



Merchant Web Services API

Customer Information Manager (CIM)

XML Guide

Authorize.Net Developer Support

<http://developer.authorize.net>

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Revision History

This table lists the changes made in the last six releases of this document:

PUBLISH DATE	UPDATES
September 2009	Added note describing credit card authorizations for Visa transactions
April 2010	Updated table of error codes Added explanatory guidelines for createCustomerProfileTransactionRequest for Refund transactions.
June 2010	Changes required for Partial Authorization processing
July 2010	Corrected code examples
May 2011	Added hosted option Clarified validationMode
August 2011	Corrected broken link

Developer Introduction

This guide describes the Web development required to create and manage customer profile information for the purpose of submitting transactions to the Authorize.Net Payment Gateway directly from a Web site or other application using extensible markup language (XML).

Specifically, the Authorize.Net Customer Information Manager (CIM) Application Programming Interface (API) provides a mechanism for developers and value-added resellers (VARs) to create, delete, retrieve, and update customer profile information, including payment and address information, by directly integrating client software and the Authorize.Net Payment Gateway.

The CIM API accomplishes these functions through an XML call and subsequent XML response.

Integration Methods

The two methods for integrating payments, Standard API and Hosted API, can accommodate a range of business needs and coding abilities.

Standard API

You can use the API to submit transaction information to Authorize.Net when your customers enter data on your website. When the customer enters the data, your website calls the API using either XML or SOAP.

The choice of XML or SOAP depends on the programming language you use. For PHP and Ruby, XML is recommended. For C# and other .NET languages, SOAP is recommended. With Java, either will work.

For information regarding requirements for using the API, see “Minimum Requirements” below.

Hosted API

For a more secure exchange of information, the hosted API enables you to establish a hosted connection on Authorize.Net secure servers. If the merchant needs to transmit sensitive cardholder information (for example, a customer needs to change credit card information or add a new payment method), you can use the hosted CIM option. With the hosted CIM option, credit card data never flows through your website. You can implement the hosted option using either XML or SOAP.

You must still use the standard API (either SOAP or XML) for some operations, such as creating a transaction. The hosted page only provides functionality for creating, updating, and deleting payment profiles and shipping addresses.

For more information, refer to "[Using the Hosted API](#)" on page 4.

Minimum Requirements

Before you begin integrating for an Authorize.Net Payment Gateway account, check with the merchant to make sure that the following minimum requirements have already been met.

- The merchant must have a U.S.-based merchant bank account that allows Internet transactions.
- The merchant must have an active Authorize.Net Card Not Present Payment Gateway account.
- The merchant must have signed up for the CIM service.
- The merchant must store account authentication data securely (for example, API login ID, transaction key).
- The merchant's website must use HTTPS.
- The merchant's website must support secure user registration for returning users.

Note: Merchants should avoid storing any type of sensitive cardholder information. However, if a merchant or third party 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.

Developer Support

Several resources are available to help you successfully integrate a merchant Web site or other application to the Authorize.Net Payment Gateway.

- The Developer Center at <http://developer.authorize.net> provides test accounts, sample code, FAQs, and troubleshooting tools.
- If you can't find what you need in the Developer Center, our Integration Team is available to answer your questions by email at integration@authorize.net.
- Be sure to read our "Developer Security Best Practices White Paper" at <http://www.authorize.net/files/developerbestpractices.pdf> for information on how to maximize the security and reliability of your merchant integration solutions.

If you have suggestions for improving or correcting this guide, send email to documentation@authorize.net.

Software Development Kits

Authorize.Net offers software development kits (SDKs) that present an alternate object-oriented model in several popular languages. Use the SDK to program the core payment activities (such as error handling and parsing, network communication, and data encoding) that occur behind the scenes.

The SDK provides utility methods to help developers build payment flows for each of the integration methods. You can download the SDKs at <http://developer.authorize.net/downloads/>.

Using the Hosted API

Merchants can connect their customers directly to the Authorize.Net website if they need to transmit sensitive data such as changes in payment profiles. The purpose of the hosted CIM option is to collect data, not to process payments. Payments are processed using the standard CIM API in which payment data is represented by a profile ID.

The steps in a typical hosted CIM process are:

- 1 A customer registers an account with a merchant website.
- 2 The merchant calls Authorize.Net API method `createCustomerProfileRequest` to create an empty profile.
 - Input: customer's email address and/or other identifier that the merchant uses to identify this customer.
 - Output: customer profile ID.
- 3 The customer logs on to the merchant website.
- 4 The merchant calls Authorize.Net API method `getHostedProfilePageRequest` to get a token.
 - Inputs: customer profile ID and a list of settings that control how the customer interacts with the Authorize.Net page. See "[Guidelines for Parameter Settings](#)" on page 13 for a description of the settings.
 - Output: token (expires in 15 minutes).
- 5 The merchant displays a button on their website.
- 6 The customer clicks the button and either is directed to the Authorize.Net page, or the Authorize.Net page is opened within the merchant's website as a lightbox popup with an `iframe`.
- 7 The customer makes changes to their credit card information, eCheck.Net information, or shipping information.
- 8 The customer returns to the merchant website by clicking a button or closing the popup.
- 9 The merchant calls Authorize.Net API method `getCustomerProfileRequest` to see changes made by the customer.
 - Input: customer profile ID.

- Output: list of payment profiles with sensitive fields masked, list of shipping addresses.
- 10 The merchant can call `createCustomerProfileTransactionRequest` at any time to charge the credit card (or eCheck.Net).

Designing Your Web Page

There are three ways to integrate your website with the Authorize.Net Payment Gateway:

- Direct the customer to Authorize.Net to manage payments and shipping all on one page. See the ["Example of a redirect to the hosted page"](#) on page 6.
- Open a lightbox popup with an iframe within your web page so that the customer can manage payments and shipping all within one popup.
- Open a lightbox popup with an iframe within your web page so that the customer can add or edit individual payment profiles and shipping addresses. Screen examples begin on [page 8](#).

A lightbox popup in an iframe is similar to a popup window, but it does not open a new browser page. Instead, it appears on top of other elements on the page. For an example, see ["Add payment "](#) on page 8.

Implementing a Redirect to Authorize.Net

To implement hosted CIM access by using a redirect to Authorize.Net, follow these steps.

- 1 When you receive the token returned by the `getHostedProfilePageResponse` function call, put a hidden form somewhere on your page (the value for the token will be the value returned by the function call).

If you are using the test environment, replace `secure.authorize.net/profile/manage` with `test.authorize.net/profile/manage`.

Example opening a new page for the Authorize.Net host

```
<form method="post" action="https://secure.authorize.net/profile/
manage" id="formAuthorizeNetPage" style="display:none;">

<input type="hidden" name="Token"
value="pfGaUNntoTxZYeqqYDjGCQ4qyCHcsXGXLJ2i7MPCEiH6CH5n5qKqcl8EBiTClxu
01BSeH5eZg7LVUVVzw5kJKVMitQ3pyMB5UZCduMwd6Ku9aT2gyFm69EKMGfyWPmI4p+Bb4
TJf2F07rInSrn2MWlM6f2xd7aRu1XBn0WXoPxK1j9FMGX2CNCocBp3cOXB7"
/>

</form>
```

- 2 Add a button on your page that redirects the customer to Authorize.Net's secure site. You can customize the text:

```
<input type="button" onclick= "document.getElementById(
'formAuthorizeNetPage').submit();">Manage my payment and shipping
information</button>
```

In this example, the `Manage my payment and shipping information` button directs users to the Authorize.Net Customer Information Manager Hosted page, where they can:

- Create a new payment profile
- Update or delete current credit card or bank information
- Enter a new shipping address
- Update or delete current shipping address

A link on the bottom of the page returns customers to the merchant's website.

The following figure shows what customers see when they are connected to the Authorize.Net hosted page.

Figure 1 Example of a redirect to the hosted page

The screenshot displays a web interface for managing payment and shipping information. It features two main sections: 'Payment Information' and 'Shipping Information'. Each section includes a header with a title and a link to 'Add a New' method or address. Below each header are 'Edit' and 'Delete' links. The 'Payment Information' section shows a card number (masked as ****1111), an expiration date of 11/11, and a billing address for Donald Trump. The 'Shipping Information' section shows a shipping address for Irene Messerschmidt. At the bottom of the page is a 'Continue to blah' button and the 'POWERED BY Authorize.Net' logo.

Payment Information	Add a New Payment Method
Edit Delete	
Card Number: ****1111	
Expiration Date: 11/11	Edit
Billing Address:	
	Donald Trump
	CompanyNameHere
	One Main Street
	New York, NY 10001
	814-999-6000

Shipping Information	Add a New Shipping Address
Edit Delete	
Shipping Address:	
	Irene Messerschmidt
	Two Front Street
	Issaquah, WA 98004
	425-586-6000

POWERED BY **Authorize.Net**

Creating an iframe popup

To open the Authorize.Net hosted page in a popup inside your web page, follow these steps:

- place an `<iframe>` tag on your page. Add other elements around it, such as a `<div>` tag and some images to give it borders and shading. Make it appear in the middle of your page, covering anything else that might be on the page.
- Put a hidden `<form>` tag on your page with a hidden field inside it that includes the token from the call to the `getHostedProfilePageResponse` API function. The `<form>` tag should have a target attribute pointing to the id or name of the iframe. The Authorize.Net hosted page provides a way to dynamically change the size of your popup so that there are no scroll bars.

For the full documentation of this integration method, download the sample application at <http://developer.authorize.net/downloads/samplecode/>, listed under Customer Information Manager (CIM). You can find zip files containing all the necessary HTML code as well as instructions to create iframe popups for managing payment and shipping information on the same page, or separately.

To implement...	Select
iframe popup for managing payment and shipping information on the same page	hostedProfileManage.zip
iframe popup for managing only payment information	hostedProfilePaymentsShipping.zip
iframe popup for managing shipping information	hostedProfilePaymentsShipping.zip

You can design your popup so that it manages either the payment and shipping information on the same page, or you can add buttons that manage payment and shipping information separately.

The following illustrations show popup examples, with their associated buttons.

Add a new payment method

The following HTML code adds a button labeled “Add a New Payment Method” which, when clicked, opens an iframe:

```
<button onclick="AuthorizeNetPopup.openAddPaymentPopup()">Add a New Payment Method</button>
```

Figure 2 Add payment

The screenshot shows a modal dialog box titled "Add a New Payment Method" with a lock icon in the top right corner. The dialog is divided into two main sections. The top section contains two radio buttons: "Credit Card" (which is selected) and "Bank Account (USA only)". Below these are three input fields: "Card Number" (with an asterisk), "Expiration Date" (with an asterisk and "(mm,yy)" hint), and "Card Code" (with a "What's this?" link). The bottom section is titled "Billing Information" and contains several input fields: "First Name", "Last Name", "Company", "Address", "City", "State", "Zip", "Country", "Phone", and "Fax". At the bottom of the dialog are two buttons: "Save" and "Cancel".

Edit payment information

The following HTML code adds a button labeled “Edit Payment Method” which, when clicked, opens an iframe:

```
<button onclick="AuthorizeNetPopup.openEditPaymentPopup('123456')">Edit Payment Method</button>
```

Replace '123456' with the payment profile ID.

Add a button with the PaymentProfileId for each payment profile.

Figure 3 Edit payment information

The screenshot shows a web-based form titled "Edit Payment Information". It is divided into two main sections. The top section, "Edit Payment Information", contains three input fields: "Card Number" (masked with asterisks), "Expiration Date" (masked with asterisks and labeled "(mm./yy)"), and "Card Code" (with a "What's this?" link). The bottom section, "Edit Billing Information", contains several input fields: "First Name" (John), "Last Name" (Doe), "Company", "Address" (123 Test St), "City" (Seattle), "State" (WA), "Zip" (98102), "Country" (USA), "Phone" (555-555-5555), and "Fax". At the bottom of the form are "Save" and "Cancel" buttons.

Add a new shipping address

The following HTML code adds a button labeled “Add a new shipping address” which, when clicked, opens an iframe:

```
<button onclick="AuthorizeNetPopup.openAddShippingPopup()">Add a New Shipping Address</button>
```

Figure 4 Add a new shipping address



The image shows a screenshot of a web form titled "Add a New Shipping Address". The form is contained within a light gray border. It features several input fields for user information: "First Name", "Last Name", "Company", "Address", "City", "State", "Zip", "Country", "Phone", and "Fax". The "First Name" field is highlighted with a yellow border. At the bottom of the form, there are two buttons: "Save" and "Cancel".

Edit shipping address

The following code adds a button labeled “Edit shipping address” which, when clicked, opens an iframe:

```
<button onclick="AuthorizeNetPopup.openEditShippingPopup('123456')">Edit Shipping Address</button>
```

Replace '123456' with the shipping address ID.

Add a button with the ShippingAddressId for each shipping address.

Figure 5 Edit shipping address

The image shows a dialog box titled "Edit Shipping Address". It contains the following fields and values:

- First Name: John
- Last Name: Doe
- Company: (empty)
- Address: 123 Test St
- City: Seattle
- State: WA
- Zip: 98102
- Country: USA
- Phone: 555-555-5555
- Fax: (empty)

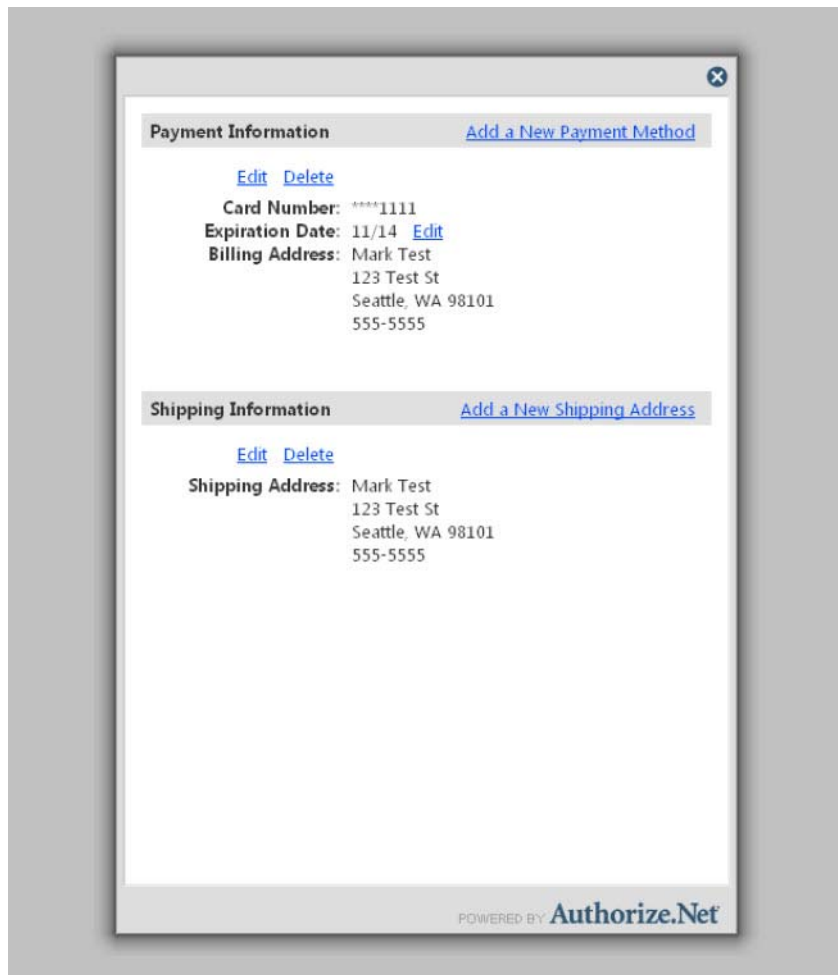
At the bottom of the dialog are two buttons: "Save" and "Cancel".

Manage payment and shipping

Enter the following HTML code to add a button labeled “Manage my payment and shipping information” which, when clicked, opens an iframe:

```
<button onclick="AuthorizeNetPopup.openManagePopup()">Manage my payment  
and shipping information</button>
```

Figure 6 Manage payment and shipping



Guidelines for Parameter Settings

To integrate to the hosted page as a redirect, pass `hostedProfileReturnUrl` and `hostedProfileReturnUrlText`. Do not pass `hostedProfileIFrameCommunicatorUrl`. The parameter `hostedProfilePageBorderVisible=true` is optional. Do not pass `hostedProfilePageBorderVisible=false`.

To integrate to the hosted page as a popup, do not pass `hostedProfileReturnUrl` or `hostedProfileReturnUrlText`. Pass `hostedProfilePageBorderVisible=false` and pass `hostedProfileIFrameCommunicatorUrl`.

The following table shows possible settings:

Parameter	Description
<code>hostedProfileReturnUrl</code>	Enter the URL for the page the customer returns to when the hosted session ends. Do not pass this setting for iframes or popups. The return URL is validated to verify that it begins with <code>http://</code> or <code>https://</code> .
<code>hostedProfileReturnUrlText</code>	Enter the text to display on the button that returns the customer to your website. The value can be any text up to 200 characters. If you do not pass this parameter, the default button text is <i>Continue</i> . Do not pass this setting for iframes or popups.
<code>hostedProfilePageBorderVisible</code>	Enter true or false. Must be false for iframes or popups, and must be true for redirects.
<code>hostedProfileHeadingBgColor</code>	Enter a hex color string such as <code>#e0e0e0</code> . The background color of the section headers changes from gray to a custom color.
<code>hostedProfileIFrameCommunicatorUrl</code>	Enter the URL to a page that can communicate with the merchant's main page using javascript. This enables you to dynamically change the size of the popup so there are no scroll bars. This parameter is required only for iframe or lightbox applications.

Chapter 3

Executing an API Call

The following sections describe the minimum requirements for executing an API call for managing customer profiles using XML.

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

- Develop a custom script yourself using the API field information provided in this document
- Use Authorize.Net sample code in C# and Java available for free from our Developer Center at <http://developer.authorize.net/samplecode>.

Note If you choose to use Authorize.Net sample code, please be aware that in order to achieve a successful implementation, you must modify the code with developer test account or the merchant's specific payment gateway account information.

Web Service Locations

The following table shows where to find the API.

ITEM	LOCATION
Web Service URL in Production	https://api.authorize.net/xml/v1/request.api
Web Service URL in Developer Test	https://apitest.authorize.net/xml/v1/request.api
WSDL	https://api.authorize.net/xml/v1/schema/AnetApiSchema.xsd

In order to be processed successfully, API requests and responses must conform to the CIM API XML schema.

Note The developer test URL requires the use of a developer test payment gateway account. You can request a test account from our Developer Center at <http://developer.authorize.net/testaccount>. Developer test accounts cannot be used to test your implementation against the production URL.

CIM Functions

The CIM API comprises these functions:

- `createCustomerProfileRequest` – Create a new customer profile along with any customer payment profiles and customer shipping addresses for the customer profile.
- `createCustomerPaymentProfileRequest`—Create a new customer payment profile for an existing customer profile.
- `createCustomerShippingAddressRequest`—Create a new customer shipping address for an existing customer profile.
- `createCustomerProfileTransactionRequest`—Create a new payment transaction from an existing customer profile.
- `deleteCustomerProfileRequest`—Delete an existing customer profile along with all associated customer payment profiles and customer shipping addresses.
- `deleteCustomerPaymentProfileRequest`—Delete a customer payment profile from an existing customer profile.
- `deleteCustomerShippingAddressRequest`—Delete a customer shipping address from an existing customer profile.
- `getCustomerProfileIdsRequest`—Retrieve all customer profile IDs you have previously created.
- `getCustomerProfileRequest`—Retrieve an existing customer profile along with all the associated customer payment profiles and customer shipping addresses.
- `getCustomerPaymentProfileRequest`—Retrieve a customer payment profile for an existing customer profile.
- `getCustomerShippingAddressRequest`—Retrieve a customer shipping address for an existing customer profile.
- `getHostedProfilePageRequest`—sends a request for access to the hosted CIM page. The response includes a token that enables customers to update their information directly on the Authorize.Net website.
- `updateCustomerProfileRequest` – Update an existing customer profile.
- `updateCustomerPaymentProfileRequest` – Update a customer payment profile for an existing customer profile.

- `updateCustomerShippingAddressRequest` – Update a shipping address for an existing customer profile.
- `updateSplitTenderGroupRequest` – Update the status of a split tender group (a group of transactions each of which pays for part of one order).
- `validateCustomerPaymentProfileRequest` – Verify an existing customer payment profile by generating a test transaction.

The following sections provide information about the input parameters required for executing the functions listed above. All parameters are case sensitive and must be submitted in the order listed here. Parameters are required unless otherwise indicated. Optional parameters should not be submitted unless they contain valid values.

Note Parameters required for individual API calls are in addition to the authentication parameters required for all API calls.

Note for .NET programmers: When a parameter is optional, and if you use serialization, then the .NET language you are using automatically creates Boolean properties that indicate whether or not non-nullable parameters are specified. For example, if there is a parameter named *validationMode* that is an Enumeration type, a parameter called *validationModeSpecified* is automatically created. By default, these properties are set to false. If a request passes a value for an optional parameter, be sure to set these properties to true so that the value is not ignored.

Field Validation and Test Mode

The `validationMode` parameter enables you to generate a test transaction at the time you create or update a customer profile. The functions `createCustomerProfileRequest`, `createCustomerPaymentProfileRequest`, `updateCustomerPaymentProfileRequest`, and `validateCustomerPaymentProfileRequest` all include a `validationMode` parameter, which can have one of the following values:

- `testMode`—performs field validation only. All fields are validated. However, fields with unrestricted field definitions (such as telephone number) do not generate errors.

If you select `testMode`, a \$1.00 test transaction is submitted using the Luhn MOD 10 algorithm to verify that the credit card number is in a valid format. This test transaction does not appear on the customer's credit card statement, but it will generate and send a transaction receipt email to the merchant.

- `liveMode`—generates a transaction to the processor in the amount of \$0.01 or \$0.00. If successful, the transaction is immediately voided. Visa authorization transactions are changing from \$0.01 to \$0.00 for all processors. All other credit

card types use \$0.01. Consult your Merchant Account Provider before changing to Zero Dollar Authorizations for Visa because you may be subject to fees.

For Visa transactions using \$0.00, the billTo address and billTo zip fields are required.

- none—When this value is submitted, no additional validation is performed.
- (blank)—this is the same as using the value *none*.

When you call the `createCustomerProfileRequest` function, you must use a value of *none* (or leave the value blank) if the request does not include any payment profile information.

When you call the `validateCustomerPaymentProfileRequest` function, you must use either *testMode* or *liveMode*.

If a validation transaction is unsuccessful, the profile is not created, and the merchant receives an error.

Authentication

All calls to the API must be authenticated to ensure that they originate from authorized sources. The merchant Web services API authenticates calls with the API Login ID and Transaction Key.

Table 1 Merchant Authentication

ELEMENT	VALUE	TYPE/FORMAT	NOTES
merchantAuthentication	Contains merchant unique information for purposes of authentication		
name	The valid API Login ID for the developer test or merchant account	20	Submit the API Login ID used to submit transactions
transactionKey	The valid Transaction Key for the developer test or merchant account	16	Submit the Transaction Key obtained from the Merchant Interface

Example of Authentication with the Login ID and Transaction Key

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileRequest xmlns= "AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
<merchantAuthentication>
<name>mytestacct</name>
<transactionKey>112223344</transactionKey>
</merchantAuthentication>
</createCustomerProfileRequest>
```

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. Additional sample code is available for download from the Authorize.Net Developer Center at <http://developer.authorize.net/samplecode>.

Input Elements for createCustomerProfileRequest

This function is used to create a new customer profile including any customer payment profiles and customer shipping addresses.

The following table lists the input parameters for executing an API call to the createCustomerProfileRequest function.

Input Elements for createCustomerProfileRequest

FIELD	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.

Input Elements for createCustomerProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
profile	Contains information for the customer profile		At least one of the following fields must be submitted under profile: merchantCustomerId, description or email.
merchantCustomerId	Merchant assigned ID for the customer Conditional	Up to 20 characters	Required only if no values for both description and email are submitted.
description	Description of the customer or customer profile Conditional	Up to 255 characters	Required only if no values for both merchantCustomerId and email are submitted.
email	Email address associated with the customer profile Conditional	Up to 255 characters	Required only if no values for both description and merchantCustomerId are submitted.
paymentProfiles	Contains payment profiles for the customer profile Optional		Multiple instances of this element can be submitted to create multiple payment profiles for the customer profile.
customerType	Optional	individual business	
billTo			
firstName	The customer's first name Optional	Up to 50 characters (no symbols)	
lastName	The customer's last name Optional	Up to 50 characters (no symbols)	

Input Elements for createCustomerProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
company	The name of the company associated with the customer, if applicable Optional	Up to 50 characters (no symbols)	
address	The customer's address Optional	Up to 60 characters (no symbols)	
city	The city of the customer's address Optional	Up to 40 characters (no symbols)	
state	The state of the customer's address Optional	Up to 40 characters (no symbols)	
zip	The ZIP code of the customer's address Optional	Up to 20 characters (no symbols)	
country	The country of the customer's address Optional	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer profile Optional	Up to 25 digits (no letters) For example, (123)123-1234	

Input Elements for createCustomerProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
faxNumber	The fax number associated with the customer profile Optional	Up to 25 digits (no letters) For example, (123)123-1234	
payment	Contains payment profile information for the customer profile		Can contain creditCard or bankAccount.
creditCard	Contains credit card payment information for the payment profile		This element are only required when the payment profile is credit card.
cardNumber	The customer's credit card number	13 to 16 digits	
expirationDate	The expiration date for the customer's credit card	YYYY-MM	

Input Elements for createCustomerProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
cardCode	The three- or four-digit number on the back of a credit card (on the front for American Express) Optional	Numeric	This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the Merchant Integration Guide at http://www.authorize.net/support/merchant/ . cardCode is used only for validation and will not be stored in the customer profile. It should be used only when submitting validationMode with a value of testMode or liveMode.
bankAccount	Contains bank account payment information for the payment profile		This element are required only when the payment profile is bank account.
accountType	The type of bank account for the payment profile Optional	checking savings businessChecking	
routingNumber	The routing number of the customer's bank	9 digits	
accountNumber	The customer's bank account number	5 to 17 digits	

Input Elements for createCustomerProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
nameOnAccount	The customer's full name as listed on the bank account	Up to 22 characters	
echeckType	The type of electronic check transaction Optional	CCD PPD TEL WEB	Currently, the CIM API does not support ARC or BOC transaction types.
bankName	The name of the bank associated with the bank account number Optional	Up to 50 characters	
shipToList	Contains shipping address information for the customer profile		
firstName	The customer's first name Optional	Up to 50 characters (no symbols)	
lastName	The customer's last name Optional	Up to 50 characters (no symbols)	
company	The name of the company associated with the customer, if applicable Optional	Up to 50 characters (no symbols)	

Input Elements for createCustomerProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
address	The customer's shipping address Optional	Up to 60 characters (no symbols)	
city	The city of the customer's shipping address Optional	Up to 40 characters (no symbols)	
state	The state of the customer's shipping address Optional	Up to 40 characters (no symbols)	
zip	The ZIP code of the customer's shipping address Optional	Up to 20 characters (no symbols)	
country	The country of the customer's shipping address Optional	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer profile Optional	Up to 25 digits (no letters) For example, (123)123-1234	
faxNumber	The fax number associated with the customer profile Optional	Up to 25 digits (no letters) For example, (123)123-1234	

Input Elements for createCustomerProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
validationMode	Indicates the processing mode for the request Optional	none testMode liveMode	For more information on use and restrictions of validationMode, see Field Validation and Test Mode

For information about output for this function, see the section of this document titled [“Output for createCustomerProfileResponse.”](#)

Example createCustomerProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileRequest xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>API Login ID here</name>
    <transactionKey>Transaction Key here</transactionKey>
  </merchantAuthentication>
  <profile>
    <merchantCustomerId>Merchant Customer ID here</merchantCustomerId>
    <description>Profile description here</description>
    <email>customer profile email address here</email>
    <paymentProfiles>
      <customerType>individual</customerType>
      <payment>
        <creditCard>
          <cardNumber>Credit card number here</cardNumber>
          <expirationDate>Credit card expiration date here</expirationDate>
        </creditCard>
      </payment>
    </paymentProfiles>
  </profile>
  <validationMode>liveMode</validationMode>
</createCustomerProfileRequest>
```

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. Additional sample code is available for download from the Authorize.Net Developer Center at <http://developer.authorize.net/samplecode>.

Input Elements for createCustomerPaymentProfileRequest

This function is used to create a new customer payment profile for an existing customer profile.

The following table lists the input parameters for executing an API call to the CcreateCustomerPaymentProfileRequest function.

Table 2 Input Elements for createCustomerPaymentProfileRequest

FIELD	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
paymentProfile	Contains payment information for the customer profile		
customerType	Optional	individual business	
billTo			
firstName	The customer's first name Optional	Up to 50 characters (no symbols)	

Table 2 Input Elements for createCustomerPaymentProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
lastName	The customer's last name Optional	Up to 50 characters (no symbols)	
company	The name of the company associated with the customer, if applicable Optional	Up to 50 characters (no symbols)	
address	The customer's address Optional	Up to 60 characters (no symbols)	
city	The city of the customer's address Optional	Up to 40 characters (no symbols)	
state	The state of the customer's address Optional	Up to 40 characters (no symbols)	
zip	The ZIP code of the customer's address Optional	Up to 20 characters (no symbols)	
country	The country of the customer's address Optional	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer's address Optional	Up to 25 digits (no letters) For example, (123)123-1234	
faxNumber	The fax number associated with the customer's address Optional	Up to 25 digits (no letters) For example, (123)123-1234	
payment	Contains payment information for the customer profile		Can contain CreditCardSimpleType or BankAccountType.

Table 2 Input Elements for createCustomerPaymentProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
creditCard	Contains credit card payment information for the customer profile		This element is required only when the payment profile is credit card.
cardNumber	The customer's credit card number	13 to 16 digits	
expirationDate	The expiration date for the customer's credit card	YYYY-MM	
cardCode	The three- or four-digit number on the back of a credit card (on the front for American Express) Optional	Numeric	This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the Merchant Integration Guide at http://www.authorize.net/support/Merchant/default.htm . cardCode is used only for validation and will not be stored in the customer profile. It should be used only when submitting validationMode with a value of testMode or liveMode.
bankAccount	Contains bank account payment information for the customer profile		This element is required only when the payment profile is bank account.
accountType	The type of bank account for the payment profile Optional	checking savings businessChecking	
routingNumber	The routing number of the customer's bank	9 digits	

Table 2 Input Elements for createCustomerPaymentProfileRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
accountNumber	The customer's bank account number	5 to 17 digits	
nameOnAccount	The customer's full name as listed on the bank account	Up to 22 characters	
echeckType	The type of electronic check transaction Optional	CCD PPD TEL WEB	Currently, the CIM API does not support ARC or BOC transaction types.
bankName	The name of the bank associated with the bank account number Optional	Up to 50 characters	
validationMode	Indicates the processing mode for the request	ValidationModeEnum none testMode liveMode	For more information on use and restrictions of validationMode, see "Field Validation and Test ModeField Validation and Test Mode."

For information about output parameters for this function, see the section of this document titled "[Output for createCustomerPaymentProfileResponse.](#)"

Example createCustomerPaymentProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerPaymentProfileRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <paymentProfile>
    <billTo>
      <firstName>John</firstName>
      <lastName>Doe</lastName>
      <company></company>
      <address>123 Main St.</address>
      <city>Bellevue</city>
      <state>WA</state>
      <zip>98004</zip>
      <country>USA</country>
      <phoneNumber>000-000-0000</phoneNumber>
      <faxNumber></faxNumber>
    </billTo>
    <payment>
      <creditCard>
        <cardNumber>4111111111111111</cardNumber>
        <expirationDate>2023-12</expirationDate>
      </creditCard>
    </payment>
  </paymentProfile>
  <validationMode>liveMode</validationMode>
</createCustomerPaymentProfileRequest>
```

Input Parameters for createCustomerShippingAddressRequest

This function is used to create a new customer shipping address for an existing customer profile.

The following table lists the input parameters for executing an API call to the createCustomerShippingAddressRequest function.

Table 3 Input Parameters for createCustomerShippingAddressRequest

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
address	Contains shipping address information for the customer profile		
firstName	The customer's first name Optional	Up to 50 characters (no symbols)	
lastName	The customer's last name Optional	Up to 50 characters (no symbols)	
company	The name of the company associated with the customer, if applicable Optional	Up to 50 characters (no symbols)	
address	The customer's shipping address Optional	Up to 60 characters (no symbols)	
city	The city of the customer's shipping address Optional	Up to 40 characters (no symbols)	
state	The state of the customer's shipping address Optional	Up to 40 characters (no symbols)	
zip	The ZIP code of the customer's shipping address Optional	Up to 20 characters (no symbols)	

Table 3 Input Parameters for createCustomerShippingAddressRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
country	The country of the customer's shipping address Optional	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer's shipping address Optional	Up to 25 digits (no letters) For example, (123)123-1234	
faxNumber	The fax number associated with the customer's shipping address Optional	Up to 25 digits (no letters) For example, (123)123-1234	

For information about output parameters for this function, see the section of this document titled [Output for createCustomerShippingAddressResponse](#).

Example createCustomerShippingAddressRequest

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerShippingAddressRequest xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <address>
    <firstName>John</firstName>
    <lastName>Doe</lastName>
    <company></company>
    <address>123 Main St.</address>
    <city>Bellevue</city>
    <state>WA</state>
    <zip>98004</zip>
    <country>USA</country>
    <phoneNumber>000-000-0000</phoneNumber>
    <faxNumber></faxNumber>
  </address>
</createCustomerShippingAddressRequest>
```

Input Elements for createCustomerProfileTransactionRequest

This function is used to create a payment transaction from an existing customer profile. You can submit one of six transaction types: Authorization Only, Authorization and Capture, Capture Only, Prior Authorization and Capture, Refund, and Void. For more information on these transaction types, see the *Merchant Integration Guide* at <http://www.authorize.net/support/merchant/>.

Note The only transaction types that generate a customer receipt email are Authorization Only, Authorization and Capture, and Refund.

For Authorization Only transactions

The following table lists the input parameters for executing an API call to the createCustomerProfileTransactionRequest function for an Authorization Only transaction.

Table 4 Input Elements for createCustomerProfileTransactionRequest

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
transaction	Contains transaction information		
profileTransAuthOnly	The transaction type that is being requested		Only one transaction type is allowed per request.

Table 4 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
amount	The total amount of the transaction	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount should include all other amounts such as tax amount, shipping amount, etc.
tax	Contains tax information for the transaction Optional		
amount	The tax amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the tax for the transaction Optional	Up to 31 characters	
description	The tax description for the transaction Optional	Up to 255 characters	
shipping	Contains shipping information for the transaction Optional		
amount	The shipping amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the shipping for the transaction Optional	Up to 31 characters	

Table 4 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
description	The shipping description for the transaction Optional	Up to 255 characters	
duty	Contains duty information for the transaction Optional		
amount	The duty amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the duty for the transaction Optional	Up to 31 characters	
description	The duty description for the transaction Optional	Up to 255 characters	
lineItems	Contains line item details about the order Optional		Up to 30 distinct instances of this element can be included per transaction to describe items included in the order.
itemId	The ID assigned to the item Optional	Up to 31 characters	
name	A short description of an item Optional	Up to 31 characters	
description	A detailed description of an item Optional	Up to 255 characters	
quantity	The quantity of an item Optional	Up to 4 digits (up to two decimal places)	

Table 4 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
unitPrice	Cost of an item per unit excluding tax, freight, and duty Optional	Up to 4 digits with a decimal point (no dollar symbol) For example, 4.95	
taxable	Indicates whether the item is subject to tax Optional	true false	
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address Optional	Numeric	If customerShippingAddressId is not passed, shipping information will not be included with the transaction.
order	Contains information about the order Optional		
invoiceNumber	The merchant assigned invoice number for the transaction Optional	Up to 20 characters (no symbols)	
description	The transaction description Optional	Up to 255 characters (no symbols)	
purchaseOrderNumber	The merchant assigned purchase order number Optional	Up to 25 characters (no symbols)	
taxExempt	The tax exempt status Optional	true false	
recurringBilling	The recurring billing status Optional	true false	

Table 4 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
cardCode	The customer's card code (the three- or four-digit number on the back or front of a credit card) Required only when the merchant would like to use the Card Code Verification (CCV) filter Conditional	3 to 4 digits	This field is required if the merchant would like to use the CCV security feature. For more information, see the <i>Merchant Integration Guide</i> at http://www.authorize.net/support/merchant/
splitTenderId	Conditional	Up to 6 digits	This field is required for second and subsequent transactions related to a partial authorization transaction.
extraOptions	Information in name/value pair format that does not exist within CIM, such as customer IP address, etc. Optional	String	For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at http://www.authorize.net/support/AIM_guide.pdf .

For information about output parameters for this function, see the section of this document titled [Input Elements for createCustomerProfileTransactionRequest](#).”

Example createCustomerProfileTransactionRequest for an Authorization Only transaction

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileTransactionRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <transaction>
    <profileTransAuthOnly>
      <amount>10.95</amount>
      <tax>
        <amount>1.00</amount>
        <name>WA state sales tax</name>
        <description>Washington state sales tax</description>
      </tax>
      <shipping>
        <amount>2.00</amount>
        <name>ground based shipping</name>
        <description>Ground based 5 to 10 day shipping
        </description>
      </shipping>
    </profileTransAuthOnly>
  </transaction>
  <lineItems>
    <itemId>ITEM00001</itemId>
    <name>name of item sold</name>
    <description>Description of item sold</description>
    <quantity>1</quantity>
    <unitPrice>6.95</unitPrice>
    <taxable>true</taxable>
  </lineItems>
  <lineItems>
    <itemId>ITEM00002</itemId>
    <name>name of other item sold</name>
    <description>Description of other item sold
    </description>
    <quantity>1</quantity>
    <unitPrice>1.00</unitPrice>
    <taxable>true</taxable>
  </lineItems>
  <customerProfileId>10000</customerProfileId>
  <customerPaymentProfileId>20000</customerPaymentProfileId>
  <customerShippingAddressId>30000</customerShippingAddressId>
</createCustomerProfileTransactionRequest>
```

```

<order>
  <invoiceNumber>INV000001</invoiceNumber>
  <description>description of transaction</description>
  <purchaseOrderNumber>PONUM000001</purchaseOrderNumber>
</order>
<taxExempt>>false</taxExempt>
<recurringBilling>>false</recurringBilling>
<cardCode>000</cardCode>
<splitTenderId>123456</splitTenderId>
</profileTransAuthOnly>
</transaction>
<extraOptions><![CDATA[x_customer_ip=100.0.0.1&x_
authentication_indicator=5&x_cardholder_authentication_
value=uq3wDbqt8A26rfANAAAAAP ]]></extraOptions>
</createCustomerProfileTransactionRequest>

```

For Authorization and Capture Transactions

The following table lists the input parameters for executing an API call to the createCustomerProfileTransactionRequest function for an Authorization and Capture transaction.

Table 5 Input Elements for createCustomerProfileTransactionRequest

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
transaction	Contains transaction information		
profileTransAuthCapture	The transaction type that is being requested		Only one transaction type is allowed per request.

Table 5 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
amount	The total amount of the transaction	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount should include all other amounts such as tax amount, shipping amount, etc.
tax	Contains tax information for the transaction Optional		
amount	The tax amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the tax for the transaction Optional	Up to 31 characters	
description	The tax description for the transaction Optional	Up to 255 characters	
shipping	Contains shipping information for the transaction Optional		
amount	The shipping amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the shipping for the transaction Optional	Up to 31 characters	
description	The shipping description for the transaction Optional	Up to 255 characters	

Table 5 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
duty	Contains duty information for the transaction Optional		
amount	The duty amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the duty for the transaction Optional	Up to 31 characters	
description	The duty description for the transaction Optional	Up to 255 characters	
lineItems	Contains line item details about the order Optional		Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.
itemId	The ID assigned to the item Optional	Up to 31 characters	
name	A short description of an item Optional	Up to 31 characters	
description	A detailed description of an item Optional	Up to 255 characters	
quantity	The quantity of an item Optional	Up to 4 digits (up to two decimal places)	

Table 5 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
unitPrice	Cost of an item per unit excluding tax, freight, and duty Optional	Up to 4 digits with a decimal point (no dollar symbol) For example, 4.95	
taxable	Indicates whether the item is subject to tax Optional	TRUE FALSE	
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address Optional	Numeric	If customerShippingAddressId is not passed, shipping information will not be included with the transaction.
order	Contains information about the order Optional		
invoiceNumber	The merchant assigned invoice number for the transaction Optional	Up to 20 characters (no symbols)	

Table 5 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
description	The transaction description Optional	Up to 255 characters (no symbols)	
purchaseOrderNumber	The merchant assigned purchase order number Optional	Up to 25 characters (no symbols)	
taxExempt	The tax exempt status Optional	TRUE FALSE	
recurringBilling	The recurring billing status Optional	TRUE FALSE	
cardCode	The customer's card code (the three- or four-digit number on the back or front of a credit card) Required only when the merchant would like to use the Card Code Verification (CCV) filter Conditional	3 to 4 digits	This field is required if the merchant would like to use the CCV security feature. For more information, see the <i>Merchant Integration Guide</i> at http://www.authorize.net/support/merchant/default.htm .
splitTenderId	Conditional	Up to 6 digits	This field is required for second and subsequent transactions related to a partial authorization transaction.

Table 5 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
extraOptions	Information in name/value pair format that does not exist within CIM, such as customer IP address, etc. Optional	String	For a complete list of the transaction variable names available, review the AIM Implementation Guide located at http://www.authorize.net/support/AIM_guide.pdf .

For information about output parameters for this function, see the section of this document titled [Output for createCustomerProfileTransactionResponse](#).

Example createCustomerProfileTransactionRequest for an Authorization and Capture transaction

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileTransactionRequest xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <transaction>
    <profileTransAuthCapture>
      <amount>10.95</amount>
    <tax>
      <amount>1.00</amount>
      <name>WA state sales tax</name>
    </tax>
  </transaction>
</createCustomerProfileTransactionRequest>
```

```
<description>Washington state sales tax</description>
</tax>
<shipping>
  <amount>2.00</amount>
  <name>ground based shipping</name>
  <description>Ground based 5 to 10 day shipping</description>
</shipping>
<lineItems>
  <itemId>ITEM00001</itemId>
  <name>name of item sold</name>
  <description>Description of item sold</description>
  <quantity>1</quantity>
  <unitPrice>6.95</unitPrice>
  <taxable>true</taxable>
</lineItems>
<lineItems>
  <itemId>ITEM00002</itemId>
  <name>name of other item sold</name>
  <description>Description of other item sold</description>
  <quantity>1</quantity>
  <unitPrice>1.00</unitPrice>
  <taxable>true</taxable>
</lineItems>
<customerProfileId>10000</customerProfileId>
<customerPaymentProfileId>20000</customerPaymentProfileId>
<customerShippingAddressId>30000</customerShippingAddressId>
<order>
  <invoiceNumber>INV000001</invoiceNumber>
  <description>description of transaction</description>
  <purchaseOrderNumber>PONUM000001</purchaseOrderNumber>
</order>
<taxExempt>false</taxExempt>
<recurringBilling>false</recurringBilling>
<cardCode>000</cardCode>
<splitTenderId>123456</splitTenderId>
</profileTransAuthCapture>
</transaction>
<extraOptions><![CDATA[x_customer_ip=100.0.0.1]]></extraOptions>
</createCustomerProfileTransactionRequest>
```

For Capture Only Transactions

The following table lists the input parameters for executing an API call to the createCustomerProfileTransactionResponse function for a Capture Only transaction.

Table 6 Input Elements for createCustomerProfileTransactionRequest

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
transaction	Contains transaction information		
profileTransCaptureOnly	The transaction type that is being requested		Only one transaction type is allowed per request.
amount	The total amount of the transaction	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount should include all other amounts such as tax amount, shipping amount, etc.
tax	Contains tax information for the transaction Optional		
amount	The tax amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) v12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the tax for the transaction Optional	Up to 31 characters	
description	The tax description for the transaction Optional	Up to 255 characters	

Table 6 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
shipping	Contains shipping information for the transaction Optional		
amount	The shipping amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the shipping for the transaction Optional	Up to 31 characters	
description	The shipping description for the transaction Optional	Up to 255 characters	
duty	Contains duty information for the transaction Optional		
amount	The duty amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the duty for the transaction Optional	Up to 31 characters	
description	The duty description for the transaction Optional	Up to 255 characters	

Table 6 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
lineItems	Contains line item details about the order Optional		Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.
itemId	The ID assigned to the item Optional	Up to 31 characters	
name	A short description of an item Optional	Up to 31 characters	
description	A detailed description of an item Optional	Up to 255 characters	
quantity	The quantity of an item Optional	Up to 4 digits (up to two decimal places)	
unitPrice	Cost of an item per unit excluding tax, freight, and duty Optional	Up to 4 digits with a decimal point (no dollar symbol) For example, 4.95	
taxable	Indicates whether the item is subject to tax Optional	TRUE FALSE	
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	

Table 6 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address Optional	Numeric	If customerShippingAddressId is not passed, shipping information will not be included with the transaction.
order	Contains information about the order Optional		
invoiceNumber	The merchant assigned invoice number for the transaction Optional	Up to 20 characters (no symbols)	
description	The transaction description Optional	Up to 255 characters (no symbols)	
purchaseOrderNumber	The merchant assigned purchase order number Optional	Up to 25 characters (no symbols)	
taxExempt	The tax exempt status Optional	TRUE FALSE	
recurringBilling	The recurring billing status Optional	TRUE FALSE	

Table 6 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
cardCode	The customer's card code (the three- or four-digit number on the back or front of a credit card) Required only when the merchant would like to use the Card Code Verification (CCV) filter Conditional	3 to 4 digits	This field is required if the merchant would like to use the CCV security feature. For more information, see the <i>Merchant Integration Guide</i> at http://www.authorize.net/support/Merchant/default.htm .
splitTenderId	Conditional	Up to 6 digits	This field is required only for second and subsequent transactions related to a partial authorization transaction.
approvalCode	The authorization code of an original transaction required for a Capture Only Conditional	6 characters	This field is required only for the Capture Only transaction type.
extraOptions	Information in name/value pair format that does not exist within CIM, such as customer IP address, etc. Optional	String	For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at http://www.authorize.net/support/AIM_guide.pdf .

For information about output parameters for this function, see the section of this document titled "[Output for createCustomerProfileTransactionResponse.](#)"

Example createCustomerProfileTransactionRequest for a Capture Only transaction

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileTransactionRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <transaction>
    <profileTransCaptureOnly>
      <amount>10.95</amount>
      <tax>
        <amount>1.00</amount>
        <name>WA state sales tax</name>
        <description>Washington state sales tax</description>
      </tax>
    </profileTransCaptureOnly>
    <shipping>
      <amount>2.00</amount>
      <name>ground based shipping</name>
      <description>Ground based 5 to 10 day shipping</description>
    </shipping>
  </transaction>
</createCustomerProfileTransactionRequest>
```



```
<lineItems>
  <itemId>ITEM00001</itemId>
  <name>name of item sold</name>
  <description>Description of item sold</description>
  <quantity>1</quantity>
  <unitPrice>6.95</unitPrice>
  <taxable>true</taxable>
</lineItems>
<lineItems>
  <itemId>ITEM00002</itemId>
  <name>name of other item sold</name>
  <description>Description of other item sold</description>
  <quantity>1</quantity>
  <unitPrice>1.00</unitPrice>
  <taxable>true</taxable>
</lineItems>
<customerProfileId>10000</customerProfileId>
  <customerPaymentProfileId>20000</customerPaymentProfileId>
  <customerShippingAddressId>30000</customerShippingAddressId>
  <order>
    <invoiceNumber>INV000001</invoiceNumber>
    <description>description of transaction</description>
    <purchaseOrderNumber>PONUM000001</purchaseOrderNumber>
  </order>
  <taxExempt>false</taxExempt>
  <recurringBilling>false</recurringBilling>
  <cardCode>000</cardCode>
  <approvalCode>000000</approvalCode>
  <splitTenderId>123456</splitTenderId>
</profileTransCaptureOnly>
</transaction>
  <extraOptions><![CDATA[x_customer_ip=100.0.0.1]]></extraOptions>
</createCustomerProfileTransactionRequest>
```

For Prior Authorization and Capture Transactions

The following table lists the input parameters for executing an API call to the createCustomerProfileTransactionResponse function for a Prior Authorization and Capture transaction.

Table 7 Input Elements for createCustomerProfileTransactionRequest

FIELD	VALUE	TYPE/FORMAT	NOTES
refld	Merchant-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.
transaction	Contains transaction information		
profileTransPriorAuthCapture	The transaction type that is being requested		Only one transaction type is allowed per request.
amount	The total amount of the transaction	Up to 4 digits after the decimal point (no dollar symbol) Ex. 12.99 or 12.9999	This amount should include all other amounts such as tax amount, shipping amount, etc.
tax	Contains tax information for the transaction Optional		Tax information from the original authorization transaction will be used if this field is not submitted.
amount	The tax amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) Ex. 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the tax for the transaction Optional	Up to 31 characters	
description	The tax description for the transaction Optional	Up to 255 characters	

Table 7 Input Elements for createCustomerProfileTransactionRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
shipping	Contains shipping information for the transaction Optional		Shipping information from the original authorization transaction will be used if this field is not submitted.
amount	The shipping amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the shipping for the transaction Optional	Up to 31 characters	
description	The shipping description for the transaction Optional	Up to 255 characters	
duty	Contains duty information for the transaction Optional		Duty information from the original authorization transaction will be used if this field is not submitted.
amount	The duty amount for the transaction Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the duty for the transaction Optional	Up to 31 characters	
description	The duty description for the transaction Optional	Up to 255 characters	

Table 7 Input Elements for createCustomerProfileTransactionRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
lineItems	Contains line item details about the order Optional		Line item information from the original authorization transaction will be used if this field is not submitted. Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.
itemId	The ID assigned to the item Optional	Up to 31 characters	
name	A short description of an item Optional	Up to 31 characters	
description	A detailed description of an item Optional	Up to 255 characters	
quantity	The quantity of an item Optional	Up to 4 digits (up to two decimal places)	
unitPrice	Cost of an item per unit excluding tax, freight, and duty Optional	Up to 4 digits with a decimal point (no dollar symbol) For example, 4.95	
taxable	Indicates whether the item is subject to tax Optional	TRUE FALSE	
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	If a value is submitted for this field, it must be the same ID used for the original authorization transaction.

Table 7 Input Elements for createCustomerProfileTransactionRequest (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	If a value is submitted for this field, it must be the same ID used for the original authorization transaction.
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address Optional	Numeric	If a value is submitted for this field, it must be the same ID used for the original authorization transaction.
transId	The payment gateway-assigned transaction ID of the original transaction	Numeric	
extraOptions	Information in name/value pair format that does not exist within CIM, such as customer IP address, etc. Optional	String	For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at http://www.authorize.net/support/AIM_guide.pdf .

For information about output parameters for this function, see the section of this document titled "[Output for createCustomerProfileTransactionResponse.](#)"

Example createCustomerProfileTransactionRequest for a Prior Authorization and Capture transaction

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileTransactionRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <transaction>
<profileTransPriorAuthCapture>
  <amount>10.95</amount>
  <tax>
    <amount>1.00</amount>
    <name>WA state sales tax</name>
    <description>Washington state sales tax</description>
  </tax><shipping>
    <amount>2.00</amount>
    <name>ground based shipping</name>
    <description>Ground based 5 to 10 day shipping</description>
  </shipping>

```

```

<lineItems>
  <itemId>ITEM00001</itemId>
  <name>name of item sold</name>
  <description>Description of item sold</description>
  <quantity>1</quantity>
  <unitPrice>6.95</unitPrice>
  <taxable>true</taxable>
</lineItems>
<lineItems>
  <itemId>ITEM00002</itemId>
  <name>name of other item sold</name>
  <description>Description of other item sold</description>
  <quantity>1</quantity>
  <unitPrice>1.00</unitPrice>
  <taxable>true</taxable>
</lineItems>
<customerProfileId>10000</customerProfileId>
<customerPaymentProfileId>20000</customerPaymentProfileId>
<customerShippingAddressId>30000</customerShippingAddressId>
<transId>40000</transId>
</profileTransPriorAuthCapture>
</transaction>
<extraOptions><![CDATA[]]></extraOptions>
</createCustomerProfileTransactionRequest>

```

For Refund Transactions

If you are submitting a refund against a previous CIM transaction, the following guidelines apply:

- **include** `customerProfileId`, `customerPaymentProfileId`, and `transId`.
- `customerShippingAddressId` is optional.
- `creditCardNumberMasked`, `bankRoutingNumberMasked`, and `bankAccountNumberMasked` do not need to be included, but they will be validated if they are included.

If you are submitting a refund for a non-CIM transaction, the following guidelines apply:

- you must **include** `transId`, `creditCardNumberMasked` (or `bankRoutingNumberMasked` and `bankAccountNumberMasked`).
- do not **include** `customerProfileId`, `customerPaymentProfileId`, or `customerShippingAddressId`.

You can also issue an unlinked refund for a CIM transaction. In this case, the following rules apply:

- you must be enrolled in Expanded Credit Capabilities (ECC). For more information about ECC, go to <http://www.authorize.net/files/ecc.pdf>.
- you must include `customerProfileId` and `customerPaymentProfileId`.
- `customerShippingAddressId` is optional.
- do not include `transId`, `creditCardNumberMasked`, `bankRoutingNumberMasked`, or `bankAccountNumberMasked`.

The following table lists the input elements for executing an API call to the `createCustomerProfileTransactionRequest` function for a Refund transaction.

Table 8 Input Elements for `createCustomerProfileTransactionRequest`

ELEMENT	VALUE	TYPE/FORMAT	NOTES
<code>refId</code>	Merchant-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.
<code>transaction</code>	Contains transaction information		
<code>profileTransRefund</code>	The transaction type that is being requested		Only one transaction type is allowed per request.
<code>amount</code>	The total amount to be refunded	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount should include all other amounts such as tax amount, shipping amount, etc.
<code>tax</code>	Contains tax information for the refund Optional		

Table 8 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
amount	The tax amount to be refunded Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the tax for the transaction Optional	Up to 31 characters	
description	The tax description for the transaction Optional	Up to 255 characters	
shipping	Contains shipping information for the refund Optional		
amount	The shipping amount to be refunded Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the shipping for the transaction Optional	Up to 31 characters	
description	The shipping description for the transaction Optional	Up to 255 characters	
duty	Contains duty information for the refund Optional		
amount	The duty amount to be refunded Optional	Up to 4 digits after the decimal point (no dollar symbol) For example, 12.99 or 12.9999	This amount must be included in the total amount for the transaction.
name	The name of the duty for the transaction Optional	Up to 31 characters	

Table 8 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
description	The duty description for the transaction Optional	Up to 255 characters	
lineItems	Contains line item details about the refund Optional		Up to 30 distinct instances of this element can be included per transaction to describe items included in the order.
itemId	The ID assigned to the item Optional	Up to 31 characters	
name	A short description of an item Optional	Up to 31 characters	
description	A detailed description of an item Optional	Up to 255 characters	
quantity	The quantity of an item Optional	Up to 4 digits (up to two decimal places)	
unitPrice	Cost of an item per unit excluding tax, freight, and duty Optional	Up to 4 digits with a decimal point (no dollar symbol) For example, 4.95	
taxable	Indicates whether the item is subject to tax Optional	TRUE FALSE	

Table 8 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
customerProfileId	Payment gateway assigned ID associated with the customer profile Conditional	Numeric	If a value is submitted for this field, it must be the same ID used for the original transaction. For more complete information, see For Refund Transactions on page 58
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile Conditional	Numeric	If a value is submitted for this field, it must be the same ID used for the original transaction. For more complete information, see For Refund Transactions on page 58.
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address Optional	Numeric	If a value is submitted for this field, it must be the same ID used for the original authorization transaction. For more complete information, see For Refund Transactions on page 58.
creditCardNumberMasked	The last four digits of the credit card number to be refunded Conditional	Four Xs followed by the last four digits of the credit card number to be refunded. For example, XXXX1234	If a value is submitted, the last four digits must be the same ones used for the original transaction. For more complete information, see For Refund Transactions on page 58.

Table 8 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
bankRoutingNumberMasked	The last four digits of the routing number to be refunded Conditional	Four Xs followed by the last four digits of the routing number to be refunded. For example, XXXX1234	If a value is submitted, the last four digits must be the same ones used for the original transaction. For more complete information, see For Refund Transactions on page 58.
bankAccountNumberMasked	The last four digits of the bank account number to be refunded Conditional	Four Xs followed by the last four digits of the bank account to be refunded. For example, XXXX1234	If a value is submitted, the last four digits must be the same ones used for the original transaction. For more complete information, see For Refund Transactions on page 58.
order	Contains information about the order Optional		
invoiceNumber	The merchant assigned invoice number for the transaction Optional	Up to 20 characters (no symbols)	
description	The transaction description Optional	Up to 255 characters (no symbols)	
purchaseOrderNumber	The merchant assigned purchase order number Optional	Up to 25 characters (no symbols)	

Table 8 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
transId	The payment gateway assigned transaction ID of the original transaction. Conditional	Numeric	For more complete information, see For Refund Transactions on page 58.
extraOptions	Information in name/value pair format that does not exist within CIM, such as customer IP address, etc. Optional	String	For a complete list of the transaction variable names available, review the AIM Implementation Guide located at http://www.authorize.net/support/AIM_guide.pdf .

For information about output parameters for this function, see the section of this document titled "[Input Elements for createCustomerProfileTransactionRequest](#)."

Example createCustomerProfileTransactionRequest for a Refund transaction

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileTransactionRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <transaction>
    <profileTransRefund>
      <amount>10.95</amount>
      <tax>
        <amount>1.00</amount>
        <name>WA state sales tax</name>
        <description>Washington state sales tax</description>
      </tax>
      <shipping>
        <amount>2.00</amount>
        <name>ground based shipping</name>
        <description>Ground based 5 to 10 day shipping</description>
      </shipping>
    </profileTransRefund>
  </transaction>
  <lineItems>
    <itemId>ITEM00001</itemId>
    <name>name of item sold</name>
    <description>Description of item sold</description>
  </lineItems>
</createCustomerProfileTransactionRequest>
```

```

        <quantity>1</quantity>
        <unitPrice>6.95</unitPrice>
        <taxable>true</taxable>
    </lineItems>
</lineItems>
<customerProfileId>10000</customerProfileId>
    <customerPaymentProfileId>20000</customerPaymentProfileId>
    <customerShippingAddressId>30000</customerShippingAddressId>
    <creditCardNumberMasked>XXXX1111</creditCardNumberMasked>
</order>
    <invoiceNumber>INV000001</invoiceNumber>
    <description>description of transaction</description>
    <purchaseOrderNumber>PONUM000001</purchaseOrderNumber>
</order>
    <transId>40000</transId>
</profileTransRefund>
</transaction>
    <extraOptions><![CDATA[ ]]></extraOptions>
</createCustomerProfileTransactionRequest>

```

For a Void Transaction

The following table lists the input elements for executing an API call to the createCustomerProfileTransactionRequest function for a Void transaction.

Table 9 Input Elements for createCustomerProfileTransactionRequest

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
transaction	Contains transaction information		

Table 9 Input Elements for createCustomerProfileTransactionRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
profileTransVoid	The transaction type that is being requested		Only one transaction type is allowed per request.
customerProfileId	Payment gateway assigned ID associated with the customer profile Conditional	Numeric	If a value is submitted for this field, it must be the same ID used for the original transaction.
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile Optional	Numeric	If a value is submitted for this field, it must be the same ID used for the original transaction.
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address Optional	Numeric	If a value is submitted for this field, it must be the same ID used for the original transaction.
transId	The payment gateway assigned transaction ID of the original transaction	Numeric	
extraOptions	Information in name/value pair format that does not exist within CIM, such as customer IP address, etc. Optional	String	For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at http://www.authorize.net/support/AIM_guide.pdf .

Example createCustomerProfileTransactionRequest for a Void transaction

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileTransactionRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <transaction>
    <profileTransVoid>
      <customerProfileId>10000</customerProfileId>
      <customerPaymentProfileId>20000</customerPaymentProfileId>
      <customerShippingAddressId>30000</customerShippingAddressId>
      <transId>40000</transId>
    </profileTransVoid>
  </transaction>
  <extraOptions><![CDATA[ ]]></extraOptions>
</createCustomerProfileTransactionRequest>
```

Input Parameters for deleteCustomerProfileRequest

This function is used to delete an existing customer profile along with all associated customer payment profiles and customer shipping addresses.

The following table lists the input parameters for executing an API call to the deleteCustomerProfileRequest function.

Table 10 Input Parameters for deleteCustomerProfileRequest

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	

For information about output parameters for this function, see the section of this document titled [Output for deleteCustomerProfileResponse](#).

Example deleteCustomerProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<deleteCustomerProfileRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
</deleteCustomerProfileRequest>
```

Input Parameters for deleteCustomerPaymentProfileRequest

This function is used to delete a customer payment profile from an existing customer profile.

The following table lists the input elements for executing an API call to the deleteCustomerPaymentProfileRequest function.

Table 11 Input Parameters for deleteCustomerPaymentProfileRequest

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway-assigned ID associated with the customer profile	Numeric	
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	

For information about output parameters for this function, see the section of this document titled [Output for deleteCustomerPaymentProfileResponse](#).

Example deleteCustomerPaymentProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<deleteCustomerPaymentProfileRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <customerPaymentProfileId>20000</customerPaymentProfileId>
</deleteCustomerPaymentProfileRequest>
```

Input Parameters for deleteCustomerShippingAddressRequest

This function is used to delete a customer shipping address from an existing customer profile.

The following table lists the input elements for executing an API call to the deleteCustomerShippingAddressRequest function.

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address	Numeric	

For information about output parameters for this function, see the section of this document [“Output for deleteCustomerShippingAddressResponse.”](#)

Example Example deleteCustomerShippingAddressRequest

```
<?xml version="1.0" encoding="utf-8"?>
<deleteCustomerShippingAddressRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <customerAddressId>30000</customerAddressId>
</deleteCustomerShippingAddressRequest>
```

Input Parameters for getCustomerProfileIdsRequest

This function is used to retrieve all existing customer profile IDs.

The following table lists the input parameters for executing an API call to the getCustomerProfileIdsRequest function.

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
merchantAuthentication	Contains unique merchant information for purposes of authentication		
name	The valid API Login ID for the developer test or merchant account	Up to 25 characters	Submit the API Login ID used to submit transactions
transactionKey	The valid Transaction Key for the developer test or merchant account	16 characters	Submit the Transaction Key obtained from the Merchant Interface

For information about output parameters for this function, see the section of this document titled [Output for getCustomerProfileIdsResponse](#).

Example Example getCustomerProfileIdsRequest

```
<?xml version="1.0" encoding="utf-8"?>
<getCustomerProfileIdsRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
</getCustomerProfileIdsRequest>
```

Input Parameters for getCustomerProfileRequest

This function is used to retrieve an existing customer profile along with all the associated payment profiles and shipping addresses.

The following table lists the input elements for executing an API call to the getCustomerProfileRequest function.

ELEMENT	VALUE	TYPE/ FORMAT
refId	Merchant-assigned reference ID for the request Optional. If included in the request, this value will be included in the response. This feature might be especially useful for multi-threaded applications.	Up to 20 characters
customerProfileId	Payment gateway-assigned ID associated with the customer profile	Numeric

For information about output parameters for this function, see the section of this document titled [“Output for getCustomerProfileResponse.”](#)

Example getCustomerProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<getCustomerProfileRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
</getCustomerProfileRequest>
```

Input Parameters for getCustomerPaymentProfileRequest

This function is used to retrieve a customer payment profile for an existing customer profile.

The following table lists the input elements for executing an API call to the getCustomerPaymentProfileRequest function.

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	

For information about output parameters for this function, see the section of this document titled [Output for getCustomerPaymentProfileResponse](#).

Example Example getCustomerPaymentProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<getCustomerPaymentProfileRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <customerPaymentProfileId>20000</customerPaymentProfileId>
</getCustomerPaymentProfileRequest>
```

Input Parameters for getCustomerShippingAddressRequest

This function is used to retrieve a customer shipping address for an existing customer profile.

The following table lists the input elements for executing an API call to the getCustomerShippingAddressRequest function.

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address	Numeric	

For information about output parameters for this function, see the section of this document titled [Output for getCustomerShippingAddressResponse](#).

Example Example getCustomerShippingAddressRequest

```
<?xml version="1.0" encoding="utf-8"?>
<getCustomerShippingAddressRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <customerAddressId>30000</customerAddressId>
</getCustomerShippingAddressRequest>
```

Input Parameters for getHostedProfilePageRequest

Use this function to initiate a request for direct access to the Authorize.Net website.

The following table lists the input elements for executing an API call to the getHostedProfilePageRequest function.

Table 12 Input Parameters for getHostedProfilePageRequest

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Merchant-assigned ID for the customer	Up to 20 characters	
hostedProfileSettings	Optional. This is an array of settings for the session.		

Table 12 Input Parameters for getHostedProfilePageRequest (Continued)

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
settingName	Optional. One of: hostedProfileReturnUrl, hostedProfileReturnUrlText, hostedProfileHeadingBgColor, hostedProfilePageBorderVisible, hostedProfileFrameCommunicatorUrl		
settingValue	See Guidelines for Parameter Settings on page 13 for a detailed description of these parameters.		

Example getHostedProfilePageRequest

```
<?xml version="1.0" encoding="utf-8"?>
<getHostedProfilePageRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>YourProfileID</customerProfileId>
  <hostedProfileSettings>
    <setting>
      <settingName>hostedProfileReturnUrl</settingName>
      <settingValue>https://blah.com/blah/</settingValue>
    </setting>
    <setting>
      <settingName>hostedProfileReturnUrlText</settingName>
      <settingValue>Continue to blah.</settingValue>
    </setting>
    <setting>
      <settingName>hostedProfilePageBorderVisible</settingName>
      <settingValue>>true</settingValue>
    </setting>
  </hostedProfileSettings>
</getHostedProfilePageRequest>
```

Input Parameters for updateCustomerProfileRequest

This function is used to update an existing customer profile.

The following table lists the input elements for executing an API call to the updateCustomerProfileRequest function.

Table 13 Input Parameters for updateCustomerProfileRequest

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
profile	Contains payment information for the customer profile		
merchantCustomerId	Merchant assigned ID for the customer Optional	Up to 20 characters	
description	Description of the customer or customer profile Optional	Up to 255 characters	
email	Email address associated with the customer profile Optional	Up to 255 characters	
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	

For information about output parameters for this function, see the section of this document titled [Output for updateCustomerProfileResponse](#).

Example Example updateCustomerProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<updateCustomerProfileRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <profile>
    <merchantCustomerId>custId123</merchantCustomerId>
    <description>some description</description>
    <email>newaddress@example.com</email>
    <customerProfileId>10000</customerProfileId>
  </profile>
</updateCustomerProfileRequest>
```

Input Parameters for updateCustomerPaymentProfileRequest

This function is used to update a payment profile for an existing customer profile.

The following table lists the input elements for executing an API call to the updateCustomerPaymentProfileRequest function.

Note: If some fields in this request are not submitted or are submitted with a blank value, the values in the original profile are removed. As a best practice to prevent this from happening, call `getCustomerPaymentProfileRequest` before calling `updateCustomerPaymentProfileRequest`. That will return all current information including masked payment information. Then, simply change the field that needs updating and use that to call `updateCustomerPaymentProfileRequest`.

Table 14 Input Parameters for updateCustomerPaymentProfileRequest

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.

Table 14 Input Parameters for updateCustomerPaymentProfileRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
paymentProfile	Contains payment information for the customer profile		Sensitive information that is not being updated can be masked.
customerType	Optional	individual business	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
billTo			If this entire section is not submitted, the original billing information for the profile will stay the same. If updating only one or more elements under billTo, all elements must be submitted with their valid values to prevent the original values from being removed.
firstName	The customer's first name Optional	Up to 50 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
lastName	The customer's last name Optional	Up to 50 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.

Table 14 Input Parameters for updateCustomerPaymentProfileRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
company	The name of the company associated with the customer, if applicable Optional	Up to 50 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
address	The customer's address Optional	Up to 60 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
city	The city of the customer's shipping address Optional	Up to 40 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
state	The state of the customer's address Optional	Up to 40 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
zip	The ZIP code of the customer's address Optional	Up to 20 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
country	The country of the customer's address Optional	Up to 60 characters (no symbols)	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.

Table 14 Input Parameters for updateCustomerPaymentProfileRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
phoneNumber	The phone number associated with the customer's address Optional	Up to 25 digits (no letters) For example, (123)123-1234	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
faxNumber	The fax number associated with the customer's address Optional	Up to 25 digits (no letters) For example, (123)123-1234	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
payment	Contains payment information for the customer profile		Can contain CreditCardSimpleType or BankAccountType.
creditCard	Contains credit card payment information for the customer profile Conditional		This parameter and its children are only required when the payment profile is credit card.
cardNumber	The customer's credit card number	13 to 16 digits Number can also be masked, for example, XXXX1111	If value is masked, the last four digits must match the original value in the profile. If a masked value is submitted, the original value will not be updated.
expirationDate	The expiration date for the customer's credit card	YYYY-MM Number can also be masked, for example, XXXX	If a masked value is submitted, the original value will not be updated. For .Net users, the class System.Runtime.Remoting.Metadata.W3cXsd2001.SoapYearMonth can be used to manage YearMonth types.

Table 14 Input Parameters for updateCustomerPaymentProfileRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
cardCode	The three- or four-digit number on the back of a credit card (on the front for American Express) Optional	Numeric	This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at http://www.authorize.net/support/Merchant/default.htm . cardCode is only used for validation and is not stored in the customer profile. It should only be used when submitting validationMode with a value of testMode or liveMode.
bankAccount	Contains bank account payment information for the customer profile Conditional		This parameter and its children are only required when the payment profile is bank account.
accountType	The type of bank account for the payment profile Optional	checking savings businessChecking	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
routingNumber	The routing number of the customer's bank	9 digits Number can also be masked, for example, XXXX1111	If value is masked, the last four digits must match the original value in the profile. If a masked value is submitted, the original value will not be updated.

Table 14 Input Parameters for updateCustomerPaymentProfileRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
accountNumber	The customer's bank account number	5 to 17 digits Number can also be masked, for example, XXXX1111	If value is masked, the last four digits must match the original value in the profile. If a masked value is submitted, the original value will not be updated.
nameOnAccount	The customer's full name as listed on the bank account	Up to 22 characters	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
echeckType	The type of electronic check transaction Optional	CCD PPD TEL WEB	Currently, the CIM API does not support ARC or BOC transaction types. If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
bankName	The name of the bank associated with the bank account number Optional	Up to 50 characters	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	

Table 14 Input Parameters for updateCustomerPaymentProfileRequest (Continued)

ELEMENT	VALUE	TYPE/FORMAT	NOTES
validationMode	Indicates the processing mode for the request	none testMode liveMode	For more information on use and restrictions of validationMode, see Field Validation and Test Mode on page 16.

To test the validity of new payment information, call `validateCustomerPaymentProfileRequest` after successfully updating the payment profile. See the section of this document titled “[Input Parameters for validateCustomerPaymentProfileRequest](#)” for more information.

For information about output parameters for this function, see the section of this document titled “[Input Parameters for updateCustomerPaymentProfileRequest](#).”

Input Parameters for updateCustomerShippingAddressRequest

This function is used to update a shipping address for an existing customer profile.

The following table lists the input elements for executing an API call to the `updateCustomerShippingAddressRequest` function.

Table 15 Input Parameters for updateCustomerShippingAddressRequest

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
address	Contains shipping address information for the customer profile		

Table 15 Input Parameters for updateCustomerShippingAddressRequest (Continued)

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
firstName	The customer's first name Optional	Up to 50 characters (no symbols)	
lastName	The customer's last name Optional	Up to 50 characters (no symbols)	
company	The name of the company associated with the customer, if applicable Optional	Up to 50 characters (no symbols)	
address	The customer's shipping address Optional	Up to 60 characters (no symbols)	
city	The city of the customer's shipping address Optional	Up to 40 characters (no symbols)	
state	The state of the customer's shipping address Optional	Up to 40 characters (no symbols)	
zip	The ZIP code of the customer's shipping address Optional	Up to 20 characters (no symbols)	
country	The country of the customer's shipping address Optional	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer's shipping address Optional	Up to 25 digits (no letters) For example, (123)123-1234	
faxNumber	The fax number associated with the customer's shipping address Optional	Up to 25 digits (no letters) For example, (123)123-1234	

Table 15 Input Parameters for updateCustomerShippingAddressRequest (Continued)

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address	Numeric	

For information about output parameters for this function, see the section of this document titled [Output for updateCustomerShippingAddressResponse](#).

Example Example updateCustomerShippingAddressRequest

```
<?xml version="1.0" encoding="utf-8"?>
<updateCustomerShippingAddressRequest xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <address>
    <firstName>Newfirstname</firstName>
    <lastName>Doe</lastName>
    <company></company>
    <address>123 Main St.</address>
    <city>Bellevue</city>
    <state>WA</state>
    <zip>98004</zip>
    <country>USA</country>
    <phoneNumber>000-000-0000</phoneNumber>
    <faxNumber></faxNumber>
    <customerAddressId>30000</customerAddressId>
  </address>
</updateCustomerShippingAddressRequest>
```

Input Elements for updateSplitTenderGroupRequest

This function is used to update the status of an existing order that contains multiple transactions with the same `splitTenderId`.

The following table lists the input elements for executing an API call to the `updateSplitTenderGroupRequest` function.

Table 16 Input Elements for updateSplitTenderGroupRequest

ELEMENT	VALUE	FORMAT	NOTES
refId	Merchant-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.
splitTenderId	Payment gateway-assigned number associated with the order. Required	Numeric	
splitTenderStatus	Indicates the status of all transactions associated with the order.	voided, or completed.	Use voided to void the entire order; use completed to indicate there are no further transactions in this order.

Example Example updateSplitTenderGroupRequest

```
<?xml version="1.0" encoding="utf-8"?>
<updateSplitTenderGroupRequest xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <splitTenderId>123456</splitTenderId>
  <splitTenderStatus>voided</splitTenderStatus>
</updateSplitTenderGroupRequest>
```

Input Parameters for validateCustomerPaymentProfileRequest

This function is used to verify an existing customer payment profile by generating a test transaction. No customer receipt emails are sent when validateCustomerPaymentProfileRequest. is called

The following table lists the input elements for executing an API call to the validateCustomerPaymentProfileRequest function.

Table 17 Input Parameters for validateCustomerPaymentProfileRequest

ELEMENT	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address Optional	Numeric	If customerShippingAddressId is not passed, shipping information will not be included with the transaction.
cardCode	The three- or four-digit number on the back of a credit card (on the front for American Express) Optional	Numeric	This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at http://www.authorize.net/support/Merchant/default.htm . cardCode is used only for validation and is not stored in the customer profile. It should be used only when submitting validationMode with a value of testMode or liveMode.
validationMode	Indicates the processing mode for the request	testMode liveMode	For more information on use and restrictions of validationMode, see " Field Validation and Test Mode ."

For information about output parameters for this function, see the section of this document titled [Output for validateCustomerPaymentProfileResponse](#).

Example Example validateCustomerPaymentProfileRequest

```
<?xml version="1.0" encoding="utf-8"?>
<validateCustomerPaymentProfileRequest xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <merchantAuthentication>
    <name>YourUserLogin</name>
    <transactionKey>YourTranKey</transactionKey>
  </merchantAuthentication>
  <customerProfileId>10000</customerProfileId>
  <customerPaymentProfileId>20000</customerPaymentProfileId>
  <customerShippingAddressId>30000</customerShippingAddressId>
  <validationMode>liveMode</validationMode>
</validateCustomerPaymentProfileRequest>
```

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. Additional sample code is available for download from the Authorize.Net Developer Center at <http://developer.authorize.net/samplecode>.

Chapter 4

Responses

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

The following table lists output for API calls.

Table 18 Payment gateway responses

ELEMENT	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
messages	Contains information about the results of the request		
resultCode	Contains additional information about the results of the request	Ok Error	
message	Contains the result code and text		Provides more details about the error(s).
code	A code that represents the reason for the error	String	See the Response Codes section of this document for possible values.
text	A text description of the error	String	See the Response Codes section of this document for possible values.

CIM Responses

The example below illustrates the structure of a typical response from the payment gateway for any of the CIM API calls.

Response example .

```
<?xml version="1.0" encoding="utf-8" ?>
<createCustomerProfileResponse xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <refId>refid1</refId>
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <customerProfileId>3187</customerProfileId>
</createCustomerProfileResponse>
```

Output for createCustomerProfileResponse

The following table lists the additional output returned from the payment gateway for an API call to the createCustomerProfileRequest function.

Note: The createCustomerProfileResponse returns only the assigned customerProfileId for the created profile. To retrieve the customerPaymentProfileId and the customerShippingId that may also be created when using the createCustomerProfile function, you must submit the getCustomerProfileRequest function using the assigned customerProfileId for that customer profile.

Table 19 Output for createCustomerProfileResponse

FIELD	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.

Table 19 Output for createCustomerProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	This output is present only for successful requests.
customerPaymentProfileIdList	A list of all payment profile IDs created with the request Optional	Numeric	This output is present only for requests that contain one or more payment profiles. The payment profile IDs are returned in the same order as they were in the request.
customerShippingAddressIdList	A list of all shipping profile IDs created with the request Optional	Numeric	This output is present only for requests that contain multiple shipping profiles. The shipping profile IDs are returned in the same order as they were in the request.
validationDirectResponseList	A list of the direct response results for the validation transaction for each payment profile. Optional	String See the <i>Advanced Integration Guide</i> at http://www.authorize.net/support/AIM_guide.pdf for details about information included in the payment gateway transaction response.	This output is present only if the ValidationMode input element is passed with a value of testMode or liveMode. The list is returned in the same order as the payment profiles were submitted in the request.

Example Successful createCustomerProfileResponse

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileResponse xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <customerProfileId>10000</customerProfileId>
  <customerPaymentProfileIdList>
    <numericString>20000</numericString>
    <numericString>20001</numericString>
  </customerPaymentProfileIdList>
  <customerShippingAddressIdList>
    <numericString>30000</numericString>
    <numericString>30001</numericString>
  </customerShippingAddressIdList>
  <validationDirectResponseList>
    <string>1,1,1,This transaction has been
approved.,000000,Y,2000000000,none,Test transaction for
ValidateCustomerPaymentProfile.,0.01,CC,auth_only,custId123,
John,Doe,,123 Main St.,Bellevue,WA,98004,USA,000-000-
0000,,mark@example.com,,,,,,,,,0.00,0.00,0.00,,none,
D18EB6B211FE0BBF556B271FDA6F92EE,,,,,,,,,,,,,</string>
```

```
<string>1,1,1,This transaction has been
approved.,000000,Y,2000000001,none,Test transaction for
ValidateCustomerPaymentProfile.,0.01,CC,auth_only,custId123,
John,Doe,,123 Main St.,Bellevue,WA,98004,USA,000-000-
0000,,mark@example.com,,,,,,,,,0.00,0.00,0.00,,none,
D18EB6B211FE0BBF556B271FDA6F92EE,,,,,,,,,,,,,</string>
  </validationDirectResponseList>
</createCustomerProfileResponse>
```

Output for createCustomerPaymentProfileResponse

The following table lists the output returned from the payment gateway for an API call to the createCustomerPaymentProfile function.

Table 20 Output for createCustomerPaymentProfileResponse

FIELD	VALUE	TYPE/FORMAT	NOTES
refid	Merchant-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.
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	This output is present only for successful requests.
validationDirectResponse	Contains detailed information about the result of the transaction.	String See the <i>Advanced Integration Guide</i> at http://www.authorize.net/support/AIM_guide.pdf for details about information included in the payment gateway transaction response.	This output is present only if the ValidationMode input parameter is passed with a value of testMode or liveMode.

Example createCustomerPaymentProfileResponse

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerPaymentProfileResponse xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <customerPaymentProfileId>20000</customerPaymentProfileId>
  <validationDirectResponse>1,1,1,This transaction has been approved.,000000,Y,20000000000,none,Test transaction for ValidateCustomerPaymentProfile.,0.01,CC,auth_only,custId123,John,Doe,,123 Main St.,Bellevue,WA,98004,USA,000-000-0000,,mark@example.com,,,,,,,,,0.00,0.00,0.00,,none,D18EB6B211FE0BBF556B271FDA6F92EE,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
  </validationDirectResponse>
</createCustomerPaymentProfileResponse>
```

Output for createCustomerShippingAddressResponse

The following table represents the output returned from the payment gateway for an API call to the createCustomerShippingAddress function.

Table 21 Output for createCustomerShippingAddressResponse

FIELD	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value is included in the response. This feature might be especially useful for multi-threaded applications.
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address	Numeric	This output is present only for successful requests.

Example Sample createCustomerShippingAddressResponse

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerShippingAddressResponse xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <customerAddressId>30000</customerAddressId>
</createCustomerShippingAddressResponse>
```

Output for createCustomerProfileTransactionResponse

The following table represents the output returned from the payment gateway for an API call to the createCustomerProfileTransaction function.

Table 22 Output for createCustomerProfileTransactionResponse

FIELD	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value is included in the response. This feature might be especially useful for multi-threaded applications.
directResponse	Contains detailed information about the result of the transaction.	String See the <i>Advanced Integration Guide</i> at http://www.authorize.net/support/AIM_guide.pdf for details about information included in the payment gateway transaction response.	Transactions created from a customer profile behave the same as regular transactions - you and your customer will receive all associated email notifications. Additionally, all fraud settings, including FDS filters and AVS and CCV settings, will be enforced.

Example createCustomerProfileTransactionResponse

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileTransactionResponse xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <directResponse>1,1,1,This transaction has been
approved.,000000,Y,2000000001,INV000001,description of
transaction,10.95,CC,auth_capture,custId123,John,Doe,,123 Main
St.,Bellevue,WA,98004,USA,000-000-0000,,mark@example.com,John,Doe,,123
Main St.,Bellevue,WA,98004,USA,1.00,0.00,2.00,FALSE,PONUM000001,
D18EB6B211FE0BBF556B271FDA6F92EE,M,2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
  </directResponse>
</createCustomerProfileTransactionResponse>
```

Output for deleteCustomerProfileResponse

The following table lists the output returned from the payment gateway for an API call to the deleteCustomerProfile function.

Table 23 Output for deleteCustomerProfileResponse

FIELD	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value is included in the response. This feature might be especially useful for multi-threaded applications.

Example deleteCustomerProfileResponse

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

Output for deleteCustomerPaymentProfileResponse

The following table lists the output returned from the payment gateway for an API call to the deleteCustomerPaymentProfile function.

Table 24 Output for deleteCustomerPaymentProfileResponse

FIELD	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant- assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value is included in the response. This feature might be especially useful for multi- threaded applications.

Example deleteCustomerPaymentProfileResponse

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

Output for deleteCustomerShippingAddressResponse

The following table lists the output returned from the payment gateway for an API call to the deleteCustomerShippingAddressRequest function.

Table 25 Output for deleteCustomerShippingAddressResponse

FIELD	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value is included in the response. This feature might be especially useful for multi-threaded applications.

Example deleteCustomerShippingAddressResponse

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

Output for getCustomerProfileIdsResponse

The following table lists the output returned from the payment gateway for an API call to the getCustomerProfileIdsRequest function.

Table 26 Output for getCustomerProfileIdsResponse

FIELD	VALUE	TYPE/FORMAT	NOTES
-------	-------	-------------	-------

Table 26 Output for `getCustomerProfileIdsResponse` (Continued)

refId	Merchant-assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value is included in the response. This feature might be especially useful for multi-threaded applications.
ids	Payment gateway assigned IDs associated with the customer profiles	Numeric	This output is present only for successful requests.

Example Successful `getCustomerProfileIdsResponse`

```
<?xml version="1.0" encoding="utf-8"?>
<getCustomerProfileIdsResponse xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <ids>
    <numericString>10000</numericString>
    <numericString>10001</numericString>
    <numericString>10002</numericString>
  </ids>
</getCustomerProfileIdsResponse>
```

Output for `getCustomerProfileResponse`

The following table lists the output returned from the payment gateway for an API call to the `getCustomerProfileRequest` function.

Table 27 Output for `getCustomerProfileResponse`

FIELD	VALUE	TYPE/FORMAT	NOTES
profile	Contains information for the customer profile		

Table 27 Output for getCustomerProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	This output is present only for successful requests.
merchantCustomerId	Merchant-assigned ID for the customer. Optional	Up to 20 characters	
description	Description of the customer or customer profile Optional	Up to 255 characters	
email	Email address associated with the customer profile Optional	Up to 255 characters	
paymentProfiles	Contains payment profiles for the customer profile		
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	
payment	Contains payment profile information for the customer profile		
creditCard	Contains credit card payment information for the customer profile		
cardNumber	The customer's credit card number	13 to 16 digits	All sensitive payment information in the output is masked.
expirationDate	The expiration date for the customer's credit card	YYYY-MM	All sensitive payment information in the output is masked.
bankAccount	Contains bank account payment information for the customer profile		

Table 27 Output for getCustomerProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
routingNumber	The routing number of the customer's bank	9 digits	All sensitive payment information in the output is masked.
accountNumber	The customer's bank account number	5 to 17 digits	All sensitive payment information in the output is masked.
driversLicense	Contains the customer's driver's license information		This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.
state	The state of the customer's driver's license	A valid two-character state code	This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.
number	The customer's driver's license number	5 to 20 characters	This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product. All sensitive payment information in the output is masked.

Table 27 Output for getCustomerProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
dateOfBirth	The date of birth listed on the customer's driver's license	YYYY-MM-DD	This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product. All sensitive payment information in the output is masked.
taxId	The customer's Social Security Number or tax ID	9 digits	This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product. All sensitive payment information in the output is masked.
shipToList	Contains shipping address profile information for the customer profile		
customerShippingAddressId	Payment gateway-assigned ID associated with the customer shipping address	Numeric	
firstName	The customer's first name Optional	Up to 50 characters (no symbols)	
lastName	The customer's last name Optional	Up to 50 characters (no symbols)	

Table 27 Output for getCustomerProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
company	The name of the company associated with the customer, if applicable Optional	Up to 50 characters (no symbols)	
address	The customer's shipping address Optional	Up to 60 characters (no symbols)	
city	The city of the customer's shipping address Optional	Up to 40 characters (no symbols)	
state	The state of the customer's shipping address Optional	Up to 40 characters (no symbols)	
zip	The zip code of the customer's shipping address Optional	Up to 20 characters (no symbols)	
country	The country of the customer's shipping address Optional	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer's shipping address Optional	Up to 25 digits (no letters) For example, (123)123-1234	
faxNumber	The fax number associated with the customer's shipping address Optional	Up to 25 digits (no letters) For example, (123)123-1234	

Example getCustomerProfileResponse

```
<?xml version="1.0" encoding="utf-8"?>
<getCustomerProfileResponse xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <profile>
    <merchantCustomerId>custId123</merchantCustomerId>
    <description>some description</description>
    <email>mark@example.com</email>
    <customerProfileId>10000</customerProfileId>
    <paymentProfiles>
      <billTo>
        <firstName>John</firstName>
        <lastName>Doe</lastName>
        <company></company>
        <address>123 Main St.</address>
        <city>Bellevue</city>
        <state>WA</state>
        <zip>98004</zip>
        <country>USA</country>
        <phoneNumber>000-000-0000</phoneNumber>
        <faxNumber></faxNumber>
      </billTo>
      <customerPaymentProfileId>20000</customerPaymentProfileId>
      <payment>
        <creditCard>
          <cardNumber>XXXX1111</cardNumber>
          <expirationDate>XXXX</expirationDate>
        </creditCard>
      </payment>
    </paymentProfiles>
  </profile>
  <paymentProfiles>
    <customerPaymentProfileId>20001</customerPaymentProfileId>
    <payment>
      <bankAccount>
        <accountType>checking</accountType>
        <routingNumber>XXXX0000</routingNumber>
      </bankAccount>
    </payment>
  </paymentProfiles>
</getCustomerProfileResponse>
```

```
        <accountNumber>XXXX0000</accountNumber>
        <nameOnAccount>John Doe</nameOnAccount>
        <bankName>Bank of Washington</bankName>
    </bankAccount>
</payment>
</paymentProfiles>
<shipToList>
    <firstName>John</firstName>
    <lastName>Doe</lastName>
    <company></company>
    <address>123 Main St.</address>
    <city>Bellevue</city>
    <state>WA</state>
    <zip>98004</zip>
    <country>USA</country>
    <phoneNumber>000-000-0000</phoneNumber>
    <faxNumber></faxNumber>
</shipToList>
<shipToList>
    <firstName>Jane</firstName>
    <lastName>Doe</lastName>
    <address>123 Main St.</address>
    <city>Bellevue</city>
    <state>WA</state>
    <zip>98004</zip>
    <country>USA</country>
    <phoneNumber>000-000-0000</phoneNumber>
</shipToList>
</profile>
</getCustomerProfileResponse>
```

Output for getCustomerPaymentProfileResponse

The following table lists the output returned from the payment gateway for an API call to the `getCustomerPaymentProfileRequest` function.

Table 28 Output for getCustomerPaymentProfileResponse

FIELD	VALUE	TYPE/FORMAT	NOTES
paymentProfile	Contains payment information for the customer profile		
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	
customerType		individual business	
billTo			
firstName	The customer's first name	Up to 50 characters (no symbols)	
lastName	The customer's last name	Up to 50 characters (no symbols)	
company	The name of the company associated with the customer, if applicable	Up to 50 characters (no symbols)	
address	The customer's address	Up to 60 characters (no symbols)	
city	The city of the customer's address	Up to 40 characters (no symbols)	
state	The state of the customer's address	Up to 40 characters (no symbols)	
zip	The ZIP code of the customer's address	Up to 20 characters (no symbols)	
country	The country of the customer's address	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer's address	Up to 25 digits (no letters) Ex. (123)123-1234	
faxNumber	The fax number associated with the customer's address	Up to 25 digits (no letters) Ex. (123)123-1234	

Table 28 Output for getCustomerPaymentProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
payment	Contains payment profile information for the customer profile		
creditCard	Contains credit card payment information for the payment profile		
cardNumber	The customer's credit card number	13 to 16 digits	All sensitive payment information in the output is masked.
expirationDate	The expiration date for the customer's credit card	YYYY-MM	All sensitive payment information in the output is masked.
bankAccount	Contains bank account payment information for the payment profile		
accountType	The type of bank account for the payment profile	checking savings businessChecking	
routingNumber	The routing number of the customer's bank	9 digits	All sensitive payment information in the output is masked.
accountNumber	The customer's bank account number	5 to 17 digits	All sensitive payment information in the output is masked.
nameOnAccount	The customer's full name as listed on the bank account	Up to 22 characters	
echeckType	The type of electronic check transaction	CCD PPD TEL WEB	Currently, the CIM API does not support ARC or BOC transaction types.
bankName	The name of the bank associated with the bank account number	Up to 50 characters	

Table 28 Output for getCustomerPaymentProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
driversLicense	Contains the customer's driver's license information		This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.
state	The state of the customer's driver's license	A valid two-character state code	This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.
number	The customer's driver's license number	Between 5 and 20 characters	This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product. All sensitive payment information in the output is masked.
dateOfBirth	The date of birth listed on the customer's driver's license	YYYY-MM-DD	This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product. All sensitive payment information in the output is masked.

Table 28 Output for getCustomerPaymentProfileResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
taxId	The customer's Social Security Number or tax ID	9 digits	<p>This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p> <p>All sensitive payment information in the output is masked.</p>

Example getCustomerPaymentProfileResponse

```

<?xml version="1.0" encoding="utf-8"?>
<getCustomerPaymentProfileResponse xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <paymentProfile>
    <billTo>
      <firstName>John</firstName>
      <lastName>Doe</lastName>
      <company></company>
      <address>123 Main St.</address>
      <city>Bellevue</city>
      <state>WA</state>
      <zip>98004</zip>
      <country>USA</country>
      <phoneNumber>000-000-0000</phoneNumber>
      <faxNumber></faxNumber>
    </billTo>
    <customerPaymentProfileId>20000</customerPaymentProfileId>
    <payment>
      <creditCard>
        <cardNumber>XXXX1111</cardNumber>
        <expirationDate>XXXX</expirationDate>
      </creditCard>
    </payment>
  </paymentProfile>
</getCustomerPaymentProfileResponse>

```

Output for getCustomerShippingAddressResponse

The following table lists the output returned from the payment gateway for an API call to the getCustomerShippingAddressRequest function.

Table 29 Output for getCustomerShippingAddressResponse

FIELD	VALUE	TYPE/FORMAT	NOTES
address	Contains shipping address information for the customer profile	CustomerAddressExType	

Table 29 Output for getCustomerShippingAddressResponse (Continued)

FIELD	VALUE	TYPE/FORMAT	NOTES
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address	Numeric	
firstName	The customer's first name	Up to 50 characters (no symbols)	
lastName	The customer's last name	Up to 50 characters (no symbols)	
company	The name of the company associated with the customer, if applicable	Up to 50 characters (no symbols)	
address	The customer's address	Up to 60 characters (no symbols)	
city	The city of the customer's address	Up to 40 characters (no symbols)	
state	The state of the customer's address	Up to 40 characters (no symbols)	
zip	The ZIP code of the customer's address	Up to 20 characters (no symbols)	
country	The country of the customer's address	Up to 60 characters (no symbols)	
phoneNumber	The phone number associated with the customer's address	Up to 25 digits (no letters) Ex. (123)123-1234	
faxNumber	The fax number associated with the customer's address	Up to 25 digits (no letters) Ex. (123)123-1234	

Example getCustomerShippingAddressResponse

```
<?xml version="1.0" encoding="utf-8"?>
<getCustomerShippingAddressResponse xmlns="AnetApi/xml/v1/schema/
AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <address>
    <firstName>John</firstName>
    <lastName>Doe</lastName>
    <company></company>
    <address>123 Main St.</address>
    <city>Bellevue</city>
    <state>WA</state>
    <zip>98004</zip>
    <country>USA</country>
    <phoneNumber>000-000-0000</phoneNumber>
    <faxNumber></faxNumber>
    <customerShippingAddressId>30000</customerShippingAddressId>
  </address>
</getCustomerShippingAddressResponse>
```

Output for getHostedProfilePage

The following table lists the output returned from the payment gateway for an API call to the getHostedProfilePageRequest function.

Table 30 Output for getHostedProfilePage

FIELD	VALUE	TYPE/FORMAT	NOTES
Token	string	An encrypted string that the merchant must include when posting to the Authorize.Net web page.	If not used within 15 minutes of the original API call, this token expires.

The customer's browser posts the token, Authorize.Net validates it, and makes sure the timestamp is less than 15 minutes old.

For more complete information on how to use hosted CIM access, see Chapter 2, [Using the Hosted API](#), on page 4.

Example Sample getHostedProfilePageResponse

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

  <token>+ZeWDaUOPoQPRGTHcKd7DYbMfcAFDrhO8GPOFnt+ACzJnvkz+aW00SYSA9x602jAIKKfUHUt2y
  bwQRaG8LzHluuR5dRgsuh+kjarKvD0hpieGjLHmnz0LHmFv1Xe9P3zpmawqBCSB/
  d4jcSg9dAxecNBUzMwIuYzY+vGUGLUXgr9QPaRh93HqWZrV4MbwoP</token>
</getHostedProfilePageResponse>
```

Output for updateCustomerProfileResponse

The following table lists the output returned from the payment gateway for an API call to the updateCustomerProfileRequest function.

FIELD	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-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.
UpdateCustomerProfileResult	Contains the result of the API request to update a customer profile	UpdateCustomerProfileResponseType	See the Response Codes section of this document for possible values.

Example updateCustomerProfileResponse

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

Output for updateCustomerPaymentProfileResponse

The following table lists the output returned from the payment gateway for an API call to the updateCustomerPaymentProfileRequest function.

Table 31 Output for updateCustomerPaymentProfileResponse

FIELD	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant-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.
validationDirectResponse	Contains detailed information about the result of the transaction. Optional	String See the <i>Advanced Integration Guide</i> at http://www.authorize.net/support/AIM_guide.pdf for details about information included in the payment gateway transaction response.	This output is only present if the ValidationMode input element is passed with a value of testMode or liveMode.

Example updateCustomerPaymentProfileResponse

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

Output for updateCustomerShippingAddressResponse

The following table lists the output returned from the payment gateway for an API call to the updateCustomerShippingAddress function.

Table 32 Output for updateCustomerShippingAddressResponse

FIELD	VALUE	TYPE/ FORMAT	NOTES
refId	Merchant- 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.

Example updateCustomerShippingAddressResponse

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

Output for updateSplitTenderGroup

The following table lists the output returned from the payment gateway for an API call to the updateSplitTenderGroup function.

Table 33 Output for updateSplitTenderGroup

FIELD	VALUE	TYPE/FORMAT	NOTES
refId	Merchant-assigned reference ID for the request Optional	Up to 20 characters	If included in the request, this value is included in the response. This feature might be especially useful for multi-threaded applications.

Example Output for updateSplitTenderGroupResponse

The following example shows output returned from the payment gateway for an API call to the **updateSplitTenderGroupRequest** function.

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

Output for validateCustomerPaymentProfileResponse

The following table represents the output returned from the payment gateway for an API call to the validateCustomerPaymentProfileRequest function.

Table 34 Output for validateCustomerPaymentProfileResponse

FIELD	VALUE	TYPE/ FORMAT	NOTES
directResponse	Contains detailed information about the result of the transaction.	String See the <i>Advanced Integration Guide</i> at http://www.authorize.net/support/AIM_guide.pdf for details about information included in the payment gateway transaction response.	

Example validateCustomerPaymentProfileResponse

```
<?xml version="1.0" encoding="utf-8"?>
<validateCustomerPaymentProfileResponse xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
  <messages>
    <resultCode>Ok</resultCode>
    <message>
      <code>I00001</code>
      <text>Successful.</text>
    </message>
  </messages>
  <directResponse>1,1,1,This transaction has been approved.,000000,Y,2000000003,none,Test transaction for ValidateCustomerPaymentProfile.,0.01,CC,auth_only,custId123,John,Doe,,123 Main St.,Bellevue,WA,98004,USA,000-000-0000,,mark@example.com,John,Doe,,123 Main St.,Bellevue,WA,98004,USA,0.00,0.00,0.00,,none,D18EB6B211FE0BBF556B271FDA6F92EE,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
  </directResponse>
</validateCustomerPaymentProfileResponse>
```

Duplicate Profile Verification

When you submit calls to the createCustomerProfileRequest, createCustomerPaymentProfileRequest, and createCustomerShippingAddressRequest functions,

the payment gateway checks certain fields in each request to ensure that a profile with that same information does not already exist. If a profile already exists that contains the values being submitted in the new request, then the payment gateway returns an error message. If the duplicate profile is a customer profile, the error message contains the ID of the already-created profile. The duplicate profile verification serves as a safeguard against accidental duplicate submissions.

The following table lists the fields for each function that cannot match any other profile already created. An error will occur only if ALL the values for each field being submitted match ALL the values for each field in the already existing profile.

Table 35 Duplicate profile verification

FUNCTION	FIELDS USED FOR DUPLICATE PROFILE VERIFICATION
createCustomerProfileRequest	merchantCustomerId, description, email
createCustomerPaymentProfile Request	customerProfileId, cardNumber, accountNumber, routingNumber, billToFirstName, billToLastName, billToAddress, and billToZip
createCustomerShippingAddressesRequest	customerProfileId, firstName, lastName, address, zip and phoneNumber

Chapter 5

Response Codes

The following table lists the common response codes and texts for requests to the Customer Information Manager API.

CODE	TEXT	DESCRIPTION
I00001	Successful	The request was processed successfully.
I00003	The record has already been deleted.	The record has already been deleted.
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 merchantAuthentication.transactionKey is invalid or not present.	Merchant authentication requires a valid value for transaction key.
E00006	The merchantAuthentication.name is invalid or not present.	Merchant authentication requires a valid value for name.
E00007	User authentication failed due to invalid authentication values.	The name/and or transaction key is invalid.
E00008	User authentication failed. The payment gateway account or user is inactive.	The payment gateway or user account is not currently active.
E00009	The payment gateway account is in Test Mode. The request cannot be processed.	The requested API method cannot be executed while the payment gateway account is in Test Mode.
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.

CODE	TEXT	DESCRIPTION
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.
E00019	The customer taxId or driversLicense information is required.	The customer tax ID or driver's license information (driver's license number, driver's license state, driver's license DOB) is required for the subscription.
E00027	The transaction was unsuccessful.	An approval was not returned for the transaction.
E00029	Payment information is required.	Payment information is required when creating a subscription or payment profile.
E00039	A duplicate record already exists.	A duplicate of the customer profile, customer payment profile, or customer address was already submitted.
E00040	The record cannot be found.	The profileID, paymentProfileId, or shippingAddressId for this request is not valid for this merchant.
E00041	One or more fields must contain a value.	All of the fields were empty or missing.
E00042	The maximum number of payment profiles allowed for the customer profile is {0}.	The maximum number of payment profiles for the customer profile has been reached.
E00043	The maximum number of shipping addresses allowed for the customer profile is {0}.	The maximum number of shipping addresses for the customer profile has been reached.
E00044	Customer Information Manager is not enabled.	The payment gateway account is not enabled for Customer Information Manager (CIM).
E00045	The root node does not reference a valid XML namespace.	An error exists in the XML namespace. This error is similar to E00003
E00051	The original transaction was not issued for this payment profile.	If the customer profile ID, payment profile ID, and shipping address ID are included, they must match the original transaction.

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