Authorize.Net®

a CyberSource solution

Merchant Web Services API

Customer Information Manager (CIM)
XML Guide

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Revision History

PUBLISH DATE	UPDATES
November 2007	Initial release of the Customer Information Manager (CIM) API
May 2008	Remove SecureSource requirements and various updates
January 2009	Addition of getCustomerProfileIdsRequest and various updates

Section 1
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, get, and update customer profile information, including payment and address information, via direct integration between client software or applications and the Authorize.Net Payment Gateway.

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

Minimum Requirements

Before you begin this integration for an Authorize.Net Payment Gateway account, please 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 be signed up for the CIM service.**

- **The merchant must store account authentication data securely (for example, API login ID, transaction key).**

Note: Merchants should avoid storing any type of sensitive cardholder information. However, in the event that a merchant or third party must store sensitive customer business or payment information, compliance with industry standard storage requirements is required. Please see the *Developer Security Best Practices White Paper* at http://www.authorize.net/files/developerbestpractices.pdf for guidelines.

Developer Support

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

- The Integration 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 Integration Center, our Integration Team is available to answer your questions via e-mail 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 any suggestions about how we can improve or correct this guide, please e-mail documentation@authorize.net.

Section 2
Executing an API Call

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

There are two options for developing the request script:

- You may develop a custom script yourself using the API fields information provided in this document, OR
- You may use Authorize.Net sample code in C# and Java available for free from our Integration 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 it **must** be modified with developer test account or the merchant's specific payment gateway account information.

Web Service Locations

ITEM	LOCATION
Production	https://api.authorize.net/xml/v1/request.api
Developer Test	https://apitest.authorize.net/xml/v1/request.api
XML Schema	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 Integration Center at http://developer.authorize.net/testaccount. Developer test accounts cannot be used to test against the Production URL.

CIM Functions

The CIM API includes the following 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. You can create up to 10 payment profiles for each customer profile.

- **createCustomerShippingAddressRequest** – Create a new customer shipping address for an existing customer profile. You can create up to 100 customer shipping addresses for each 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.

- **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.

- **validateCustomerPaymentProfileRequest** – Verify an existing customer payment profile by generating a test transaction.

The following sections provide information about the input elements required for executing the functions listed above. Indentations in the Element column indicate grouping hierarchy. **All elements are case sensitive and must be submitted in the order listed here. Elements are required unless otherwise indicated. Optional elements should not be submitted unless they contain valid values.**

Note: Elements required for individual API calls are in addition to the authentication elements required for all API calls.

Authentication

ALL calls to the API require merchant authentication to ensure they originate from authorized sources. This implementation of the merchant Web services API supports authentication using the API Login ID and Transaction Key.

ELEMENT	VALUE	FORMAT	NOTES
merchantAuthentication	Contains merchant unique 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

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements for createCustomerProfileRequest

This function is used to create a new customer profile along with any customer payment profiles and customer shipping addresses for the customer profile.

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

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.
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.

ELEMENT	VALUE	FORMAT	NOTES
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 may 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)	
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*	A valid two-character state code	
zip	The ZIP code of the customer's	Up to 20 characters (no symbols)	

ELEMENT	VALUE	FORMAT	NOTES
	address *Optional*		
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) Ex. (123)123-1234	
faxNumber	The fax number associated with the customer profile *Optional*	Up to 25 digits (no letters) Ex. (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 is 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	
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, please see the *Merchant Integration Guide* at http://www.authorize.n et/support/Merchant/de fault.htm. **cardCode** is only used for validation and will

ELEMENT	VALUE	FORMAT	NOTES
			not be 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 payment profile		This element is only required 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	
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)	

ELEMENT	VALUE	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 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*	A valid two-character state code	
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) Ex. (123)123-1234	
faxNumber	The fax number associated with the customer profile *Optional*	Up to 25 digits (no letters) Ex. (123)123-1234	

ELEMENT	VALUE	FORMAT	NOTES
validationMode	Indicates the processing mode for the request *Optional*	none testMode liveMode	Validation mode allows you to generate a test transaction at the time you create a customer profile. In Test Mode, only field validation is performed. In Live Mode, a transaction is generated and submitted to the processor with the amount of $0.01. If successful, the transaction is immediately voided. When a value of "none" is submitted, no additional validation is performed. If a validation transaction is unsuccessful, the profile will not be created and the merchant will receive an error.

For information about output for this function, see the section of this document titled "Output Elements 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 Integration 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 elements for executing an API call to the createCustomerPaymentProfileRequest function.

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.
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)	
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)	

ELEMENT	VALUE	FORMAT	NOTES
city	The city of the customer's address *Optional*	Up to 40 characters (no symbols)	
state	The state of the customer's address *Optional*	A valid two-character state code	
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) Ex. (123)123-1234	
faxNumber	The fax number associated with the customer's address *Optional*	Up to 25 digits (no letters) Ex. (123)123-1234	
payment	Contains payment information for the customer profile		Can contain **creditCard** or **bankAccount**
creditCard	Contains credit card payment information for the customer profile		This element is 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	
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, please see the *Merchant Integration Guide* at http://www.authorize.net /support/Merchant/defau lt.htm.

ELEMENT	VALUE	FORMAT	NOTES
			cardCode is only used for validation and will not be 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		This element is only required 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	
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	none testMode liveMode	Validation mode allows you to generate a test transaction at the time you create a customer payment profile. In Test Mode, only field validation is performed. In Live Mode, a transaction is generated and submitted to the processor with the amount of $0.01. If successful, the transaction is immediately voided.

ELEMENT	VALUE	FORMAT	NOTES
			When a value of "none" is submitted, no additional validation is performed.

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerPaymentProfileResponse."

Example createCustomerPaymentProfileRequest

```xml
<?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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements for createCustomerShippingAddressRequest

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

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

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.
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*	A valid two-character state code	
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	Up to 25 digits (no letters) Ex. (123)123-1234	

ELEMENT	VALUE	FORMAT	NOTES
	Optional		
faxNumber	The fax number associated with the customer's shipping address *Optional*	Up to 25 digits (no letters) Ex. (123)123-1234	

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerShippingAddressResponse."

> **Example createCustomerShippingAddressRequest**
>
> ```xml
> <?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>
> ```

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 Integration Center at http://developer.authorize.net/samplecode.

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, please see the *Merchant Integration Guide* at http://www.authorize.net/support/Merchant/default.htm.

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

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

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.
transaction	Contains transaction information		
profileTransAuthOnly	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*		
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	
shipping	Contains shipping information for the transaction		

ELEMENT	VALUE	FORMAT	NOTES
	Optional		
amount	The shipping 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 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) Ex. 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 may 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	Up to 31 characters	

ELEMENT	VALUE	FORMAT	NOTES
	description of an item *Optional*		
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) Ex. 4.95	
taxable	Indicates whether the item is subject to tax *Optional*	0 1	Standard Boolean logic, 0=FALSE and 1=TRUE
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*		

ELEMENT		VALUE	FORMAT	NOTES
	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	
	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, please see the *Merchant Integration Guide* at http://www.authorize.net/support/Merchant/default.htm.
extraOptions		Information in name/value pair format that does not exist within CIM, such as customer IP address, etc. *Optional*	String (see example below)	For a complete list of the transaction variable names available, please review the *AIM Implementation Guide* located at http://www.authorize.net/support/aim_guide.pdf.

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerProfileTransactionResponse."

Example createCustomerProfileTransactionRequest for an Authorization Only transaction

```xml
<?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>
      <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>
    </profileTransAuthOnly>
  </transaction>

<extraOptions><![CDATA[x customer ip=100.0.0.1&x authentication
indicator=5&x cardholder authentication value=uq3wDbqt8A26rfANAA
AAAP]]></extraOptions>
```

```
</createCustomerProfileTransactionRequest>
```

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 Integration Center at http://developer.authorize.net/samplecode.

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

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.
transaction	Contains transaction information		
profileTransAuthCapture	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*		
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	

ELEMENT	VALUE	FORMAT	NOTES
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) Ex. 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) Ex. 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 may be included per transaction to describe items

ELEMENT	VALUE	FORMAT	NOTES
			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) Ex. 4.95	
taxable	Indicates whether the item is subject to tax *Optional*	0 1	Standard Boolean logic, 0=FALSE and 1=TRUE
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	Numeric	If **customerShippingAddressId** is not passed, shipping information will not be included

ELEMENT	VALUE	FORMAT	NOTES
	Optional		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	
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, please see the *Merchant Integration Guide* at http://www.authorize.net/support/Merchant/default.htm.
extraOptions	Information in name/value pair format that does not exist	String (see example below)	For a complete list of the transaction variable names

ELEMENT	VALUE	FORMAT	NOTES
	within CIM, such as customer IP address, etc. *Optional*		available, please review the *AIM Implementation Guide* located at http://www.auth orize.net/suppor t/aim_guide.pdf.

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerProfileTransactionResponse."

Example createCustomerProfileTransactionRequest for an Authorization and Capture transaction

```xml
<?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>
         <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>
      </profileTransAuthCapture>
    </transaction>

  <extraOptions><![CDATA[x customer ip=100.0.0.1]]></extraOptions>
  </createCustomerProfileTransactionRequest>
```

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 Integration Center at http://developer.authorize.net/samplecode.

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

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.
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) 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*		
amount	The tax amount for the	Up to 4 digits after the decimal point (no dollar	This amount must be

ELEMENT	VALUE	FORMAT	NOTES
	transaction *Optional*	symbol) Ex. 12.99 or 12.9999	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) Ex. 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) Ex. 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	Up to 255 characters	

ELEMENT	VALUE	FORMAT	NOTES
	the transaction *Optional*		
lineItems	Contains line item details about the order *Optional*		Up to 30 distinct instances of this element may 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) Ex. 4.95	
taxable	Indicates whether the item is subject to tax *Optional*	0 1	Standard Boolean logic, 0=FALSE and 1=TRUE
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	
customerPaymentProfileId	Payment gateway assigned ID associated with	Numeric	

ELEMENT	VALUE	FORMAT	NOTES
	the customer payment profile		
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	
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	3 to 4 digits	This field is required if the merchant would like to use the CCV security feature. For more information, please see the *Merchant Integration Guide* at

ELEMENT	VALUE	FORMAT	NOTES
	Card Code Verification (CCV) filter *Conditional*		http://www.authorize.net/support/Merchant/default.htm.
approvalCode	The authorization code of an original transaction required for a Capture Only *Conditional*	6 characters	This element is only required 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 (see example below)	For a complete list of the transaction variable names available, please review the *AIM Implementation Guide* located at http://www.authorize.net/support/aim_guide.pdf.

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerProfileTransactionResponse."

Example createCustomerProfileTransactionRequest for a Capture Only transaction

```xml
<?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>
      <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>
        <approvalCode>000000</approvalCode>
      </profileTransCaptureOnly>
    </transaction>

<extraOptions><![CDATA[x customer ip=100.0.0.1]]></extraOptions>
</createCustomerProfileTransactionRequest>
```

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 Integration Center at http://developer.authorize.net/samplecode.

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

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.
transaction	Contains transaction information		
profileTransPriorAuthCapture	The transaction type that is being requested		Only one transaction type is allowed per

ELEMENT	VALUE	FORMAT	NOTES
			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	
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) Ex. 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	Up to 255 characters	

ELEMENT	VALUE	FORMAT	NOTES
	Optional		
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) Ex. 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*		Line item information from the original authorization transaction will be used if this field is not submitted. Up to 30 distinct instances of this element may 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	Up to 255 characters	

ELEMENT	VALUE	FORMAT	NOTES
	an item *Optional*		
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) Ex. 4.95	
taxable	Indicates whether the item is subject to tax *Optional*	0 1	Standard Boolean logic, 0=FALSE and 1=TRUE
customerProfileId	Payment gateway assigned ID associated with the customer profile *Optional*	Numeric	If a value is submitted for this field, it must be the same ID used for the original authorization 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 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	String (see example below)	For a complete list of the transaction

ELEMENT	VALUE	FORMAT	NOTES
	does not exist within CIM, such as customer IP address, etc. *Optional*		variable names available, please review the *AIM Implementation Guide* located at http://www.authorize.net/support/aim_guide.pdf.

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerProfileTransactionResponse."

Example createCustomerProfileTransactionRequest for a Prior Authorization and Capture transaction

```xml
<?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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

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

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.
transaction	Contains transaction information		
profileTransRefund	The transaction type that is being requested		Only one transaction type is allowed per request.
amount	The total amount to be refunded	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 refund *Optional*		
amount	The tax amount to be refunded *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	Up to 255 characters	

ELEMENT	VALUE	FORMAT	NOTES
	description for the transaction *Optional*		
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) Ex. 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) Ex. 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 refund *Optional*		Up to 30 distinct instances of this element may be included per transaction to describe items included in the

ELEMENT	VALUE	FORMAT	NOTES
			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) Ex. 4.95	
taxable	Indicates whether the item is subject to tax *Optional*	0 1	Standard Boolean logic, 0=FALSE and 1=TRUE
customerProfileId	Payment gateway assigned ID associated with the customer profile *Conditional*	Numeric	Required if the masked payment information is not being submitted. Must be submitted with **customerPaymentProfileId.** 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	Numeric	Required if the masked payment information is not being submitted. Must be submitted with

ELEMENT	VALUE	FORMAT	NOTES
	Conditional		**customerProfileI d.** 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.
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. Ex. XXXX1234	Required for credit card transactions if **customerProfileI d AND customerPaymen tProfileId** are not being submitted. Value submitted must be the same number used for the original transaction.
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. Ex. XXXX1234	Required for electronic check transactions if **customerProfileI d AND customerPaymen tProfileId** are not being submitted. Must be submitted with **bankAccountNu mberMasked**. Value submitted must be the same number used for the original transaction.
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. Ex. XXXX1234	Required for electronic check transactions if **customerProfileI d AND customerPaymen tProfileId** are not

ELEMENT	VALUE	FORMAT	NOTES
			being submitted. Must be submitted with **bankRoutingNumberMasked**. Value submitted must be the same number used for the original 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)	
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 (see example below)	For a complete list of the transaction variable names available, please review the *AIM Implementation Guide* located at http://www.authorize.net/support/aim_guide.pdf.

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerProfileTransactionResponse."

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>
      <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>
      <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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

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

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.
transaction	Contains transaction information		
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 *Optional*	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	String (see example below)	For a complete

ELEMENT	VALUE	FORMAT	NOTES
	name/value pair format that does not exist within CIM, such as customer IP address, etc. *Optional*		list of the transaction variable names available, please review the *AIM Implementation Guide* located at http://www.authorize.net/support/aim_guide.pdf.

For information about output elements for this function, see the section of this document titled "Output Elements for createCustomerProfileTransactionResponse."

> **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>
> ```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements 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 elements for executing an API call to the deleteCustomerProfileRequest function.

ELEMENT	VALUE	FORMAT	NOTES
refId	Merchant-assigned reference ID for the request	Up to 20 characters	If included in the request, this value will be included in the

	Optional		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 elements for this function, see the section of this document titled "Output Elements 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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements 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.

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.
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 elements for this function, see the section of this document titled "Output Elements 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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements 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	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 elements for this function, see the section of this document titled "Output Elements for deleteCustomerShippingAddressResponse."

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>
```

```
    <customerShippingAddressId>30000</customerShippingAddressId>
</deleteCustomerShippingAddressRequest>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements for getCustomerProfileIdsRequest

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

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

ELEMENT	VALUE	FORMAT	NOTES
merchantAuthentication	Contains merchant unique 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 elements for this function, see the section of this document titled "Output Elements for getCustomerProfileIdsResponse."

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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements for getCustomerProfileRequest

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

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

ELEMENT	VALUE	FORMAT	NOTES
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	

For information about output elements for this function, see the section of this document titled "Output Elements 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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements 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	FORMAT	NOTES
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 elements for this function, see the section of this document titled "Output Elements for getCustomerPaymentProfileResponse."

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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements for getCustomerShippingAddress

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	FORMAT	NOTES
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 elements for this function, see the section of this document titled "Output Elements for getCustomerShippingAddressResponse."

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>
   <customerShippingAddressId>30000</customerShippingAddressId>
</getCustomerShippingAddressRequest>
```

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 Integration Center at
http://developer.authorize.net/samplecode.

Input Elements 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.

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.
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 elements for this function, see the section of this document titled
"Output Elements for updateCustomerProfileResponse."

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>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements for updateCustomerPaymentProfileRequest

This function is used to update a customer 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 elements in this request are not submitted or are submitted with a blank value, the values in the original profile will be removed. As a best practice to prevent this from happening, before calling updateCustomerPaymentProfileRequest, call getCustomerPaymentProfileRequest. That will return all current information including masked payment information. Then simply change the field that needs updating and use that XML to call updateCustomerPaymentProfileRequest.

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.
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

ELEMENT	VALUE	FORMAT	NOTES
			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.
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 shipping 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 shipping address *Optional*	A valid two-character state code	If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the

ELEMENT	VALUE	FORMAT	NOTES
			profile.
zip	The ZIP code of the customer's shipping 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 shipping 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.
phoneNumber	The phone number associated with the customer's shipping address *Optional*	Up to 25 digits (no letters) Ex. (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 shipping address *Optional*	Up to 25 digits (no letters) Ex. (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 **creditCard** or **bankAccount**
creditCard	Contains credit card payment information for the customer profile *Conditional*		This element is 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, ex. 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, ex. XXXX	If a masked value is submitted, the original value will not be updated.
cardCode	The three- or four-	Numeric	This field is required if

ELEMENT	VALUE	FORMAT	NOTES
	digit number on the back of a credit card (on the front for American Express) *Optional*		the merchant would like to use the Card Code Verification (CCV) security feature. For more information, please see the *Merchant Integration Guide* at http://www.authorize.net/support/Merchant/default.htm. **cardCode** is only used for validation and will not be 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 element is 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, ex. 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.
accountNumber	The customer's bank account number	5 to 17 digits Number can also be masked, ex. 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

ELEMENT	VALUE	FORMAT	NOTES
			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	
validationMode	Indicates the processing mode for the request *Optional*	none testMode liveMode	Validation mode allows you to generate a test transaction at the time you create a customer profile. In Test Mode, only field validation is performed. In Live Mode, a transaction is generated and submitted to the processor with the amount of $0.01. If successful, the transaction is immediately voided. When a value of "none" is submitted, no additional validation is performed. If a validation transaction is unsuccessful, the profile will not be updated and the merchant will receive

ELEMENT	VALUE	FORMAT	NOTES
			an error.

To test to see if the new payment information is valid, you can call validateCustomerPaymentProfileRequest after successfully updating the payment profile. See the section of this document titled "Input Elements for validateCustomerPaymentProfileRequest" for more information.

For information about output elements for this function, see the section of this document titled "Output Elements for updateCustomerPaymentProfileResponse."

Example updateCustomerPaymentProfileRequest

```xml
<?xml version="1.0" encoding="utf-8"?>
<updateCustomerPaymentProfileRequest
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>2026-01</expirationDate>
      </creditCard>
    </payment>
    <customerPaymentProfileId>20000</customerPaymentProfileId>
  </paymentProfile>
</updateCustomerPaymentProfileRequest>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements 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.

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.
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*	A valid two-character state code	
zip	The ZIP code of the customer's shipping address *Optional*	Up to 20 characters (no symbols)	
country	The country of the	Up to 60

ELEMENT	VALUE	FORMAT	NOTES
	customer's shipping address *Optional*	characters (no symbols)	
phoneNumber	The phone number associated with the customer's shipping address *Optional*	Up to 25 digits (no letters) Ex. (123)123-1234	
faxNumber	The fax number associated with the customer's shipping address *Optional*	Up to 25 digits (no letters) Ex. (123)123-1234	
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address	Numeric	

For information about output elements for this function, see the section of this document titled "Output Elements for updateCustomerShippingAddressResponse."

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>
    <customerShippingAddressId>30000</customerShippingAddressId>
  </address>
</updateCustomerShippingAddressRequest>
```

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 Integration Center at http://developer.authorize.net/samplecode.

Input Elements 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 calling validateCustomerPaymentProfileRequest.

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

ELEMENT	VALUE	FORMAT	NOTES
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, please see the *Merchant Integration Guide* at http://www.authorize.net/support/Merchant/default.htm. **cardCode** is only used for validation and will not be stored in the customer profile. It should only be used when submitting **validationMode** with a value of **testMode** or **liveMode**.
validationMode	Indicates the processing mode for the request	testMode liveMode	Validation mode allows you to generate a test transaction in either Test Mode or Live Mode to check the validity of customer information. In Test Mode, only field validation is performed. In Live Mode, a transaction is generated and submitted to the processor with the amount of $0.01. If successful, the transaction

ELEMENT	VALUE	FORMAT	NOTES
			is immediately voided.

For information about output elements for this function, see the section of this document titled "Output Elements for validateCustomerPaymentProfileResponse."

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 Integration Center at http://developer.authorize.net/samplecode.

Section 3
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.

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

Sample Response

```
<?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 will only return the assigned customerProfileId for the created profile. To retrieve the customerPaymentProfileId and the customerShippingId that may also be created when using the createCustomerProfileRequest function, you must submit the getCustomerProfileRequest function, using the assigned customerProfileId for that customer profile.

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.
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	This output is only present for successful requests.
customerPaymentProfileIdList	A list of all payment profile IDs created with the request *Optional*	Numeric	This output is only present for requests that contain one or more payment profiles. The payment profile IDs will be 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 only present for requests that contain multiple shipping profiles. The shipping profile IDs will be returned in the same order as they were in the request.
validationDirectResponseList	A list of the direct	String	This output is only

	response results for the validation transaction for each payment profile. *Optional*	See the *Advanced Integration Guide* at http://www.authorize. net/support/AIM_guid e.pdf for details about information included in the payment gateway transaction response.	present if the **ValidationMode** input element is passed with a value of **testMode** or **liveMode**. The list will be returned in the same order as the payment profiles were submitted in the request.

Sample 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>
```

Sample Unsuccessful createCustomerProfileResponse

```
<?xml version="1.0" encoding="utf-8"?>
<createCustomerProfileResponse
xmlns="AnetApi/xml/v1/schema/AnetApiSchema.xsd">
   <messages>
     <resultCode>Error</resultCode>
     <message>
       <code>E00044</code>
```

```
        <text>Customer Information Manager is not enabled.</text>
      </message>
    </messages>
</createCustomerProfileResponse>
```

Output for createCustomerPaymentProfileResponse

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

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.
customerPaymentProfileId	Payment gateway assigned ID associated with the customer payment profile	Numeric	This output is only present for successful requests.
validationDirectResponse	Contains detailed information about the result of the transaction.	String See the *Advanced Integration Guide* 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**.

Sample 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,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,,,,,,,,,,,,,,,,,,,,,,,,,,,,
  </validationDirectResponse>
```

```
</createCustomerPaymentProfileResponse>
```

Output for createCustomerShippingAddressResponse

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

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.
customerShippingAddressId	Payment gateway assigned ID associated with the customer shipping address	Numeric	This output is only present for successful requests.

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>
   <customerShippingAddressId>30000</customerShippingAddressId>
</createCustomerShippingAddressResponse>
```

Output for createCustomerProfileTransactionResponse

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

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.
directResponse	Contains detailed	String	Transactions created from a

	information about the result of the transaction.	See the *Advanced Integration Guide* at http://www.authorize.net/support/AIM_guide.pdf for details about information included in the payment gateway transaction response.	customer profile will 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.

Sample 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 additional output returned from the payment gateway for an API call to the deleteCustomerProfileRequest function.

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.

Sample 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 additional output returned from the payment gateway for an API call to the deleteCustomerPaymentProfileRequest function.

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.

Sample 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 additional output returned from the payment gateway for an API call to the deleteCustomerShippingAddressRequest function.

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.

Sample 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 additional output returned from the payment gateway for an API call to the getCustomerProfileIdsRequest function.

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.
ids	Payment gateway assigned IDs associated with the customer profiles	Numeric	This output is only present for successful requests.

Sample 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 additional output returned from the payment gateway for an API call to the getCustomerProfileRequest function.

ELEMENT	VALUE	FORMAT	NOTES
profile	Contains information for the customer profile		
customerProfileId	Payment gateway assigned ID associated with the customer profile	Numeric	This output is only present 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		

ELEMENT	VALUE	FORMAT	NOTES
	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		
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 only returned 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 only returned 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 only returned for profiles that were created under the SecureSource product. All sensitive

ELEMENT	VALUE	FORMAT	NOTES
			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 only returned 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 only returned 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	Up to 50 characters (no symbols)	

ELEMENT	VALUE	FORMAT	NOTES
	Optional		
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*	A valid two-character state code	
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) Ex. (123)123-1234	
faxNumber	The fax number associated with the	Up to 25 digits (no letters) Ex. (123)123-1234	

ELEMENT	VALUE	FORMAT	NOTES
	customer's shipping address *Optional*		

Sample getCustomerProfileResponse

```xml
<?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>
    <paymentProfiles>
      <customerPaymentProfileId>20001</customerPaymentProfileId>
      <payment>
        <bankAccount>
          <accountType>checking</accountType>
          <routingNumber>XXXX0000</routingNumber>
          <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 additional output returned from the payment gateway for an API call to the getCustomerPaymentProfileRequest function.

ELEMENT	VALUE	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)	

ELEMENT	VALUE	FORMAT	NOTES
state	The state of the customer's address	A valid two-character state code	
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	
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.

ELEMENT	VALUE	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	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	
driversLicense	Contains the customer's driver's license information		This field is no longer supported in CIM requests and is only returned 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 only returned 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 only returned 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 only returned for profiles that were created under the SecureSource product.

ELEMENT	VALUE	FORMAT	NOTES
			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 only returned for profiles that were created under the SecureSource product. All sensitive payment information in the output is masked.

Sample 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 additional output returned from the payment gateway for an API call to the getCustomerShippingAddressRequest function.

ELEMENT	VALUE	FORMAT	NOTES
address	Contains shipping address 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)	
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*	A valid two-character state code	
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	Up to 60 characters (no symbols)	

	Optional		
phoneNumber	The phone number associated with the customer's shipping address *Optional*	Up to 25 digits (no letters) Ex. (123)123-1234	
faxNumber	The fax number associated with the customer's shipping address *Optional*	Up to 25 digits (no letters) Ex. (123)123-1234	

Sample getCustomerShippingAddressResponse

```xml
<?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 updateCustomerProfileResponse

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

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.

Sample updateCustomerProfileResponse

```xml
<?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 additional output returned from the payment gateway for an API call to the updateCustomerPaymentProfileRequest function.

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

Sample updateCustomerPaymentProfileResponse

```xml
<?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 additional output returned from the payment gateway for an API call to the updateCustomerShippingAddressRequest function.

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.

Sample 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 validateCustomerPaymentProfileResponse

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

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

Sample 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 submitting calls to the createCustomerProfileRequest,
createCustomerPaymentProfileRequest, and createCustomerShippingAddressRequest functions, the
payment gateway will check certain fields in each request to determine 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 will return an error that 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 only occur if ALL the values for each field being submitted match ALL the
values for each field in the already existing profile.

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

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.
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	The maximum number of payment profiles for

	allowed for the customer profile is {0}.	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).