TrustPay Notifier doc

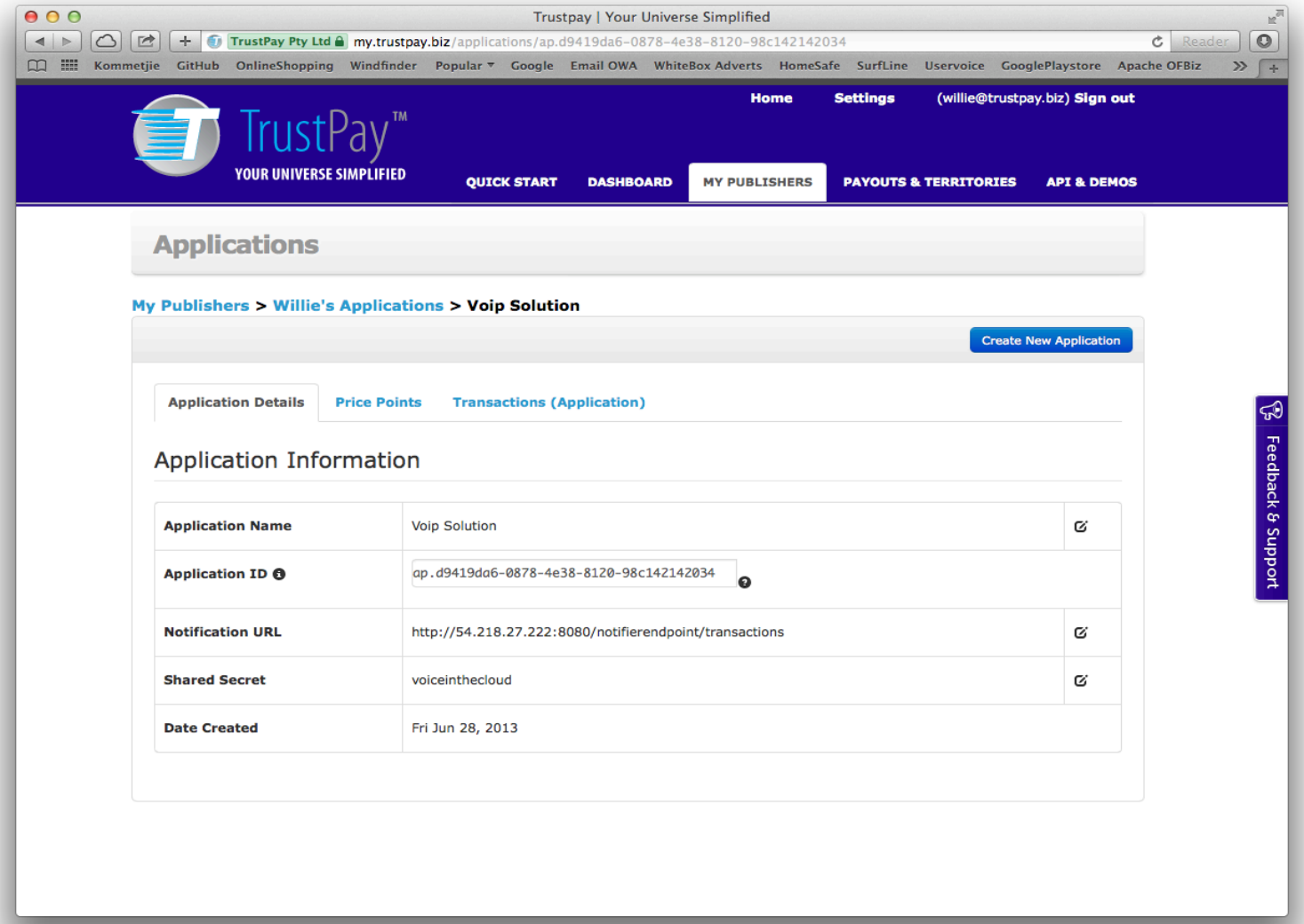
Version 1.2

2014-07-16

Trust Pay silent Notification description:

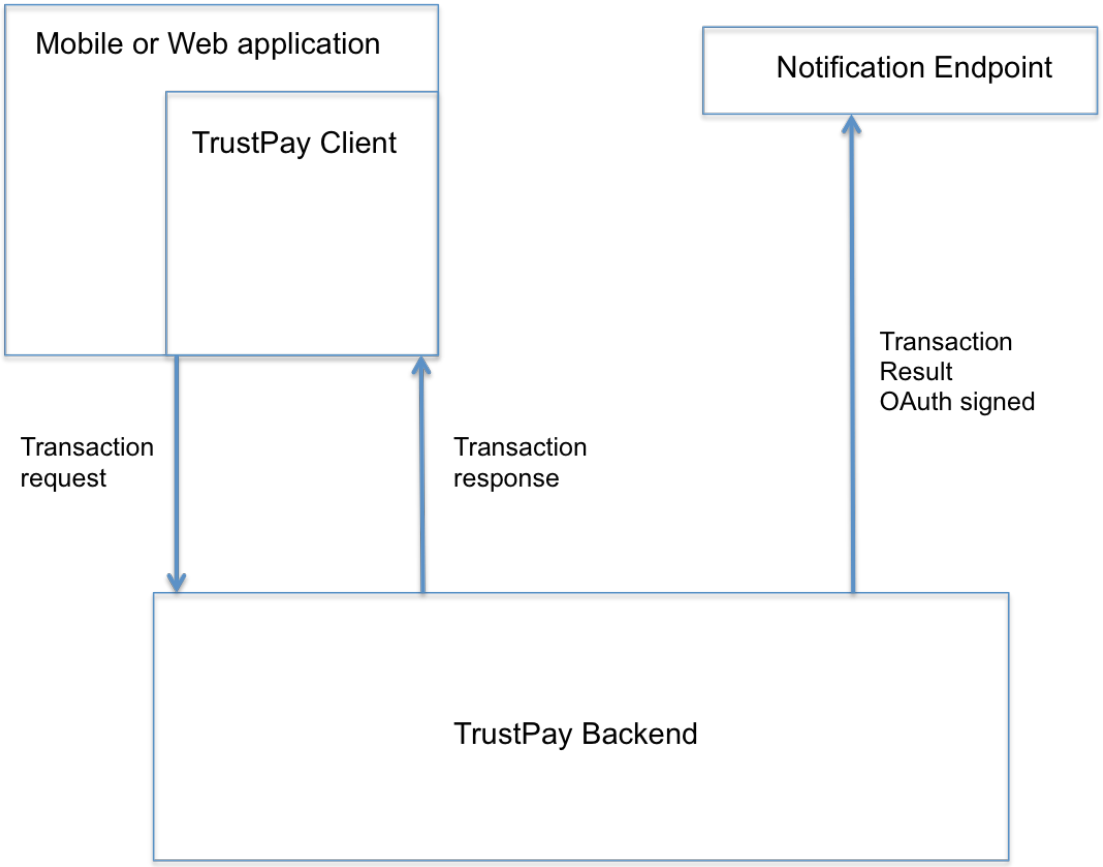
Upon completion of all transactions, we enable developers to receive a silent, secure notification thereof at an endpoint of their choice.

When a developer registers a new application on https://my.trustpay.biz , the following information needs to be entered to enable the notification process:



The **Notification URL** is a HTTP endpoint where the developer wants to receive notifications.
The **Shared Secret** is a secret with which the notification will be signed utilizing the OAuth open protocol for secure authorization.

The process flow for a transaction, including the notification is as follows:



Please not the the notification url **MUST BE ON EITHER PORT 80 OR PORT 443** as we have firewall rules guarding outbound traffic. If any other port is required, please contact support@trustpay.biz with a port request.

An example of the notification that gets sent to the endpoint is:

http://www.notificationurl.com/notification?amount=5.0&
application_id=ap.631c6b3f-7abc-4e0e-b134-
16a4617e661c&consumermessage=&currency=ZAR&description=KwaitoGospel
11&istest=false&method=CARRIER+BILLING&
oauth_consumer_key=ap.631c6b3f-7abc-4e0e-b134-
16a4617e661c&oauth_nonce=7450818846975794560&oauth_signature=geLY
gBzbg9cE%2F%2BIh13IQgxIcd3M%3D&oauth_signature_method=HMAC-
SHA1oauth_timestamp=1383121399&oauth_version=1.0&status=SUCCESS&tp_

transaction_id=TP1377252724247&transaction_id=dce6bd93b61e9a821ecd476673197e8c&transaction_time=2013-11-12T06%3A33%3A37Z&user_id=27138423789

The parameters are as follows:

amount : the amount that the transaction was for.
application_id : The application id as generetaed by TrustPay upon application registration.
currency : the currency that the transaction took place in.
consumermessage : A message for the user if the transaction failed, the developer can choose to relay the message to the user or to ignore the message.
description : The description for the transaction, created by the developer and passed into the TrustPay client.
Istest : Indicates if this is a LIVE or a TEST transaction. Product should only be released if the transaction is a LIVE transaction.
method : The payment method that was used to process the transaction.
Status: Either SUCCESS or FAILED
transaction_id : The developer's transaction id that gets passed into the TrustPay client.
tp_transaction_id : The transaction id that TustPay creates and assigns to the transaction.
transaction_time : the server date and time that the transaction result was received. This will be in GMT.
user_id : The user id that gets passed into the TrustPay client by the developer.
o**auth**_consumer_key :the application's vendor_id as created by TrustPay on my.trustpay.biz when the application gets registered.
o**auth**_signature : signature gets generated via the Shared Secret using the OAuth methology.
o**auth**_nonce: Part of OAuth protocol
o**auth**_signature_method: Part of OAuth protocol
o**auth**_timestamp: Part of OAuth protocol
o**auth**_version: Part of OAuth protocol

It is up to the developer then to validate the signature and accept or reject the notification.

A detailed definition of the OAuth protocol can be found at :
http://tools.ietf.org/html/rfc5849

A open source OAuth java project can be found at:

https://code.google.com/p/oauth-signpost/

An example OAuth verification java based project can be cloned from:
git@github.com:trustpay/TrustPay_OAuth_Verification.git
This project was developed in Netbeans 7.4 using Tomcat 7 as the servlet container.

Changes

Date	Version	Changes
2013-11-21	1.0	Creation
2013-12-10	1.1	Changed OAuth params to URL and retry strategy.
2014-07-16	1.2	Added istest to URL parameters