NMI Query API

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Contents

Overview

Query API

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.

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

You must use the POST method to pass your request to the Query API. Listed below are the name/value pairs that can be accepted in your request. The username and password are the only arguments that are required.

Query API Variables

Variable name	Required	Values		Description
username	Required			Merchant username
password	Required			Merchant password
transaction_id	Recommended			Specify a transaction ID (or a comma separated list of transaction IDs) to retrieve information on
order_id	*Optional*			Retrieves only transactions with the specified Order ID
last_name	*Optional*			Retrieves only transactions with the specified last name
email	*Optional*			Retrieves only transactions with the specified billing email address
cc_number	*Optional*			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
merchant_defined_field_x	*Optional*			*(merchant_defined_field_1,merchant_defined_field_2, etc..)*
start_date	*Optional*			Only transactions that have been modified on or after this date will be retrieved. Note that any actions performed on a transaction (ie VOID) will cause the modified date to be updated.
end_date	*Optional*			Only transactions that have been modified on or before this date will be retrieved. Note that any actions performed on a transaction (ie VOID) will cause the modified date to be updated.
condition	*Optional*		A combination of the 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: condition=pendingsettlement,complete	
		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	*Optional*		Retrieves only transactions with the specified transaction type. Use one of the following to specify payment type: Example: transaction_type=cc	
		cc	Credit Card Transaction	
		ck	Check Transaction	

action_type	*Optional*	Retrieves only transactions with 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: Example: action_type=refund,credit

	sale	Sale transactions
	refund	Refund transactions
	credit	Credit transactions
	auth	'Auth Only' transactions
	capture	Captured transactions
	void	Voided transactions
	settle	Settled transactions

report_type	*Optional*	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 operator. 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. Example: report_type=customer_vault&customer_vault_id=123456789
	Required	customer_vault	Set the Query API to return Customer Vault data.
	Optional	customer_vault_id	Set a specific Customer record

Transaction POST URL

Query API requests should be POST'ed to the following URL:

POST URL	https://secure.networkmerchants.com/api/query.php

Unlock Payment Information

If you are a PCI Compliant merchant, you can unlock payment information using the Query API. The functionality described below is disabled by default for security purposes. If you are interested in utilizing the feature, please contact support to get information on activating this feature.

Unlock Payment requests should be POST'ed to the following *special* URL:

Transaction Unlock URL	https://secure.nmi.com/api/fetch_full.php

Variable name	Required	Description
username	Required	Merchant username
password	Required	Merchant password
key	Required	Merchant Unlock Key *(assigned by the payment gateway)*
transaction_id	Required**	
customer_vault_id	Required**	The name on the customer's ACH Account.

***You can only unlock based on a transaction_id **OR** a customer_vault_id in a single request.*

Example Response Format

(There may be multiple transactions per response, and multiple actions per transaction.)

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<nm_response>
  <transaction>
    <transaction_id>759584282</transaction_id>
    <platform_id />
    <transaction_type>cc</transaction_type>
    <condition>pendingsettlement</condition>
    <order_id>48295123</order_id>
    <authorization_code>123456</authorization_code>
    <ponumber>11113</ponumber>
    <order_description>This is a Test Order</order_description>
    <first_name>John</first_name>
    <last_name>Smith</last_name>
    <address_1>1234 Main St.</address_1>
    <address_2>Suite 1</address_2>
    <company>Test Company</company>
    <city>Chicago</city>
    <state>IL</state>
    <postal_code>60193</postal_code>
    <country>US</country>
    <email>test@example.com</email>
    <phone>888-555-1212</phone>
    <fax />
    <cell_phone />
    <customertaxid />
    <customerid>00001</customerid>
    <website />
    <shipping_first_name>John</shipping_first_name>
    <shipping_last_name>Smith</shipping_last_name>
    <shipping_address_1>1234 Main St.</shipping_address_1>
    <shipping_address_2>Suite 1</shipping_address_2>
    <shipping_company />
    <shipping_city>Chicago</shipping_city>
    <shipping_state>IL</shipping_state>
    <shipping_postal_code>60193</shipping_postal_code>
    <shipping_country />
    <shipping_email>test@example.com</shipping_email>
    <shipping_carrier />
    <tracking_number />
    <shipping_date />
    <shipping />
    <cc_number>4xxxxxxxxxxx1111</cc_number>
    <cc_hash>f6c609e195d9d4c185dcc8ca662f0180</cc_hash>
    <cc_exp>1010</cc_exp>
    <cavv />
    <cavv_result />
    <xid />
    <avs_response>N</avs_response>
    <csc_response>N</csc_response>
    <cardholder_auth />
    <check_account />
    <check_hash />
    <check_aba />
    <check_aba />
    <check_name />
    <account_holder_type />
    <account_type />
    <sec_code />
    <processor_id>default</processor_id>
    <tax />
    <merchant_defined_field id="1">Defined Field 1</merchant_defined_field>
    <merchant_defined_field id="2">Defined Field 2</merchant_defined_field>
    <cc_bin>411111</cc_bin>
    <product>
      <sku>ABC</sku>
      <quantity>1</quantity>
      <description>Product Description</description>
      <amount>10.00</amount>
    </product>
    <action>
      <amount>10.00</amount>
      <action_type>sale</action_type>
      <date>20080710055627</date>
      <success>1</success>
      <ip_address>192.168.0.1</ip_address>
      <source>api</source>
      <username>test123</username>
      <response_text>SUCCESS</response_text>
    </action>
  </transaction>
</nm_response>
```