Pay Your Way (PYW) – Implementation Guide

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Introduction

Pay Your Way (PYW) provides a payment facility for any online purchase transaction. It provides an instant credit card apply & use facility along with using various other credit cards. PYW also provides payment facility using the *Shop Your Way (SYW)* points.

Installation

PYW is currently available for **ReactJS** & **vanilla Javascript** based web applications.

1. ReactJS

He telluride-pyw React component can be installed in your application using the below npm command,

```
npm install --save <file_path>/telluride-pyw-1.1.1.tgz
```

Note:

<file_path> (optional), if telluride-pyw-1.1.1.tgz file is present in the same location where
your application's package.json file is kept then you can directly mention the file name and for
different location you need to provide full qualified path.

Import telluride-pyw component in the appropriate component of your React application.

```
import { Pyw, Refid, Items, Item, updateTotalDue, updateReturnURL} from 'telluride-pyw';
```

For rendering the PYW UI in your application, add the below code snippet at the appropriate level in your code. Please refer *Fields & Attributes Definition* section for more details.

Once the PYW component is added into your application it looks like below,

Pay with SHOP YOUR WAY Unlock your rewards, your way. Shop Your Way Mastercard® is the best way to shop now and earn rewards. Powered by Shop Your Way Pay with Shop Your Way

2. Vanilla Java-Script

Implement the PYW using plain Java-script by adding the below <div> tag code snippet at the appropriate level in the html file.

```
<input type="hidden" id="refid" value="<encrypted value of client id~~access token~~reques</pre>
torId~~timestamp~~transactionId~~userId>" />
  <input type="hidden" id="returnUrl" value="<callback url to redirect the control after paym</pre>
ent is complete>" />
  <input type="hidden" id="totalDue" value="<total due amount to be paid>" />
  <input type="hidden" id="merchant" value="<client_id value used in building refid e.g. EXT_</pre>
RAISE QA>" />
  <div class="widget">
        Unlock your rewards, your way
     <div class="widget_header">
        <h4 class="flex">
           <span class="mr-8">Pay with</span>
           <!-- for Production environment, change the below img src value to https://pywweb.
           <img src="https://pywweb.uat.telluride.shopyourway.com/pyw_library/images/SYW_logo_</pre>
black.svg" alt="Shop Your Way" />
     </div>
     <div class="widget__body">
        <div class="description">
           The best way to shop now, pay over time, and earn rewards. 
              <a >Learn more</a>
<!-- use "preparePaymentParentWin" function instead of "preparePayment" with the same set of p</pre>
        <button type="submit" class="btn btn-primary mt-16 mb-16" onclick="preparePayment(</pre>
            document.getElementById('refid').value,
            document.getElementById('totalDue').value,
            document.getElementById('returnUrl').value,
            document.getElementById('merchant').value)">
          <h4><strong>Pay with Shop Your Way</strong></h4>
        <div class="widget__footer">
```

Note:

Use below javascript function "preparePaymentParentWin" instead of "preparePayment" if PYW needs to be opened in the same window on click of "Pay with Shop Your Way" button.

There are hidden html elements for capturing refid, returnURL, totalDue and merchant which are required fields for PYW UI to render using above tags. Please refer <u>Fields & Attributes Definition</u> section for more details.

• Link CSS: please add below css file in your html to render the PYW UI. (below link is for UAT environment)

```
<link href="https://pywweb.uat.telluride.shopyourway.com/pyw_library/styles/pywmain.css" rel="
stylesheet">
```

For production – change CSS href to https://pywweb.telluride.shopyourway.com/pyw library/styles/pywmain.css

 Add script tag: please add below javascript in your html for the PYW functioning. (below link is for UAT environment) For production – change script src to https://pywweb.telluride.shopyourway.com/pyw library/scripts/pywscript.js

Fields & Attributes Definition

Pyw - root element for rendering the PYW UI

merchant - (mandatory) attribute of <Pyw> element. Value of client_id attribute assigned to each Client during the onboarding process and the same is used in building the refid.

totalDue - (conditional) attribute of <Pyw> element. Total amount to be paid in USD. If <Items> element is present then totalDue can be ignored.

returnUrl - (mandatory) attribute of <Pyw> element. Specify a callback url to redirect the control after payment is complete. It can be a reference path w.r.t. existing client domain (e.g. /checkout/paymentsummary) or a complete http(s) url (e.g. https://www.client-domain.com/checkout/paymentsummary).

Items – (optional) child element for <Pyw> element. To be added if items need to be shared with PYW to avail any item specific SYW offers or for displaying the item details in the PYW screens.

Item - (mandatory) child element for <Items> element. Capture item details being purchased.

id - (mandatory) attribute of <Item> element. Id of item being purchased.

name - (mandatory) attribute of <Item> element. Name of item being purchased.

imageUrl - (optional) attribute of <Item> element. Logo/image of item being purchased.

qty - (optional) attribute of <Item> element, default "1". Quantity of item being purchased.

price - (mandatory) attribute of <Item> element. Unit price of item being purchased.

unit - (optional) attribute of <Item> element, default is "usd". Currency unit for item price.

Refid – (mandatory) child element for <Pyw> element. It is the encrypted value of the following concatenated attributes separated by a delimiter as ~~

 $\label{limit} client_id \sim access_token \sim requestor Id \sim timestamp \sim transaction Id \sim user Id$ Where,

- client id assigned to each Client during the onboarding process.
- access_token computed using a secret_key assigned to each Client during the onboarding process (valid for 2 hours after it has been created).
- requestorId assigned to each Client during the onboarding process.
- timestamp long value of the current timestamp
- transactionId unique cart id or transaction id or order id maintained by the client
- userId user's unique id such as user's login id or email address

Note:

- Use AES algorithm to build the encrypted refid value
- Refer <u>Appendix-1</u> to follow the **Client Onboarding process** to get the client_id & secret key.
- Refer <u>Appendix-2</u> to get & use the encryption key required to generate the **refid**.

updateTotalDue — (optional) function to be called <u>on any element</u> or <u>from another reactJS function</u> which changes the total due amount to be paid. This function updates the value of the total due to be paid using <pyw> component.

e.g. If there is a text box which is used to change the value of the total due amount then this function updateTotalDue(<updated total due amount>) can be called on this text box element as below,

```
<input name="totalDue" value={totalDue} onChange={(e) => updateTotalDue(<updated total
due amount>)} type="text" />
```

updateReturnURL – (optional) react function to be called on any element or from another reactJS function which changes the Return URL to be redirect once return from pywweb popup. This function updates the value of the return URL that is used for redirection <pyw> component.

e.g. If there is a text box which is used to update the value of the return URL then this function updateReturnURL (<updated Return URL>) can be called on this text box element as below,

```
<input name="returnURL" value={returnUrl} onChange={(e) => updateReturnURL(<updated
Return URL>)} type="text" />
```

API Specifications

1. Create/Add Merchant API

This API can be used to update a few additional details of the existing merchant.

Environment: Available environments are UAT & Production. The details are,

Environment	URL
UAT	https://checkout.uat.telluride.shopyourway.com
Production	https://checkout.telluride.shopyourway.com

Endpoint: POST /tell/api/merchant/v1/create

Headers:

```
    Content-Type: application/json
    Accept: application/json
    channel: ONLINE|MOBILE
    platform: name of the application e.g. PYW|CHECKOUT
    merchantClientId: registered client id on Telluride oAuth service
    refid: client_id~~access_token~~requestorId~~timestamp
    -- Use AES algorithm to build the encrypted refid value using the same secret key received during client onboarding process
```

Note:

- requestorId can be hardcoded to PSYW
- Rest all fields from refid are mandatory

Request structure:

Response structure & attributes' details:

```
a) Success Flow:
    {
          "status": "success"
}

b) Error Flow:
     {
          "status": "error",
          "errors": {
                "code": error code (String)
                "message": error message (String)
          }
     }
}
```

2. Payment Confirmation API

Order payment confirmation API is the handshake API which securely provides the payment details; it can also be used to reverse or cancel the payment.

On successful payment, the PYW returns the control to the client's returnUrl path specified while defining the PYW component by passing a few parameters over the URL such as pywid & pywmsg.

```
    pywid: unique reference id (UUID) for successful PYW payment. This param is not sent if payment is failed/declined i.e. when pywmsg=N
    pywmsg: Y if the payment is successful otherwise N
```

Environment: Available environments are UAT & Production. The details are,

Environment	URL
UAT	https://checkout.uat.telluride.shopyourway.com
Production	https://checkout.telluride.shopyourway.com

```
Endpoint: GET /tell/api/checkout/v1/orderpaymentconfirm
```

Headers:

Response structure & attributes' details:

c) Response when **actionType=READONLY** (request header)

```
{
    "authCode": unique payment authorization code,
    "orderDate": date of order e.g. 09-30-2021 09:02:10,
    "paymentStatus": payment status e.g. CONFIRMED, CANCELLED
    "paymentTotal": payment amount in USD,
    "paymentDetails": [ --> one or many payments are supported
      {
            "id": payment instance id,
            "type": payment type e.g. SYWR, CREDITCARD,
            "amount": payment amount in USD paid using this payment type,
            "status": payment status for this payment type,
            "currency": payment currency,
            "cardLastFour": credit card last 4 digits - if type=CREDITCARD,
            "cardType": credit card type e.g. Visa - if type=CREDITCARD,
   ],
    "additionalInfo": encrypted value of a string concatenated with
   card#~~exp~~cvv~~zipcode
          -- this can be decrypted by the client using the secret key received
          during the client onboarding process.
          -- it's the same key used to encrypt the refid.
          -- use AES algorithm to decrypt the additionalInfo attribute value
}
```

d) Response when actionType=CONFIRM (request header)

```
"authCode": unique payment authorization code,
"orderDate": date of order e.g. 09-30-2021 09:02:10,
"paymentStatus": payment status e.g. CONFIRMED, CANCELLED
"paymentTotal": payment amount in USD,
"paymentDetails": [ --> one or many payments are supported
```

```
"id": payment instance id,
            "type": payment type e.g. SYWR, CREDITCARD,
            "amount": payment amount in USD paid using this payment type,
            "status": payment status for this payment type,
            "currency": payment currency,
            "cardLastFour": credit card last 4 digits - if type=CREDITCARD,
            "cardType": credit card type e.g. Visa - if type=CREDITCARD,
   ],
    "additionalInfo": {
        "address": { -> user's address details
            "addressLine1": "17213 Cole Rd",
            "addressLine2": "",
            "state": "MD",
            "city": "Hagerstown",
            "postalCode": "21740",
            "shcAssociateInd": "N",
            "pinNumber": "93536",
            "zipCodeExtension": ""
   }
}
```

3. Return Payment API

This API can be used to return the full or partial payment for the given payment authcode.

Environment: Available environments are UAT & Production. The details are,

Environment	URL
UAT	https://payment.uat.telluride.shopyourway.com
Production	https://payment.telluride.shopyourway.com

Endpoint: POST /tell/api/payment/v1/return

Headers:

```
    Content-Type: application/json
    Accept: application/json
    channel: ONLINE
    platform: PYW
    merchantClientId: registered client id on oAuth service
    transactionId: Client transaction ID e.g. 10001
    refid: client_id~~access_token~~requestorId~~timestamp~~transactionId~~userId
    Use AES algorithm to build the encrypted refid value using the same secret key received during client onboarding process
```

Note:

```
requestorId - PSYW
```

- > userId can be empty or ignored
- Rest all fields from refid are mandatory

Request structure:

Response structure & attributes' details:

```
a) Success Response
{
    "returnCode": "90128789-34567892",
    "returnDate": datetime on which the payment is returned
    "returnPaymentStatus" : [ - array: one or many returned payment instances here
        "id": payment id which is returned,
        "type": payment type e.g. SYWR|CREDITCARD,
         "amount": payment amount in USD paid using this payment type,
         "currency": payment currency,
         "cardLastFour": credit card last 4 digits - Only if type=CREDITCARD,
         "cardType": credit card type e.g. Visa - Only if type=CREDITCARD
   "status": "success"
}
b) Error Response
   "status": "error"
   "errors": {
          "code": error code (String)
          "message": error message (String)
   }
```

Appendix

- Client onboarding document (Merchant_Onboarding_v1.5.pdf refer from enclosing zip file)
- 2. Document for building & encrypting the refid (Refid_Encryption_Key_v1.0.pdf refer from enclosing zip file)
- 3. To add a new Public Key / Certificate renewal
 - a. Login to OAuth Portal.
 - If you don't have Password please use the "forgot password" option to reset the password using your client_id/merchant_id & registered email.
 - OAuth Portal URL,
 - UAT: https://oauthweb.uat.telluride.transformco.com/oauthUI/login
 - Prod:-https://oauthweb.telluride.transformco.com/oauthUI/login
 - b. After Login you will see (+) sign next your existing certificate rows. Click the (+) sign to add new Public Key.