Paymentsite Reports API User's Guide

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Paymentsite Reports API is created, owned, hosted, and managed by Intrix Technology, Inc.

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1.   Introduction to Paymentsite Reports API

The Paymentsite Reports API is an XML post reporting service that allows merchants to post requests for transaction reporting data and receive back results in XML format. The reports API allows merchants who are using the Paymentsite API for processing transactions to pull information about their transactions from the gateway and display or use the data in their own software or business systems. If the result set is too large, a paging mechanism will allow merchants to retrieve data in chunks.

The merchant account on the gateway must be configured to be permitted to use the Reports API service. If you need assistance, please contact Customer Support at 855-546-8749 Option 2.

2.   Available Report Types

The Paymentsite Reports API supports the following Report Types:

Transaction Detail Report – this report returns all of the details associated with transactions that match the requested date period and/or filter options. This report will include as many as 28 fields with information for each transaction, and may include more. This report request uses the command:

<command>detailTransactionReport</command>

Transaction Basic Report – this report returns select details associated with transactions that match the requested date period and/or filter options. This report will include 12 fields for each transaction. This report request uses the command:

<command>transactionBasicReport</command>

Transaction ACH Status Report – this report will return the most up-to-date status change associated with any ACH transaction, including initial creation. This is used to monitor the settlement processing of ACH transactions. This report request uses the command:

<command>transactionACHStatusReport</command>

Customer Transaction Report – this report will return information on transasctions, including the customer record information, like customer name, address, email. This report request uses the command:

<command>customerReport</command>

Saved Customer Report – this report will return information on customers that have been saved in the Paymentsite system. This report request uses the command:

<command>customerRecord</command>

Check Request Status – this report command is ues when the system cannot respond to a report request real time, and has responded with a report token. This command checks the status of the report request, to see if it is completed. This request uses the command:

<command>checkRequestStatus</command>

Command Xml Tag	Sample Value	Description
command	transactionDetailReport	Request type, possible values are: • transactionDetailReport • transactionBasicReport • transactionAchStatusReport • transactionCustomerDetailReport • customerReport • checkRequestStatusCommand

3.   Posting URL

To submit a request for a report, the user posts XML code to the gateway. The posting URL for reports requests is as follows for the Integration and Production environments.

Integration Posting URL
The merchant developer should first develop and test their API implementation in the Integration environment using the below Reports API posting URL.

https://apiint.paymentsite.com/ReportsAPI/servlet/ReportsAPI

Production Posting URL
Once the reporting API implementation is complete, the system can post to production. This reporting URL would return live transaction data from a processing merchant account.

https://reportsapi.paymentsite.com/ReportsAPI/servlet/ReportsAPI

4.   Submitting a Report Request

The merchant submits a report request by posting XML to the reports API on the gateway.

Report Filters
Report filter options are used to narrow the record set returned by the request, like the "where" clause in a SQL query.

Once a report has been requested, the Reports API will either return the requested report data or a pageToken that allows the merchant to request a specific page of data from paginated results. Requests for reports are processed in real time until the threshold for number of simultaneous requests is reached—after the threshold is reached, a request token is returned which allows the merchant's system to check on the report status and retrieve the report when it is complete.

When requesting a report, transaction reports data can be filtered by time period and page size or if no pagination is requested, the merchant can request a specific number of records to return. A reporting request can also request a specific transaction by filtering on transactionId or Reference number.

The <pageSize> tag controls whether or not paging is activated. Alternatively, merchants can post the <startRecordNumber> and <endRecordNumber> tags to control how many records to return. If the <startRecordNumber> and <endRecordNumber> tags are posted, <pageSize> is ignored and <pageToken> will not be returned.

The filter elements reside in the Request node. The below snippet of code shows the request node of a request for a report using a date range, with 25 records on each page of the report, seeking transactions run between January 1, 2016 at 00:00:00 thru December 31, 2016 at 23:59:59, result set to be ordered by the transaction date, in descending order.

```
<request>
    <filterOptions>
        <period>range</period>
        <pagesize>25</pagesize>
        <startDate>01/01/2016</startDate>
        <endDate>12/31/2016</endDate>
        <startTime>00:00:00</startTime>
        <endTime>23:59:59</endTime>
        <orderByName>transactionDate</orderByName>
        <orderByDirection>desc</orderByDirection>
    </filterOptions>
</request>
```

5.   Transaction Detail Report

The transaction detail report will include a wide variety of data available for a given transaction.

Fields

Transaction Detail Request Fields

The following fields reside in the verification node:

Verification Xml Tag	Req	Sample Value	Description
merchantId	R	12345	The merchant ID assigned to the gateway account
merchantKey	R	bw33242moij23423m	The API key for the merchant account

The command node will contain only the command tag, with a value of "transactionDetailReport"

```
<command>transactionDetailReport</command>
```

The following fields reside in the request -> filterOptions node

Filter Option Xml Tag	Req	Sample Value	Description
period	R	range	The date range or named period that the report data should span. "range" indicates a specific date range and should be used with the startDate and endDate tags. Possible values are: range today yesterday lastmonth thismonth
pageSize	O	25	Max 100
startDate	C	01/01/2016	Required if period is set to "range". Start date for the report, in mm/dd/yyyy format
endDate	C	01/31/2016	Required if period is set to "range". End date for the report, in mm/dd/yyyy format
startTime	O	00:00:00	Start time for the report, in hh:mm:ss (hours 0-23) format
endTime	O	23:59:59	End time for the report, in hh:mm:ss (hours 0-23) format
customerID	O	JBC1200821	Specify to receive transactions associated with a specific customer on file. Pass in the value that was assigned by you to your customer when the customer was created.
orderId	O	C0A8F979:012E973AC9C:0570:01FBE226	Order identifier. Unique for each order.
orderByName	O	transactionDate	Identifies which field is used to order the records by. Valid values are: transactionDate transactionAmount transactionType transactionId billingName orderId paymentType status
orderByDirection	O	desc	Identifies the direction in which the records will be ordered. Possible values are asc for ascending desc for descending

startRecordNumber	O	1	Starting record number for the report. Max = 500000. Max 100 record range with endRecordNumber
endRecordNumber	O	10	Ending record number for the report. Max = 500000. Max 100 record range with startRecordNumber
pageToken	O	temp1300904959846.1	Used to retrieve additional pages of a previously run report that contained multiple pages. The token is included in the initial report response. When using a token, use only the page token and page number fields, do not use other filters
pageNumber	O	3	Used with pageToken tag to retrieve records by page number. When using a token, use only the page token and page number fields, do not use other filters

Transaction Detail Response Fields

The response is composed of several main nodes:

- Header
- Result
    - Result Set Info
    - Records

The Header node will contain the following fields

Header Xml Tag	Sample Value	Description
errorCode	0	Indicates success or failure of a report request. If the report request was successful, the errorCode will be 0. If not, another numeric code will be returned.
errorMsg	Invalid Period.	An error message is returned if an error occurs in retrieving the report. Some sample error messages include: "Invalid period", "REQUEST NOT FOUND", "This merchant account is not enabled with the reports API service".
command	transactionDetailReport	Echoes back the command sent in the request.
time	03-14-2016 12:15:56	Date and time stamp for the report

The Result node will contain the subnodes

- resultSetInfo
- records

The resultSetInfo subnode will contain the following fields:

Result Set Xml Tag	Sample Value	Description
totalNumberofRecords	14	The total number of records included in the requested report.
pageToken	temp1300904959846.1	Token returned by reports request that can be used to get all pages without making additional requests using pageNumber
pageNumber	3	Indicates which page of a multipage report is being returned in this result set
numberOfpages	3	Total number of pages in the requested report.

The record subnode of the resultSetInfo node contains the result records. In the result, for each record in the result set, there will be a record node. Within that node, depending on the transaction types and data available in the report, the following fields may be included in the response:

Record Xml Tag	Sample Value	Description
transactionId	2122567	The system-assigned transaction ID
referenceNumber	IBAH23423	The reference number provided for the transaction, if any
transactionType	Sale	The type of transaction performed. Some of the possible values that may be returned are: Sale, Return, Credit, Authorize, Force, ForceSale
transactionAmount	13.89	The amount of the transaction.
taxAmount	1.45	Amount of sales tax on the transaction.
shippingAmount	4.99	Shipping amount applied to the transaction.
transactionDate	03/08/2016 01:16:06 PM	Date and time of the transaction
orderId	C0A8F979:012E973AC9C:0570:01FBE226	Order identifier. Unique for each order.
userId	Susan123	The user ID of the user who performed the transaction
customerId	123283	The customer ID number of the customer for this transaction
companyName	Johnson Enterprises	The name of the buyer's company associated with this transaction. Often used for business to business transactions where the "customer" is a company.

Record Xml Tag	Sample Value	Description
responseCode	0	A numeric code indicating the response to the reports request. A "0" indicates the request was successful. If you receive a code other than "0", there was an error processing the request.
approvalCode	SSY449	A 6-digit code returned from the processor for a given transaction.
paymentType	(Visa) …1111	Indicates the payment type used for the transaction and the last 4 digits of the payment account number
bankRoutingNumber	123456789	A 9-digit routing number used to identify the bank where the checking account is located
achAccountNumber	239710	Bank account number
avsReponseCode	YYY	Address verification response code. See table below for response definitions.
billingName	John Johnson	Billing name of the person on the payment account.
billingAddress1	123 Main Street	First line of the billing address
billingAddress2	Suite 4	Second line of the billing address
billingCity	Los Angeles	Billing city
billingState	CA	2-length billing state
billingCountry	US	Billing country
billingZip	91020	Billing zip or postal code
billingPhone	(805) 123-2938	Billing phone number
billingEmail	johnjohnson@gmail.com	Billing email address
comments	A present for his wife! Ship ASAP.	Any comments included with the transaction
transactionStatus	Approved	The status of the transaction. If the transaction was successful, it will say "Approved."
transactionState	3	Numeric code indicating the state of the transaction. See table below for possible values.
recurringPaymentFlag	1	Flag to indicate whether this payment was part of a set of recurring payments. The flag will be set to 1 if yes, or 0 if no.
processorReturnedData	Settled Returned Bad Account NSF Originated	The response from the payment processor., important for ACH transactions.
gatewayDebitNetworkID	060004	Response from the processor and used by some Debit Merchants who use the value for settlement purpose
creditCardType	VISA	The type of credit or debit card used for payment.

Possible values for transactionState are:

Value	Meaning
1	Pending Sale
2	Pending Force Sale
3	Captured
4	Pending Capture
5	Pending Authorize
6	Authorized
7	Declined
8	Reversed
9	Voided
10	Settled
11	Pending Settlement
12	Pending Review
13	Pending Reversal
14	Pending Repeat Capture
16	Pending Return
17	Pending Credit
18	Pending Void
19	Pending Repeat Void
20	Pending Verification

Value	Meaning
21	Verified
22	Accepted
23	Pending ACH Clearance
24	Pending ACH Settlement
25	ACH Funded
26	ACH Settled
27	Pending ACH Research
28	Pending ACH Export
29	Pending Authentication
30	Authenticated
31	Pending Repeat Return
32	Authentication Started
33	Submitting Authentication
34	Viewed
35	Underpaid
36	Overpaid

Note: additional elements may be added in the future. When coding to interpret responses, parse for fields by name, not by position.

Samples for Transaction Detail Request

Request Sample:

```
<rapi-request>
  <verification>
     <merchantId>12</merchantId>
     <merchantKey>v345djytrrh93p6fgdf1ndjp6</merchantKey>
  </verification>
  <command>transactionDetailReport</command>
  <request>
    <filterOptions>
     <period>range</period>
     <pageSize>10</pageSize>
     <startDate>06/01/2017</startDate>
     <endDate>06/15/2017</endDate>
     <startTime>00:00:00</startTime>
     <endTime>23:59:59</endTime>
     <orderByName>transactionDate</orderByName>
     <orderByDirection>desc</orderByDirection>
    </filterOptions>
```

```
        </request>
      </rapi-request>
```

Response Sample:

```xml
<?xml version="1.0" encoding="UTF-8"?><rapi-response>
 <header>
  <errorCode>0</errorCode>
  <errorMsg/>
  <command>transactionDetailReport</command>
  <time>09-15-2017 13:41:57</time>
 </header>
 <result>
  <resultSetInfo>
   <totalNumberOfRecords>30</totalNumberOfRecords>
   <pageToken>temp1505508117277.1</pageToken>
   <pageNumber>1</pageNumber>
   <numberOfPages>3</numberOfPages>
  </resultSetInfo>
  <records>
  <record>
     <transactionId>1458009</transactionId>
     <referenceNumber><![CDATA[06132017110003812]]></referenceNumber>
     <transactionType>Authorize</transactionType>
     <transactionAmount>32.00</transactionAmount>
     <taxAmount>1.23</taxAmount>
     <shippingAmount>3.00</shippingAmount>
     <transactionDate>06/13/2017 11:00:15 AM</transactionDate>
     <orderId><![CDATA[17110003841]]></orderId>
     <splitPaymentOrderId/>
     <userId/>
     <customerId/>
     <companyName/>
     <responseCode>0</responseCode>
     <approvalCode>123456</approvalCode>
     <paymentType>(Visa) ...1111</paymentType>
     <bankRoutingNumber/>
     <achAccountNumber/>
     <avsResponseCode>YYY</avsResponseCode>
     <billingName/>
     <billingAddress1/>
     <billingAddress2/>
     <billingCity/>
     <billingState/>
     <billingCountry/>
     <billingZip/>
     <billingPhone/>
     <billingEmail/>
     <comments/>
     <transactionStatus>Approved</transactionStatus>
     <transactionState>6</transactionState>
     <recurringPaymentFlag/>
     <processorReturnedData/>
     <gatewayDebitNetworkID/>
```

```
      <creditCardType>VISA</creditCardType>
      <customField1/>
      <customField2/>
      <customField3/>
      <customField4/>
      <customField5/>
   </record>
   <record>
      <transactionId>1457956</transactionId>
      <referenceNumber><![CDATA[846392]]></referenceNumber>
      <transactionType>Sale</transactionType>
      <transactionAmount>30.00</transactionAmount>
      <taxAmount>0.38</taxAmount>
      <shippingAmount>0.00</shippingAmount>
      <transactionDate>06/08/2017 04:12:29 PM</transactionDate>
      <orderId><![CDATA[7F000001:015C89FB0AC6:3D73:11CA34C6]]></orderId>
      <splitPaymentOrderId/>
      <userId/>
      <customerId/>
      <companyName/>
      <responseCode>0</responseCode>
      <approvalCode>123456</approvalCode>
      <paymentType>(Mastercard) ...5454</paymentType>
      <bankRoutingNumber/>
      <achAccountNumber/>
      <avsResponseCode>YYY</avsResponseCode>
      <billingName><![CDATA[Tom Customer]]></billingName>
      <billingAddress1><![CDATA[123 Main Street]]></billingAddress1>
      <billingAddress2><![CDATA[Apt 36]]></billingAddress2>
      <billingCity>Moorpark</billingCity>
      <billingState>CA</billingState>
      <billingCountry>US</billingCountry>
      <billingZip>80214</billingZip>
      <billingPhone>818-123-1234</billingPhone>
      <billingEmail><![CDATA[customer@example.com]]></billingEmail>
      <comments/>
      <transactionStatus>Approved</transactionStatus>
      <transactionState>3</transactionState>
      <recurringPaymentFlag/>
      <processorReturnedData/>
      <gatewayDebitNetworkID/>
      <creditCardType>MASTERCARD</creditCardType>
      <customField1/>
      <customField2/>
      <customField3/>
      <customField4/>
      <customField5/>
   </record>
   <record>
      <transactionId>1458017</transactionId>
      <referenceNumber><![CDATA[06142017130205267]]></referenceNumber>
      <transactionType>ACH Payment</transactionType>
```

```
       <transactionAmount>32.00</transactionAmount>
       <taxAmount>1.23</taxAmount>
       <shippingAmount>3.00</shippingAmount>
       <transactionDate>06/14/2017 01:02:06 PM</transactionDate>
       <orderId><![CDATA[17130205831]]></orderId>
       <splitPaymentOrderId/>
       <userId/>
       <customerId/>
       <companyName/>
       <responseCode>0</responseCode>
       <approvalCode/>
       <paymentType>(Check) ...1234</paymentType>
       <bankRoutingNumber>987654321</bankRoutingNumber>
       <achAccountNumber>12341234</achAccountNumber>
       <avsResponseCode/>
       <billingName><![CDATA[Joe Smith]]></billingName>
       <billingAddress1><![CDATA[123 Main]]></billingAddress1>
       <billingAddress2/>
       <billingCity/>
       <billingState/>
       <billingCountry>US</billingCountry>
       <billingZip>95691</billingZip>
       <billingPhone>818-123-1234</billingPhone>
       <billingEmail><![CDATA[customer@example.com]]></billingEmail>
       <comments/>
       <transactionStatus>Accepted</transactionStatus>
       <transactionState>26</transactionState>
       <recurringPaymentFlag/>
       <processorReturnedData>Settled</processorReturnedData>
       <gatewayDebitNetworkID/>
       <creditCardType/>
       <customField1/>
       <customField2/>
       <customField3/>
       <customField4/>
       <customField5/>
     </record>
     <record>
       <transactionId>1458016</transactionId>
       <referenceNumber><![CDATA[06142017125248885]]></referenceNumber>
       <transactionType>ACH Payment</transactionType>
       <transactionAmount>32.00</transactionAmount>
       <taxAmount>1.23</taxAmount>
       <shippingAmount>3.00</shippingAmount>
       <transactionDate>06/14/2017 12:52:48 PM</transactionDate>
       <orderId><![CDATA[17125248351]]></orderId>
       <splitPaymentOrderId/>
       <userId/>
       <customerId/>
       <companyName/>
       <responseCode>0</responseCode>
       <approvalCode/>
```

```
    <paymentType>(Check) ...1234</paymentType>
    <bankRoutingNumber>987654321</bankRoutingNumber>
    <achAccountNumber>12341234</achAccountNumber>
    <avsResponseCode/>
    <billingName><![CDATA[Joe Smith]]></billingName>
    <billingAddress1><![CDATA[123 Main]]></billingAddress1>
    <billingAddress2/>
    <billingCity/>
    <billingState/>
    <billingCountry>US</billingCountry>
    <billingZip>95691</billingZip>
    <billingPhone>818-123-1234</billingPhone>
    <billingEmail><![CDATA[customer@example.com]]></billingEmail>
    <comments/>
    <transactionStatus>Accepted</transactionStatus>
    <transactionState>26</transactionState>
    <recurringPaymentFlag/>
    <processorReturnedData>Returned_Bad_Account</processorReturnedData>
    <gatewayDebitNetworkID/>
    <creditCardType/>
    <customField1/>
    <customField2/>
    <customField3/>
    <customField4/>
    <customField5/>
  </record>
 …….
  </records>
 </result>
</rapi-response>
```

6.   Transaction Basic Report

The basic transaction report will contain the same records as the detail report, but will return fewer data elements. It will usually provide enough information to meet reporting needs. However, if more transaction detail is required, the Detail report can be used.

Fields

Transaction Basic Request Fields

The following fields reside in the verification node:

Verification Xml Tag	Req	Sample Value	Description
merchantId	R	12345	The merchant ID assigned to the gateway account
merchantKey	R	bw33242moij23423m	The API key for the merchant account

The command node will contain only the command tag, with a value of "transactionBasicReport"

```
<command>transactionBasicReport</command>
```

The following fields reside in the request -> filterOptions node

Filter Option Xml Tag	Req	Sample Value	Description
period	R	range	The date range or named period that the report data should span. "range" indicates a specific date range and should be used with the startDate and endDate tags. Possible values are: range today yesterday lastmonth thismonth
pageSize	O	25	Max 100
startDate	C	01/01/2016	Required if period is set to "range". Start date for the report, in mm/dd/yyyy format
endDate	C	01/31/2016	Required if period is set to "range". End date for the report, in mm/dd/yyyy format
startTime	O	00:00:00	Start time for the report, in hh:mm:ss (hours 0-23) format
endTime	O	23:59:59	End time for the report, in hh:mm:ss (hours 0-23) format
customerId	O	JBC1200821	Specify to receive transactions associated with a specific customer on file. Pass in the value that was assigned by you to your customer when the customer was created.
orderId	O	C0A8F979:012E973AC9C:0570:01FBE226	Order identifier. Unique for each order.
orderByName	O	transactionDate	Identifies which field is used to order the records by. Valid values are: transactionDate transactionAmount transactionType transactionId billingName orderId paymentType status
orderByDirection	O	desc	Identifies the direction in which the records will be ordered. Possible values are asc for ascending desc for descending

startRecordNumber	O	1	Starting record number for the report. Max = 500000. Max 100 record range with endRecordNumber
endRecordNumber	O	10	Ending record number for the report. Max = 500000. Max 100 record range with startRecordNumber
pageToken	O	temp1300904959846.1	Used to retrieve additional pages of a previously run report that contained multiple pages. The token is included in the initial report response. When using a token, use only the page token and page number fields, do not use other filters
pageNumber	O	3	Used with pageToken tag to retrieve records by page number. When using a token, use only the page token and page number fields, do not use other filters

Basic Report Response Fields

The response is composed of several main nodes:

- Header
- Result
  - Result Set Info
  - Records

The Header node will contain the following fields:

Header Xml Tag	Sample Value	Description
errorCode	0	Indicates success or failure of a report request. If the report request was successful, the errorCode will be 0. If not, another numeric code will be returned.
errorMsg	Invalid Period.	An error message is returned if an error occurs in retrieving the report. Some sample error messages include: "Invalid period", "REQUEST NOT FOUND", "This merchant account is not enabled with the reports API service".
Command	transactionDetailReport	Echoes back the command sent in the request.
time	03-14-2016 12:15:56	Date and time stamp for the report

The Result node will contain the subnodes

- resultSetInfo
- records

The resultSetInfo subnode will contain the following fields:

Result Set Xml Tag	Sample Value	Description
totalNumberofRecords	14	The total number of records included in the requested report.
pageToken	temp1300904959846.1	Token returned by reports request that can be used to get all pages without making additional requests using pageNumber
pageNumber	3	Indicates which page of a multipage report is being returned in this result set
numberOfpages	3	Total number of pages in the requested report.

The record subnode of the resultSetInfo node contains the result records. In the result, for each record in the result set, there will be a record node. Within that node, depending on the transaction types and data available in the report, the following fields may be included in the response:

Record Xml Tag	Sample Value	Description
transactionId	2122567	The system-assigned transaction ID
transactionType	Sale	The type of transaction performed. Some of the possible values that may be returned are: Sale, Return, Credit, Authorize, Force, ForceSale
transactionAmount	13.89	The amount of the transaction.
transactionDate	03/08/2016 01:16:06 PM	Date and time of the transaction
transactionStatus	Accepted	The status of the transaction. If the transaction was successful, it will say "Approved."
settlementStatus	Approved	The status of the transaction. If the transaction was successful, it will say "Approved."
transactionState	3	Numeric code incidcating the state of the transaction. See table below for possible values.
orderId	C0A8F979:012E973AC9C:0570:01FBE226	Order identifier. Unique for each order.
approvalCode	SSY449	A 6-digit code returned from the processor for a given transaction.
paymentType	(Visa) ...1111	Indicates the payment type used for the transaction and the last 4 digits of the payment account number
customerID	<![CDATA[Suz2343242]]>	The customer ID provided by the merchant when the customer record was created. Tag will be empty if the transaction did not reference a saved customer.
billingName	<![CDATA[Joe Smith]>	The billing name submitted with the transation.

Note: additional elements may be added in the future. When coding to interpret responses, parse for fields by name, not by position.

Possible values for transactionState

Value	Meaning
1	Pending Sale
2	Pending Force Sale
3	Captured
4	Pending Capture
5	Pending Authorize
6	Authorized
7	Declined
8	Reversed
9	Voided
10	Settled
11	Pending Settlement
12	Pending Review
13	Pending Reversal
14	Pending Repeat Capture
16	Pending Return
17	Pending Credit
18	Pending Void
19	Pending Repeat Void
20	Pending Verification

Value	Meaning
21	Verified
22	Accepted
23	Pending ACH Clearance
24	Pending ACH Settlement
25	ACH Funded
26	ACH Settled
27	Pending ACH Research
28	Pending ACH Export
29	Pending Authentication
30	Authenticated
31	Pending Repeat Return
32	Authentication Started
33	Submitting Authentication
34	Viewed
35	Underpaid
36	Overpaid

If the report request cannot be processed at the time of the request, the result node will contain the requestToken field, which can be used in the report status request to determine if the report request has completed at a later time. This condition is extremely rare.

Result Set Xml Tag	Sample Value	Description
requestToken	`fSawEgQqNqg=`	The reference name to be used to retrieve report status

Samples for Transaction Basic Request

Request Sample – report period of "Yesterday" with no other filters:

```
<rapi-request>
  <verification>
     <merchantId>305</merchantId>
     <merchantKey>v4h763knnh93p6fgdf1ndjp6</merchantKey>
  </verification>
  <command>transactionBasicReport</command>
  <request>
     <filterOptions>
       <period>yesterday</period>
     </filterOptions>
  </request>
```

```
      </rapi-request>
```

```
<?xml version="1.0" encoding="UTF-8"?><rapi-response>
  <header>
    <errorCode>0</errorCode>
    <errorMsg/>
    <command>transactionBasicReport</command>
    <time>09-15-2017 13:41:57</time>
  </header>
  <result>
    <resultSetInfo>
      <totalNumberOfRecords>30</totalNumberOfRecords>
      <pageToken>temp1505508116994.1</pageToken>
      <pageNumber>1</pageNumber>
      <numberOfPages>30</numberOfPages>
    </resultSetInfo>
    <records>
      <record>
        <transactionId>1458019</transactionId>
        <transactionType>ACH Payment</transactionType>
        <transactionAmount>32.00</transactionAmount>
        <transactionDate>06/14/2017 01:07:07 PM</transactionDate>
        <transactionStatus>Accepted</transactionStatus>
        <settlementStatus>Approved</settlementStatus>
        <transactionState>22</transactionState>
        <approvalCode/>
        <paymentType>(Check) ...1234</paymentType>
        <customerId/>
        <billingName><![CDATA[Joe Smith]]></billingName>
        <userId/>
        <orderId><![CDATA[A017130707928]]></orderId>
      </record>
    </records>
  </result>
</rapi-response>
```

7.   ACH Status Report

The transaction ACH status report provides information on status changes related to ACH transactions. Since ACH transactions do not create a funds hold when initially authorized, tracking the settlement progress is very important.

This report result will contain transactions for which a status update has been applied, and will provide the latest status available within the date period requested. For example, an ACH transaction is run on 8/1, and it originates and settles on 8/2, but is charged back on 8/7. An ACH status report run on 8/8 which includes as its date range 8/2 only, it will include the transaction in question, and will list only the Settled event (the Originated state occurs prior to Settled).

ACH transactions will only be included if a settlement status record has been created during the time range requesed.

Fields

ACH Status Report Request Fields

The following fields reside in the verification node:

Verification Xml Tag	Req	Sample Value	Description
merchantId	R	12345	The merchant ID assigned to the gateway account
merchantKey	R	bw33242moij23423m	The API key for the merchant account

The command node will contain only the command tag, with a value of "transactionAchStatusReport"

<command>transactionAchStatusReport</command>

The following fields reside in the request -> filterOptions node

Filter Option Xml Tag	Req	Sample Value	Description
period	R	range	The date range or named period that the report data should span. "range" indicates a specific date range and should be used with the startDate and endDate tags. Possible values are: range today yesterday lastmonth thismonth
pageSize	O	25	Max 100
startDate	C	01/01/2016	**Required if period is set to "range".** Start date for the report, in mm/dd/yyyy format
endDate	C	01/31/2016	**Required if period is set to "range".** End date for the report, in mm/dd/yyyy format
startTime	O	00:00:00	Start time for the report, in hh:mm:ss (hours 0-23) format
endTime	O	23:59:59	End time for the report, in hh:mm:ss (hours 0-23) format
customerId	O	JBC1200821	Specify to receive transactions associated with a specific customer on file. Pass in the value that was assigned by you to your customer when the customer was created.
orderByName	O	transactionDate	Identifies which field is used to order the records by. Valid values are: transactionDate

			transactionAmount transactionType transactionId billingName orderId paymentType status
orderByDirection	O	desc	Identifies the direction in which the records will be ordered. Possible values are asc for ascending desc for descending
startRecordNumber	O	1	Starting record number for the report. Max = 500000. Max 100 record range with endRecordNumber
endRecordNumber	O	10	Ending record number for the report. Max = 500000. Max 100 record range with startRecordNumber
pageToken	O	temp1300904959846.1	Used to retrieve additional pages of a previously run report that contained multiple pages. The token is included in the initial report response. When using a token, use only the page token and page number fields, do not use other filters
pageNumber	O	3	Used with pageToken tag to retrieve records by page number. When using a token, use only the page token and page number fields, do not use other filters

ACH Status Report Response Fields

The response is composed of several main nodes:
- Header
- Result
  - Result Set Info
  - Records

The Header node will contain the following fields:

Header Xml Tag	Sample Value	Description
errorCode	0	Indicates success or failure of a report request. If the report request was successful, the errorCode will be 0. If not, another numeric code will be returned.
errorMsg	Invalid Period.	An error message is returned if an error occurs in retrieving the report. Some sample error messages include: "Invalid period", "REQUEST NOT FOUND", "This merchant account is not enabled with the reports API service".
Command	transactionDetailReport	Echoes back the command sent in the request.
time	03-14-2016 12:15:56	Date and time stamp for the report

The Result node will contain the subnodes

- resultSetInfo
- records

The resultSetInfo subnode will contain the following fields:

Result Set Xml Tag	Sample Value	Description
totalNumberofRecords	14	The total number of records included in the requested report.
pageToken	temp1300904959846.1	Token returned by reports request that can be used to get all pages without making additional requests using pageNumber
pageNumber	3	Indicates which page of a multipage report is being returned in this result set
numberOfpages	3	Total number of pages in the requested report.

The record subnode of the resultSetInfo node contains the result records. In the result, for each record in the result set, there will be a record node. Within that node, depending on the transaction types and data available in the report, the following fields may be included in the response:

Record Xml Tag	Sample Value	Description
transactionId	2122567	The system-assigned transaction ID
transactionType	ACH Payment	ACH Payment or ACH Credit
transactionAmount	13.89	The amount of the transaction.
transactionDate	03/08/2016 01:16:06 PM	Date and time of the transaction
eventDate	03/10/2016 00:00:00	The date of the event (not necessarily the date Paymentsite was informed of the event).
eventType	Settled	The event status that the updated provided. Sample events types are provided in a table below
transactionStatus	Accepted	The status of the transaction at the time of this event. Sample transaction status values are provided in a table below
settlementStatus	Approved	The settlement status of the transaction. Sample events types are provided in a table below
billingName	<![CDATA[Joe Smith]>	The billing name submitted with the transaction.
orderId	C0A8F979:012E973AC9C:0570:01FBE226	Order identifier. Unique for each order.

Note: additional elements may be added in the future. When coding to interpret responses, parse for fields by name, not by position.

ACH Event Type Table

The following event type / transaction status / settlement status combinations can occur. Additional combinations are possible, but this table includes the vast majority of the combinations.

The main ACH lifecycle is Approved -> Processed -> Originated -> Settled.

eventType value	transactionStaus	settlementStatus
Approved	Approved	To_be_Originated
Approved	Processed	Settled
Approved	Processed	Originated_Settlement_Pending
Approved	Disputed	Charged_Back
Approved	Voided	No_Settlement_Needed
Declined	Declined	No_Settlement_Needed
Declined	Declined	__NONE
Disputed	Disputed	Charged_Back
Disputed	Processed	Settled
Originated	Apporved	To_Be_Originated
Originated	Disputed	Charged_Back
Originated	Invalid__Closed_Account	Charged_Back
Originated	Processed	Originated_Settlement_Pending
Originated	Processed	Originating
Originated	Processed	Settled
Originated	Uncollected_NSF	Charged_Back
Processed	Approved	To_Be_Originated
Processed	Disputed	Charged_Back
Processed	Invalid__Closed_Account	Charged_Back
Processed	Processed	Originating_Settlement_Processing
Processed	Processed	Originating
Processed	Processed	Settled
Processed	Uncollected_NSF	Charged_Back
Processing_Error	In-Research	Charged_Back
Refunded	Resolved	Charged_Back
Resolved	Resolved	No_Settlement_Needed
Returned_Bad_Account	Invalid__Closed_Account	Charged_Back
Returned_NSF	Processed	Settled
Returned_NSF	Uncollected_NSF	Charged_Back
Settled	Approved	To_Be_Originated
Settled	Processed	Originated_Settlement_Processing
Settled	Processed	Originating
Settled	Processed	Settled
Settled	Disputed	Charged_Back
Settled	Invalid__Closed_Account	Charged_Back
Settled	Uncollected_NSF	Charged_Back
Unauthorized	Unauthorized	Charged_Back
Voided	Declined	No_Settlement_Needed
Voided	Processed	Settled

Voided	Resolved	No_Settlement_Needed
Voided	Voided	No_Settlement_Needed

If the report request cannot be processed at the time of the request, the result node will contain the requestToken field, which can be used in the report status request to determine if the report request has completed at a later time. This condition is extremely rare.

Result Set Xml Tag	Sample Value	Description
requestToken	`fSawEgQqNqg=`	The reference name to be used to retrieve report status

Samples for ACH Status Request

Request Sample:

```
<rapi-request>
      <verification>
         <merchantId>12</merchantId>
         <merchantKey>v4e433knnh93p6fgdf1ndjp6</merchantKey>
      </verification>
      <command>transactionAchStatusReport</command>
      <request>
        <filterOptions>
          <period>range</period>
          <pageSize>10</pageSize>
          <startDate>06/01/2017</startDate>
          <endDate>06/08/2017</endDate>
          <startTime>00:00:00</startTime>
          <endTime>23:59:59</endTime>
          <orderByName>transactionDate</orderByName>
          <orderByDirection>desc</orderByDirection>
        </filterOptions>
      </request>
   </rapi-request>
```

Response Sample:

```
<?xml version="1.0" encoding="UTF-8"?><rapi-response>
  <header>
    <errorCode>0</errorCode>
    <errorMsg/>
    <command>transactionAchStatusReport</command>
    <time>09-15-2017 13:42:40</time>
  </header>
  <result>
   <resultSetInfo>
     <totalNumberOfRecords>7</totalNumberOfRecords>
     <pageToken>temp1505508160734.1</pageToken>
     <pageNumber>1</pageNumber>
```

```
  <numberOfPages>2</numberOfPages>
 </resultSetInfo>
 <records>
  <record>
   <transactionId>1458019</transactionId>
   <transactionType>ACH Payment</transactionType>
   <transactionAmount>32.00</transactionAmount>
   <transactionDate>06/14/2017 01:07:07 PM</transactionDate>
   <eventDate>06/14/2017 00:00:00</eventDate>
   <eventType>Approved</eventType>
   <transactionStatus>Approved</transactionStatus>
   <settlementStatus>To_Be_Originated</settlementStatus>
   <billingName><![CDATA[Joe Smith]]></billingName>
   <orderId><![CDATA[17130707928]]></orderId>
  </record>
  <record>
   <transactionId>1458018</transactionId>
   <transactionType>ACH Payment</transactionType>
   <transactionAmount>32.00</transactionAmount>
   <transactionDate>06/14/2017 01:04:47 PM</transactionDate>
   <eventDate>06/15/2017 00:00:00</eventDate>
   <eventType>Processing_Error</eventType>
   <transactionStatus>In_Research</transactionStatus>
   <settlementStatus>Charged_Back</settlementStatus>
   <billingName><![CDATA[Joe Smith]]></billingName>
   <orderId><![CDATA[17130447136]]></orderId>
  </record>
  <record>
   <transactionId>1458016</transactionId>
   <transactionType>ACH Payment</transactionType>
   <transactionAmount>32.00</transactionAmount>
   <transactionDate>06/14/2017 12:52:48 PM</transactionDate>
   <eventDate>06/17/2017 00:00:00</eventDate>
   <eventType>Returned_Bad_Account</eventType>
   <transactionStatus>Invalid__Closed_Account</transactionStatus>
   <settlementStatus>Charged_Back</settlementStatus>
   <billingName><![CDATA[Joe Smith]]></billingName>
   <orderId><![CDATA[17125248351]]></orderId>
  </record>
  <record>
   <transactionId>1457883</transactionId>
   <transactionType>ACH Payment</transactionType>
   <transactionAmount>32.00</transactionAmount>
   <transactionDate>06/07/2017 11:07:30 AM</transactionDate>
   <eventDate>06/10/2017 00:00:00</eventDate>
   <eventType>Returned_NSF</eventType>
   <transactionStatus>Uncollected_NSF</transactionStatus>
   <settlementStatus>Charged_Back</settlementStatus>
   <billingName><![CDATA[Joe Smith]]></billingName>
   <orderId><![CDATA[17110730195]]></orderId>
  </record>
  <record>
```

```
      <transactionId>1457875</transactionId>
      <transactionType>ACH Payment</transactionType>
      <transactionAmount>32.00</transactionAmount>
      <transactionDate>06/05/2017 04:47:18 PM</transactionDate>
      <eventDate>06/06/2017 00:00:00</eventDate>
      <eventType>Settled</eventType>
      <transactionStatus>Processed</transactionStatus>
      <settlementStatus>Settled</settlementStatus>
      <billingName><![CDATA[Joe Smith]]></billingName>
      <orderId><![CDATA[17164717662]]></orderId>
    </record>
    <record>
      <transactionId>1457874</transactionId>
      <transactionType>ACH Payment</transactionType>
      <transactionAmount>32.00</transactionAmount>
      <transactionDate>06/05/2017 04:46:30 PM</transactionDate>
      <eventDate>06/06/2017 00:00:00</eventDate>
      <eventType>Settled</eventType>
      <transactionStatus>Processed</transactionStatus>
      <settlementStatus>Settled</settlementStatus>
      <billingName><![CDATA[Joe Smith]]></billingName>
      <orderId><![CDATA[17164629848]]></orderId>
    </record>
    <record>
      <transactionId>1457872</transactionId>
      <transactionType>ACH Payment</transactionType>
      <transactionAmount>32.00</transactionAmount>
      <transactionDate>06/05/2017 04:39:32 PM</transactionDate>
      <eventDate/>
      <eventType/>
      <transactionStatus/>
      <settlementStatus/>
      <billingName><![CDATA[Joe Smith]]></billingName>
      <orderId><![CDATA[17163931895]]></orderId>
    </record>
   </records>
  </result>
</rapi-response>
```

8.   Transaction Detail Report with Customer Info

The transaction Detail report can be run including fields for saved customers. If a transaction is run using a reference to a customer record previously created on the gateway, that customer info will be included in the report result set.

Fields

Transaction Detail Request Fields

The following fields reside in the verification node:

Verification Xml Tag	Req	Sample Value	Description

merchantId	R	12345	The merchant ID assigned to the gateway account
merchantKey	R	bw33242moij23423m	The API key for the merchant account

The command node will contain only the command tag, with a value of "transactionDetailReport"

<command>transactionCustomerDetailReport</command>

The following fields reside in the request -> filterOptions node

Filter Option Xml Tag	Req	Sample Value	Description
period	R	range	The date range or named period that the report data should span. "range" indicates a specific date range and should be used with the startDate and endDate tags. Possible values are: • range • today • yesterday • lastmonth • thismonth
pageSize	O	25	Max 100
startDate	C	01/01/2016	Required if period is set to "range". Start date for the report, in mm/dd/yyyy format
endDate	C	01/31/2016	Required if period is set to "range". End date for the report, in mm/dd/yyyy format
startTime	O	00:00:00	Start time for the report, in hh:mm:ss (hours 0-23) format
endTime	O	23:59:59	End time for the report, in hh:mm:ss (hours 0-23) format
customerID	O	JBC1200821	Specify to receive transactions associated with a specific customer on file. Pass in the value that was assigned by you to your customer when the customer was created.
orderId	O	C0A8F979:012E973AC9C:0570:01FBE226	Order identifier. Unique for each order.
orderByName	O	transactionDate	Identifies which field is used to order the records by. Valid values are: transactionDate transactionAmount transactionType

			transactionId billingName orderId paymentType status
orderByDirection	O	desc	Identifies the direction in which the records will be ordered. Possible values are asc for ascending desc for descending
startRecordNumber	O	1	Starting record number for the report. Max = 500000. Max 100 record range with endRecordNumber
endRecordNumber	O	10	Ending record number for the report. Max = 500000. Max 100 record range with startRecordNumber
pageToken	O	temp1300904959846.1	Used to retrieve additional pages of a previously run report that contained multiple pages. The token is included in the initial report response. When using a token, use only the page token and page number fields, do not use other filters
pageNumber	O	3	Used with pageToken tag to retrieve records by page number. When using a token, use only the page token and page number fields, do not use other filters

Transaction Customer Detail Response Fields

The response is composed of several main nodes:

- Header
- Result
    - Result Set Info
    - Records

The Header node will contain the following fields

Header Xml Tag	Sample Value	Description
errorCode	0	Indicates success or failure of a report request. If the report request was successful, the errorCode will be 0. If not, another numeric code will be returned.

Header Xml Tag	Sample Value	Description
errorMsg	Invalid Period.	An error message is returned if an error occurs in retrieving the report. Some sample error messages include: "Invalid period", "REQUEST NOT FOUND", "This merchant account is not enabled with the reports API service".
command	transactionCustomerDetailReport	Echoes back the command sent in the request.
time	03-14-2016 12:15:56	Date and time stamp for the report

The Result node will contain the subnodes

- resultSetInfo
- records

The resultSetInfo subnode will contain the following fields:

Result Set Xml Tag	Sample Value	Description
totalNumberofRecords	14	The total number of records included in the requested report.
pageToken	temp1300904959846.1	Token returned by reports request that can be used to get all pages without making additional requests using pageNumber
pageNumber	3	Indicates which page of a multipage report is being returned in this result set
numberOfpages	3	Total number of pages in the requested report.

The record subnode of the resultSetInfo node contains the result records. In the result, for each record in the result set, there will be a record node. Within that node, depending on the transaction types and data available in the report, the following fields may be included in the response:

Record Xml Tag	Sample Value	Description
transactionId	2122567	The system-assigned transaction ID
referenceNumber	IBAH23423	The reference number provided for the transaction, if any
transactionType	Sale	The type of transaction performed. Some of the possible values that may be returned are: Sale, Return, Credit, Authorize, Force, ForceSale
transactionAmount	13.89	The amount of the transaction.
taxAmount	1.45	Amount of sales tax on the transaction.
shippingAmount	4.99	Shipping amount applied to the transaction.

Record Xml Tag	Sample Value	Description
transactionDate	03/08/2016 01:16:06 PM	Date and time of the transaction
orderId	C0A8F979:012E973AC9C:0570:01FBE226	Order identifier. Unique for each order.
userId	Susan123	The user ID of the user who performed the transaction
customerId	123283	The customer ID number of the customer for this transaction
companyName	Johnson Enterprises	The name of the buyer's company associated with this transaction. Often used for business to business transactions where the "customer" is a company.
responseCode	0	A numeric code indicating the response to the reports request. A "0" indicates the request was successful. If you receive a code other than "0", there was an error processing the request.
approvalCode	SSY449	A 6-digit code returned from the processor for a given transaction.
paymentType	(Visa) …1111	Indicates the payment type used for the transaction and the last 4 digits of the payment account number
bankRoutingNumber	123456789	A 9-digit routing number used to identify the bank where the checking account is located
achAccountNumber	239710	Bank account number
avsReponseCode	YYY	Address verification response code. See table below for response definitions.
billingName	John Johnson	Billing name of the person on the payment account.
billingAddress1	123 Main Street	First line of the billing address
billingAddress2	Suite 4	Second line of the billing address
billingCity	Los Angeles	Billing city
billingState	CA	2-length billing state
billingCountry	US	Billing country
billingZip	91020	Billing zip or postal code
billingPhone	(805) 123-2938	Billing phone number
billingEmail	johnjohnson@gmail.com	Billing email address
comments	A present for his wife! Ship ASAP.	Any comments included with the transaction
transactionStatus	Approved	The status of the transaction. If the transaction was successful, it will say "Approved."

Record Xml Tag	Sample Value	Description
transactionState	3	Numeric code indicating the state of the transaction. See table below for possible values.
recurringPaymentFlag	1	Flag to indicate whether this payment was part of a set of recurring payments. The flag will be set to 1 if yes, or 0 if no.
processorReturnedData	Settled Returned Bad Account NSF Originated	The response from the payment processor., important for ACH transactions.
gatewayDebitNetworkID	060004	Response from the processor and used by some Debit Merchants who use the value for settlement purpose
customerFirstName	John	Customer's first name
customerMiddleName	James	Customer's middle name
customerLastName	Johnson	Customer's last name
customerCity	Houston	Customer's city of residence
customerState	TX	Customer's state of residence
customerZip	78122	Customer's zip or postal code
customerCountry	US	Customer's country
customerPhone	(505) 345-9238	Customer's phone number
customerEmail	customer@customer.com	Customer's email address
creditCardType	VISA	The type of credit or debit card used for payment.

Possible values for transactionState

Value	Meaning		Value	Meaning
1	Pending Sale		21	Verified
2	Pending Force Sale		22	Accepted
3	Captured		23	Pending ACH Clearance
4	Pending Capture		24	Pending ACH Settlement
5	Pending Authorize		25	ACH Funded
6	Authorized		26	ACH Settled
7	Declined		27	Pending ACH Research
8	Reversed		28	Pending ACH Export
9	Voided		29	Pending Authentication
10	Settled		30	Authenticated
11	Pending Settlement		31	Pending Repeat Return
12	Pending Review		32	Authentication Started
13	Pending Reversal		33	Submitting Authentication
14	Pending Repeat Capture		34	Viewed

16	Pending Return
17	Pending Credit
18	Pending Void
19	Pending Repeat Void
20	Pending Verification

35	Underpaid
36	Overpaid

Additional Response Fields

In addition to the above fields, depending on the vertical (Healthcare, Property Management, Schools) and the entry method used (API, Hosted Payment Pages, etc), the following fields may also be returned.

Xml Tag	Sample Value	Description
hostedPaymentsCustomField1 hostedPaymentsCustomField2 hostedPaymentsCustomField3 hostedPaymentsCustomField4 hostedPaymentsCustomField5	anything	Custom fields for the merchant's use. These five fields may appear in the response if the transaction was submitted via Hosted Payments and one or more custom fields were used in the transaction.
customField1 customField2 customField3 customField4 customField5	anything	Custom fields for the merchant's use. These five fields may appear in the response if the merchant is using Universal Paymentsite and one or more custom fields were used in the transaction.
program	Booster Club	If the merchant is set up with Paymentsite for Schools, this tag may appear in the response if the program was specified for this transaction.
category	Sports Spirit Packs	If the merchant is set up with Paymentsite for Schools, this tag may appear in the response if the category was specified for this transaction.
subcategory	Football	If the merchant is set up with Paymentsite for Schools, this tag may appear in the response if the subcategory was specified for this transaction.
parentName	John Johnson	If the merchant is set up with Paymentsite for Schools, the parent's name may appear in the response if there was a parent associated with transaction.
studentName	James Johnson	If the merchant is set up with Paymentsite for Schools, the student's name will generally be included in the response.
familyAccountNumber	129387	If the merchant is set up with Paymentsite for Schools, the Family Account Number may be included in the response.

Xml Tag	Sample Value	Description
amount	13.89	If the merchant is set up with Paymentsite for Schools, this tag may be returned. It reflects the amount of the transaction before any convenience fee is applied.
convenienceFee	1.99	If the merchant is set up with Paymentsite for Schools, this tag may be returned. It reflects the amount of the convenience fee.
property	West Ridge Estates	If the merchant is set up with Property Management Paymentsite, this tag may be returned. It reflects the property associated with the transaction.
department	Accounting	If the merchant is set up with Property Management Paymentsite, this tag may be returned. It reflects the department associated with the transaction.
customerPaying	onsite	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Method by which the customer is paying. May be one of the following values: *onsite*, *lockbox*, *mail*, *phone*, *billpay*, *other*
apartmentNumber	34	If the merchant is set up with Property Management Paymentsite, this tag may be returned. The apartment number or unit associated with the transaction.
residentName	John Johnson	If the merchant is set up with Property Management Paymentsite, this tag may be returned. The name of the tenant or resident.
residentStatus	current	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Tenant status. May be one of the following values: *current*, *future*, *vacant*, *past*, *eviction*, *notice*, *notaccept*
leaseRentAmount	1200.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Amount of monthly lease or rent.
balanceForwardAmount	500.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Balanceforward amount.
parkingAmount	35.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Monthly parking amount for this resident.
storageAmount	50.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Storagefees.
hoaFeeAmount	100.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Homeowner's association fees.
lateFeeAmount	10.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Latefee
utilitiesAmount	35.39	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Utilities fees.

Xml Tag	Sample Value	Description
depositAmount	500.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Deposit amount.
applicationAmount	15.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Application fee.
petFeeAmount	15.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Pet fee.
nsfFeeAmount	25.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Nonsufficient funds fee.
otherAmount	50.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Other amount
taxesAmount	12.00	If the merchant is set up with Property Management Paymentsite, this tag may be returned. Amount of taxes on the property.

Note: additional elements may be added in the future. When coding to interpret responses, parse for fields by name, not by position.

If the report request cannot be processed at the time of the request, the result node will contain the requestToken field, which can be used in the report status request to determine if the report request has completed at a later time. This condition is extremely rare.

Result Set Xml Tag	Sample Value	Description
requestToken	fSawEgQqNqg=	The reference name to be used to retrieve report status

Samples for Transaction Customer Detail Report
Request Sample:

```
<rapi-request>
    <verification>
        <merchantId>305</merchantId>
        <merchantKey>v4h763knnh93p6fgdf1ndjp6</merchantKey>
    </verification>
    <command>transactionCustomerDetailReport</command>
    <request>
        <filterOptions>
            <period>range</period>
            <pageSize>10</pageSize>
            <startDate>07/15/2017</startDate>
            <endDate>07/25/2017</endDate>
            <startTime>00:00:00</startTime>
```

```
                    <endTime>23:59:59</endTime>
                    <customerId>TLS2343242</customerId>
                    <orderByName>transactionDate</orderByName>
                    <orderByDirection>desc</orderByDirection>
            </filterOptions>
    </request>
</rapi-request>
```

Response Sample:
```
<?xml version="1.0" encoding="UTF-8"?><rapi-response>
 <header>
   <errorCode>0</errorCode>
   <errorMsg/>
   <command>transactionCustomerDetailReport</command>
   <time>09-15-2017 13:42:41</time>
 </header>
 <result>
  <resultSetInfo>
    <totalNumberOfRecords>1</totalNumberOfRecords>
    <pageToken>temp1505508161192.1</pageToken>
    <pageNumber>1</pageNumber>
    <numberOfPages>1</numberOfPages>
  </resultSetInfo>
  <records>
   <record>
     <transactionId>1470531</transactionId>
     <referenceNumber><![CDATA[1]]></referenceNumber>
     <transactionType>Sale</transactionType>
     <transactionAmount>10.00</transactionAmount>
     <taxAmount>0.00</taxAmount>
     <shippingAmount>0.00</shippingAmount>
     <transactionDate>07/21/2017 01:46:33 PM</transactionDate>
     <orderId><![CDATA[23432423424234]]></orderId>
     <splitPaymentOrderId/>
     <userId>305admin</userId>
     <customerId><![CDATA[TLS2343242]]></customerId>
     <companyName/>
     <responseCode>0</responseCode>
     <approvalCode>123456</approvalCode>
     <paymentType>(Mastercard) ...5454</paymentType>
     <bankRoutingNumber/>
     <achAccountNumber/>
     <avsResponseCode>YYY</avsResponseCode>
     <billingName><![CDATA[Mary Smith]]></billingName>
     <billingAddress1><![CDATA[123 Main St]]></billingAddress1>
     <billingAddress2/>
     <billingCity>Roseville</billingCity>
```

```
        <billingState>CA</billingState>
        <billingCountry>US</billingCountry>
        <billingZip>98543</billingZip>
        <billingPhone/>
        <billingEmail><![CDATA[mary@example.com]]></billingEmail>
        <comments/>
        <transactionStatus>Approved</transactionStatus>
        <transactionState/>
        <recurringPaymentFlag/>
        <processorReturnedData/>
        <gatewayDebitNetworkID/>
        <customerFirstName>Mary</customerFirstName>
        <customerMiddleName/>
        <customerLastName>Smith</customerLastName>
        <customerCity>Roseville</customerCity>
        <customerState>CA</customerState>
        <customerZip>98543</customerZip>
        <customerCountry>US</customerCountry>
        <customerPhone/>
        <customerEmail>mary@example.com</customerEmail>
        <creditCardType>MASTERCARD</creditCardType>
        <customField1/>
        <customField2/>
        <customField3/>
        <customField4/>
        <customField5/>
      </record>
    </records>
   </result>
  </rapi-response>
```

9.   Customer Report

The customer report includes saved Customer Record details. Filter options for the Customer Report are different than for transaction related reports.

Fields

Transaction Detail Request Fields

The following fields reside in the verification node:

Verification Xml Tag	Req	Sample Value	Description
merchantId	R	12345	The merchant ID assigned to the gateway account

merchantKey	R	bw33242moij23423m	The API key for the merchant account

The command node will contain only the command tag, with a value of "customerReport"

        `<command>customerReport</command>`

For this report, the filterOptions subnode has an additional subnode called "match".

The following fields reside in the request -> filterOptions node

Filter Option Xml Tag	Req	Sample Value	Description
match->option	O	starts_with	Used to indicate how to match the data passed in the Value field • starts_with • ends_with
match->field	C	lastName	Required if Option is used. • lastName • firstName
match->value	C	col	Required if Option is used. The partial or total name, either first or last. This data will be cast to all upper case for comparisons.
pageSize	O	25	Max 100
orderByName	O	transactionDate	Identifies which field is used to order the records by. Valid values are: transactionDate transactionAmount transactionType transactionId billingName orderId paymentType status
orderByDirection	O	desc	Identifies the direction in which the records will be ordered. Possible values are asc for ascending desc for descending
startRecordNumber	O	1	Starting record number for the report. Max = 500000. Max 100 record range with endRecordNumber
endRecordNumber	O	10	Ending record number for the report. Max = 500000. Max 100 record range with startRecordNumber
pageToken	O	temp1300904959846.1	Used to retrieve additional pages of a previously run report that contained

			multiple pages. The token is included in the initial report response. When using a token, use only the page token and page number fields, do not use other filters
pageNumber	O	3	Used with pageToken tag to retrieve records by page number. When using a token, use only the page token and page number fields, do not use other filters

Customer Report Response Fields

The response is composed of several main nodes:

- Header
- Result
  - Result Set Info
  - Records

The Header node will contain the following fields

Header Xml Tag	Sample Value	Description
errorCode	0	Indicates success or failure of a report request. If the report request was successful, the errorCode will be 0. If not, another numeric code will be returned.
errorMsg	Invalid Period.	An error message is returned if an error occurs in retrieving the report. Some sample error messages include: "Invalid period", "REQUEST NOT FOUND", "This merchant account is not enabled with the reports API service".
command	transactionCustomerDetailReport	Echoes back the command sent in the request.
time	03-14-2016 12:15:56	Date and time stamp for the report

The Result node will contain the subnodes

- resultSetInfo
- records

The resultSetInfo subnode will contain the following fields:

Result Set Xml Tag	Sample Value	Description
totalNumberofRecords	14	The total number of records included in the requested report.
pageToken	temp1300904959846.1	Token returned by reports request that can be used to get all pages without making additional requests using pageNumber

Result Set Xml Tag	Sample Value	Description
pageNumber	3	Indicates which page of a multipage report is being returned in this result set
numberOfpages	3	Total number of pages in the requested report.

The record subnode of the resultSetInfo node contains the result records. In the result, for each record in the result set, there will be a record node. Within that node, depending on the transaction types and data available in the report, the following fields may be included in the response:

Xml Tag	Sample Value	Description
customerFirstName	John	Customer's first name
customerMiddleName	James	Customer's middle name
customerLastName	Johnson	Customer's last name
customerCity	Houston	Customer's city of residence
customerState	TX	Customer's state of residence
customerZip	78122	Customer's zip or postal code
customerCountry	US	Customer's country
customerPhone	(505) 345-9238	Customer's phone number
customerEmail	customer@customer.com	Customer's email address
customerId	<![CDATA[62080]]>	The gateway assigned customer ID
customerIdExt	<![CDATA[Suz2343242]]>	The merchant assigned customer ID. This value is used to filter transaction reports by customerId.

If the report request cannot be processed at the time of the request, the result node will contain the requestToken field, which can be used in the report status request to determine if the report request has completed at a later time. This condition is extremely rare.

Result Set Xml Tag	Sample Value	Description
requestToken	fSawEgQqNqg=	The reference name to be used to retrieve report status

Samples for Customer Request

Request Sample:

```
<rapi-request>
    <verification>
            <merchantId>12</merchantId>
            <merchantKey>2noi233sdf987</merchantKey>
    </verification>
    <command>customerReport</command>
    <request>
        <filterOptions>
```

```
      <match>
         <option>starts_with</option>
         <field>lastName</field>
         <value>Col</value>
      </match>
      <pageSize>10</pageSize>
      <orderByName>lastName</orderByName>
      <orderByDirection>asc</orderByDirection>
    </filterOptions>
  </request>
</rapi-request>
```

Response Sample:

```
<?xml version="1.0" encoding="UTF-8"?><rapi-response>
 <header>
  <errorCode>0</errorCode>
  <errorMsg/>
  <command>customerReport</command>
  <time>09-15-2017 13:42:41</time>
 </header>
 <result>
  <resultSetInfo>
   <totalNumberOfRecords>1</totalNumberOfRecords>
   <pageToken>temp1505508161771.1</pageToken>
   <pageNumber>1</pageNumber>
   <numberOfPages>1</numberOfPages>
  </resultSetInfo>
  <records>
   <record>
    <customerFirstName>Mary</customerFirstName>
    <customerMiddleName/>
    <customerLastName>Coleman</customerLastName>
    <customerAddress>123 Main St</customerAddress>
    <customerAddress2/>
    <customerCity>Roseville</customerCity>
    <customerState>CA</customerState>
    <customerZip>98543</customerZip>
    <customerCountry>US</customerCountry>
    <customerPhone/>
    <customerEmail>mary@example.com</customerEmail>
    <customerId><![CDATA[62080]]></customerId>
    <customerIdExt><![CDATA[S2343242]]></customerIdExt>
   </record>
  </records>
 </result>
</rapi-response>
```

10. Transaction Report Status Request

The transaction report status request is used to check if a prior report request has completed. In vary rare occasions, a report request may not be able to be completed in an immediate execute. In such a case, the report response would include a requestToken in the result node.

Fields

Check Report Status Request Fields

The following fields reside in the verification node:

Verification Xml Tag	Req	Sample Value	Description
merchantId	R	12345	The merchant ID assigned to the gateway account
merchantKey	R	bw33242moij23423m	The API key for the merchant account

The command node will contain only the command tag, with a value of "checkRequestStatusCommand"

<command> checkRequestStatusCommand </command>

The following field resides in the request -> filterOptions node

Filter Option Xml Tag	Req	Type	Sample Value	Description
requestToken	R	AN	fSawEgQqNqg=	Alpha numeric token returned by request if the execution is deferred when the system is too busy. This token would be passed into follow-up requests with the command checkRequestStatusCommand

Check Report Status Response Fields

The response is composed of several main nodes:

- Header
- Result
  - Result Set Info
  - Records

The Header node will contain the following fields

Header Xml Tag	Sample Value	Description
errorCode	0	Indicates success or failure of a report request. If the report request was successful, the errorCode will be 0. If not, another numeric code will be returned.
errorMsg	Invalid Period.	An error message is returned if an error occurs in retrieving the report. Some sample error messages include: "Invalid period", "REQUEST NOT FOUND", "This merchant account is not enabled with the reports API service".
command	transactionCustomerDetailReport	Echoes back the command sent in the request.
time	03-14-2016 12:15:56	Date and time stamp for the report

The Result node will contain the subnodes

- statusMessage
- resultSetInfo

Status Message Xml Tag	Sample Value	Description
statusMessage	REQUEST PROCESSED	The status of processing the requested report. Can be: REQUEST PROCESSED REQUEST NOT PROCESSED REQUEST NOT FOUND

If the request was processed, the resultSetInfo subnode will contain the following fields:

Result Set Xml Tag	Sample Value	Description
totalNumberofRecords	14	The total number of records included in the requested report.
pageToken	temp1300904959846.1	Token returned by reports request that can be used to get all pages without making additional requests using pageNumber
processedTime	3	Indicates which page of a multipage report is being returned in this result set
numberOfpages	3	Total number of pages in the requested report.

Samples for Check Report Status

Request Sample:

```
<rapi-request>
    <verification>
        <merchantId>12</merchantId>
        <merchantKey>key</merchantKey>
    </verification>
    <command>checkRequestStatus</command>
```

```
                    <request>
                            <requestToken>fSawEgQqNqg=</requestToken>
                    </request>
              </rapi-request>
```

Response Sample:
```
    <rapi-response>
          <header>
                  <errorCode>0</errorCode>
                  <errorMsg/>
                  <command>checkRequestStatusCommand</command>
                  <time>03-24-2016 15:45:42</time>
          </header>
          <result>
                  <statusMessage>REQUEST PROCESSED</statusMessage>
                  <resultSetInfo>
                          <totalNumberOfRecords>150</totalNumberOfRecords>
                          <pageToken>temp1300919096768.1</pageToken>
                          <processedTime>03-23-2016 15:24:56</processedTime>
                  </resultSetInfo>
          </result>
    </rapi-response>
```

11. Additional Code Samples

These code samples may apply to several different report commands.

Variations on filterOptions approaches

The request -> filterOptions section of request XML can be used in the following ways.

Example of a request for yesterdays transactions, limited records and sort order

```
<request>
    <filterOptions>
        <period>yesterday</period>
        <startRecordNumber>1</startRecordNumber>
        <endRecordNumber>10</endRecordNumber>
        <orderByName>transactionDate</orderByName>
        <orderByDirection>desc</orderByDirection>
    </filterOptions>
</request>
```

Example of a request using a range of dates

```
<request>
    <filterOptions>
        <period>range</period>
        <pagesize>25</pagesize>
        <startDate>01/01/2016</startDate>
        <endDate>12/31/2016</endDate>
```

```
        <startTime>00:00:00</startTime>
        <endTime>23:59:59</endTime>
        <orderByName>transactionDate</orderByName>
         <orderByDirection>desc</orderByDirection>
    </filterOptions>
</request>
```

Example of a request for a specific transaction by transaction ID

```
    <request>
        <filterOptions>
            <transactionId>7825</transactionId>
        </filterOptions>
     </request>
```

Example of a request for a specific page of a report previously run

```
    <request>
      <filterOptions>
         <pageToken>temp1300904959846.1</pageToken>
         <pageNumber>3</pageNumber>
      </filterOptions>
    </request>
```

12.   Fraud Protection: AVS Response Code Meanings

The address verification system (AVS) is a best practice fraud protection measure provided with Paymentsite solutions. The reports response records will often include response AVS codes that are intended to help merchants determine whether or not they wish to accept the transaction.

The AVS response is passed in a report in the `<avsResponseCode>` tag. The values that are passed may be any of those shown in the table below.

Code	Alternates	Meaning
YYY	Y, YYA, YYD	Address: Match & 5 Digit Zip: Match
NYZ	Z	Address: No Match & 5 Digit Zip: Match
YNA	A, YNY	Address: Match & 5 Digit Zip: No Match
NNN	N, NN	Address: No Match & 5 Digit Zip: No Match
YYX	X	Address: Match & 9 Digit Zip: Match
NYW	W	Address: No Match & 9 Digit Zip: Match
XXW		Card Number Not On File
XXU		Address Information not verified for domestic transaction
XXR	R, U, E	Retry / System Unavailable
XXS	S	Service Not Supported
XXE		Address Verification Not Allowed For Card Type
XXG	G,C,I	Global Non-AVS participant

Each of the digits in the AVS response has a meaning as well:

AVS CODE	DESCRIPTION
A	The street address matches, but the 5-digit ZIP code does not
B	Address information was not submitted in the transaction information, so AVS check could not be performed
E	The AVS data provided is invalid, or AVS is not allowed for the card type submitted
G	The credit card issuing bank is of non-U.S. origin and does not support AVS
N	Neither the street address nor the 5-digit ZIP code matches the address and ZIP code on file for the card
P	AVS is not applicable for this transaction
R	AVS was unavailable at the time the transaction was processed. Retry transaction
S	The U.S. card issuing bank does not support AVS
U	Address information is not available for the customer's credit card
W	The 9-digit ZIP code matches, but the street address does not match
Y	The street address and the first 5 digits of the ZIP code match perfectly