

Merchant Web Services API

Merchant Boarding

XML Guide

June 2021

Authorize.Net[®]

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Recent Revisions to This Document

Publish Date	Updates
June 2021	Removed getMerchantActivationStatusRequest and getMerchantActivationStatusResponse as these API calls are deprecated. Removed reference to C# sample code as the sample code is no longer available.
April 2015	Added resellerProfileId to " Input Elements for the resellerCreateMerchantRequest Function ," page 16.
November 2015	Fixed URL for production in " Merchant Boarding API URLs ," page 10
July 2015	Added a new production URL to " Merchant Boarding API URLs ," page 10.
February 2015	Removed billAtAccountCreation and billAtAccountCreationSettable because they are now obsolete; the billing process begins when the merchant begins transacting.
February 2014	This revision contains only editorial changes and no technical updates.

About This Guide

Audience and Purpose

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

Conventions

Note, Important, and Warning Statements



Note

A *Note* contains helpful suggestions or references to material not contained in the document.



Important

An *Important* statement contains information essential to successfully completing a task or learning a concept.

Text and Command Conventions Developer

Convention	Usage
bold	<ul style="list-style-type: none"> Field and service names in text; for example: Include the ics_applications field. Items that you are instructed to act upon; for example: Click Save.
monospace	<ul style="list-style-type: none"> XML elements. Code examples and samples. Text that you enter in an API environment; for example: Set the davService_run field to <code>true</code>.

Support

The following resources can help you successfully integrate a merchant web site or other application to the Authorize.Net Payment Gateway.

- The [Developer Center](#) provides sandbox accounts, sample code, FAQs, and troubleshooting tools.
- [Developer training videos](#) cover a variety of topics.
- The [developer community](#) provides answers to questions from other Authorize.Net developers.
- Ask us a question at our [Developer Support](#) page.
- Search our [knowledge base](#) for answers to commonly asked questions.

To submit suggestions for improving or correcting this guide, send email to documentation@authorize.net.

Developer Introduction

The Merchant Boarding Application Programming Interface (MBAPI) provides a mechanism for developers and resellers to add new gateway accounts 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 that 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 [Understanding PCI Compliance](#).

Phases of Boarding Process

- "Discovery," page 9
- "Creation," page 9
- "Activation," page 9

Discovery

During this phase of the boarding process, you obtain information about pricing and services by using the following calls:

- `getServiceBuyRateProgramsRequest`—obtains the service type and market type of the merchant. For more information, see ["Input Elements for the `getServiceBuyRateProgramsRequest` Function," page 14.](#)
- `getResellerProcessorsRequest`—returns a list of processors associated with a specific market. This information is used during the creation phase of merchant boarding. For more information, see ["Input Elements for the `getResellerProcessorsRequest` Function," page 15.](#)
- `getResellerServicesRequest`—returns a list of services that are used during the creation phase of boarding. For more information, see ["Input Elements for the `getResellerServicesRequest` Function," page 13.](#)

Creation

During this phase of the boarding process, you create a gateway account using the **`resellerCreateMerchantRequest`** function. You must submit customer information and identify the services and buy rate programs that they have selected. This information corresponds to the services and buy rate programs selected during the discovery phase. For more information, see ["Input Elements for the `resellerCreateMerchantRequest` Function," page 16.](#)

Activation

During this phase of the boarding process, you have two choices:

- Do nothing else. The merchant receives an activation email as long as you didn't suppress it during the creation phase.
- Generate an activation link using the **`getMerchantActivationLinkRequest`** element. Present this link to the customer so they can go directly into the MINT (merchant interface) activation process. For more information, see ["Input Elements for the `getMerchantActivationLinkRequest` Function," page 37.](#)

During the activation phase, you can use the `getMerchantActivationStatusRequest` element to verify the status of the activation. For more information, see ["Input Elements for the `getMerchantActivationStatusRequest` Function," page 37.](#)

Executing an API Call

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



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

Country Codes

Authorize.Net uses [ISO 3166-1 Alpha-2](#) for country codes.

UK Postal Codes

UK postal codes are case- and space-sensitive. For example, DA2 6FF is valid, but da2 6ff and DA26FF are not.

Merchant Boarding API URLs

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

Production	https://api2.authorize.net/xml/v1/reseller.api Legacy but supported URL: https://api.authorize.net/xml/v1/reseller.api
Developer Test	https://apitest.authorize.net/xml/v1/reseller.api
XML Schema	https://api.authorize.net/xml/v1/schema/ResellerApiSchema.xsd



Do not submit transactions to an IP address. Use the URLs shown above.

Note

API requests and responses must conform to the XML schema.

Authentication

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



Important

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 1 Authentication Fields

Element	Value	Format	Notes
resellerAuthentication	Reseller's account authentication information.		
<ul style="list-style-type: none"> ▪ name 	Reseller's valid login ID.	20-character maximum.	Submit the login ID that the reseller uses to access the reseller interface.
<ul style="list-style-type: none"> ▪ apiKey 	Reseller's valid API key.	16-character maximum.	Submit the API key obtained by the reseller in the reseller interface.

Example 1 Authentication

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

Discovery

Use the following three calls during the discovery phase of the merchant boarding process.

Input Elements for the `getResellerServicesRequest` Function

Only the authentication elements are required in the `getResellerServicesRequest` function.

Table 2 Input Elements for the `getResellerServicesRequest` Function

Element	Value	Format	Notes
resellerAuthentication	Contains the reseller's account authentication information.		
<ul style="list-style-type: none"> ■ name 	The reseller's valid Login ID.	20-character maximum.	Submit the login ID that the reseller uses to access the Reseller Interface.
<ul style="list-style-type: none"> ■ apiKey 	The reseller's valid API Key.	16-character maximum.	Submit the API Key that the reseller obtained in the Reseller Interface.

Example 2 `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>
```

Input Elements for the `getServiceBuyRateProgramsRequest` Function

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

Table 3 Input Elements for the `getServiceBuyRateProgramsRequest` Function

Element	Value	Format	Notes
serviceTypeld	The ID associated with the service buy rate program.	1 (obsolete)	1=FDS (obsolete; use 19).
		4	4=eCheck.Net.
		7	7=ARB.
		8	8=Payment Gateway.
		17	17=CIM.
marketTypeld	The numeric representation of the market type. Required only when serviceTypeld=8 .	19	19=AFDS.
		0	0=e-commerce (web sites).
		1	1=MOTO (Mail Order/Telephone Order).
		2	2=Retail.
			For Card Not Present, this field should be 0 or 1; for Card Present it should be 2. Any other value submitted causes the request to return an error response. This field is ignored unless serviceTypeld=8 .

Example 3 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>
```

Input Elements for the getResellerProcessorsRequest Function

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

Table 4 Input Elements for the getResellerProcessorsRequest Function

Element	Value	Format	Notes
marketTypeId	The numeric representation of the market type.	0	0=e-commerce (web sites).
		1	1=MOTO (Mail Order/Telephone Order).
		2	2=Retail.
			Any other value submitted causes the request to return an error response.

Example 4 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>
```

Creation

Use the following call during the creation phase of merchant boarding.

Input Elements for the resellerCreateMerchantRequest Function

The following table lists the elements you submit in order to execute an API call to the **resellerCreateMerchantRequest** function. Submit these elements in addition to the authentication elements already outlined above. Bullets in the Element column indicate grouping hierarchy. A code sample is shown after the table. 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 5 Input Elements for the resellerCreateMerchantRequest Function

Element	Value	Format	Notes
refid	Reseller-assigned reference ID for the request. Optional.	80-character maximum.	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 information that is necessary in order to add a merchant to the Reseller Interface.		
■ name	The merchant's business name.	255-character maximum.	
■ referenceld	The reseller-assigned reference ID for the merchant. Optional.	20-character maximum.	This ID is separate from the ID assigned by the payment gateway for the merchant.
■ businessAddress	Contains information about the merchant's business address.		
■ streetAddress	The merchant's address.	100-character maximum.	
■ streetAddress2	The second row of the merchant's address.	100-character maximum.	
■ city	The city associated with the merchant's address.	40-character maximum.	

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> ■ state 	The state associated with the merchant's address.	<ul style="list-style-type: none"> ■ US: Valid State, 2 characters. ■ CA: Valid Province, 2 characters. ■ GB: Valid County, 40 characters. ■ AU: Valid State/Territory, 3 characters. ■ Rest of World: 40-character maximum. 	
<ul style="list-style-type: none"> ■ zip 	The zip code associated with the merchant's address.	<ul style="list-style-type: none"> ■ US: Zip code, 10-character maximum. ■ CA: Postal Code, 7 characters. ■ GB: Post Code, 8-character maximum. ■ AU: Postal Code, 4-character maximum. ■ Rest of world: Postal Code, 20-character maximum. 	
<ul style="list-style-type: none"> ■ country 	The country associated with the merchant's address.	2 characters. Must be a valid country code.	
<ul style="list-style-type: none"> ■ phone 	The merchant's phone number.	20-character maximum.	Can be submitted as 123-456-7890 or (123)456-7890.
<ul style="list-style-type: none"> ■ fax 	The merchant's fax number. Optional.	20-character maximum.	Can be submitted as 123-456-7890 or (123)456-7890. If submitted, this field must include a valid value.
<ul style="list-style-type: none"> ■ email 	The merchant's email address.	255-character maximum.	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ● activationEmailBCCList 	A list of email addresses for anyone who needs to receive blind copies of the merchant's activation email.		You can configure a maximum of five emails.

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> • sendActivationEmail 	Optional. Indicates whether or not to send a welcome email to the merchant.	true, false	<p>The default is true. Set it to false if you want to send the email later or post the link on your web site.</p> <p>See "Input Elements for the getMerchantActivationLinkRequest Function" for additional information.</p>
businessInfo	Contains information about the merchant's business.		
<ul style="list-style-type: none"> ■ businessType 	The merchant's business type.	SoleProprietorShip PartnerShip Corporation NonProfit Trust	
<ul style="list-style-type: none"> ■ taxId 	The merchant's tax ID.	9-digit maximum.	
<ul style="list-style-type: none"> ■ ageOfBusiness 	The age of the business.	Whole numbers, no decimals, between 0 and 255 (inclusive).	Enter the number in years that the business has been in operation.
<ul style="list-style-type: none"> ■ productsSold 	The type of products the merchant's business sells.	255-character maximum.	
<ul style="list-style-type: none"> ■ sicCode 	The SIC code associated with the merchant's business.	4-digit maximum.	For a list of valid SIC codes, log in to the Reseller Interface, click Add Merchant and click Look up SIC Code next to the Industry Type field.
<ul style="list-style-type: none"> ■ marketTypeld 	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.		
<ul style="list-style-type: none"> ■ name 	The name of the owner.	40-character maximum.	
<ul style="list-style-type: none"> ■ title 	The owner's title..	40-character maximum.	

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> ■ address 	<p>Contains the owner's address information.</p> <p>Optional.</p>		<p>When submitting this field, include its child elements: streetAddress, streetAddress2, city, state and zip.</p>
<ul style="list-style-type: none"> ● streetAddress 	<p>The owner's street address.</p> <p>Conditional.</p>	100-character maximum.	
<ul style="list-style-type: none"> ● streetAddress2 	<p>Second line of the owner's street address.</p> <p>Conditional.</p>	100-character maximum.	
<ul style="list-style-type: none"> ● city 	<p>The city associated with the owner's address.</p> <p>Conditional.</p>	40-character maximum.	
<ul style="list-style-type: none"> ● state 	<p>The state associated with the owner's address.</p> <p>Conditional.</p>	<ul style="list-style-type: none"> ■ US: Valid State, 2 characters. ■ CA: Valid Province, 2 characters. ■ GB: Valid County, 40 characters. ■ AU: Valid State/Territory, 3 characters. ■ Rest of World: 40-character maximum. 	
<ul style="list-style-type: none"> ■ zip 	<p>The zip code associated with the owner's address.</p> <p>Conditional.</p>	<ul style="list-style-type: none"> ■ US: Zip code, up to 10-character maximum. ■ CA: Postal Code, 7-character maximum. ■ GB: Post Code, 8-character maximum. ■ AU: Postal Code, 4-character maximum. ■ Rest of world: Postal Code, 20-character maximum. 	
<ul style="list-style-type: none"> ■ country 	<p>The country associated with the owner's address.</p> <p>Optional.</p>	<p>2 characters.</p> <p>Must be a valid country code.</p>	<p>Authorize.Net uses ISO 3166-1 Alpha-2 for country codes.</p>

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> ■ phone 	The owner's phone number. Optional.	20-digit maximum.	Can be submitted as 123-456-7890 or (123)456-7890. If submitted, this field must include a valid value.
<ul style="list-style-type: none"> ■ ssn 	The owner's social security number.	9-digit maximum.	
billingInfo	Contains the merchant's billing information.		This field is now deprecated but still supported. It has been replaced by billingProfile .
billingProfile	billingBankInfo or billingCreditCardInfo .		This field replaces billingInfo . For US and CA, both billingBankInfo and billingCreditCardInfo are accepted. For the rest of the world, only billingCreditCardInfo is accepted.
<ul style="list-style-type: none"> ■ billingBankInfo 			
<ul style="list-style-type: none"> ● nameOnBankAccount 	The full name as listed on the bank account.	40-character maximum.	
<ul style="list-style-type: none"> ● bankAccountType 	The type of bank account.	Checking Savings	
<ul style="list-style-type: none"> ● bankAccountOwnerType 	Indicates whether the account is for personal or business use.	Personal Business	
<ul style="list-style-type: none"> ● bankABACode 	The bank routing number.	9 digits.	
<ul style="list-style-type: none"> ● bankAccountNumber 	The bank account number.	Between 5 and 17 digits, inclusive.	
<ul style="list-style-type: none"> ● bankName 	The name of the bank associated with the bank account number.	50-character maximum.	
<ul style="list-style-type: none"> ● bankCity 	The city in which the bank is located.	40-character maximum.	
<ul style="list-style-type: none"> ● bankState 	The state in which the bank is located.	2 characters. Must be a valid state.	

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> bankZip 	The zip code in which the bank is located.	9-digit maximum.	Can be submitted as 5 digits or 5 digits with a hyphen (-) followed by 4 digits.
<ul style="list-style-type: none"> defaultBillingMethod 	true, false		<p>Determines whether or not billingBankInfo is your default billing method.</p> <p>This only applies if you set both credit card and bank account. If you only set one, it will automatically be the default.</p>
billingCreditCardInfo	Contains credit card information.		
<ul style="list-style-type: none"> firstName 	First name on the credit card.	50-character maximum.	
<ul style="list-style-type: none"> lastName 	Last name on the credit card.	50-character maximum.	
<ul style="list-style-type: none"> address 	Address associated with the credit card.		
<ul style="list-style-type: none"> streetAddress 	The street address associated with the credit card.		
<ul style="list-style-type: none"> streetAddress2 	Line 2 of the street address associated with the credit card.		
<ul style="list-style-type: none"> city 	City associated with the credit card.		
<ul style="list-style-type: none"> state 	State associated with the credit card.		
<ul style="list-style-type: none"> zip 	Zip code associated with the credit card.		
<ul style="list-style-type: none"> country 	Country associated with the credit card.		
<ul style="list-style-type: none"> creditCardSimple 	This field contains credit card information.		
<ul style="list-style-type: none"> cardNumber 	The credit card number.	19 characters.	
<ul style="list-style-type: none"> expirationDate 	The expiration date of the credit card.	4 characters.	

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> ■ defaultBillingMethod 	True or False		<p>Determines whether or not billingCreditCardInfo is your default billing method.</p> <p>Applies only if you set both credit card and bank account. If you set only one, it will automatically be the default.</p>
paymentGrouping	Contains the merchant's supported payment types and processors for each payment type.		
<ul style="list-style-type: none"> ■ paymentTypes 	Contains the different payment types that the merchant accepts.		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ● paymentType 	The payment types that 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 services element.
<ul style="list-style-type: none"> ■ processor 	The processors used for the payment type. Optional.		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ● id 	The ID of the processor. See "Processor IDs," page 64 .		Call getResellerProcessorsRequest for a list of the reseller's processors. See Appendix A, "Acquirer IDs," on page 55 for a list of valid processor IDs.
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ● displayName 	The name of the processor.	255-character maximum.	This field is ignored when submitted with resellerCreateMerchantRequest .
<ul style="list-style-type: none"> ■ procConfig 	Contains additional information about the processor.		

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> processorFieldConfig 	Contains the fields to be entered that further describe the processor.		
<ul style="list-style-type: none"> fieldName 	The name of the field.	255-character maximum.	
<ul style="list-style-type: none"> minLength 	The minimum number of characters that the field must contain. Optional.		This field is ignored when submitted with resellerCreateMerchant Request .
<ul style="list-style-type: none"> maxLength 	The maximum number of characters that the field must contain. Optional.		This field is ignored when submitted with resellerCreateMerchant Request .
<ul style="list-style-type: none"> description 	A description of the field. Optional.	50-character maximum.	This field is ignored when submitted with resellerCreateMerchant Request .
<ul style="list-style-type: none"> displayLabel 	The actual text to be displayed to identify the field. Optional.		This text 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 resellerCreateMerchant Request .
<ul style="list-style-type: none"> fieldValue 	The value that will be entered into the field being submitted.	255-character maximum.	
<ul style="list-style-type: none"> acquirerId 	The valid acquirer ID of the processor. See "Acquirer IDs," page 55 . Optional.		For a list of all valid acquirer IDs, see Appendix A, "Acquirer IDs," on page 55 .
<ul style="list-style-type: none"> currencyCodes 	currencyCode		
<ul style="list-style-type: none"> currencyCode 	The currency code.	3 characters.	If currencyCode is not specified, currency defaults to USD. There can be only one currencyCode specified.
<ul style="list-style-type: none"> salesRep 	Contains information about the sales person who enrolled the merchant. Optional.		

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> salesRepName 	<p>The name of the sales person who enrolled the merchant.</p> <p>Optional.</p>	40-character maximum.	
<ul style="list-style-type: none"> salesRepId 	<p>The ID of the sales person who enrolled the merchant.</p> <p>Optional.</p>	10-character maximum.	
<ul style="list-style-type: none"> salesRepCommission 	<p>The commission rate for the sales person who enrolled the merchant.</p> <p>Conditional.</p>	Decimal between 1 and 100.	Required only if salesRep is submitted.
<ul style="list-style-type: none"> services 	<p>Optional. Contains information about the services the merchant for which is enabled.</p>		If the reseller does his or her own billing for any service, pass a value of 0 for the sell rate of that service.
<ul style="list-style-type: none"> merchantService 	<p>Contains information about a service.</p> <p>This section must be submitted with an id field value 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 id field value of 4.</p> <p>Multiple services can be submitted in a single request.</p>		
<ul style="list-style-type: none"> 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.
<ul style="list-style-type: none"> description 	<p>A description of the service.</p> <p>Optional.</p>	50-character maximum.	This field is ignored when submitted with resellerCreateMerchantRequest .

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> ■ resellerProfileId 	Given to you by Authorize.Net during registration.	Numeric String	<p>The unique identifier for your reseller profile.</p> <p>If the services field is submitted at the same time as resellerProfileId, only the resellerProfileId will be processed. If neither field is submitted, the request will fail.</p>
serviceBuyRatePrograms	Contains information about the buy rate programs available for the service. Optional.		<p>Can be submitted only if optOut is not included.</p> <p>serviceBuyRatePrograms and optOut cannot both be passed for the same service.</p>
<ul style="list-style-type: none"> ■ serviceBuyRateProgram 	Contains information about a buy rate program. Conditional.		<p>Required for merchantServiceId=8, 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 merchantServiceId=7.</p>
<ul style="list-style-type: none"> ● id 	The ID of the buy rate program.		
<ul style="list-style-type: none"> ● isDefault 	Indicates whether the buy rate program is the default program. Optional.	true false	This field is ignored when submitted with resellerCreateMerchantRequest .
<ul style="list-style-type: none"> ● isSelfProvisioning 	Indicates whether the buy rate program is self-provisioning. Optional.	true false	This field is ignored when submitted with resellerCreateMerchantRequest .

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> description 	A description of the buy rate program. Optional.	255-character maximum.	This field is ignored when submitted with resellerCreateMerchantRequest .
<ul style="list-style-type: none"> 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 getServiceBuyRateProgramsRequest function for that information.		
<ul style="list-style-type: none"> fee 	The fees associated with the buy rate program.		
<ul style="list-style-type: none"> 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 getServiceBuyRateProgramsRequest for that information. If no sellRate element is submitted for fee ID 11 or 19 (gateway fee and transaction fee), the sell rate for that fee is set to 0.
<ul style="list-style-type: none"> singleTiered 	Indicates whether the fee is single-tiered.	true false	This field is ignored when submitted with resellerCreateMerchantRequest . System values will be returned in the response. Call getServiceBuyRateProgramsRequest for those values.
<ul style="list-style-type: none"> rateType 	Indicates whether the rate is a dollar rate or a percentage. Optional.		This section is ignored when submitted with resellerCreateMerchantRequest . System values will be returned in the response. Call getServiceBuyRateProgramsRequest for those values.

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> id 	The ID of the rate type.		This field is ignored when submitted with resellerCreateMerchantRequest .
<ul style="list-style-type: none"> description 	A description of the rate type. Optional.	50-character maximum.	This field is ignored when submitted with resellerCreateMerchantRequest .
<ul style="list-style-type: none"> tiers 	Contains information about the available tiers for a fee. Optional.		
<ul style="list-style-type: none"> 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 getServiceBuyRateProgramsRequest for that information.
<ul style="list-style-type: none"> id 	The ID associated with a tier. Conditional.		Required only when more than one fee tier is specified for the fee.
<ul style="list-style-type: none"> lowerThreshold 	The value that identifies the lowest point for the tier. Optional.		The value provided 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 resellerCreateMerchantRequest .
<ul style="list-style-type: none"> sellRate 	The sell rate associated with a tier.	Up to 4 digits after the decimal point (no dollar symbol). For example, 12.99 or 12.9999.	Value can be different from system value only if settable=true in the getServiceBuyRateProgramsResponse . Value should only be 0 if the reseller does his or her own billing for the service.

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> buyRate 	The buy rate associated with a tier. Optional.		This field is ignored when submitted with resellerCreateMerchantRequest . System values will be returned in the response. Call getServiceBuyRateProgramsRequest for those values.
<ul style="list-style-type: none"> description 	A description of the fee. Optional.	255-character maximum.	This field is ignored when submitted with resellerCreateMerchantRequest .
<ul style="list-style-type: none"> 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 merchantService . serviceBuyRatePrograms and optOut 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.
<ul style="list-style-type: none"> deviceInfo 			
<ul style="list-style-type: none"> <ul style="list-style-type: none"> 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 VirtualTerminal is set up automatically, there is no need to include it in the request.

Table 5 Input Elements for the resellerCreateMerchantRequest Function (Continued)

Element	Value	Format	Notes
<ul style="list-style-type: none"> state 	The state in which the device is registered.	US: Valid State, 2 characters. CA: Valid Province, 2 characters. GB: Valid County, 40 characters. AU: Valid State/Territory, 3 characters. Rest of World: Up to 40-character maximum.	
<ul style="list-style-type: none"> zip 	The zip code in which the device is registered.	US: Zip, 10-character maximum. CA: Postal Code, 7-character maximum. GB: Post Code, 8-character maximum. AU: Postal Code, 4-characters maximum. Rest of world: Postal Code—20-character maximum.	Can be submitted as either 5 digits or 5 digits with a hyphen (-) followed by 4 digits.
<ul style="list-style-type: none"> country 	The country in which the device is registered.	2 characters. Must be a valid country code.	

Example 5 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>
      <streetAddress2>Suite #100</streetAddress2>
      <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>
    <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>
        <streetAddress2>Suite #100</streetAddress2>
        <city>Bellevue</city>
        <state>WA</state>
        <zip>98004</zip>
        <country>US</country>
      </address>
      <phone>(425) 555-1212</phone>
      <ssn>111223333</ssn>
    </ownerInfo>
    <billingProfile>
      <billingBankInfo>

```

```

<nameOnBankAccount>Joe Blow</nameOnBankAccount>
<bankAccountType>Checking</bankAccountType>
<bankAccountOwnerType>Business</bankAccountOwnerType>
<bankABACode>125000024</bankABACode>
<bankAccountNumber>1111222233334444</bankAccountNumber>
<bankName>Bank of America</bankName>
<bankCity>Bellevue</bankCity>
<bankState>WA</bankState>
<bankZip>98004</bankZip>
<defaultBillingMethod>>false</defaultBillingMethod>
</billingBankInfo>
<billingCreditCardInfo>
  <firstName>Joe</firstName>
  <lastName>Blow</lastName>
  <address>
    <streetAddress>11790 178th PL NE</streetAddress>
    <streetAddress2></streetAddress2>
    <city>Bellevue</city>
    <state>WA</state>
    <zip>98004</zip>
    <country>US</country>
  </address>
  <creditCardSimple>
    <cardNumber>4111111111111111</cardNumber>
    <expirationDate>11/14</expirationDate>
  </creditCardSimple>
  <defaultBillingMethod>true</defaultBillingMethod>
</billingCreditCardInfo>
</billingProfile>
<paymentGrouping>
  <paymentTypes>
    <paymentType>V</paymentType>
    <paymentType>M</paymentType>
    <paymentType>A</paymentType>
    <paymentType>D</paymentType>
    <paymentType>C</paymentType>
    <paymentType>J</paymentType>
  </paymentTypes>
  <processor>
    <id>2</id>
    <displayName></displayName>
    <procConfig>
      <processorFieldConfig>
        <fieldName>MerchID</fieldName>
        <fieldValue>123456</fieldValue>
      </processorFieldConfig>
      <processorFieldConfig>
        <fieldName>TermID</fieldName>
        <fieldValue>123456</fieldValue>
      </processorFieldConfig>
    </procConfig>
    <acquirerId>44</acquirerId>
    <currencyCodes>

```

```

        <currencyCode>USD</currencyCode>
    </currencyCodes>
</processor>
</paymentGrouping>
<salesRep>
    <salesRepName>Joe Smith</salesRepName>
    <salesRepId>121</salesRepId>
    <salesRepCommission>5.6</salesRepCommission>
</salesRep>
<services>
    <merchantService>
        <id>8</id>
<resellerProfileId>20</resellerProfileId>
<serviceBuyRatePrograms>
    <serviceBuyRateProgram>
        <id>118</id>
        <fees>
            <fee>
                <id>11</id>
                <singleTiered>true</singleTiered>
                <tiers>
                    <feeTier>
                        <sellRate>20.0000</sellRate>
                    </feeTier>
                </tiers>
            </fee>
            <fee>
                <id>19</id>
                <singleTiered>true</singleTiered>
                <tiers>
                    <feeTier>
                        <sellRate>0.1000</sellRate>
                    </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>
            </fees>
        </serviceBuyRateProgram>
    </serviceBuyRatePrograms>
</merchantService>

```

```

</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>
<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>
  </tiers>

```



```

        <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>
      <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>
    <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>
    </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>

```

Activation

The following functions can be used during the Activation phase of merchant boarding.

Input Elements for the `getMerchantActivationLinkRequest` Function

The following table lists the elements you must submit in order 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 6 Input Elements for `getMerchantActivationLinkRequest`

Element	Value	Format	Notes
merchantId	The merchant's ID number.	Numeric	
sendActivationEmail	Indicates whether to send a welcome email to the merchant with the activation URL.	true, false	

Example 6

```
<?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>
```

XML Responses

The transaction response from the payment gateway is a set of fields that provides information about the status of a request. The following sections describe the output elements that are returned in response to successful API calls.

Discovery

The following three functions are used during the Discovery phase of the merchant boarding process.

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 8 Output Elements for the `getServiceBuyRateProgramsResponse` Function

Elements	Value	Format	Notes
<code>serviceBuyRatePrograms</code>	Contains information about the buy rate programs available for the service.		
<ul style="list-style-type: none"> ■ <code>serviceBuyRateProgram</code> <ul style="list-style-type: none"> • <code>id</code> <ul style="list-style-type: none"> • The ID of the buy rate program. • <code>isDefault</code> <ul style="list-style-type: none"> • Indicates whether the buy rate program is the default program. • Optional. 		<ul style="list-style-type: none"> • true • false 	

Table 8 Output Elements for the getServiceBuyRateProgramsResponse Function (Continued)

Elements	Value	Format	Notes
<ul style="list-style-type: none"> isSelfProvisioning 	<ul style="list-style-type: none"> Indicates whether the buy rate program is self-provisioning. Optional. 	true false	
<ul style="list-style-type: none"> description 	<ul style="list-style-type: none"> A description of the buy rate program. Optional. 	255-character maximum.	
<ul style="list-style-type: none"> fees 	Contains information about the fees associated with a buy rate program.		
<ul style="list-style-type: none"> fee 	The fees associated with the buy rate program.		
<ul style="list-style-type: none"> id 	The ID of the fee associated with the buy rate program.		
<ul style="list-style-type: none"> singleTiered 	Indicates whether the fee is single-tiered.	true false	System values will be returned in the response.
<ul style="list-style-type: none"> rateType 	Indicates whether the rate is a dollar rate or a percentage. Optional.		System values will be returned in the response.
<ul style="list-style-type: none"> id 	The ID of the rate type.		
<ul style="list-style-type: none"> description 	A description of the rate type. Optional.	50-character maximum.	
<ul style="list-style-type: none"> tiers 	Contains information about the tiers available for a fee. Optional.		
<ul style="list-style-type: none"> feeTier 	The tier information associated with a fee. Optional.		
<ul style="list-style-type: none"> id 	The ID associated with a tier. Optional.		
<ul style="list-style-type: none"> lowerThreshold 	The value that identifies the lowest point for the tier. Optional.		The value provided is the lowest possible value for the tier. For a tier of 101-200, the lower threshold would be 101.

Table 8 Output Elements for the getServiceBuyRateProgramsResponse Function (Continued)

Elements	Value	Format	Notes
• sellRate	The sell rate associated with a tier.	4-digit maximum 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.	255-character maximum.	
• settable	Indicates whether the sell rate can be set to a customer value. Optional.	true false	If this field is not included in the response, it should be treated the same as if a value of false were returned.

Example 8 getServiceBuyRateProgramsResponse

```
<?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>

```



```

</fee>
<fee>
  <id>19</id>
  <singleTiered>true</singleTiered>
  <rateType>
    <id>1</id>
    <description>Dollar</description>
  </rateType>
  <tiers>
    <feeTier>
      <sellRate>-1</sellRate>
      <buyRate>0.1000</buyRate>
    </feeTier>
  </tiers>
  <description>Credit Card Per-Transaction 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>
    </fee>
  </fees>
</serviceBuyRateProgram>

```

```

        </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 9 Output Elements for the `getResellerProcessorsResponse` Function

Element	Value	Format	Notes
processors	Contains information about the resellers buy rate programs.		
<ul style="list-style-type: none"> ■ processor 	The processors used for the payment type. Optional.		
<ul style="list-style-type: none"> • id 	The ID of the processor.		See Appendix B, "Processor IDs," on page 64 for a list of valid processor IDs.
<ul style="list-style-type: none"> • displayName 	The name of the processor.	255-character maximum.	
<ul style="list-style-type: none"> • procConfig 	Contains additional information about the processor.		
<ul style="list-style-type: none"> • processorField Config 	Contains the fields to be entered that will further describe the processor.		
<ul style="list-style-type: none"> • fieldName 	The name of the field.	255-character maximum.	
<ul style="list-style-type: none"> • minLength 	The minimum number of characters the field can contain. Optional.		
<ul style="list-style-type: none"> • maxLength 	The maximum number of characters the field can contain. Optional.		

Table 9 Output Elements for the getResellerProcessorsResponse Function

Element	Value	Format	Notes
• description	A description of the field . Optional.	50-character maximum.	
• 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.
• fieldValue	The value that will be entered into the field being submitted.	255-character maximum.	
• acquirerId	The valid acquirer ID of the processor. Optional.		For a list of all valid acquirer IDs, see Appendix A, "Acquirer IDs," on page 55. Not included in the response.

Example 9 getResellerProcessorsResponse

```
<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>
        </processorFieldConfig>
      </procConfig>
    </processor>
  </processors>
</getResellerProcessorsResponse>
```

```

        <maxLength>11</maxLength>
        <displayLabel>Terminal ID (TID)</displayLabel>
    </processorFieldConfig>
</procConfig>
</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 10 Output Elements for the `getResellerServicesResponse` Function

Element	Value	Format	Notes
services	Contains information about the resellers buy rate programs.		
<ul style="list-style-type: none"> ▪ merchantService 	Contains information about a service.		
<ul style="list-style-type: none"> • id 	The ID for the service.		
<ul style="list-style-type: none"> • description 	A description of the service.	50-characters maximum.	

Table 10 Output Elements for the getResellerServicesResponse Function (Continued)

Element	Value	Format	Notes
serviceBuyRatePrograms	Contains information about the buy rate programs available for the service.		Not included in the response.
optOut	Indicates whether the merchant should be disabled for a service.	true false	Not included in the response.

Example 10 getResellerServicesResponse

```
<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
      </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>
```

Creation

The following call is used during the Creation phase of merchant boarding.

Output Elements for the resellerCreateMerchantResponse Function

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

Table 11 Output Elements for the resellerCreateMerchantResponse Function

Elements	Value	Format	Notes
refId	Reseller-assigned reference ID for the request.	80-character maximum.	This element is included in the response only if it was included in the request.
messages	Contains information about the results of the request.		
<ul style="list-style-type: none"> ■ 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.
<ul style="list-style-type: none"> ■ message <ul style="list-style-type: none"> ● code ● text 	For information on these three fields, see "Error Response," page 53 .		
merchantId	The payment gateway assigned identification number for the merchant.	13-digits maximum.	

Example 11 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.

Activation

Output Elements for the getMerchantActivationLinkResponse Function

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

Table 12 Elements Returned for the getMerchantActivationLinkResponse Function

Element	Value	Format	Notes
messages	Contains information about the results of the request.		
<ul style="list-style-type: none"> ■ 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.
<ul style="list-style-type: none"> • message • code • text 	For information on these three fields, see "Error Response," page 53 .		

Table 12 Elements Returned for the getMerchantActivationLinkResponse Function (Continued)

Element	Value	Format	Notes
activationLink	The URL and activation code for the merchant to activate the account.		

Example 12 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>
```

Error Response

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

Table 13 Output Elements for Error Response

Element	Value	Format	Note
refId	Reseller-assigned reference ID for the request.	80-character maximum.	This element is included in the response only if it was included in the request.
messages	Contains information about the results of the request.		
<ul style="list-style-type: none"> ■ resultCode 	Contains additional information about the results of the request.	Error	The request resulted in one or more errors.
<ul style="list-style-type: none"> ■ message 	Contains the result code and text.		Messages provide more details about the error(s).
<ul style="list-style-type: none"> • code 	The code that represents the reason for the error.		
<ul style="list-style-type: none"> • text 	A text description of the error.		

Example 13 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 common error codes and texts.

Table 14 Error Codes

Code	Text	Description
E00001	An error occurred during processing. Please try again.	An unexpected system error occurred while processing this request.
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.

Table 14 Error Codes (Continued)

Code	Text	Description
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.
E00065	Prerequisite failed.	
E00086	Merchant has declined authorization to resource.	The merchant did not give permission to use this resource.

Acquirer IDs

Table 16 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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
26	First USA Bank
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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
62	First National Bank of Brookings
63	Charter Pacific
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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
98	First Merchant Bankcard Services
99	Bridgehampton National Bank
100	Citibank
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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
134	Peoples Heritage
135	California Federal Bank
136	Tehama Bank
137	Foothill Independent Bank
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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
169	National Processing Corporation
170	Elan Bank
171	Israel Discount Bank
172	Comerica
173	First State Bank of Texas
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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
204	Providence Bank
205	Minotola National Bank
206	Branch Banking & Trust
207	Transpay
208	Ecommerce Exchange
209	MSITN
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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
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
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

Table 16 Acquirer IDs (Continued)

Acquirer ID	Acquirer Name (Continued)
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
287	Central Bancard LLC
288	Merrick
290	United Bank Card

Processor IDs

Table 17 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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