

# Merchant Web Services API

Merchant Boarding

XML Guide

November 2011

**Authorize.Net<sup>®</sup>**  
a CyberSource solution

Authorize.Net Developer Support  
<http://developer.authorize.net>  
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The logo for Authorize.Net, featuring the brand name in a large, blue, serif font. Below it, the text "a CyberSource solution" is written in a smaller, grey, sans-serif font. The entire logo is set against a light grey rectangular background.

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# Revision History

<b>Publish Date</b>	<b>Updates</b>
November 2011	Added the <code>getHostedMerchantActivationSurveyRequest</code> and <code>getMerchantActivationStatusRequest</code> functions and their responses. New Overview section added to the Developer Introduction. New document format.
August 2011	Added the <code>getMerchantActivationLinkRequest</code> function. Added the <code>sendActivatoinEmail</code> parameter to the <code>resellerCreateMerchantRequest</code> function.
August 2010	Added <code>billAtAccountCreation</code> field. Added the <code>ActivationEmailBCCList</code> field. Added the <code>billAtAccountCreationSettable</code> field to the <code>getResellerServicesResponse</code> function.
February 2010	Updated the error code table.
May 2009	Removed Merchant Service 1, added service 19 (Advanced Fraud Detection Service).
October 2008	Initial Release of Merchant Boarding API.

# Developer Introduction

This guide describes the Web development required to add new merchants to the Authorize.Net Reseller Interface directly from a website or other application that uses eXtensible Markup Language (XML). This guide is directed to the individuals who manage a reseller website. Knowledge of XML is assumed.

The merchant Boarding Application Programming Interface (API) provides a mechanism for developers and resellers to add new merchants to the Reseller Interface through direct integration between client software or applications and the Authorize.Net Payment Gateway.

The API offers functions that require an XML call and send an XML response.



**Note**

Resellers should avoid storing any type of sensitive cardholder information. However, if they must store sensitive customer business or payment information, they must comply with industry standard storage requirements. See the *Developer Security Best Practices White Paper* at <http://www.authorize.net/files/developerbestpractices.pdf> for guidelines.

## Overview

Setting up a merchant account involves the following steps:

- Step 1** The merchant enters information on the reseller website.
- Step 2** The reseller calls the `resellerCreateMerchantRequest` function. In this call, the reseller can specify whether or not to send an activation email to the merchant. The email contains a link to the payment gateway so that the merchant can complete the registration process in the Authorize.Net merchant interface. This API call returns a merchant ID.
- Step 3** The reseller selects one of the following actions:

**Table 1 Merchant boarding options**

Option	Action
Reseller calls the <code>resellerCreateMerchantRequest</code> function with the <code>sendActivationEmail</code> field set to true.	The merchant receives a customized email containing a link that directs them to the Authorize.Net merchant interface to complete the application.

**Table 1 Merchant boarding options (Continued)**

Option	Action
Reseller places an activation link on their own website,	Merchant clicks the link, which directs them to the Authorize.Net merchant interface to complete the application.
The reseller implements the hosted option	<p>A link on the reseller website directs the merchant to the hosted Authorize.Net survey page that enables the merchant to complete the application. After the application is complete, the merchant is returned to the reseller website.</p> <p>The activation link to the merchant interface can be sent immediately or at a later time.</p>

The following API functions support the third (hosted) option:

- `getHostedMerchantActivationSurveyRequest`—this function returns a token which, when posted to Authorize.Net, directs the merchant to the first page of the hosted survey.
- `getMerchantActivationStatusRequest`—this function indicates whether or not the merchant has successfully completed the hosted survey pages. The status returned can help the reseller direct the merchant to other pages, depending on whether the application was incomplete, accepted, or canceled.
- `getMerchantActivationLinkRequest`—this function returns an activation link that directs the merchant to the Authorize.Net merchant interface. The link can be placed on the reseller's website or emailed to the merchant by Authorize.Net.

For more detailed instructions on how to use these functions, see ["Executing an API Call," page 3](#).

# Executing an API Call

The following sections describe the minimum requirements for executing an API call for a merchant boarding request using XML.

You can develop a request script in one of two ways:

- By yourself using the API field information in this section
- Using Authorize.Net sample code in C#

**Note**

You must modify Authorize.Net sample code with the reseller's specific account information or the implementation will not work.

## Merchant Boarding API URLs

You can find information about API development in the following locations:

Production	<a href="https://api.authorize.net/xml/v1/reseller.api">https://api.authorize.net/xml/v1/reseller.api</a>
Developer Test	<a href="https://apitest.authorize.net/xml/v1/reseller.api">https://apitest.authorize.net/xml/v1/reseller.api</a>
XML Schema	<a href="https://api.authorize.net/xml/v1/schema/ResellerApiSchema.xsd">https://api.authorize.net/xml/v1/schema/ResellerApiSchema.xsd</a>

API requests and responses must conform to the XML schema.

## Merchant Boarding Functions

With the merchant boarding API you can:

- Add a new merchant to the reseller interface.
- Get all buy rate programs associated with a reseller account, such as Payment Gateway, Advanced Fraud Detection Suite (AFDS), eCheck.Net, Automated Recurring Billing (ARB) and Customer Information Manager (CIM).
- Get all processors associated with a specific market type.

- Get a list of services offered by the reseller, for example, AFDS, eCheck.Net, ARB and CIM.

## Authentication

All calls to the merchant boarding API require reseller authentication. The following table lists the required XML elements.



All XML elements are case-sensitive and must be submitted in the order listed here. Optional elements should not be submitted unless they contain valid values.

ELEMENT	VALUE	FORMAT	NOTES
resellerAuthentication	Reseller's account authentication information		
name	Reseller's valid login ID	Up to 20 characters	Submit the login ID the reseller uses to access the reseller interface
apiKey	Reseller's valid API key	Up to 16 characters	Submit the API key obtained by the reseller in the reseller interface

### Example of authentication with the required elements

```
<?xml version="1.0" encoding="utf-8"?>
<resellerCreateMerchantRequest xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <resellerAuthentication>
    <name>5555</name>
    <apiKey>testapikey</apiKey>
  </resellerAuthentication>
</resellerCreateMerchantRequest>
```



The sample code included in this document uses dummy field values. When using or testing sample code, be sure to enter valid field values.

## Input Elements for the resellerCreateMerchantRequest function

The following table lists the elements you submit to execute an API call to the resellerCreateMerchantRequest function. These elements are submitted in addition to the authentication elements already outlined above. Indentations in the Element column indicate grouping hierarchy. Elements are required unless otherwise indicated. All XML elements are case sensitive and must be submitted in the order listed here. Optional elements should not be submitted unless they contain valid values.

**Table 2 Input elements for the resellerCreateMerchantRequest function**

ELEMENT	VALUE	FORMAT	NOTES
refid	Reseller-assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value will be included in the response. This feature might be especially useful for multi-threaded applications.
merchant	Contains the information about the merchant necessary to add them to the Reseller Interface		
name	The merchant's business name.	Up to 255 characters	
referenceid	The reseller-assigned reference ID for the merchant Optional	Up to 20 characters	This ID is separate from the payment gateway assigned ID for the merchant
businessAddress	Contains information about the merchant's business address		
streetAddress	The merchant's address	Up to 100 characters	
city	The city associated with the merchant's address	Up to 40 characters	
state	The state associated with the merchant's address	2 characters Must be a valid state, province or region code	
zip	The zip code associated with the merchant's address	Up to 9 digits	Can be submitted as either 5 digits or 5 digits with a "-" followed by 4 digits
country	The country associated with the merchant's address	2 characters Must be a valid country code	

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
phone	The merchant's phone number	Up to 20 digits	Can be submitted as either 123-456-7890 or (123) 456-7890
fax	The merchant's fax number Optional	Up to 20 digits	Can be submitted as either 123-456-7890 or (123) 456-7890  If submitted, this field must include a valid value.
email	The merchant's email address	Up to 255 characters	
activationEmailBCCList	A list of email addresses for anyone who needs to receive blind copies of the merchant's activation email.		You can configure up to five emails.
sendActivationEmail	Optional. Indicates whether or not to send a welcome email to the merchant.	true, false	The default is true. Set it to false if you want to send the email later, or post the link on your website.  <a href="#">See "Input Elements for the getMerchantActivationLinkRequest function"</a> for additional information.
businessInfo	Contains information about the merchant's business		
businessType	The merchant's business type	SoleProprietorShip PartnerShip Corporation NonProfit Trust	
taxId	The merchant's tax ID	Up to 9 digits	
ageOfBusiness	The age of the business	Whole numbers, no decimals, between 0 and 255	Enter the number in years that the business has been in operation
productsSold	The type of products the merchant's business sells	Up to 255 characters	
sicCode	The SIC code associated with the merchant's business	Up to 4 digits	For a list of valid SIC codes, log into the Reseller Interface, click <b>Add Merchant</b> and click <b>Look up SIC Code</b> next to the <b>Industry Type</b> field

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
marketTypeeld	The primary market the business sells through	0 1 2	0=e-commerce (Web sites) 1=MOTO (Mail Order/Telephone Order) 2=Retail Any other value submitted will cause the request to return an error response
ownerInfo	Contains information about the owner		
name	The name of the owner	Up to 40 characters	
title	The owner's title	Up to 40 characters	
address	Contains the owner's address information Optional		When submitting this field, its child elements: <b>streetAddress</b> , <b>city</b> , <b>state</b> and <b>zip</b> , must be included
streetAddress	The owner's street address Conditional	Up to 100 characters	Required when submitting <b>address</b>
city	The city associated with the owner's address Conditional	Up to 40 characters	Required when submitting <b>address</b>
state	The state associated with the owner's address Conditional	2 characters Must be a valid state, province or region code	Required when submitting <b>address</b>
zip	The zip code associated with the owner's address Conditional	Up to 9 digits	Required when submitting <b>address</b> Can be submitted as either 5 digits or 5 digits with a "-" followed by 4 digits
country	The country associated with the owner's address Optional	2 characters Must be a valid country code	
phone	The owner's phone number Optional	Up to 20 digits	Can be submitted as either 123-456-7890 or (123) 456-7890 If submitted, this field must include a valid value.
ssn	The owner's social security number	Up to 9 digits	

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
billingInfo	Contains the merchant's billing information		
nameOnBankAccount	The full name as listed on the bank account	Up to 40 characters	
bankAccountType	The type of bank account	Checking Savings	
bankAccountOwnerType	Indicates the whether the account is for personal or business use	Personal Business	
bankABACode	The bank routing number	9 digits	
bankAccountNumber	The bank account number	Between 5 and 17 digits	
bankName	The name of the bank associated with the bank account number	Up to 50 characters	
bankCity	The city where the bank is located	Up to 40 characters	
bankState	The state where the bank is located	2 characters Must be a valid state, province or region code	
bankZip	The zip code where the bank is located	Up to 9 digits	Can be submitted as either 5 digits or 5 digits with a "-" followed by 4 digits
paymentGrouping	Contains the merchant's supported payment types and processors for each payment type		
paymentTypes	Contains the different payment types the merchant accepts		

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
paymentType	The payment types the merchant accepts	The one digit code for the payment type V M D A C E J	V=Visa M=MasterCard D=Discover A=American Express C=Diner's Club E=EnRoute J=JCB To enable a merchant for eCheck.Net, see the " <a href="#">services</a> " element
processor	The processors used for the payment type  Optional		
id	The ID of the processor		Call <a href="#">getResellerProcessorsRequest</a> for a list of the reseller's processors  See <a href="#">Appendix A, "Acquirer IDs," on page 43</a> for a list of valid processor IDs
displayName	The name of the processor	Up to 255 characters	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
procConfig	Contains additional information about the processor		
processorFieldConfig	Contains the fields to be entered that will further describe the processor		
fieldName	The name of the field	Up to 255 characters	
minLength	The minimum number of characters the field must contain  Optional		This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
maxLength	The maximum number of characters the field must contain  Optional		This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
description	A description of the field Optional	Up to 50 characters	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
displayLabel	The actual text to be displayed to identify the field Optional		This is the text that will be displayed to identify the field. This text can be different from the actual name of the field contained in the fieldname element  This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
fieldValue	The value that will be entered into the field being submitted	Up to 255 digits	
acquirerId	The valid acquirer ID of the processor Optional		For a list of all valid acquirer IDs, please see <a href="#">Appendix A, "Acquirer IDs," on page 43</a> .
salesRep	Contains information about the sales rep who signed up the merchant Optional		
salesRepName	The name of the sales rep who signed up the merchant Optional	Up to 40 characters	
salesRepId	The ID of the sales rep who signed up the merchant Optional	Up to 10 characters	
salesRepCommission	The commission rate for the sales rep who signed up the merchant Conditional	Decimal between 1 and 100	Required only if <b>salesRep</b> is submitted
services	Contains information about the services the merchant is enabled for		If the reseller does his or her own billing for any service, pass a value of "0" for the sell rate of that service

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
merchantService	<p>Contains information about a service</p> <p>This section must be submitted with an <b>id</b> of “8” to set up the payment gateway service. All other IDs are optional</p> <p>To enable a merchant with eCheck.Net, this element must be submitted with an <b>id</b> of “4”</p>		
id	The ID for the service	1 (obsolete) 4 7 8 17 19	1=FDS (obsolete; use 19 instead) 4=eCheck.Net 7=ARB 8=Payment Gateway 17=CIM 19=AFDS
billAtAccountCreation	This allows the reseller to initiate Authorize.Net Payment Gateway service billing for the Merchant immediately	T, F	<p>This value can only be set to true for id=8 (Payment Gateway), and only if the reseller has permissions to set this flag. For any other id values, an error will result.</p> <p>To enable immediate billing, contact Reseller Support.</p>
description	A description of the service Optional	Up to 50 characters	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
serviceBuyRatePrograms	Contains information about the buy rate programs available for the service Optional		<p>Can only be submitted if <b>optOut</b> is not included</p> <p><b>serviceBuyRatePrograms</b> and <b>optOut</b> cannot both be passed for the same service</p>
serviceBuyRateProgram	Contains information about a buy rate program Conditional		<p>Required for <b>merchantServiceId=8</b>, optional for all others</p> <p>To enable a merchant for AFDS or CIM, a valid buy rate program must be submitted</p> <p>To enable a merchant with eCheck.Net, two eCheck.Net buy rate programs must be submitted, one for standard industry rates and one for preferred industry rates</p> <p>This field is ignored when submitted with <b>merchantServiceId=7</b></p>

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
id	The ID of the buy rate program		
isDefault	Indicates whether the buy rate program is the default one  Optional	true false	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
isSelfProvisioning	Indicates whether the buy rate program is self-provisioning or not  Optional	true false	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
description	A description of the buy rate program  Optional	Up to 255 characters	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
fees	Contains information about the fees associated with a buy rate program  The number of fees for each service must match the number in the system  Call the <a href="#">getServiceBuyRateProgramsRequest</a> function for that information		
fee	The fees associated with the buy rate program		
id	The ID of the fee associated with the buy rate program		The id for each fee must match the id in the system.  Call <a href="#">getServiceBuyRateProgramsRequest</a> for that information  If no <b>sellRate</b> is submitted for fee ID 11 or 19 (gateway fee and transaction fee) then the sell rate for that fee is set to 0.
singleTiered	Indicates whether the fee is single-tiered	true false	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>  System values will be returned in the response  Call <a href="#">getServiceBuyRateProgramsRequest</a> for those values

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
rateType	Indicates whether the rate is a dollar rate or a percentage Optional		This section is ignored when submitted with <b>resellerCreateMerchantRequest</b> System values will be returned in the response Call <a href="#">getServiceBuyRateProgramsRequest</a> for those values
id	The ID of the rate type		This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
description	A description of the rate type Optional	Up to 50 characters	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
tiers	Contains information about the available tiers for a fee Optional		
feeTier	The tier information associated with a fee Optional		The number of fee tiers for each fee must match the number of tiers in the system. Call <a href="#">getServiceBuyRateProgramsRequest</a> for that information
id	The ID associated with a tier Conditional		Required only when more than one fee tier is specified for the fee
lowerThreshold	The value that identifies the lowest point for the tier Optional		The value provided is the value that is the lowest possible value for the tier. For a tier of 101-200, the lower threshold would be 101 This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
sellRate	The sell rate associated with a tier	Up to 4 digits after the decimal point (no dollar symbol) Ex. 12.99 or 12.9999	Value can only be different from system value if <b>settable = true</b> in the <b>getServiceBuyRateProgramsResponse</b> Value should only be "0" if the reseller does their own billing for the service

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
buyRate	The buy rate associated with a tier Optional		This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>  System values will be returned in the response  Call <a href="#">getServiceBuyRateProgramsRequest</a> for those values
description	A description of the fee Optional	Up to 255 characters	This field is ignored when submitted with <b>resellerCreateMerchantRequest</b>
optOut	Indicates whether the merchant should be disabled for a service Optional	true false	This field should not be submitted when a valid buy rate program is submitted for <b>merchantService</b> <b>serviceBuyRatePrograms</b> and <b>optOut</b> cannot both be passed for the same service
deviceList	Contains information about the devices being registered for the merchant Conditional		Required only for Card Present (CP) merchants  If submitted for Card Not Present (CNP) merchants, this section will be ignored
deviceInfo			
deviceType	The type of device	Unconfigured UnattendedTerminal SelfServiceTerminal ElectronicCashRegister PCBasedTerminal Airpay WirelessPOS WebSite DialTerminal VirtualTerminal StoreController	Only one of each type of device may be submitted  Because <b>VirtualTerminal</b> is set up automatically, there is no need to include it in the request
state	The state in which the device is registered	2 characters  Must be a valid state, province or region code	

**Table 2 Input elements for the resellerCreateMerchantRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
zip	The zip code in which the device is registered	Up to 9 characters	Can be submitted as either 5 digits or 5 digits with a "-" followed by 4 digits
country	The country in which the device is registered	2 characters Must be a valid country code	

### Example call to the resellerCreateMerchantRequest function

```
<?xml version="1.0" encoding="utf-8"?>
<resellerCreateMerchantRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <resellerAuthentication>
    <name>your login here</name>
    <apiKey>your api key here</apiKey>
  </resellerAuthentication>
  <merchant>
    <name>name of business here</name>
    <businessAddress>
      <streetAddress>123 Main Street</streetAddress>
      <city>Bellevue</city>
      <state>WA</state>
      <zip>98004</zip>
      <country>US</country>
    </businessAddress>
    <phone>(425) 555-1212</phone>
    <fax>(425) 555-1212</fax>
    <email>blackhole@example.com</email>
    <activationEmailBCCList>
      <email>testmerchant1@testsite.com</email>
      <email>testmerchant2@testsite.com</email>
      <email>testmerchant3@testsite.com</email>
      <email>testmerchant4@testsite.com</email>
      <email>testmerchant5@testsite.com</email>
    </activationEmailBCCList>
  </merchant>
  <businessInfo>
    <businessType>SoleProprietorShip</businessType>
    <taxId>111223333</taxId>
    <ageOfBusiness>3</ageOfBusiness>
    <productsSold>Various widgets</productsSold>
    <sicCode>2741</sicCode>
    <marketTypeId>0</marketTypeId>
  </businessInfo>
  <ownerInfo>
    <name>Bob Smith</name>
    <title>CEO</title>
    <address>
      <streetAddress>200 Maple Grove</streetAddress>
      <city>Bellevue</city>
```

```

        <state>WA</state>
        <zip>98004</zip>
        <country>US</country>
    </address>
    <phone>(425) 555-1212</phone>
    <ssn>111223333</ssn>
</ownerInfo>
<billingInfo>
    <nameOnBankAccount>Joe Blow</nameOnBankAccount>
    <bankAccountType>Checking</bankAccountType>
    <bankAccountOwnerType>Business</bankAccountOwnerType>
    <bankABACode>12500024</bankABACode>
    <bankAccountNumber>1111222233334444</bankAccountNumber>
    <bankName>Bank of America</bankName>
    <bankCity>Bellevue</bankCity>
    <bankState>WA</bankState>
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        <displayName></displayName>
        <procConfig>
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        </procConfig>
        <acquirerId>44</acquirerId>
    </processor>
</paymentGrouping>
<salesRep>
    <salesRepName>Joe Smith</salesRepName>
    <salesRepId>121</salesRepId>
    <salesRepCommission>5.6</salesRepCommission>
</salesRep>
<services>
    <merchantService>
        <id>8</id>
        <billAtAccountCreation>true
    </billAtAccountCreation>

```

```

<serviceBuyRatePrograms>
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    <fees>
      <fee>
        <id>11</id>
        <singleTiered>true</singleTiered>
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            <sellRate>20.0000</sellRate>
          </feeTier>
        </tiers>
      </fee>
      <fee>
        <id>19</id>
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        <tiers>
          <feeTier>
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          </feeTier>
        </tiers>
      </fee>
    </fees>
  </serviceBuyRateProgram>
</serviceBuyRatePrograms>
</merchantService>
<merchantService>
  <id>4</id>
  <serviceBuyRatePrograms>
    <serviceBuyRateProgram>
      <id>104216</id>
      <fees>
        <fee>
          <id>3</id>
          <singleTiered>true</singleTiered>
          <tiers>
            <feeTier>
              <sellRate>0</sellRate>
            </feeTier>
          </tiers>
        </fee>
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          <id>7</id>
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  <singleTiered>true</singleTiered>
  <tiers>
    <feeTier>
      <sellRate>0.3000</sellRate>
    </feeTier>
  </tiers>
</fee>
<fee>
  <id>6</id>
  <singleTiered>true</singleTiered>
  <tiers>
    <feeTier>
      <sellRate>10.0000</sellRate>
    </feeTier>
  </tiers>
</fee>
<fee>
  <id>5</id>
  <singleTiered>>false</singleTiered>
  <tiers>
    <feeTier>
      <id>292227</id>
      <sellRate>0.3000</sellRate>
    </feeTier>
    <feeTier>
      <id>292228</id>
      <sellRate>0.3000</sellRate>
    </feeTier>
    <feeTier>
      <id>292229</id>
      <sellRate>0.3000</sellRate>
    </feeTier>
    <feeTier>
      <id>292230</id>
      <sellRate>0.3000</sellRate>
    </feeTier>
  </tiers>
</fee>
<fee>
  <id>4</id>
  <singleTiered>>false</singleTiered>
  <tiers>
    <feeTier>
      <id>292231</id>
      <sellRate>0.0175</sellRate>
    </feeTier>
  </tiers>
</fee>

```

```

    </feeTier>
    <feeTier>
      <id>292232</id>
      <sellRate>0.0150</sellRate>
    </feeTier>
    <feeTier>
      <id>292233</id>
      <sellRate>0.0100</sellRate>
    </feeTier>
    <feeTier>
      <id>292234</id>
      <sellRate>0.0050</sellRate>
    </feeTier>
  </tiers>
</fee>
</fees>
</serviceBuyRateProgram>
<serviceBuyRateProgram>
  <id>104218</id>
  <fees>
    <fee>
      <id>3</id>
      <singleTiered>true</singleTiered>
      <tiers>
        <feeTier>
          <sellRate>0</sellRate>
        </feeTier>
      </tiers>
    </fee>
    <fee>
      <id>8</id>
      <singleTiered>true</singleTiered>
      <tiers>
        <feeTier>
          <sellRate>25.0000</sellRate>
        </feeTier>
      </tiers>
    </fee>
    <fee>
      <id>7</id>
      <singleTiered>true</singleTiered>
      <tiers>
        <feeTier>
          <sellRate>3.0000</sellRate>
        </feeTier>
      </tiers>
    </fee>
    <fee>
      <id>9</id>
      <singleTiered>true</singleTiered>
      <tiers>
        <feeTier>
          <sellRate>0.3000</sellRate>
        </feeTier>
      </tiers>
    </fee>
  </fees>
</serviceBuyRateProgram>

```

```

        </feeTier>
      </tiers>
    </fee>
  <fee>
    <id>6</id>
    <singleTiered>true</singleTiered>
    <tiers>
      <feeTier>
        <sellRate>10.0000</sellRate>
      </feeTier>
    </tiers>
  </fee>
  <fee>
    <id>5</id>
    <singleTiered>true</singleTiered>
    <tiers>
      <feeTier>
        <sellRate>0.5000</sellRate>
      </feeTier>
    </tiers>
  </fee>
  <fee>
    <id>4</id>
    <singleTiered>true</singleTiered>
    <tiers>
      <feeTier>
        <sellRate>0</sellRate>
      </feeTier>
    </tiers>
  </fee>
</fees>
</serviceBuyRateProgram>
</serviceBuyRatePrograms>
</merchantService>
<merchantService>
  <id>7</id>
  <optOut>>false</optOut>
</merchantService>
<merchantService>
  <id>19</id>
  <serviceBuyRatePrograms>
    <serviceBuyRateProgram>
      <id>24110</id>
      <fees>

      <fee>
        <id>42</id>
        <singleTiered>true</singleTiered>
        <tiers>
          <feeTier>
            <sellRate>9.95</sellRate>
          </feeTier>
        </tiers>
      </fee>
    </serviceBuyRateProgram>
  </serviceBuyRatePrograms>
</merchantService>

```

```

        </fee>
      </fees>
    </serviceBuyRateProgram>
  </serviceBuyRatePrograms>
</merchantService>
<merchantService>
  <id>17</id>
  <serviceBuyRatePrograms>
    <serviceBuyRateProgram>
      <id>30947</id>
      <fees>
        <fee>
          <id>40</id>
          <singleTiered>true</singleTiered>
          <tiers>
            <feeTier>
              <sellRate>20.0000</sellRate>
            </feeTier>
          </tiers>
        </fee>
      </fees>
    </serviceBuyRateProgram>
  </serviceBuyRatePrograms>
</merchantService>
</services>
</merchant>
</resellerCreateMerchantRequest>

```

**Note**

The sample code included in this document uses dummy field values. When using or testing sample code, be sure to enter valid field values.

## Input Elements for the `getMerchantActivationLinkRequest` function

The following table lists the elements you must submit to execute an API call to the `getMerchantActivationLinkRequest` function. Submit these elements in addition to the authentication elements. The response returns the activation link URL, whether or not you specify true. If you send the value true, an email is sent to the merchant, including the activation URL.

**Table 3** Input elements for `getMerchantActivationLinkRequest`

ELEMENT	VALUE	FORMAT	NOTES
sendActivationEmail	Indicates whether or not to send a welcome email to the merchant with the activation URL.	true, false	

**Example getMerchantActivationLinkRequest**

```
<?xml version="1.0" encoding="utf-8" ?>
<getMerchantActivationLinkRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <resellerAuthentication>
    <name>your login here</name>
    <apiKey>your api key here</apiKey>
  </resellerAuthentication>
  <merchantId>300001</merchantId>
  <sendActivationEmail>true</sendActivationEmail>
</getMerchantActivationLinkRequest>
```

## Input Elements for the getMerchantActivationStatusRequest function

Use this function to specify whether or not to return the merchant to the hosted activation survey.

**Table 4** Input elements for the getMerchantActivationStatusRequest function

ELEMENT	VALUE	FORMAT	NOTES
Reseller authentication	Contains the reseller's account authentication information		
merchantId	The payment gateway-assigned identification number for the merchant	Up to 13 digits	

**Example**

```
<?xml version="1.0" encoding="utf-8" ?>
<getMerchantActivationStatusRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <resellerAuthentication>
    <name>UserIndustries</name>
    <apiKey>592h8F85AR8s6vDT</apiKey>
  </resellerAuthentication>
  <merchantId>41234</merchantId>
</getMerchantActivationStatusRequest>
```

## Input Elements for the getHostedMerchantActivationSurveyRequest function

Call this function to display the Authorize.Net hosted merchant activation survey to new merchants so that they can complete the steps needed to activate their account.

When the reseller calls the getHostedMerchantActivationSurveyRequest function, a token is returned in the response. Put that token in a hidden <form> element on their website so

that when the merchant clicks `Continue`, the token is posted to Authorize.Net, which displays the first page of the hosted activation survey.

For more detailed instructions on how to use this function, see "[Output Elements for the `getHostedMerchantActivationSurveyResponse` function.](#)" page 29.

The following table lists input elements for the `getHostedMerchantActivationSurveyRequest` function.

**Table 5 Input elements for the `getHostedMerchantActivationSurveyRequest` function**

ELEMENT	VALUE	FORMAT	NOTES
Reseller authentication	Contains the reseller's account authentication information		
merchantId	The payment gateway-assigned identification number for the merchant	Up to 13 digits	
settings	Optional. Contains one or more setting elements.		
setting			
settingName	Allowed values are: hostedActivationSurveyCompleteUrl, or hostedActivationSurveyCancelUrl.		
settingValue	URL to return to when completing or canceling the survey.		

## Input Elements for the `getServiceBuyRateProgramsRequest` function

The following table lists the elements you must submit to execute an API call to the `getServiceBuyRateProgramsRequest` function. Submit these elements in addition to the authentication elements.

**Table 6 Input elements for the `getServiceBuyRateProgramsRequest` function**

ELEMENT	VALUE	FORMAT	NOTES
serviceTypeId	The ID associated with the service buy rate program	1 (obsolete) 4 7 8 17 19	1=FDS (obsolete; use 19) 4=eCheck.Net 7=ARB 8=Payment Gateway 17=CIM 19=AFDS

**Table 6 Input elements for the getServiceBuyRateProgramsRequest function (Continued)**

ELEMENT	VALUE	FORMAT	NOTES
marketTypeId	The numeric representation of the market type  Required only when serviceTypeId=8	0 1 2	0=e-commerce (Web sites) 1=MOTO (Mail Order/Telephone Order ) 2=Retail  For CNP, this field should be 0 or 1, for CP it should be 2  Any other value submitted will cause the request to return an error response  This field will be ignored unless <b>serviceTypeId=8</b>

**Example call to the getServiceBuyRateProgramsRequest function**


---

```
<?xml version="1.0" encoding="utf-8"?>
<getServiceBuyRateProgramsRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <resellerAuthentication>
    <name>your login here</name>
    <apiKey>your api key here</apiKey>
  </resellerAuthentication>
  <serviceTypeId>8</serviceTypeId>
  <marketTypeId>0</marketTypeId>
</getServiceBuyRateProgramsRequest>
```

---

**Note**

The sample code included in this document uses dummy field values. When using or testing sample code, be sure to enter valid field values.

---

## Input Elements for the getResellerProcessorsRequest function

The following table lists the elements you must submit to execute an API call to the getResellerProcessorsRequest function. Submit these elements in addition to the authentication elements.

**Table 7** Input elements for the getResellerProcessorsRequest function

ELEMENT	VALUE	FORMAT	NOTES
marketTypeId	The numeric representation of the market type	0 1 2	0=e-commerce (Web sites) 1=MOTO (Mail Order/Telephone Order) 2=Retail Any other value submitted will cause the request to return an error response

### Example call to the getResellerProcessorsRequest function

```
<?xml version="1.0" encoding="utf-8"?>
<getResellerProcessorsRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <resellerAuthentication>
    <name>your login here</name>
    <apiKey>your api key here</apiKey>
  </resellerAuthentication>
  <marketTypeId>0</marketTypeId>
</getResellerProcessorsRequest>
```



#### Note

The sample code included in this document uses dummy field values. When using or testing sample code, be sure to enter valid field values.

## Input Elements for the getResellerServicesRequest function

To execute an API call to the getResellerServicesRequest function, only the authentication elements are required.

**Table 8** Input elements for getResellerServicesRequest

ELEMENT	VALUE	FORMAT	NOTES
resellerAuthentication	Contains the reseller's account authentication information		

**Table 8** Input elements for `getResellerServicesRequest` (Continued)

ELEMENT	VALUE	FORMAT	NOTES
name	The reseller's valid Login ID	Up to 20 characters	Submit the Login ID the reseller uses to access the Reseller Interface
apiKey	The reseller's valid API Key	Up to 16 characters	Submit the API Key obtained by the reseller in the Reseller Interface

**Example** call to the `getResellerServicesRequest` function

---

```
<?xml version="1.0" encoding="utf-8"?>
<getResellerServicesRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <resellerAuthentication>
    <name>your login here</name>
    <apiKey>your api key here</apiKey>
  </resellerAuthentication>
</getResellerServicesRequest>
```

---



The sample code included in this document uses dummy field values. When using or testing sample code, be sure to enter valid field values.

---

# XML Responses

The transaction response from the payment gateway is a set of fields that provides information about the status of a request.

## Responses to Successful Requests

The following sections describe the output elements that are returned in response to successful API calls.

### Output Elements for resellerCreateMerchantResponse

The following table lists the output elements in response to a successful API call to the resellerCreateMerchantRequest function.

**Table 9** Output elements for the resellerCreateMerchantResponse function

ELEMENTS	VALUE	FORMAT	NOTES
refId	Reseller-assigned reference ID for the request	Up to 20 characters	This element is included in the response only if it was included in the request.
messages	Contains information about the results of the request		
resultCode	Contains additional information about the results of the request	Ok	An "Ok" result code indicates that the request was processed and accepted without error.
message	Contains the result code and text		Any messages present are informational only.
code	I00001		
text	Successful		
merchantId	The payment gateway assigned identification number for the merchant	Up to 13 digits	

**Example response from the resellerCreateMerchantResponse function**


---

```
<?xml version="1.0" encoding="utf-8"?>
<resellerCreateMerchantResponse xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <refId>Sample</refId>
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <merchantId>600894</merchantId>
</resellerCreateMerchantResponse>
```

---

After you receive a response from the payment gateway with an “Ok” result code, the merchant has been successfully added to the reseller interface. An account activation email will be sent to the merchant’s email address with instructions for activating their payment gateway account. The response includes the ID assigned to the merchant.

## Output Elements for the getMerchantActivationLinkResponse function

The following table lists elements returned in response to a successful API call to the function getMerchantActivationLinkRequest.

**Table 10 Elements returned for the getMerchantActivationLinkResponse function**

ELEMENT	VALUE	FORMAT	NOTES
messages	Contains information about the results of the request		
resultCode	Contains additional information about the results of the request	Ok	An “Ok” result code indicates that the request was processed and accepted without error.
message	Contains the result code and text		Any messages present are informational only.
code	I00001		
text	Successful		
activationLink	The URL and activation code for the merchant to activate the account.		

**Example response from the getMerchantActivationLinkResponse function**


---

```
<?xml version="1.0" encoding="utf-8"?>
<getMerchantActivationLinkResponse xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <activationLink>https://account.authorize.net/UI/themes/anet/Welcome/
AccountActivation.aspx?ActivationCode=90E2846165AA9ABC</activationLink>
</getMerchantActivationLinkResponse>
```

---

## Output Elements for the getHostedMerchantActivationSurveyResponse function

The following table lists elements returned in response to a call to the getHostedMerchantActivationStatusRequest function.

**Table 11 Elements returned from the  
getHostedMerchantActivationSurveyResponse function**

ELEMENT	VALUE	FORMAT	NOTES
messages	Contains information about the results of the request		
resultCode	Contains additional information about the results of the request	Ok	An "Ok" result code indicates that the request was processed and accepted without error.
message	Contains the result code and text		Any messages present are informational only.
code	I00001		
text	Successful		
token	Place this token in a hidden <form> element on your website, so that when the merchant clicks "Continue," the token is posted to Authorize.Net.	string	The token, when posted, displays the Authorize.Net hosted survey page.

**Example**

```
<?xml version="1.0" encoding="utf-8"?>
<getHostedActivationSurveyResponse xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
```

```

<messages>
  <resultCode>Ok</resultCode>
  <message>
    <code>I00001</code>
    <text>Successful.</text>
  </message>
</messages>
<token>jNPeUJ1z5BoZKMU+JBR78EGN+jJjtXJC9WhpP9MDi jV9f/CHz/
+fwXsvoQ9Uts6FmZ5P9USqAJsBrS04aS/t+2Vo9AndxGZzuJp/bT6ji8=</token>
</getHostedActivationSurveyResponse>

```

To use this function, follow this process:

- Step 1** Place this hidden form anywhere on your page; the value for the token is the value returned in the response to this function:

```

<form method="post" action="https://activate.authorize.net/activation/
survey" id="formAuthorizeNetSurvey" style="display:none;">
  <input type="hidden" name="Token"
value="pfGaUNntoTxZYeqqYDjGCQ4qyCHcsXGXLJ2i7MPCEiH6CH5n5qKqcl8EBiTClxu01B
SeH5eZg7LVUVVzw5kJKVMitQ3pyMB5UZCduMwd6Ku9aT2gyFm69EKMGfyWPmI4p+Bb4TJf2F0
7rInSrn2Mwlm6f2xd7aRu1XBn0WxoPxK1j9FMGX2CNCocBp3cOXB7" />
</form>

```

- Step 2** Place this button on your page:

```

<input type="button" onclick=
"document.getElementById('formAuthorizeNetSurvey').submit();"
value="Continue to Authorize.Net" />

```

See also ["Input Elements for the getHostedMerchantActivationSurveyRequest function." page 22.](#)

## Output Elements for the getMerchantActivationStatusResponse function

The following table lists elements returned in response to the getMerchantActivationStatusRequest function.

**Table 12** Output elements for the getMerchantActivationStatusResponse function

ELEMENT	VALUE	FORMAT	NOTES
messages	Contains information about the results of the request		
resultCode	Contains additional information about the results of the request	Ok	An "Ok" result code indicates that the request was processed and accepted without error.
message	Contains the result code and text		Any messages present are informational only.
code	I00001		

**Table 12** Output elements for the `getMerchantActivationStatusResponse` function (Continued)

ELEMENT	VALUE	FORMAT	NOTES
text	Successful		
steps	Contains one or more step elements		
step			
stepName	gatewayAgreement or billingInformation		
stepComplete	One of: Pending, Complete, or Declined		Indicates the status of the survey element.

**Example**

```
<?xml version="1.0" encoding="utf-8"?>
<getMerchantActivationStatusResponse xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <steps>
    <step>
      <stepName>gatewayAgreement</stepName>
      <stepComplete>Complete</stepComplete>
    </step>
    <step>
      <stepName>billingInformation</stepName>
      <stepComplete>Complete</stepComplete>
    </step>
  </steps>
</getMerchantActivationStatusResponse>
```

## Output Elements for the `getServiceBuyRateProgramsResponse` function

The following table lists the output returned from the payment gateway in response to an API call to the `getServiceBuyRateProgramsRequest` function.

**Table 13** Output elements for the `getServiceBuyRateProgramsResponse` function

ELEMENTS	VALUE	FORMAT	NOTES
<code>serviceBuyRatePrograms</code>	Contains information about the buy rate programs available for the service		
<code>serviceBuyRateProgram</code>	Contains information about a buy rate program		
<code>id</code>	The ID of the buy rate program		
<code>isDefault</code>	Indicates whether the buy rate program is the default one Optional	true false	
<code>isSelfProvisioning</code>	Indicates whether or not the buy rate program is self-provisioning Optional	true false	
<code>description</code>	A description of the buy rate program Optional	Up to 255 characters	
<code>fees</code>	Contains information about the fees associated with a buy rate program		
<code>fee</code>	The fees associated with the buy rate program		
<code>id</code>	The ID of the fee associated with the buy rate program		
<code>singleTiered</code>	Indicates whether the fee is single-tiered	true false	System values will be returned in the response
<code>rateType</code>	Indicates whether the rate is a dollar rate or a percentage Optional		System values will be returned in the response
<code>id</code>	The ID of the rate type		
<code>description</code>	A description of the rate type Optional	Up to 50 characters	
<code>tiers</code>	Contains information about the available tiers for a fee Optional		

Table 13 Output elements for the getServiceBuyRateProgramsResponse function (Continued)

ELEMENTS	VALUE	FORMAT	NOTES
feeTier	The tier information associated with a fee Optional		
id	The ID associated with a tier Optional		
lowerThreshold	The value that identifies the lowest point for the tier Optional		The value provided is the value that is the lowest possible value for the tier. For a tier of 101-200, the lower threshold would be 101
sellRate	The sell rate associated with a tier	Up to 4 digits after the decimal point (no dollar symbol) Ex. 12.99 or 12.9999	
buyRate	The buy rate associated with a tier Optional		System values will be returned in the response
description	A description of the fee Optional	Up to 255 characters	
settable	Indicates whether the sell rate can be set to a customer value in Optional	true false	If this field is <b>not</b> included in the response, it should be treated the same as if a value of <b>false</b> were returned

**Example response from the getServiceBuyRateProgramsResponse function**

```
<?xml version="1.0" encoding="utf-8"?>
<getServiceBuyRateProgramsResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <serviceBuyRatePrograms>
    <serviceBuyRateProgram>
      <id>118</id>
```

```

<isDefault>true</isDefault>
<isSelfProvisioning>>false</isSelfProvisioning>
<description>SetupFee $25.00 - GWFee $15.00 - TransFee $0.05 -
Threshold 1</description>
<fees>
  <fee>
    <id>11</id>
    <singleTiered>true</singleTiered>
    <rateType>
      <id>1</id>
      <description>Dollar</description>
    </rateType>
    <tiers>
      <feeTier>
        <sellRate>-1</sellRate>
        <buyRate>15.0000</buyRate>
      </feeTier>
    </tiers>
    <description>Gateway Monthly Fee</description>
    <settable>true</settable>
  </fee>
  <fee>
    <id>19</id>
    <singleTiered>true</singleTiered>
    <rateType>
      <id>1</id>
      <description>Dollar</description>
    </rateType>
    <tiers>
      <feeTier>
        <sellRate>-1</sellRate>
        <buyRate>0.0500</buyRate>
      </feeTier>
    </tiers>
    <description>Credit Card Per-Transaction Fee</description>
    <settable>true</settable>
  </fee>
</fees>
</serviceBuyRateProgram>
<serviceBuyRateProgram>
  <id>119</id>
  <isDefault>>false</isDefault>
  <isSelfProvisioning>>false</isSelfProvisioning>
  <description>SetupFee $10.00 - GWFee $20.00 - TransFee $0.10 -
Threshold 1</description>
  <fees>
    <fee>
      <id>11</id>
      <singleTiered>true</singleTiered>
      <rateType>
        <id>1</id>
        <description>Dollar</description>
      </rateType>

```

```

    <tiers>
      <feeTier>
        <sellRate>-1</sellRate>
        <buyRate>20.0000</buyRate>
      </feeTier>
    </tiers>
    <description>Gateway Monthly Fee</description>
    <settable>true</settable>
  </fee>
</fees>
</serviceBuyRateProgram>
<serviceBuyRateProgram>
  <id>215</id>
  <isDefault>>false</isDefault>
  <isSelfProvisioning>>false</isSelfProvisioning>
  <description>Default Buy Rates - SetupFee $99.00 - GWFee $10.00 -
  TransFee $0.05 - Threshold 1</description>
  <fees>
    <fee>
      <id>11</id>
      <singleTiered>true</singleTiered>
      <rateType>
        <id>1</id>
        <description>Dollar</description>
      </rateType>
      <tiers>
        <feeTier>
          <sellRate>-1</sellRate>
          <buyRate>10.0000</buyRate>
        </feeTier>
      </tiers>
      <description>Gateway Monthly Fee</description>
      <settable>true</settable>
    </fee>
    <fee>
      <id>19</id>
      <singleTiered>true</singleTiered>

```

```

<rateType>
  <id>1</id>
  <description>Dollar</description>
</rateType>
<tiers>
  <feeTier>
    <sellRate>-1</sellRate>
    <buyRate>0.0500</buyRate>
  </feeTier>
</tiers>
<description>Credit Card Per-Transaction Fee</description>
<settable>>true</settable>
</fee>
</fees>
</serviceBuyRateProgram>
</serviceBuyRatePrograms>
</getServiceBuyRateProgramsResponse>

```

## Output Elements for the getResellerProcessorsResponse function

The following table lists the output returned from the payment gateway in response to an API call to the getResellerProcessorsRequest function.

**Table 14** Output elements for the getResellerProcessorsResponse function

ELEMENT	VALUE	FORMAT	NOTES
processors	Contains information about the resellers buy rate programs		
processor	The processors used for the payment type Optional		
id	The ID of the processor		See <a href="#">Appendix B, "Processor IDs," on page 52</a> for a list of valid processor IDs
displayName	The name of the processor	Up to 255 characters	
procConfig	Contains additional information about the processor		
processorFieldConfig	Contains the fields to be entered that will further describe the processor		
fieldName	The name of the field	Up to 255 characters	
minLength	The minimum number of characters the field must contain Optional		

Table 14 Output elements for the getResellerProcessorsResponse function (Continued)

ELEMENT	VALUE	FORMAT	NOTES
maxLength	The maximum number of characters the field must contain Optional		
description	A description of the field Optional	Up to 50 characters	
displayLabel	The actual text to be displayed to identify the field Optional		This is the text that will be displayed to identify the field. This text can be different from the actual name of the field contained in the <b>fieldName</b> element
fieldValue	The value that will be entered into the field being submitted	Up to 255 digits	
acquirerId	The valid acquirer ID of the processor Optional		For a list of all valid acquirer IDs, please see <a href="#">Appendix A, "Acquirer IDs," on page 43</a> . Not included in the response

**Example response from the getResellerProcessorsResponse function**

```
<getResellerProcessorsResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <processors>
    <processor>
      <id>2</id>
      <displayName>FDC</displayName>
      <procConfig>
        <processorFieldConfig>
          <fieldName>MerchID</fieldName>
          <minLength>6</minLength>
          <maxLength>11</maxLength>
          <displayLabel>Merchant ID (MID)</displayLabel>
        </processorFieldConfig>
        <processorFieldConfig>
          <fieldName>TermID</fieldName>
          <minLength>6</minLength>
          <maxLength>11</maxLength>
          <displayLabel>Terminal ID (TID)</displayLabel>
        </processorFieldConfig>
      </procConfig>
    </processor>
  </processors>
</getResellerProcessorsResponse>
```

```

    </procConfig>
  </processor>
</processor>
<processor>
  <id>15</id>
  <displayName>FDCO</displayName>
  <procConfig>
    <processorFieldConfig>
      <fieldName>FDCOMerchantID</fieldName>
      <minLength>7</minLength>
      <maxLength>16</maxLength>
      <displayLabel>Merchant Number</displayLabel>
    </processorFieldConfig>
  </procConfig>
</processor>
<processor>
  <id>7</id>
  <displayName>Global Payments</displayName>
  <procConfig>
    <processorFieldConfig>
      <fieldName>AcquirerInstitutionID</fieldName>
      <minLength>4</minLength>
      <maxLength>6</maxLength>
      <displayLabel>Acquirer Institution ID (Bank ID)</displayLabel>
    </processorFieldConfig>
    <processorFieldConfig>
      <fieldName>CardAcceptorID</fieldName>
      <minLength>3</minLength>
      <maxLength>15</maxLength>
      <displayLabel>Merchant ID</displayLabel>
    </processorFieldConfig>
  </procConfig>
</processor>
<processor>
  <id>1</id>
  <displayName>Nova</displayName>
  <procConfig>
    <processorFieldConfig>
      <fieldName>BankNumber</fieldName>
      <minLength>6</minLength>
      <maxLength>6</maxLength>
      <displayLabel>Bank Number</displayLabel>
    </processorFieldConfig>
    <processorFieldConfig>
      <fieldName>TermID</fieldName>
      <minLength>6</minLength>
      <maxLength>16</maxLength>
      <displayLabel>Terminal ID</displayLabel>
    </processorFieldConfig>
  </procConfig>
</processor>
<processor>
  <id>11</id>
  <displayName>Paymentech (Terminal Capture)</displayName>

```

```

<procConfig>
  <processorFieldConfig>
    <fieldName>ClientNumber</fieldName>
    <minLength>3</minLength>
    <maxLength>4</maxLength>
    <displayLabel>Client Number</displayLabel>
  </processorFieldConfig>
  <processorFieldConfig>
    <fieldName>MerchantNumber</fieldName>
    <minLength>11</minLength>
    <maxLength>12</maxLength>
    <displayLabel>Merchant Number (Gensar #)</displayLabel>
  </processorFieldConfig>
  <processorFieldConfig>
    <fieldName>TerminalNumber</fieldName>
    <minLength>2</minLength>
    <maxLength>3</maxLength>
    <displayLabel>Terminal Number</displayLabel>
  </processorFieldConfig>
</procConfig>
</processor>
</processors>
</getResellerProcessorsResponse>

```

## Output Elements for the getResellerServicesResponse function

The following table lists the elements returned from the payment gateway in response to an API call to the getResellerServicesRequest function.

**Table 15** Output elements for the getResellerServicesResponse function

ELEMENT	VALUE	FORMAT	NOTES
services	Contains information about the resellers buy rate programs		
merchantService	Contains information about a service		
id	The ID for the service		
description	A description of the service	Up to 50 characters	
billAtAccountCreationSettable	Indicates whether the merchant can be billed at time of account creation	T, F	

**Table 15** Output elements for the `getResellerServicesResponse` function

ELEMENT	VALUE	FORMAT	NOTES
<code>serviceBuyRatePrograms</code>	Contains information about the buy rate programs available for the service		Not included in the response
<code>optOut</code>	Indicates whether the merchant should be disabled for a service	true false	Not included in the response

**Example** response from the `getResellerServicesResponse` function

```
<getResellerServicesResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <services>

    <merchantService>
      <id>4</id>
      <description>eCheck.Net Transaction Processing
        <billAtAccountCreationSettable>>false
        </billAtAccountCreationSettable>
      </description>
    </merchantService>
    <merchantService>
      <id>7</id>
      <description>Automated Recurring Billing</description>
    </merchantService>
    <merchantService>
      <id>8</id>
      <description>Payment Gateway Account</description>
    </merchantService>
    <merchantService>
      <id>17</id>
      <description>Customer Information Manager
        </description>
    </merchantService>
    <merchantService>
      <id>19</id>
      <description>Advanced Fraud Detection Suite
        </description>
    </merchantService>
```

```

    </services>
  </getResellerServicesResponse>

```

## Error Response

The following table describes the output elements for an error response to any of the requested API functions.

**Table 16** Output elements for error response

ELEMENT	VALUE	FORMAT	NOTES
refId	Reseller-assigned reference ID for the request	Up to 20 characters	This element is included in the response only if it was included in the request.
messages	Contains information about the results of the request		
resultCode	Contains additional information about the results of the request	Error	The request resulted in one or more errors.
message	Contains the result code and text		Messages provide more details about the error(s).
code	The code that represents the reason for the error		
text	A text description of the error		

### Example Error Response

```

<?xml version="1.0" encoding="utf-8"?>
<ErrorResponse xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Error</resultCode>
    <message>
      <code>E00003</code>
      <text> An error occurred while parsing the XML request.
    </text>
    </message>
  </messages>
</ErrorResponse>

```

## Error Codes

The following table lists the common error codes and texts.

**Table 17** Error codes

CODE	TEXT	DESCRIPTION
E00001	An error occurred during processing. Please try again.	An unexpected system error occurred while processing this request.

**Table 17 Error codes (Continued)**

<b>CODE</b>	<b>TEXT</b>	<b>DESCRIPTION</b>
E00002	The content-type specified is not supported.	The only supported content-types are text/xml and application/xml.
E00003	An error occurred while parsing the XML request.	This is the result of an XML parser error.
E00004	The name of the requested API method is invalid.	The name of the root node of the XML request is the API method being called. It is not valid.
E00005	The transaction key or API key is invalid or not present.	User authentication requires a valid value for transaction key or API key.
E00006	The API user name is invalid or not present.	User authentication requires a valid value for API user name.
E00007	User authentication failed due to invalid authentication values.	The API user name is invalid and/or the transaction key or API key is invalid.
E00008	User authentication failed. The account or API user is inactive.	The payment gateway, reseller, or user account is not currently active.
E00010	User authentication failed. You do not have the appropriate permissions.	The user does not have permission to call the API.
E00011	Access denied. You do not have the appropriate permissions.	The user does not have permission to call the API method.
E00013	The field is invalid.	One of the field values is not valid.
E00014	A required field is not present.	One of the required fields was not present.
E00015	The field length is invalid.	One of the fields has an invalid length.
E00016	The field type is invalid.	The field type is not valid.
E00041	One or more fields must contain a value.	All of the fields were empty or missing.
E00045	The root node does not reference a valid XML namespace.	The root node does not reference a valid XML namespace.
E00046	Generic InsertNewMerchant failure.	Generic InsertNewMerchant failure.
E00047	Merchant Boarding API is not enabled.	The reseller account is not enabled for Merchant Boarding API.
E00048	At least one payment method must be set in payment types or an echeck service must be provided.	The merchant account must be set up to accept credit card payments, eCheck payments, or both.
E00050	Sell Rates cannot be less than Buy Rates	You cannot set a buy rate that is less than the sell rate.

# Acquirer IDs

ACQUIRER ID	ACQUIRER NAME
0	Authorize.Net Corporation
1	Card Payment Systems (CPS)
2	IMA
3	Merchant Processing
4	Total Merchant Services
5	First USA Paymentech
6	Northern Merchant Services
7	Advantage Bank Card Service
8	Electronic Exchange System
9	National Transaction Corporation
10	American National Bank
11	National City Bank of Kentucky & NPC
12	Nova Information Systems
13	Regency Bank
14	Imperial Bank
15	Sedona Financial
16	Bank Of America
17	ACS Merchant Services
18	U.S. Bank
19	Capital City Bank
20	National City Bank
21	Chittenden Bank
22	First Premier Bank
23	Prisom Processing
24	Certified Merchant Services (CMS)
25	Heartland Bank
26	First USA Bank

ACQUIRER ID	ACQUIRER NAME
27	Bank One
28	Bank Of Boulder
29	Humboldt Merchant Services
30	Woodforest National Bank
31	Regions Bank
32	First Bank Of Beverly Hills
33	Equifax Bank
34	CreditCards.Com (or Electronic Card Systems) (ECS)
35	Merchants Choice Card Service (MCCS)
36	Cardservice International (CSI)
37	Harris Bank
38	American Merchants Bank
39	National Bank Of The Redwoods
40	Redding Bank
41	North American Bankcard
43	Mellon Bank
44	Bank Of Oakland
45	First National Bank
46	Superior Bankcard Services
47	Amtrade International Bank
48	Bank Of Bermuda
49	Tehema Bank
50	Compass Bank
51	Union Bank
52	Bridgeview Bank And Trust
53	Arlington Heights
54	First Financial Bank
55	Stockmans Bank
56	Nabanco National Bank
57	First Charter Bank, NA
58	Regents Bank
59	Universal Savings Bank
60	First Bank of Oakland
61	Wells Fargo
62	First National Bank Of Brookings
63	Charter Pacific

ACQUIRER ID	ACQUIRER NAME
64	Network One
65	First American Payment
66	Chevy Chase Bank
67	Chase Merchant Services
68	National Bank Of Commerce
69	Diversified Acquiring Solutions
70	First American Bank
71	First State Bank
72	Innovative Merchant Solutions (IMS)
73	First Savings Bank
74	Costco
75	Quad City Bank
76	First State Bank Of El Dorado
77	South Trust Bank
78	National State Bank (NSB)
80	Central Carolina Bank
81	Michigan National Bank
82	Premium Bankcard Services
83	Passage Maker Services
84	Bank Of Kentucky
85	Key Bank
86	Money Tree
87	Sanwa Bank
88	First Union National Bank
89	Liberty Bank & Trust
90	Fifth Third Bank
91	Zions Bank
92	Rancho Santa Fe National Bank
93	Transcom
94	Commerce Exchange Bank
95	Butte Community Bank
96	Provident Bank
97	M & I Thunderbird Bank
98	First Merchant Bankcard Services
99	Bridgehampton National Bank
100	Citibank

ACQUIRER ID	ACQUIRER NAME
101	EFS National Bank
102	Ocean Bank
103	Citizens National Bank
104	National Payment Center
105	First National Bank of Omaha
106	USAA Federal Savings Bank
107	Redwood Merchant Services
108	Paymentech
109	SunTrust Bank
110	Bankcard Central (BCC)
111	Lake Sunapee Bank
112	Randolph Brooks Federal Credit Union
113	Fleet
114	First National Processing
115	EMS
116	Retriever
117	Firststar Bank
118	AmSouth Bank
120	Frost Bank
121	Washington Mutual
122	Unified Merchant Services
123	Entrust Bank
124	Middle America Bank
125	Charles Schwab
126	Cash Gate
127	Bank Branch and Trust
128	First Security Bank
129	Portage Commerce Bank
130	Isabel Bank and Trust
131	Visanet
132	Bank of the Redland
133	Corpus Christi Postal Employees Credit Union
134	Peoples Heritage
135	California Federal Bank
136	Tehama Bank
137	Foothill Independent Bank

ACQUIRER ID	ACQUIRER NAME
138	HSBC Bank
139	Old Kent Bank
140	The Richland Trust Company
141	Cedars Bank
142	Summit Bank
143	Metcalf Bank
144	National Bank Card
145	National Processing Center
146	Giro Bank
147	Advanced Merchant Service
148	Discover Bank
149	Shore Bank
150	Card Ready
151	Transfund
152	SierraWest Bank
153	First Data Merchant Services
154	Chesapeake Bank
155	First of Omaha
156	Cashgate
157	Bank United
158	Cathay Bank
159	San Juan Bank
160	Asian Pacific National Bank
161	General Bank
162	Lasalle Bank NA
163	Santa Barbara Bank and Trust
164	Merchant Services Inc.
165	The Pikes National Bank
166	First Data Corporation
167	National Data Corporation
168	Bypass
169	National Processing Corporation
170	Elan Bank
171	Israel Discount Bank
172	Comerica
173	First State Bank of Texas

ACQUIRER ID	ACQUIRER NAME
174	APEX Merchant Services
175	Roslyn Savings Bank
176	Sleet Bank
177	First Citizens Bank
178	Card Sync
179	Bank Of The West
180	Union Planners Bank
181	Texas Capital Bank
182	F & M Bank- Massanutten
183	Citizens Bank
184	Mountain High Community Cr. Union
185	California Bank & Trust
186	NatWest Bank
187	Trust Company Bank
188	Huntington Bank
189	Hong Kong & Shanghai Bank
190	Dakota Community Bank
191	Signature Card Services
192	Union National Bank
193	First Merchant Bank
194	Northern Trust
195	Whitney Bank
196	Chase Manhattan Bank
197	Bank of Oklahoma
198	Global Payments, Inc.
199	Woodcreek Bank
200	Navy Federal
201	Chemical Bank
202	American Bank
203	Royal Bank of Canada
204	Providence Bank
205	Minotola National Bank
206	Branch Banking & Trust
207	Transpay
208	Ecommerce Exchange
209	MSITN

<b>ACQUIRER ID</b>	<b>ACQUIRER NAME</b>
210	Mid State Bank
211	Cash Financial Management
212	Commerce Bank
213	Bankcard Systems
214	Bank of Tidewater
215	Sacramento Commercial Bank
216	Transfirst
217	Express Card Services
218	Northfork
221	Commercial Merchant Service
222	iPayment Technologies, Inc.
223	Evans National Bank
224	Coquina Bank
225	Bank Of Stockton
226	National Processing Company
227	Georgia Power
228	Bank of Sullivan
229	First National Bank of Nevada
230	First National Bank of Arizona
231	State Trust Bank
232	Edens
233	Century Bank
234	Commercial Federal
235	Wachovia Bank
236	Security Bankcard Center
237	Orion Payment Systems
238	Processing Source International
239	Colonial Bank
240	Northwest Bankcard
241	First Horizon
242	Midwest Bank Centre
243	Moneris
244	First Central State Bank
245	Cross Country Bank
246	Card Systems / Maverick
247	Corner Stone Payment Systems

ACQUIRER ID	ACQUIRER NAME
248	Siuslaw Valley Bank
249	First Virginia Bank
250	Simmons First National Bank
251	Columbus Bank & Trust
253	Bank of Hawaii
254	boba
255	Online Data Corp.
256	ABM Amro
257	BAC Florida Bank
258	Credomatic of Florida
259	First Midwest Bank
260	Independent Bankers Bank
261	Enterprise National Bank of Palm Beach
263	MBNA
264	Marshall & Isley Bank
265	Riggs Bank
266	Ozaukee Bank
267	Bridgeview Payment Solutions
269	Sovereign Bank
270	Electronic Payment Systems
271	Veritrans
272	Independent Bank of West Michigan
273	First Community Bank of Harbor Springs
274	Seattle Telco Credit Union
275	TGF National Bank
276	Plaza Park Bank
277	Executive Bankcard Services
278	Holmberg Bank
279	Concord Payment Services
280	Bancfirst
281	Guarantee Bank
282	Merchant Services Network
283	Republic Bank & Trust Company
284	Merchants National Bank
285	Associated Bank
286	Transaction Solutions LLC. Pittsburgh PA

<b>ACQUIRER ID</b>	<b>ACQUIRER NAME</b>
287	Central Bancard LLC
288	Merrick
290	United Bank Card

# Processor IDs

PROCESSOR ID	PROCESSOR NAME
1	Nova or Elavon
2	FDC Nashville or FDMS Nashville
4	Vital or TSYS Acquiring Solutions
7	Global Payments or Global Payments East Platform
11	Paymentech (Terminal Capture) or Chase Paymentech Tampa Platform
15	FDCO or FDMS Omaha
16	Concord EFS or FDMS Concord EFSNet
17	CardSystems or Pay By Touch Processing Solutions
18	LynkSystems or RBS Lynk
19	Heartland

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