

Introduction to the Query API

Our [Reporting System](#) is extremely powerful, allowing merchants to quickly and easily retrieve detailed information about past transactions. To facilitate merchants that need transaction reports in a machine readable format, our reporting system is capable of displaying results in CSV format.

While this system allows convenient web-based access to transaction histories, certain situations may call for automated access to this same information. 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.

One option would be to manually download a transaction report using our web-based reporting system. This report could then be imported into the accounting system manually every day. A better solution may be to utilize our Query API, which allows for XML transaction reports to be retrieved using a simple GET or POST interface.

Passing a request to the Query API

Our query interface is available through the following url:

`https://secure.nationalprocessinggateway.com/api/query.php`

You may use either GET or POST to pass your request to the Query API. The following name/value pairs can be accepted in your request. The username and password are the only arguments that are required.

Name	Value
username	Merchant username
password	Merchant password
transaction_id	Specify a transaction ID (or a comma separated list of transaction IDs) to retrieve information only on specific transaction(s).
order_id	Retrieves only transactions with the specified order ID.
last_name	Retrieves only transactions with the specified last name.
email	Retrieves only transactions with the specified billing email address.
cc_number	Retrieves only transactions with the specified credit card number. You can use either the full number or the last 4 digits of the number.
start_date	Only transactions that have been modified on or after this date will be retrieved. Note that any actions performed on a transaction (ie. a VOID) will case the modified date to be updated.
end_date	Only transactions that have been modified on or before this date will be retrieved. Note that any actions performed on a transaction (ie. a VOID) will case the modified date to be updated.
condition	Retrieves only transactions with the specified transaction condition.
	pending "Auth Only" transactions that are awaiting capture will be in this condition.
	pendingsettlement The transaction is awaiting settlement.
	failed The transaction has permanently failed.
	canceled The transaction has been voided.
	complete The transaction has been settled.
	unknown This means a serious error was encountered while processing the transaction.

A combination of the values above can be used, and should be separated by commas. For example, to retrieve all transactions pending settlement or complete, the following could be used:

`condition=pendingsettlement,complete`

Put in your request the condition with the specified transaction type. The name of the condition is:

Retrieves only transactions with the specified transaction type. Use one or the following codes to designate transaction type:

transaction_type	Code	Status
	cc	Credit Card Transaction
	ck	Check Transaction

Retrieves only transactions with the specified action types.

	sale
	refund
	credit
	auth
action_type	capture
	void

A combination of the values above can be used, and should be separated by commas. For example, to retrieve all transactions with credit or refund actions, use the following:

```
action_type=refund,credit
```

Retrieving a response from the Query API

After you've submitted your request using either GET or POST, our system will respond with a set of transactions in XML format. The example below shows what a response might look like:

```
<?xml version="1.0" encoding="UTF-8"?>
<nm_response>
  <transaction>
    <transaction_id>10650893</transaction_id>
    <transaction_type>cc</transaction_type>
    <condition>canceled</condition>
    <order_id></order_id>
    <authorization_code>123456</authorization_code>
    <first_name>Bob</first_name>
    <last_name>McManus</last_name>
    <address_1>888 Example Drive</address_1>
    <address_2>Apt #2</address_2>
    <company>Visaman's Company</company>
    <city>Los Angeles</city>
    <state>CA</state>
    <postal_code>92858</postal_code>
    <country>US</country>
    <email>bob@example.org</email>
    <phone>8888888888</phone>
    <fax>8888888888</fax>
    <shipping_first_name>Bob</shipping_first_name>
    <shipping_last_name>McManus</shipping_last_name>
    <shipping_address_1>888 Example Drive</shipping_address_1>
    <shipping_address_2>Apt #2</shipping_address_2>
    <shipping_company>Visaman's Company</shipping_company>
    <shipping_city>Los Angeles</shipping_city>
    <shipping_state>CA</shipping_state>
    <shipping_postal_code>92858</shipping_postal_code>
    <shipping_country>US</shipping_country>

    <shipping_email>bob@example.org</shipping_email>
```

```

<cc_number>4xxxxxxxxxxx1111</cc_number>
<cc_exp>0707</cc_exp>
<action>
  <amount>10.00</amount>
  <action_type>sale</action_type>
  <date>20050914194504</date>
  <success>1</success>
</action>
<action>
  <amount>10.00</amount>
  <action_type>void</action_type>
  <date>20050914195508</date>
  <success>1</success>
</action>
</transaction>
<nm_response>

```

There may be multiple transactions per response, and multiple actions per transaction. Most of the fields are self explanatory. The table below has a more detailed description of fields that may not have a clear meaning upon first glance:

Element Name Description

The current condition of the transaction. See the table below for explanations:

condition	pending	"Auth Only" transactions that are awaiting capture will be in this condition.
	pendingsettlement	The transaction is awaiting settlement.
	failed	The transaction has permanently failed.
	canceled	The transaction has been voided.
	complete	The transaction has been settled.
	unknown	This means a serious error was encountered while processing the transaction.

The transaction type. One of the following:

transaction_type	cc	Credit Card transaction
	ck	Check transaction

action This element holds information about an action performed on a transaction. A single transaction can have multiple actions. In the example above, there are two actions: a sale and a void.
The action type. One of the following:

action_type	auth
	capture
	sale
	offline
	credit
	refund
	void
	check_return check_late_return

paper_draft
ach_noc
disbursement_draft

date The date that the action was processed in the format YYYYMMDDHHMMSS. The date is in UTC format.
success Whether the action was successful. 1 for success, 0 for failure.

Handling errors

If the Query API encounters any problems during its operation, an error response will be returned. The example response below was returned when an invalid merchant username was supplied in the request:

```
<?xml version="1.0"?>  
<nm_response>  
  <error_response>Invalid Username/Password</error_response>  
</nm_response>
```

No matches

If there are no transactions found matching your criteria, it is not considered an error. An empty nm_response element will be returned.

```
<?xml version="1.0"?>  
<nm_response>  
</nm_response>
```