

# Methodology

## Query

### Overview

While our online reporting interface allows merchants to quickly and easily retrieve detailed information about past transactions, a need for additional flexibility may be required. For example, a merchant may have custom accounting software that requires up-to-date information about the settlement status of all credit card transactions every day.

This document describes how developers can query our reporting engine directly to retrieve transaction reports in a machine readable format. Once the data has been retrieved, it can then be parsed and imported into a variety of software applications.

### Communication

The communication protocol used to send messages to the Payment Gateway is through the HTTP protocol over an SSL connection (HTTPS). The format you must use is name/value pairs delimited by ampersand.

URL: <https://secure.tnbcgateway.com/api/query.php>

Example Query String: `username=demo&password=password&transaction_id=123456789`

You may use either GET or POST to pass your request to the Query API. The name/value pairs that are accepted by the Payment Gateway can be found in the 'Variables' section of this API.

## Variables

### Query

Variable Name	Description(Allowed Values)[Format]
username*	Merchant username.
password*	Merchant password.
condition	A combination of values listed below can be passed and should be separated by commas. For example, to retrieve all transactions pending settlement or complete, the following could be used:  Example: <code>condition=pendingsettlement,complete</code> pending: 'Auth Only' transactions that are awaiting capture. pendingsettlement: This transaction is awaiting settlement. failed: This transaction has failed. canceled: This transaction has been voided. complete: This transaction has settled.

unknown: An unknown error was encountered while processing this transaction.

transaction_type	<p>Retrieves only transactions with the specified transaction type. Use one of the following to specify payment type:</p> <p>cc: A credit card transaction.</p> <p>ck: A check transaction.</p> <p>Retrieves only transactions specified action types. A combination of the values can be used and should be separated by commas. For example, to retrieve all transactions with credit or refund actions, use the following:</p> <p>Example: action_type=refund,credit</p> <p>sale: Sale transactions.</p> <p>refund: Refund transactions.</p> <p>credit: Credit transactions.</p> <p>auth: 'Auth Only' transactions.</p> <p>capture: Captured transactions.</p> <p>void: Voided transactions.</p> <p>return: Electronic Check (ACH) transactions that have returned before (return) or after settlement (late_return).</p>
action_type	<p>Specify a transaction ID or a comma separated list of transaction IDs to retrieve information on.</p>
transaction_id	<p>Retrieves only transactions with the specified Order ID.</p>
order_id	<p>Retrieves only transactions with the specified last name.</p>
last_name	<p>Retrieves only transactions with the specified billing email address.</p>
email	<p>Retrieves only transactions with the specified credit card number. You can use either the full number or the last 4 digits of the credit card number.</p>
cc_number	<p>Retrieves only transactions with the specified merchant defined field value. Replace the '#' with a field number (e.g. merchant_defined_field_12=value)</p>
merchant_defined_field_#	<p>Only transactions that have been modified on or after this date will be retrieved. Note that any actions performed on a transaction will cause the modified date to be updated.</p>
start_date	<p>Format: YYYYMMDDhhmmss</p> <p>Only transactions that have been modified on or before this date will be retrieved. Note that any actions performed on a transaction will cause the modified date to be updated.</p>
end_date	<p>Format: YYYYMMDDhhmmss</p>

report_type	<p>Allows customer vault information or a html receipt to be returned. If you would like to query the Customer Vault to view what customer information is stored in the Customer Vault, you must set the customer_vault variable.</p> <p>If you omit the customer_vault_id, the system will return all customers that are stored in the vault. If you include a customer_vault_id, it will return the customer record associated with that ID.</p> <p>Example: report_type=customer_vault&amp;customer_vault_id=123456789</p> <p>receipt: Will return an html receipt for a specified transaction id.</p> <p>customer_vault: Set the Query API to return Customer Vault data.</p> <p>Retrieves only transactions processed using the specified mobile device. The device IDs for this parameter are available in the License Manager. Use 'any_mobile' to retrieve all mobile transactions.</p>
mobile_device_license	<p>A combination of the values can be used and should be separated by commas. Can not be used with 'mobile_device_nickname'.</p> <p>Example 1: mobile_device_license=D91AC56A-4242-3131-2323-2AE4AA6DB6EB</p> <p>Example 2: mobile_device_license=any_mobile</p> <p>Retrieves only transactions processed using mobile devices with the specified nickname.</p>
mobile_device_nickname	<p>The nicknames for this parameter are available in the License Manager. Can not be used with 'mobile_device_license'.</p> <p>Example (URL encoded): mobile_device_nickname=Jim's%20iPhone</p>
customer_vault_id	<p>Set a specific Customer Vault record. Should only be used when report_type=customer_vault.</p>

## Sample Response Query

```

<nm_response>
  <transaction>
    <transaction_id>1816519681</transaction_id>
    <platform_id></platform_id>
    <transaction_type>cc</transaction_type>
    <condition>pendingsettlement</condition>
    <order_id></order_id>
    <authorization_code>123456</authorization_code>
    <ponumber></ponumber>
    <order_description></order_description>
    <first_name></first_name>
    <last_name></last_name>
    <address_1></address_1>
    <address_2></address_2>
    <company></company>
    <city></city>
    <state></state>
    <postal_code></postal_code>
    <country>US</country>
    <email></email>
  </transaction>
</nm_response>

```

<phone></phone>  
<fax></fax>  
<cell\_phone></cell\_phone>  
<customertaxid></customertaxid>  
<customerid></customerid>  
<website></website>  
<shipping\_first\_name></shipping\_first\_name>  
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<shipping\_phone></shipping\_phone>  
<cc\_number>4xxxxxxxxxxx1111</cc\_number>  
<cc\_hash>f6c609e195d9d4c185dcc8ca662f0180</cc\_hash>  
<cc\_exp>1213</cc\_exp>  
<cavv></cavv>  
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<csc\_response></csc\_response>  
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<cc\_issue\_number></cc\_issue\_number>  
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<drivers\_license\_dob></drivers\_license\_dob>  
<social\_security\_number></social\_security\_number>  
<processor\_id>ccprocessora</processor\_id>  
<tax>0.00</tax>  
<currency>USD</currency>  
<surcharge>2.50</surcharge>  
<tip></tip>  
<cc\_bin>411111</cc\_bin>  
<action>  
    <amount>17.50</amount>  
    <action\_type>sale</action\_type>  
    <date>20130218204917</date>  
    <success>1</success>  
    <ip\_address>50.76.64.233</ip\_address>  
    <source>mobile</source>  
    <username>demo</username>  
    <response\_text>SUCCESS</response\_text>  
    <batch\_id>0</batch\_id>

```
<processor_batch_id></processor_batch_id>
<response_code>100</response_code>
<device_license_number>D91AC56A-4242-3131-2323-2AE4AA6DB6EB</device_
<device_nickname>Sam's iPhone</device_nickname>
</action>
</transaction>
</nm_response>
```