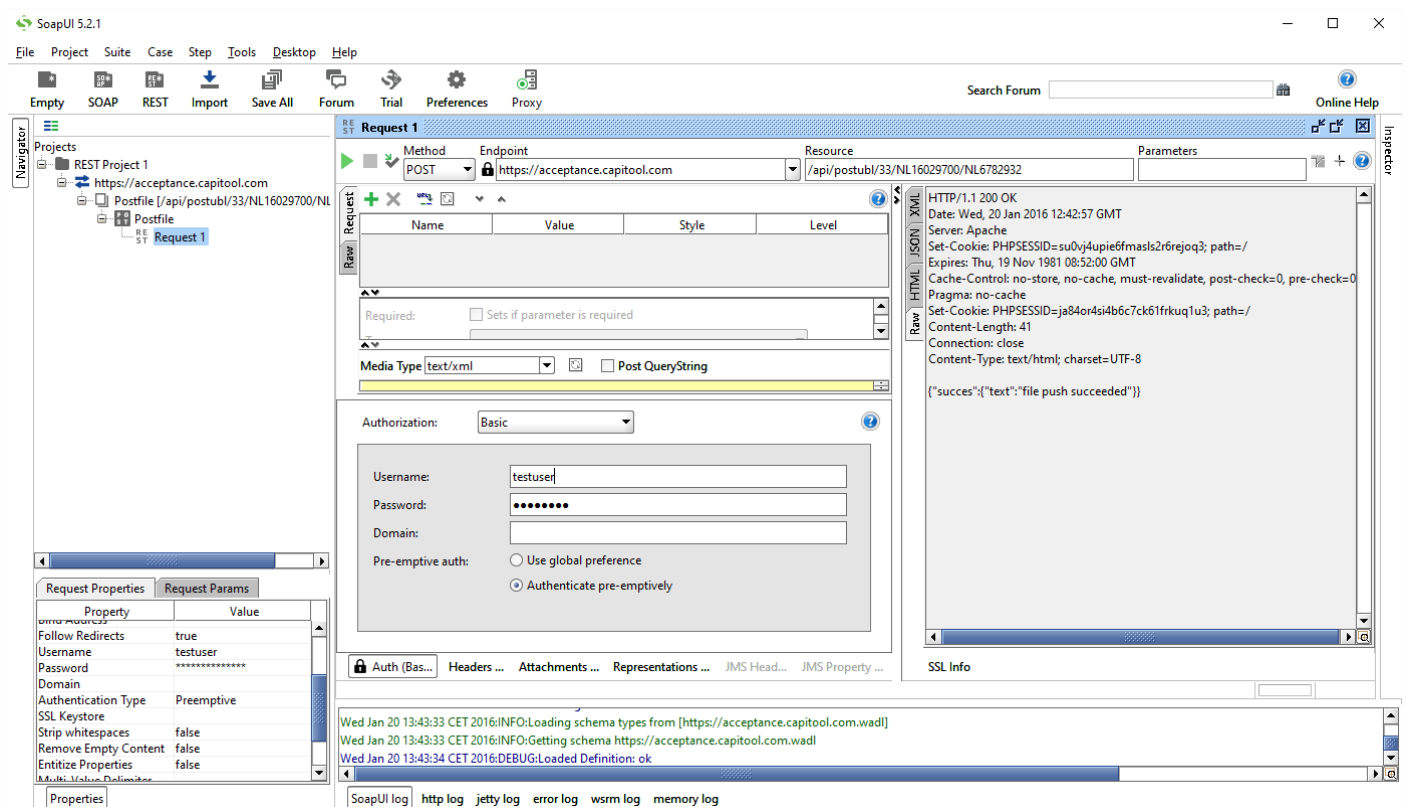
On the right may be seen the exact structure fo the file that is to be submitted

Response succesful

The webservice responds with a JSON message that looks like this.

{"postubl":{"success":"0","text":"message"}}

Indicating the function, the succes 0 means no succes and 1 succes and message indicating the resut.

If the post was received succesfully if will respond with: succes – File push succeeded

or in json

```
{"postubl":{,"success":"1","text":"file push succeeded"}}
```

The following errors may be returned:

Error message	Solution
Incorrect login	Check username and password
Administrator and or lender not defined	Request support to check contractant identifier
Contractant not found	Request support to check contractant identifier
Incorrect filetype on administrator.	Request support to check filetype
Technical error	Request support to resolve
Post does not have content	Make sure the post has content
No UBL in content	Make sure that the content of the post contains UBL

Correct processing

After receipt of the file, Trefi will process the received UBL asynchronous in batches every minute. The customer can view in his Trefi logon whether the UBL was correctly processed.

4. Productive use

In order to start productive use a new username password must be requested.

Also the IP address of the source must be supplied. The IP address is supplied by the ISP from where the data is submitted and can be found using tools like whatismyip.com from the server the UBL is submitted from. Trefi webservices only accept traffic from registered IP addresses.

Trefi can also issue a SSL client certificate to submit the UBL. Request support if this is the preferred method.

The URL used to submit the data for productive use is:

https://secure.capitool.com/api/postubl

5. Historic files

To be able to make better risk analysis Trefi requests to submit as much as possible historic documents starting from the most recent history. A payment status indicator is desired.