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About this guide

Purpose

This document is designed to guide internet merchants through setup and maintenance of Hosted Payment Pages in order to provide their payers a safe and convenient way to make online payments on the merchant’s website. This guide covers the details of setting up a payment page and the transaction details for the payment. For merchant maintenance, please refer to the Cryptpay Merchant Portal-Client User's Guide.

Throughout this guide the term Hosted Payment Pages refers to the complete set of pages and emails that constitute the visible aspects of the payment service. The set consists of: Payment Pages- Data entry and Confirmation page, the Receipt page, and the Receipt emails. In cases where only a single page is being described, it will be made clear that the references are for just that page.

Who Is This Guide For

This Guide can be grouped up into 3 major parts based on the role of the reader. We have identified the roles as Administrator, Reporter and Integration Specialist.

Sections 1 - 4 are targeted for the Administrators. These sections discuss the front end setup needed to be done to successfully set up a Hosted Payment Page and how to continue creating and setting up payment forms.

Section 6 is useful for Reporters. While Administrators have all of the same access as Reporters these sections dive into which reports are available and what tasks they can accomplish.

Sections 7 – 8 are intended for Implementation Specialists, these sections have XML examples, API methods, and implementation options. These sections discuss how communication between Cryptpay and the implementing merchant will work. These sections will help walk the merchant through the payment flow and implementation process.
Introduction

Hosted Payment Pages offers merchants a way to securely accept credit and debit card or ACH payments without capturing or storing card information on their website. The look and feel of the Hosted Payment Pages and the available payment options displayed on the payment pages are configured through an online management interface available to Cryptpay merchants. The Payment Pages can be configured with your company logo as well as custom colors and text to correspond to your existing website. Beyond the basic required fields and optional fields to choose from, you may enhance your pages to display or request additional information about your payers and the payment. Your entire payer experience can be handled in a PCI compliant, easy-to-use interface. The Payment Pages are displayed when a payer is redirected from your website’s shopping cart or order page to the payment service, in order to process their payment.

The Edit/Create Payment Form page is displayed when a user chooses to create or edit a payment form. This page defines the details of the payment pages and how the page functions.

You can further customize the appearance of the payment pages with the Customize Styles page. Pages can be styled to complement the merchant's website design by configuring a color scheme and specifying the logo to be displayed.

The merchant’s server can be set to render entirely the payer receipt through Receipt Redirect URL - see ‘Transaction Rules’ Section to define the URL. Receipt Redirect URL is the page the payer will be redirected to upon completing a payment. However, the merchant may choose to show the default receipt page.

Merchants may add multiple payment forms. This enables a merchant to have multiple payment and payment processing options. In addition, a dedicated ‘master’ template form can be sustained by utilizing the Import/Export feature.
Section 1  Payment Form Creation

User Types and Roles

CustomerAdmin: Can see and change things in the customer portal for any merchants under its root customer entity. Can refund transactions and create/manage HPP forms.

CustomerUser: Can see but not change things in the customer portal for any merchants under its root client entity. This includes running reports and viewing HPP form configurations and transactions.

CustomerDocumentation: Can view only the Documentation tab in the customer portal. We've set this up for a few users who've signed NDAs but have not signed the Merchant Boarding Contract.

Access to Payment Forms

To access the payment forms, go to your Merchant Details page within the Client Merchant Portal. Choose “Payment Forms” from the menu on the right. From the Payment forms page you can create a new form or edit/view an existing form.

Figure 1-1 Client Merchant Portal menu
1. To **add** a new Payment Form, click the “Create New” link in Payment Forms.
2. To **view** the details for the existing form, click on the name. From within the view, you will be given additional options of edit, delete, view transactions, change styles or update header image (links are at the bottom of the page).
3. To **preview** or **use** an existing Payment Form, click on the Url.
4. Click on the URL to access the form as it will look to your users (note there have been no style changes to this example – the colors are the default colors).
Figure 1-4 Existing payment form URL

Figure 1-5 Form Example
Edit/Create Payment Form

Form Information

![Form Information](image)

Figure 1-6

**Form Name** – will only be displayed within the merchant's profile and list of payment forms. It is not displayed on the form.

Form Text Areas

![Form Example](image)

Figure 1-7 Data Entry page formatted text areas

1. **Data Entry Page Title** – This will be at the top of the form in the colored header area.
2. **Data Entry Page Header** – This text will display at the top of the form below the colored header.
3. **Data Entry Page Footer** – this text will display at the bottom of the form just above the submit button.
4. **Confirmation Page Title** – This will be at the top of the confirmation page in the colored header area. If no page title is provided, the Data Entry Page Title will be used instead.

5. **Confirmation Page Header** – This text will display at the top of the confirmation page below the colored header.

6. **Confirmation Page Footer** – This text will display at the bottom of the confirmation page just above the submit button.
7. **Receipt Page Title** – This will be at the top of the receipt page in the colored header area. If no page title is provided, ‘Data Entry Page’ title will be used instead. ¹

8. **Receipt Page Header** – This text will display at the top of the receipt page below the colored header. ¹

9. **Receipt Page Footer** – this text will display at the bottom of the receipt page just above the submit button. ¹

![Figure 1-10 Email settings and formatted text areas](image)

10. **Receipt Email From Address** – this will display as the email address the receipt was sent from. If the recipient clicks reply the reply will go to this email address. ²

11. **Receipt Email Subject** – The subject of the email. ²

12. **Receipt Email Header** – This will appear above the receipt information for the transaction. ²

13. **Receipt Email Footer** – This will appear at the bottom of the email. ²

### Transaction Rules

![Transaction Rules](image)

¹ This will display on receipt if using default receipt page and have not selected to use the **Receipt Redirect URL**.

² This will only be used if **Email Receipt to Payer** is enabled.
Figure 1-11 Transaction Rules

- **Minimum Amount Allowed** and **Maximum Amount Allowed** – These fields are used to set lower and upper limitations, or a range, for the payment amount. To set a fixed amount, set the minimum and maximum to the same value. The Payment Page will not display an amount input field, but simply display the amount of the payment.

  Note: Hosted Payment Pages require that amounts passed in through Pass-In Parameters be within the range specified in the form’s configuration. Only the base payment amount is checked. Add-On fields allow the total payment amount to exceed the amount rules.

- **Company Name** - The name of the merchant. This is limited to 16 characters. **Required.**

- **Transaction Description** – A brief description of the transaction. This is limited to 10 characters. **Required.**

  Note: The combination of the Company Name and the Transaction Description will appear on the payer’s bank statement for the payment. The length of both fields is dictated by NACHA Rules and Guidelines.

- **Receipt Redirect URL** – When this option is selected, Hosted Payment Page will pass the payer back to the merchant’s website using an HTTP redirect instead of displaying the receipt page on the Hosted Payment Page domain. **This is the page the payer will be redirected to upon completing a payment.** To show the default receipt page, leave this field blank. The default receipt page will use the styles given to the form.

- **Collect Primary Email** – This is a necessity if you want to email a receipt to the payer. As an option, the ‘Primary Email’ field may be populated using a pass-in parameter.

- **Email Receipt to Payer** – Check this box to send a payment confirmation email to the payer so they will automatically receive a receipt of their transaction. This field is only available if the Collect Primary Email is checked.
Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Prompt</th>
<th>Type</th>
<th>Required</th>
<th>Default Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Text</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add Field

Figure 1-12 Add a custom field

The ‘Fields’ section allows you to create unique fields for your payment process. These fields can be used to capture additional data from payers or be used as pass-through variables from the merchant’s site for the payment session. All field data is available to the merchant using the API methods.

- **Name** – The name of the field and is associated with the values captured in the field.
- **Prompt** – this is the field label that will display to the user.
- **Type** – determines what kind of data (integer, string, date, etc.) the field can hold, which settings it provides, and so on.
  - **None** – No text box associated with this field and no default value will be stored. Only the caption will display.
  - **Text** – Text box to enter free-form data
  - **Email** – Text box to enter an email address
  - **Phone** – Text box to enter a phone number
  - **Date** – Text box to enter a date or use the date picker
  - **Checkbox** – A yes or no question. **Prompt** serves as the label for the checkbox. Checkbox will default to ‘false’. To change the default, type ‘True’ in Default Value.
  - **Dropdown** – A dropdown box to allow for a selection of prepopulated values.
  - **CheckboxList** – Grouping of yes or no questions. **Prompt** serves as the label for the checkboxlist. Checkbox will default to ‘false’. To change the default, type ‘True’ in Default Value.
  - **AddOn**… AddOn Fields will allow you to make an addition to the passed through amount. This additional add on amount is based on the payer selection within the payment page.

  **Note:** Please note that only one AddOn is allowed per transaction.

- **Required** – Payer must enter a value for this field
• **Default Value** – A default value that will populate the field when the payer views the Payment Form. No default value is available for ‘None’ field type.

**AddOn Fields**

There are 3 types of AddOn Fields which can add to the final amount of the transaction even if a set amount has been passed through:

• **AddOnCheckbox** - A yes or no question that will allow a prepopulated option amount to be added to the final total.

• **AddOnDropdown** - A dropdown box to allow for a selection of prepopulated option values and option amounts to be added to the final total.

• **AddOnCheckboxList** - A grouping of yes or no questions and allow for a selection of prepopulated option values and option amounts to be added to the final total.
How to Define Fields:

1. Click on ‘Add Field’
   a. Enter Name
   b. Enter Prompt
   c. Select the field ‘Type’
   d. Click on ‘Required’ if the field is required
   e. Define a default value for the field if one is desired
2. Use the green up and down arrows next to “Remove” to change the priority of the field placement.
3. Click on ‘Remove’ to delete a field.

Payment Methods
The payment methods available are bank account and credit card. In the admin portal the allowed payment methods are defined for a merchant. In the client portal, the options are to allow any payment method already defined in the admin portal (Figure) or customize the methods in the individual form.

Save the Form
Click ‘Create’ to save a new form, ‘Save’ to save changes or ‘Cancel’ to cancel any changes.

Credit Card Payments

The purpose of this is to allow you to change the look and feel of your Payment Pages. This section describes how to perform basic customizations. Any field that is left empty will use the default style for that setting.

Header image

The link to add/update a header images is at the bottom of the form detail page.
The image should be in .gif, .jpg or .png format. The image is displayed at the following resolutions: 500x100, 400x80, and 250x50 depending on the user's device and window size. Resizing or cropping your logo to accommodate these dimensions is recommended.

To add/update header image:

1. Select the link ‘Update Header Image’ located at the bottom of Payment Form Details page.
2. Use the **Browse** button to locate the image file you wish to use.
3. Enter text in the ‘Alt Text’ field. This text is displayed when hovering over the image in the Payment Pages. It is also read by screen readers.
4. To finish, click the **Update** button.
5. You may also remove any header images by clicking “Delete Header Image”.

---

**Figure 2-2**

**Figure 2-3 Display of logo**
If the upload is successful, you will be returned to the Payment Form Details page. The image will now display when accessing the ‘Update Header Image’ page.

**Figure 2-4 Update header image page**
Customizing the Styles of the page

Change the Colors
You can change the colors of backgrounds and text for the items listed in the Customize Styles page. In the appropriate field, enter the color as a hexadecimal code or as the color name (very common color names can be used, red for example, but colors like vermilion will not be recognized).

For example, enter #ffffff for white and #000000 for black. A selected color may apply to one separate element on a page or multiple elements.

The “Main Text Color” will affect all text on the page unless the other text colors are changed.
Most institutions and merchants have a color scheme available. If your business colors are set in another library you can find conversion tools online to assist in translating colors into hexadecimal values.

Sample Color Values

<table>
<thead>
<tr>
<th>Color Name</th>
<th>Color Code</th>
<th>Color Name</th>
<th>Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>#FF0000</td>
<td>White</td>
<td>#FFFFFF</td>
</tr>
<tr>
<td>Cyan</td>
<td>#00FFFF</td>
<td>Silver</td>
<td>#C0C0C0</td>
</tr>
<tr>
<td>Blue</td>
<td>#0000FF</td>
<td>Gray or Grey</td>
<td>#808080</td>
</tr>
<tr>
<td>DarkBlue</td>
<td>#0000A0</td>
<td>Black</td>
<td>#000000</td>
</tr>
<tr>
<td>LightBlue</td>
<td>#ADD8E6</td>
<td>Orange</td>
<td>#FFA500</td>
</tr>
<tr>
<td>Purple</td>
<td>#800080</td>
<td>Brown</td>
<td>#A52A2A</td>
</tr>
<tr>
<td>Yellow</td>
<td>#FFFF00</td>
<td>Maroon</td>
<td>#800000</td>
</tr>
<tr>
<td>Lime</td>
<td>#00FF00</td>
<td>Green</td>
<td>#008000</td>
</tr>
<tr>
<td>Magenta</td>
<td>#FF00FF</td>
<td>Olive</td>
<td>#808000</td>
</tr>
</tbody>
</table>

Figure 2-6

Font Family and size

You may specify the font family and font size in selected areas of text in the Payment Pages. The font family is a specific typeface that will be applied to the text displayed on the page. In order for a font family to be visible to your form's users it must be installed on their computer. You can specify multiple fonts separated by commas and it is recommended you end with a generic font name (serif, sans-serif, cursive, fantasy, or monospace).

Font size can be designated as “Small”, “Medium”, or “Large”. It may also be specified in:
- pixels, px – one pixel is equal to one dot on the computer screen.
- points, pt – points are traditionally used in print media and one point is equal to 1/72 of an inch.
- percentage, % - is the percentage of 12pt.
- ems, em – is a scalable unit similar to percentage, 1 em = 12pt.

Submit Button/Pay Button

The Submit button displays on the Data Entry page and the Pay button displays on the Confirmation page. The default text is 'Submit' or 'Pay' respectively. The
button text for the submit button may be modified. You may change both for the button color or text color.

![Submit Button Text](#)
Submit Button Text Color
Submit Button Background Color

Figure 2-7

**Other Buttons**
The ‘Other Buttons’ refers to the ‘Change Something’ and ‘Cancel Payment’ buttons on the Confirmation Payment Page and the ‘Close’ and ‘Start Over’ buttons on the Receipts page. The text color or background color of all these buttons may be changed, but not each individually.
Section 3  Admin Form Settings

Edit Payment Form Settings

Allowed payment methods, payment fees, fee disclosure text and ACH authorization text are managed at the Administrator level. Merchant may select the payment methods that are allowed for the payment form, bank account and/or credit cards. Merchant has the option pass through a fee to payers who elect to pay online. Bank account fees are typically referred to as a convenience fee while credit card fees may be referred to as a convenience fee, service fee or a surcharge.

The confirmation page clearly discloses the fixed, flat dollar value or the calculated value of the merchant’s convenience fee separately from other line item details. The fee is included in the total transaction amount prior to authorization by the payer.

Bank Account
Use the checkbox to enable bank account payments.

Collect Fee on Bank Account Transactions – requires a customer to pay a fee associated with processing the payment from a bank account.

Fee Name – Name the fee will be referred to through the payment transaction.
Percentage – Percentage fee based on total amount of the transaction.
Flat Rate – Fixed rate charged to the transaction regardless of amount.
Fee Company Name - The name of the merchant as it will appear on a bank statement for the fee transaction. This is limited to 16 characters, so this may be a short version of the company name. Required.
Fee Transaction Description – A brief description of the fee transaction as it will appear on the bank statement. This is limited to 10 characters. Required.

Note: The combination of the Fee Company Name and the Fee Transaction Description will appear on the payer’s bank statement for the payment. The length of both fields is dictated by NACHA Rules and Guidelines.
**Credit Card**

Use the checkbox to enable credit card payments.

**Card Brands Allowed** – This allows you to choose which credit cards to accept on your site. Use the check boxes to select which card brands will be accepted for payment.

- **All supported** – You may check this if you want all the below brands to be available. Or you may select one or more of the below brands.
  - Visa
  - MasterCard
  - American Express
  - Discover

**Collect Fee on Credit Card Transactions** – requires a customer to pay a fee associated with processing the payment from a credit card.

**Fee Type** – There are 2 types of fee models.
Separate Fee Transaction – a two transaction fee model used for convenience fees and service fees.
Combined Fee Transaction – a one transaction fee model used for surcharges.

Fee Name – Name the fee will be referred to through the payment transaction.
Percentage – Percentage fee based on total amount of the transaction.
Flat Rate – Fixed rate charged to the transaction regardless of amount.

Figure 3-3 Credit card settings and fees
Fee Disclosure

Customize Convenience Fee Disclosure
For participating pre-certified government and education entities, or their third-party agents of the convenience fee program, the cardholders must be notified of the convenience fee at the time of payment. To customize the disclosure, contact your customer support representative. This customization is available through the Cryptpay Admin Portal only.

Customize Surcharge Fee Disclosure
For merchants who choose to apply a surcharge, clear disclosure to the payer must be displayed. To customize the disclosure, contact your customer support representative. This customization is available through the Cryptpay Admin Portal only.

Customize ACH Disclosure
Include NACHA mandated language in the text. To customize the disclosure text, contact your customer support representative. This customization is available through the Cryptpay Admin Portal only.
Section 4 Import/Export Forms

Merchants may import or export existing forms. This is primarily a tool for sharing completed forms or simply saving a copy of an existing form as a backup or a template for future forms. This tool gives the merchant the ability to modify an existing form without risk of losing the original form definition or create a new form using an existing one.

Before you can use import a form, use the “Export” option to export the form first. After exporting the form template, you may import the form to any merchant.

Export
To save a snapshot of a completed form in an xml format, you can export a form and save it.

![Export Payment Form Configuration](image)

Import
To begin, click on the ‘Import Form’ link in Payment Forms.

![Import Payment Forms](image)
Name the new form. Input the form template you wish to import. Use the ‘Browse’ button to find the template file. Select the file the form has been exported to, and then click on the “Import” button. The form will be added to the merchant’s list of forms.
Section 5  Transaction Management

You can view the transactions on particular forms with in a Merchant Please

Note: If you need to have specified users to only access certain forms a new Merchant must be created and a new User needs to be set up.

To view transactions on individuals forms follow the following steps:

1. Log In to the Cryptpay Client Portal
2. Click on the merchant that has the forms you wish to view the transactions on
3. Click on Payment Forms on the right hand side under Other Actions
4. Click on the name of the desired form on the Payment Forms page
5. On the very bottom of this page click on View Transactions

**View Transactions**

Filter your transactions by a date or date range. Click ‘View’ to display the list of transactions. The transaction list includes the transaction date, payer name, amount, and account type.
Download Transactions

Filter your transactions by a date or date range. Click ‘Download’ to export a .csv file of transaction details. The transaction details include the transaction date, payer name, amount, account type, and all additional fields that were added to the form.
Section 6  Reports

Cryptpay reports offer merchants a way to securely review transactional based Credit Card, Debit Card and ACH data processed through Cryptpay.

Credit Card reports provide
- a list of credit card/debit card transactions
- real time authorization information

Note: Cryptpay reporting does not include credit card deposit information. For credit card deposit go to https://www.transactionsummary.com/

ACH reports will include
- ACH Summary,
- Transactions,
- Failures,
- Remittance
- Notice of Change (NOC) information.

Note: Cryptpay reports will show processed ACH payments (or e-check payments) and ACH remittance (or deposit information.)
To access Cryptpay reports, you must first sign on into the merchant portal. The main URL for the merchant portal access is https://portal.cryptpay2.com/. After entering the URL link in your browser.

1. Click on “Log On”
2. enter your assigned user name and password
3. Click the “Log on” button
4. Select the “REPORTS” menu button

From this page you will be able to choose from a variety of reports.

**Available Reports**

- ACH Activity Detail
- ACH Transaction History
- Search By Custom ID
- ACH NOC Detail
- ACH Reconciled Summary
- CC Detail V2
- Payment Form Detail

---

Hosted Payment Page | © 2015 Nelnet Business Solutions
Our view reports begin with what we call the Filter.

**A Filter** is a text box and when populated will provide a way to limit the list of available merchants provided in the Merchant drop down. This helps where a merchant might have 20 locations and wants to find a specific one.

**The Merchant** drop down selects which merchant to run a report on. If the user has access to one merchant, this value is defaulted to their only merchant.

**The Report** field provides the name of the report to run.

**The Start Date** is the start of the date range of transactional data to run the report for.

**The End Date** is the end of the date range of transactional data to run the report for.

**Schedule Type**: Provides two options to search dates by.
- Calendar Date: 12:00am on Start date to 11:59pm on End date.
- Business Date: Cut-off time one day prior to start date to Cut-off time on End date.

*ACH cut off time is 4:00 PM Central standard time.*
Transaction ID: This is visible only as an option from the “ACH Transaction History” Report. It provides a searchable field to filter the report on the transaction ID.

Custom ID: This is visible only as an option from the “Search by Custom ID” Report. It provides a searchable field to filter the report on the merchant’s Customer ID if provided.

**VIEW REPORTS**

![Report Options](image)

Figure 6-4.2 Report Options  View Reports

Select a report to run by clicking on the “Run Report” button, the report will open in a different web browser window or tab.

The blue “i” (ℹ️) provides users additional information on the field to the left of its placement.

**Working with reports**

The report control definitions appear on hover over.

The arrows on the left allow for page navigation through the report.

The drop down showing 100% by default provides a way to zoom in and out.

The Find | Next text field is used to find specific text on the page. It does not search beyond the page which is displayed.

The disk icon with the green arrow exports the data as Excel, PDF, or Word files.

The green arrows in a circle refresh the report.

The printer icon allows you to print the report as is.
The blue text in the report list allow you to drill into the report for more details.

Note: That the report navigation option may not show up on every browser and work best in IE.

**ACH Activity Detail Report**

The ACH Activity Detail report provides transaction details by row and is a traditional data list for ACH charges and refunds. It also identifies detail transactions as they exist in the ACH Transaction History report.

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transaction ID</td>
<td>The Cryptpay Transaction ID</td>
</tr>
<tr>
<td>Date</td>
<td>The date of the transaction</td>
</tr>
<tr>
<td>Activity</td>
<td>The combination of the status and charge/refund fields. Example: Remitted Charge</td>
</tr>
<tr>
<td>Detail Type</td>
<td>The payment type of the transaction. Checking versus Saving account</td>
</tr>
<tr>
<td>Amount</td>
<td>The amount of the transaction in dollars</td>
</tr>
<tr>
<td>Customer Id</td>
<td>The value which uniquely identifies a customer</td>
</tr>
<tr>
<td>Customer Name</td>
<td>The customer's name</td>
</tr>
<tr>
<td>Routing Number</td>
<td>The routing number for the transaction</td>
</tr>
<tr>
<td>Account Number</td>
<td>The asterisk masked bank account number for the transaction</td>
</tr>
<tr>
<td>Custom Id</td>
<td>A value set by the merchant at the time of transaction</td>
</tr>
<tr>
<td>Other Detail</td>
<td>Additional information about the transaction.</td>
</tr>
<tr>
<td>Refund</td>
<td>Based on user access, a link is provided to allow the user to refund a payer’s transaction</td>
</tr>
</tbody>
</table>

Note: In the Cryptpay Portal only full refunds are allowed. Partial refunds are only available to merchants who are making an API call.
**ACH Activity Summary Report**

This report provides records and amounts for ACH charges and Refunds grouped by the day the transactions processed.

You can also identify detail transactions as they exist in the ACH Activity Detail report, this is displayed as a blue link for the counts and dates. This report is cross tabular.

At the top of the report you will see two titles Charges and Refunds. An ACH Charge refers to an ACH payment made by a payer that is pending. Nelnet is in the process of sending the payment to the payers' bank to be cleared and funded. Until the payer’s bank confirms there are available funds in the payers account the ACH payment is considered a pending Charge.

An ACH refund refers to a transaction that was refunded. This means a school received funding for an ACH payment and Nelnet is now withdrawing the funds from the school. An example of a refunded payment might be a payer accidently paid their bill twice and a refund was performed on the second payment.

The last column on the right is titled: “Remittance Amount: The remittance amount is the daily net of charges and refunds to be deposited into the bank school account. The deposit schedule is as follows.
Deposit schedule for Payment Types:

<table>
<thead>
<tr>
<th>Credit Card Payments made before midnight in local time zone</th>
<th>Deposit Day for Visa, MasterCard and Discover Card</th>
<th>American Express deposits take an additional 1 to 2 days later</th>
<th>E-check Deposits</th>
</tr>
</thead>
<tbody>
<tr>
<td>e-check payments made before 4pm CST</td>
<td>Monday</td>
<td>Tuesday</td>
<td>Tuesday</td>
</tr>
<tr>
<td>Thursday</td>
<td>Monday</td>
<td>Wednesday</td>
<td>Thursday</td>
</tr>
<tr>
<td>Friday</td>
<td>Monday</td>
<td>Wednesday</td>
<td>Thursday</td>
</tr>
<tr>
<td>Saturday</td>
<td>Wednesday</td>
<td>Thursday</td>
<td>Friday</td>
</tr>
<tr>
<td>Sunday</td>
<td>Wednesday</td>
<td>Thursday</td>
<td>Monday</td>
</tr>
<tr>
<td>Monday</td>
<td>Wednesday</td>
<td>Thursday</td>
<td>Friday</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Thursday</td>
<td>Friday</td>
<td>Monday</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Friday</td>
<td>Monday</td>
<td>Tuesday</td>
</tr>
</tbody>
</table>

Please be aware ACH payments that have failed can be returned up to 60 days past the payment date.
Figure 6-7  ACH Summary Report

In Figure 6-7 the red arrows indicate dates and payments that result in the remitted/deposited amount listed on 5/17. For example, the payments made on May 14th total $3508.00; we then subtract the e-check Return of $970.00 on May 16th for a Remitted Amount of $2,538.00 on May 17th.

**Column Definition**

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>The date based on the Schedule Type (Business or Calendar Date)</td>
</tr>
<tr>
<td>Charges Received Count Amount</td>
<td>The number of pending charge transactions with the amount based on date.</td>
</tr>
<tr>
<td>Charges Cancelled Count Amount</td>
<td>The number of pending cancelled charge transactions with the amount based on date.</td>
</tr>
<tr>
<td>Charges Failed Count Amount</td>
<td>The number of pending failed charge transactions with the amount based on date.</td>
</tr>
<tr>
<td>Charges Remitted Count Amount</td>
<td>The number of pending remitted charge transactions with the amount based on date.</td>
</tr>
<tr>
<td>Refunds Received Count Amount</td>
<td>The number of pending refund transactions with the amount based on date.</td>
</tr>
<tr>
<td>Refunds Cancelled Count Amount</td>
<td>The number of pending cancelled refund transactions with the amount based on date.</td>
</tr>
<tr>
<td>Refunds Failed Count Amount</td>
<td>The number of pending failed refund transactions with the amount based on date.</td>
</tr>
<tr>
<td>Refunds Remitted Count Amount</td>
<td>The number of pending remitted refund transactions with the amount based on date.</td>
</tr>
</tbody>
</table>
Remitted Amount

The amount pending remittance to the Merchant’s account. There is often at least a day delay before funds are transferred through the reserve.

**ACH Transaction History Report**

This report provides details for a specific transaction. This is a page view for all ACH charges and refunds as they relate to an ACH transaction.

Let’s look at the specifics on this report. The left side shows the Record type. This is identifies if the ACH transaction was a charge, if the charge was returned or not cleared you will see the failed charge right below the attempted ACH payment.

**Column Definition**

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Type</td>
<td>Field for Internal use only</td>
</tr>
<tr>
<td>Customer Id</td>
<td>Customer ID of the record</td>
</tr>
<tr>
<td>Customer Name</td>
<td>Customer name of the record</td>
</tr>
<tr>
<td>Transaction Desc</td>
<td>Additional transaction details</td>
</tr>
<tr>
<td>Received Date</td>
<td>Date transaction was received</td>
</tr>
<tr>
<td>Remitted Date</td>
<td>Date transaction was flagged for remittance</td>
</tr>
<tr>
<td>Company Name</td>
<td>Company name of the record</td>
</tr>
<tr>
<td>Discretionary Data</td>
<td>Company discretionary data of the record</td>
</tr>
<tr>
<td>Additional Info</td>
<td>Description of the Company Entry</td>
</tr>
<tr>
<td>Amount</td>
<td>Amount of the transaction in cents</td>
</tr>
<tr>
<td>Routing Num</td>
<td>Customer routing number used in the transaction</td>
</tr>
<tr>
<td>Account Num</td>
<td>Customer account number used in the transaction</td>
</tr>
<tr>
<td>SEC</td>
<td>Standard Entry Code used in the transaction</td>
</tr>
<tr>
<td>Detail Type</td>
<td>Description of the transaction code</td>
</tr>
<tr>
<td>Custom Id</td>
<td>Custom ID of the transaction</td>
</tr>
<tr>
<td>Failure Reason</td>
<td>Description for the reason of the failure</td>
</tr>
<tr>
<td>Refund</td>
<td>A link to take you to a web page to refund the payer</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>Identification number of the ACH transaction</td>
</tr>
<tr>
<td>Record ID</td>
<td>Internally used field for reference</td>
</tr>
<tr>
<td>Return ID</td>
<td>Internally used field for reference</td>
</tr>
</tbody>
</table>

When a failed charge appears you will see an additional line item called Failure Reason which is a description of why the ACH payment failed and comes directly from the payer’s bank.
The red arrows in Figure 6-8 show the detail record of the $970.00 ACH payment and the subsequent return of the payment. The return is listed as a Failed Charge with the Failure Reason of invalid account number.

**Search by Custom ID Report**

This report provides transaction details by row. This is the ACH activity report filtered by the “Custom ID” rather than date range. It also features drill through capability which identifies detail transactions as they exist in the ACH Transaction History report. This report does provide a link for a user with appropriate access, to refund an ACH transaction to the payer. The Custom ID is a field set by the merchant while submitting an ACH transaction to Cryptpay. Merchants who call our API to make ACH transactions can include a Custom ID with their transaction data.

While we also allow a Custom ID with API credit card transactions, the Search By Custom ID report only searches ACH activity. Also while Custom ID is used in HPP, it is not particularly useful for a merchant since it is a value based on the payment’s form ID and payment ID.

**Column Definition**

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transaction ID</td>
<td>The Cryptpay Transaction ID</td>
</tr>
<tr>
<td>Date</td>
<td>The date of the transaction</td>
</tr>
<tr>
<td>Activity</td>
<td>The combination of the status and charge/refund fields. Example: Remitted Charge</td>
</tr>
<tr>
<td>Detail Type</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Amount</td>
<td>The amount of the transaction in dollars</td>
</tr>
<tr>
<td>Customer Id</td>
<td>The value which uniquely identifies a customer</td>
</tr>
<tr>
<td>Customer Name</td>
<td>The customer’s name</td>
</tr>
<tr>
<td>Routing Number</td>
<td>The routing number for the transaction</td>
</tr>
<tr>
<td>Account Number</td>
<td>The asterisk masked bank account number for the transaction</td>
</tr>
<tr>
<td>Custom Id</td>
<td>A value set by the merchant at the time of transaction</td>
</tr>
<tr>
<td>Other Detail</td>
<td>Additional information about the transaction.</td>
</tr>
<tr>
<td>Refund</td>
<td>Based on user access, a link is provided to allow the user to refund a payer’s transaction</td>
</tr>
</tbody>
</table>

**ACH NOC Detail Report**

This report will be able to provide the user with detailed information on transactions that were labeled as ACH Notices of Change (NOC). This lists Notifications of Change that come back from the ACH network for banking changes. A notice of change might occur if your school changed banks and has a new direct deposit account.

Currently Cryptpay does not do any maintenance on “stored accounts” since all its transactions are on-demand so it is up to the merchant to consume NOCs if they wish to update stored account information. This report is a way to pull that data without calling an API.

This is a traditional data list for ACH Notices of Change (NOC). See ACH guidelines for more information or contact your NTS/Cryptpay representative.

**Column Definition**

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transaction ID</td>
<td>The transaction ID for the NOC</td>
</tr>
<tr>
<td>Client Name</td>
<td>The merchant name</td>
</tr>
<tr>
<td>Business Date</td>
<td>The business date the NOC was generated on</td>
</tr>
<tr>
<td>Amount</td>
<td>The amount of the transaction, in dollars</td>
</tr>
<tr>
<td>Company Name</td>
<td>The company name</td>
</tr>
<tr>
<td>Transaction Description</td>
<td>The transaction description</td>
</tr>
<tr>
<td>Customer Id</td>
<td>The customer’s ID</td>
</tr>
<tr>
<td>Customer Name</td>
<td>The customer’s name</td>
</tr>
<tr>
<td>Account Number</td>
<td>The account number for the transaction</td>
</tr>
<tr>
<td>Routing Number</td>
<td>The routing number for the transaction</td>
</tr>
</tbody>
</table>
ACH Reconciled Summary Report

This report provides records and amounts for ACH charges that have been or will be deposited into the Schools account.

This report provides counts and amounts for ACH charges and Refunds grouped by day the transaction was received from the merchant. It also features drill through capability which identifies detail transactions as they exist in the ACH Activity Detail report. This report is cross tabular.

NTS ACH Reconciled Summary Report for Merchant and Business Date

User . RunDate: 7/1/2014 16:13 AM

<table>
<thead>
<tr>
<th>Date</th>
<th>Charges Processed Count Amount</th>
<th>Charges Failed Count Amount</th>
<th>Refunds Processed Count Amount</th>
<th>Refunds Failed Count Amount</th>
<th>Pending Remittances Charge Count Amount</th>
<th>Remitted Count Amount</th>
<th>Adjusted Count Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/13/2014</td>
<td>13</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>$2,295.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$3,480.00</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Figure 6-9 Sample ACH Reconciled Summary Report

Across the top in Figure 6-9 we see Charges, Refunds and Pending Remittance.

Column Definition

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>The Business date of when the transaction was received</td>
</tr>
<tr>
<td>Charges Processed Count Amount</td>
<td>The number and dollar amount of charges processed this day</td>
</tr>
<tr>
<td>Charges Failed Count Amount</td>
<td>The number and dollar amount of charges failed this day</td>
</tr>
<tr>
<td>Refunds Processed Count Amount</td>
<td>The number and dollar amount of refunds processed this day</td>
</tr>
<tr>
<td>Refunds Failed Count Amount</td>
<td>The number and dollar amount of refunds failed this day</td>
</tr>
<tr>
<td>Pending Remittances Charge Count Amount</td>
<td>The number and amount of charge transactions charged to the payer this</td>
</tr>
</tbody>
</table>
The number and amount of refund transactions charged to the merchant this day, but not yet remitted to the payer.

Remitted Count Amount  
The total number and amount of merchant remittance this day.

Adjusted Count Amount  
The total number and amount of merchant remittance adjustments this day.

CC Detail v2 (Credit Card)

This report provides details of credit card transactions processed through Cryptpay.

Note: This report does not include the payer's name, the credit or debit card refund and deposit information.

Refund and deposit information can be obtained through Transaction Summary Reporting.

Credit Card Details by Merchant Report

Column Definition

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merchant</td>
<td>Merchant facilitating the transaction</td>
</tr>
<tr>
<td>Cryptpay ID</td>
<td>A unique ID in Cryptpay to identify the transaction.</td>
</tr>
<tr>
<td>Date</td>
<td>Date the transaction was made</td>
</tr>
<tr>
<td>Transaction Type</td>
<td>The type of transaction being requested. E.g auth, refund, cancel.</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Amount</td>
<td>The total transaction amount in dollars</td>
</tr>
<tr>
<td>Response Message</td>
<td>The server’s response to the transaction, with information such as success or failure error messages.</td>
</tr>
<tr>
<td>Card Type</td>
<td>The Payer’s credit card type.</td>
</tr>
<tr>
<td>Cryptcard</td>
<td>The token generated for the card</td>
</tr>
<tr>
<td>Gateway</td>
<td>The gateway’s ID unique to this transaction</td>
</tr>
</tbody>
</table>

**Payment Form Detail Report**

**This report is recommended for reconciliation with merchant account deposit information**

This report provides details of BOTH credit card and ACH transactions processed through Cryptpay. This report includes the Merchant Name, the Payer Name and the Name of the Hosted Payment Form itself.

The report includes all authorization information for credit/debit card and ACH charges.

This report does not include Deposit information for ACH nor Credit/debit card. Refund and Deposit information for credit/debits activity can be obtained through Transaction Summary.

**Figure 6-11 Sample Payment Form Detail Report**

<table>
<thead>
<tr>
<th>Merchant Name</th>
<th>Form</th>
<th>Date</th>
<th>Payment Method</th>
<th>Account Type</th>
<th>Amount</th>
<th>Customer Name</th>
<th>Transaction Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TestTransT</td>
<td>Test</td>
<td>5/4/2014 8:40:58 PM</td>
<td>Credit Card</td>
<td>VISA</td>
<td>0.01</td>
<td>Test</td>
<td>Failure</td>
</tr>
<tr>
<td>TestTransT</td>
<td>Test</td>
<td>5/4/2014 8:40:58 PM</td>
<td>Credit Card</td>
<td>VISA</td>
<td>10.00</td>
<td>Test</td>
<td>Success</td>
</tr>
</tbody>
</table>

**Column Definition**
<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merchant Name</td>
<td>The name of the Merchant</td>
</tr>
<tr>
<td>Form Name</td>
<td>The name of the Hosted Form</td>
</tr>
<tr>
<td>Business Date</td>
<td>The business date the NOC was generated on</td>
</tr>
<tr>
<td>Payment Method</td>
<td>The Type of Payment</td>
</tr>
<tr>
<td>Account Type</td>
<td>The Type of Credit Card or E-Check Payment</td>
</tr>
<tr>
<td>Amount</td>
<td>The Dollar Amount Authorized</td>
</tr>
<tr>
<td>Customer Name</td>
<td>The Customer’s Name</td>
</tr>
<tr>
<td>Transaction Status</td>
<td>The Status of the Transaction; Success or Failure</td>
</tr>
</tbody>
</table>
Section 7  Payment Flow

Step 1 – Payer chooses to make a payment
A payer visits the merchant website and chooses to make a payment.

Step 2 – Get payment ID
If using Pass-in parameters, the hand-off between the merchant website and the hosted payment page begins when the merchant’s server calls the Pass-in Parameters Service with the payer data and the Form ID. The service will return a Payment ID to the merchant.

Step 3 – Payer sent to the payment form
Merchant sends the user to the payment form with the Payment ID.

Step 4 – Make payment
The payment form gathers the payment information from the payer and the payment is processed.

Step 5 – Display default receipt page
This step is valid and the final step in the payment flow if not using redirect URL. Otherwise, this step is skipped. When the payer has completed the payment, they are directed to a default receipt page.

Step 6 – Payer sent to redirect URL
Once the transaction has been approved or declined, a response is returned to the merchant’s website. Payment form sends the user back to merchant’s redirect URL with the Payment ID.

Step 7 – Merchant gets transaction data
Merchant’s server gets the transaction information from the Payment Form Transaction Service using the Payment ID and the Form ID. The service returns the transaction data.

Step 8 – Merchant display receipt
Merchant displays the receipt page the payer.
Section 8  Implementation

Basic

The ‘payment’ must describe a single total purchase rather than a series of items in a shopping cart. If you wish to sell multiple items, you must summarize the total payment amount and description on your own site before passing the details through to the Hosted Payment Pages. Hosted Payment Page supports simple one-time payments.

Built-In Parameters

The merchant may supply additional information to the Payment Page by adding any of the built-in parameters as shown below {Parameter name}, {Parameter description}. No values are checked for validity before being presented in the form, it’s the form’s job to do validation once the payer attempts to submit.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Parameter Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PaymentAmount</td>
<td>The payment amount. (SPECIAL)</td>
</tr>
<tr>
<td>PrimaryEmail</td>
<td>The primary email address. This is used if the checkbox for “Collect Email” is set.</td>
</tr>
<tr>
<td>PaymentType</td>
<td>Sets the default payment type. Valid values are Ach and CreditCard.</td>
</tr>
<tr>
<td>PaymentGroupId</td>
<td>The id associated with the payer’s payment tokens that have been grouped together.</td>
</tr>
<tr>
<td>CustomerName</td>
<td>The customer name</td>
</tr>
</tbody>
</table>

ACH Fields

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Parameter Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ach.AccountType</td>
<td>Valid values are Checking and Savings.</td>
</tr>
<tr>
<td>Ach.RoutingNumber</td>
<td>The routing number</td>
</tr>
<tr>
<td>Ach.AccountNumber</td>
<td>The account number</td>
</tr>
</tbody>
</table>

Credit Card Fields

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Parameter Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cryptpayCardNumber</td>
<td>The card number. This field won’t be populated if it’s provided, but the field name is reserved from being a custom field.</td>
</tr>
<tr>
<td>CreditCard.ExpirationMonth</td>
<td>The card expiration date month. Valid values are 01 through 12.</td>
</tr>
<tr>
<td>CreditCard.ExpirationYear</td>
<td>The card expiration date year. Valid values are the current year through 9 years in the future (today, 2013-2022).</td>
</tr>
</tbody>
</table>
cryptpaySecurityCode | The card CVV code. This field won’t be populated if it’s provided, but the field name is reserved from being a custom field.

Figure 8-1

The PaymentAmount parameter is special. If the PaymentAmount is passed in, the payer will not be able to edit the amount in the payment form. If this parameter is not passed in, the option for the payer to edit the amount is dependent on the minimum and maximum values not being equal within the form.

**Custom Parameters**
Additional parameters may be defined in the Payment Form, Custom Fields section. These additional parameters are simply objects with a name and value. **It is important not use any of the built-in parameter names when creating custom fields.**

**Returned Data**

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PaymentId</td>
<td>The unique identifier associated with each payment processed.</td>
</tr>
<tr>
<td>TransactionDate</td>
<td>The payment date.</td>
</tr>
<tr>
<td>PaymentType</td>
<td>The type of payment made (either Ach or CreditCard)</td>
</tr>
<tr>
<td>AccountType</td>
<td>The type of account used (Credit Card, Checking, or Savings)</td>
</tr>
<tr>
<td>AccountNumberLastFour</td>
<td>The last four digits of the account number used</td>
</tr>
<tr>
<td>CustomerName</td>
<td>The customer name</td>
</tr>
<tr>
<td>PaymentAmount</td>
<td>The payment amount, in cents, for use in calculations</td>
</tr>
<tr>
<td>FormattedPaymentAmount</td>
<td>The payment amount, in dollars, for display to the user</td>
</tr>
<tr>
<td>OtherParameters</td>
<td>Data used to process the payment and all fields added to the payment form.</td>
</tr>
</tbody>
</table>

Figure 8-2
HTTP redirect
Redirect refers to a web server function where the current URL can be redirected to a different one. The server tells the browser to automatically load a different page.

Form ID
The Form ID is the unique identifier assigned to the payment form. The Form ID is used when interacting with the payment form services.

Email Receipt
An automatic confirmation email which will include payment information may be sent to the payer. This email is sent directly to the payer after the payment. To review the possible email customizations, see the Edit/Create Payment Form section.

Payment Groups
Merchants have the option to pass-in a payment group id in order to populate stored payment options for the payer.

Sending Data into the Payment Page (Pass-In Parameters)

The purpose of pass-in parameters is to pre-populate payment form fields. Examples of pre-populating fields are filling in a text box, putting values into hidden fields, or to setting the payment amount. Suggested parameters that may be passed in from the list of built-in parameters are PaymentAmount, PrimaryEmail, PaymentGroupID. In addition, any custom field may be passed in. When passing in a custom field, the field name passed in must match the field name defined in the custom field. Any data passed in that has not been defined in a custom field and is not a built-in parameter will be ignored. Every form is eligible to use pass in parameters, but it is not required.

Typically the merchant website will store order or payment information in a database associated with a unique reference number which your system creates that can be passed over with the payer to the hosted payment page. This will help to identify the payer when returning to your website at the end of the process.

Implementations options:
- Send payer to the payment page using only the FormID.
- Send payer to the payment page with additional pass-in parameters.
Display the default payment page receipt page.

Use the receipt redirect URL and request return data to create your own receipt page.
Using the Transaction Service

The merchant’s server gets the transaction data from the Payment Form Transaction Service using the Payment ID and the Form ID. The service returns the transaction data for a single transaction. To return data from multiple transactions, pass in a Form ID, start date and end date. This uses a similar service, the Transaction List Service.

API Methods

Passin Parameters: Used to send payment data to Hosted Payment Page so that a user can have a pre-populated experience when they arrive at the page. In addition, select data may be passed in and remain in hidden fields. The method takes in a form ID and data for a single payer/payment and returns a payment ID to use for that payment.

Transaction: Used to retrieve data for a single Hosted Payment Page transaction. Takes in a form ID and a payment ID, returns all data from that transaction (such as amount, payment method used, data gathered from custom fields).

TransactionList: Used to retrieve data for all transactions on a Hosted Payment Page during a specified time span. Takes in a Form ID, start date, and end date, returns all data for all transactions processed during that span (such as amount, payment method used, data gathered from custom fields).

Links in UAT:
https://portal.uat.cryptpay3.com/v2/paymentform/passinparameters
https://portal.uat.cryptpay3.com/v2/paymentform/transaction
https://portal.uat.cryptpay3.com/v2/paymentform/transaction/list

Gets
Transaction example:
https://portal.uat.cryptpay3.com/v2/paymentform/Transaction/?formId=d165782d-8bfa-4bd6-8867-9de523c6c6d26&pageId=00000000-0000-0000-0000-000000000000

Transaction/List example:
https://portal.uat.cryptpay3.com/v2/paymentform/transaction/List?formId=9e34f1-2338-4c84-8259-a0a27a23c7e&startDate=2013-12-01&endDate=2013-12-31
Transaction Input parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data type</th>
<th>Format</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FormID</td>
<td>Guid</td>
<td>00000000-0000-0000-0000-000000000000</td>
<td>Yes</td>
<td>The form ID the transaction was performed on.</td>
</tr>
<tr>
<td>PaymentID</td>
<td>Guid</td>
<td>00000000-0000-0000-0000-000000000000</td>
<td>Yes</td>
<td>The ID of the transaction.</td>
</tr>
</tbody>
</table>

Figure 8-3

Transaction List Input parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data type</th>
<th>Format</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FormID</td>
<td>Guid</td>
<td>00000000-0000-0000-0000-000000000000</td>
<td>Yes</td>
<td>The form ID the transaction was performed on.</td>
</tr>
<tr>
<td>StartDate</td>
<td>String</td>
<td>“mm/dd/yyyy”</td>
<td>Yes</td>
<td>Report start date</td>
</tr>
<tr>
<td>EndDate</td>
<td>String</td>
<td>“mm/dd/yyyy”</td>
<td>Yes</td>
<td>Report end date</td>
</tr>
</tbody>
</table>

Figure 8-4

Test Credit Cards

Test cards (do not use in production):

<table>
<thead>
<tr>
<th>Card type</th>
<th>CC#</th>
<th>Exp date</th>
<th>Cvv2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visa</td>
<td>411111111111111</td>
<td>1/2018</td>
<td>999</td>
</tr>
<tr>
<td>MC</td>
<td>5454545454545454</td>
<td>1/2018</td>
<td>998</td>
</tr>
<tr>
<td>Amex</td>
<td>3796051711111114</td>
<td>1/2018</td>
<td>9997</td>
</tr>
<tr>
<td>Discover</td>
<td>6011361088888888</td>
<td>1/2018</td>
<td>996</td>
</tr>
</tbody>
</table>
XML examples
Pass-in xml example:
Pass-in: (post to PassinParameters/)
<PassinParameters>
  <Amount>100</Amount>
  <FormId>d165782d-8bfa-4bd6-8867-9de523cbcb26</FormId>
  <Parameters>
    <Parameter>
      <Name>Zero</Name>
      <Value>This is some text for your required field.</Value>
    </Parameter>
    <Parameter>
      <Name>email</Name>
      <Value>i.dont.want@to.com</Value>
    </Parameter>
    <Parameter>
      <Name>Two</Name>
      <Value>(402) 555-0199</Value>
    </Parameter>
    <Parameter>
      <Name>Three</Name>
      <Value>Sure, go with that.</Value>
    </Parameter>
    <Parameter>
      <Name>Extra</Name>
      <Value>This should be in the database but not the UI</Value>
    </Parameter>
    <Parameter>
      <Name>PaymentGroupId</Name>
      <Value>20D37385-660B-48E0-8125-F740A1256010</Value>
    </Parameter>
  </Parameters>
</PassinParameters>
Transaction XML example:

```xml
<PaymentFormTransaction>
  <TransactionDate>3/6/2014 2:59:26 PM</TransactionDate>
  <PaymentId>9bcdeb5a-7137-4809-8a59-847d7ee66791</PaymentId>
  <PaymentType>Ach</PaymentType>
  <PaymentAmount>1000</PaymentAmount>
  <FormattedPaymentAmount>1000.00</FormattedPaymentAmount>
  <OtherParameters>
    <Parameter>
      <Name>submitPayment</Name>
      <Value>Submit</Value>
    </Parameter>
    <Parameter>
      <Name>AchToken</Name>
      <Value>2TOFFEuGKlQ2312</Value>
    </Parameter>
    <Parameter>
      <Name>Ach.AccountNumber</Name>
      <Value>*******8912</Value>
    </Parameter>
    <Parameter>
      <Name>Ach.AccountType</Name>
      <Value>Checking</Value>
    </Parameter>
    <Parameter>
      <Name>PaymentCryptpayID</Name>
      <Value>227911</Value>
    </Parameter>
  </OtherParameters>
  <AccountType>Checking</AccountType>
  <AccountNumberLastFour>8912</AccountNumberLastFour>
  <CustomerName>Tom Test</CustomerName>
</PaymentFormTransaction>
```

Transaction List XML example:

```xml
<PaymentFormTransactions>
  <PaymentFormTransaction>
    ...
  </PaymentFormTransaction>
  <PaymentFormTransaction>
    ...
  </PaymentFormTransaction>
</PaymentFormTransactions>
```