

# Merchant Web Services API

## Customer Information Manager (CIM) SOAP Guide

December 2015

**Authorize.Net<sup>®</sup>**

Authorize.Net LLC ("Authorize.Net") has made efforts to ensure the accuracy and completeness of the information in this document. However, Authorize.Net disclaims all representations, warranties and conditions, whether express or implied, arising by statute, operation of law, usage of trade, course of dealing or otherwise, with respect to the information contained herein. Authorize.Net assumes no liability to any party for any loss or damage, whether direct, indirect, incidental, consequential, special or exemplary, with respect to (a) the information; and/or (b) the evaluation, application or use of any product or service described herein.

Authorize.Net disclaims any and all representation that its products or services do not infringe upon any existing or future intellectual property rights. Authorize.Net owns and retains all right, title and interest in and to the Authorize.Net intellectual property, including without limitation, its patents, marks, copyrights and technology associated with the Authorize.Net services. No title or ownership of any of the foregoing is granted or otherwise transferred hereunder. Authorize.Net reserves the right to make changes to any information herein without further notice.

## **Authorize.Net Trademarks**

Advanced Fraud Detection Suite™

Authorize.Net®

Authorize.Net Your Gateway to IP Transactions™

Authorize.Net Verified Merchant Seal™

Automated Recurring Billing™

# Authorize.Net®

# Contents

## Revision History 6

---

### Chapter 1 **Developer Introduction** 7

Audience For This Guide	7
Integration Methods	7
Standard API	8
Hosted Form	8
Minimum Requirements	8
Payment Processors	9
North American Payment Processors	9
European Payment Processors	11
Asia-Pacific Processors	11
EVOSnap	12
Accepted Authorization/Settlement Currencies	12
Accepted Billing Currencies	12
Accepted Card Types	12
EVOSnap Supported Services	13
Developer Support	16
Software Development Kits	17

---

### Chapter 2 **Executing an API Call** 18

Web Service Locations	18
CIM Functions	19
The validationMode Parameter	20
Authentication	21
Input Parameter for CreateCustomerProfileFromTransaction	22
Input Parameters for CreateCustomerProfile	23
Input Parameters for CreateCustomerPaymentProfile	30
Input Parameters for CreateCustomerShippingAddress	34
Input Parameters for CreateCustomerProfileTransaction	35
For Authorization Only transactions	36
For Authorization and Capture Transactions	40

For Capture Only Transactions	45
For Prior Authorization and Capture Transactions	49
For Refund Transactions	53
For a Void Transaction	58
Input Parameters for DeleteCustomerProfile	59
Input Parameters for DeleteCustomerPaymentProfile	60
Input Parameters for DeleteCustomerShippingAddress	60
Input Parameters for GetCustomerProfileIds	61
Input Parameters for GetCustomerProfile	61
Input Parameters for GetCustomerPaymentProfile	62
Input Parameters for GetCustomerShippingAddress	62
Input Parameters for GetHostedProfilePage	63
Input Parameters for UpdateCustomerProfile	64
Input Parameters for UpdateCustomerPaymentProfile	65
Input Parameters for UpdateCustomerShippingAddress	71
Input Elements for UpdateSplitTenderGroup	73
Input Parameters for ValidateCustomerPaymentProfile	73
EVO Billing and Shipping Fields	74

---

## Chapter 3 Responses 76

CIM Responses	77
Output for CreateCustomerProfileFromTransactionResponse	77
Output for CreateCustomerProfileResponse	78
Output for CreateCustomerPaymentProfileResponse	80
Output for CreateCustomerShippingAddressResponse	81
Output for CreateCustomerProfileTransactionResponse	81
Output for DeleteCustomerProfileResponse	82
Output for DeleteCustomerPaymentProfileResponse	82
Output for DeleteCustomerShippingAddressResponse	83
Output for GetCustomerProfileIdsResponse	83
Output for GetCustomerProfileResponse	83
Output for GetCustomerPaymentProfileResponse	87
Output for GetCustomerShippingAddressResponse	91
Output for GetHostedProfilePage	92
Output for UpdateCustomerProfileResponse	92
Output for UpdateCustomerPaymentProfileResponse	93
Output for UpdateCustomerShippingAddressResponse	93
Output for UpdateSplitTenderGroup	94
Output for ValidateCustomerPaymentProfileResponse	94
Duplicate Profile Verification	94

---

<b>Chapter 4</b>	<b>Using a Hosted Form</b>	<b>96</b>
	Identifying the Customer	96
	Retrieving a Token	96
	Presenting the Hosted Form	97
	Form Action URLs	97
	Conditional fields	97
	Displaying the Form	97
	Redirect	98
	iFrame	99
	Guidelines for Parameter Settings	99
	<b>Response Codes</b>	<b>102</b>

# Revision History

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

<b>Publish Date</b>	<b>Update</b>
December 2015	This revision contains only editorial changes and no technical updates.
August 2015	Updated EVOSnap information in " <a href="#">Payment Processors</a> ," <a href="#">page 9</a> .
July 2015	Added a section about EVOSnap to " <a href="#">Payment Processors</a> ," <a href="#">page 9</a> . Added a new production URL to " <a href="#">Web Service Locations</a> ," <a href="#">page 18</a> .
June 2015	Listed line item fields as required only if <b>lineItem</b> is submitted.

# 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 Simple Object Access Protocol (SOAP).

SOAP provides a standards-based mechanism to access Web services from a wide range of platforms. Typically, you access Web services using a SOAP client on your programming environment. The SOAP client typically generates the native objects and interfaces based on a Web Services Description Language (WSDL) that is published by Authorize.Net. The client application initializes the local object and invokes the method as if it is calling a local procedure. The SOAP client generates and parses the underlying extensible markup language (XML) documents that form the basis of the SOAP protocol.

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

Please refer to specific SOAP client documentation for details on how to use SOAP-based Web services.

## Audience For This Guide

---

This guide is intended for developers who are responsible for maintaining a merchant's web site and integrating it with the Authorize.Net Payment Gateway.

## Integration Methods

---

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

## Standard API

---

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

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

For information regarding requirements for using the API, see "[Minimum Requirements](#)," [page 8](#) below.

## Hosted Form

---

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

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

For more information, refer to "[Using a Hosted Form](#)," [page 96](#).

## Minimum Requirements

---

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

- The merchant must have a merchant bank account that allows Internet transactions.
- The merchant must have an active Authorize.Net Card Not Present Payment Gateway account.
- The merchant must have signed up for the CIM service.
- The merchant must store account authentication data securely (for example, API login ID, transaction key).



- The merchant's web site must use HTTPS.
- The merchant's web site must support secure user registration for returning users.



Merchants should avoid storing any type of sensitive cardholder information. However, if a merchant or third party must store sensitive customer business or payment information, they must comply with industry standard storage requirements. See [Understanding PCI Compliance](#).

## Payment Processors

The merchant's payment processor determines the card types and currencies that the merchant can support.

### North American Payment Processors

Authorize.Net supports the following payment processors, card types, and currencies.

**Table 1 North American Payment Processors, Accepted Card Types, and Accepted Currencies**

Payment Processor	Accepted Card Types	Accepted Currencies
Chase Paymentech Tampa	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Diners Club</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD) Canadian Dollar (CAD)
Elavon	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Diners Club</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD) Canadian Dollar (CAD)
EVO Payments	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD)

**Table 1 North American Payment Processors, Accepted Card Types, and Accepted Currencies (Continued)**

<b>Payment Processor</b>	<b>Accepted Card Types</b>	<b>Accepted Currencies</b>
First Data Merchant Services (FDMS) Omaha, Nashville, and EFSNet	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Diners Club</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD) Canadian Dollar (CAD)
Global Payments	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Diners Club</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD) Canadian Dollar (CAD)
Heartland Payment Systems	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Diners Club</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD)
TSYS Acquiring Solutions	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Diners Club</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD)
WorldPay Atlanta	<ul style="list-style-type: none"> <li>■ American Express</li> <li>■ Diners Club</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	United States Dollar (USD)

## European Payment Processors

Authorize.Net supports the following European payment processors, card types, and currencies.

**Table 2 European Payment Processors, Accepted Card Types, and Accepted Currencies**

Payment Processor	Accepted Card Types	Accepted Currencies
AIB Merchant Services	<ul style="list-style-type: none"> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	British Pounds (GBP) Euro (EUR) United States Dollar (USD)
Barclaycard	<ul style="list-style-type: none"> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	British Pounds (GBP) Euro (EUR)
First Data Merchant Solutions (MSIP platform)	<ul style="list-style-type: none"> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	British Pounds (GBP)
HSBC Merchant Services	<ul style="list-style-type: none"> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	British Pounds (GBP) Euro (EUR) United States Dollar (USD)
Lloyds Bank Cardnet	<ul style="list-style-type: none"> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	British Pounds (GBP)
Streamline	<ul style="list-style-type: none"> <li>■ JCB</li> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	British Pounds (GBP) Euro (EUR) United States Dollar (USD)

## Asia-Pacific Processors

Authorize.Net supports the following Asia-Pacific payment processors for Card-Not-Present (CNP) transactions.

**Table 3 Asia-Pacific Payment Processor, Accepted Card Types, and Accepted Currencies**

Payment Processor	Accepted Card Types	Accepted Currencies
FDI Australia	<ul style="list-style-type: none"> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	Australian Dollar (AUD) New Zealand Dollar (NZD) United States Dollar (USD)
Westpac	<ul style="list-style-type: none"> <li>■ Mastercard</li> <li>■ Visa</li> </ul>	Australian Dollar (AUD)

## EVOSnap

There are multiple EVOSnap processing platforms. If you use the U.S. Dollar (USD), you are assigned to EVOSnap U.S. If you use any other currencies, you are assigned to EVOSnap International.

### Accepted Authorization/Settlement Currencies

- USD—U.S. Dollar
- CAD—Canada Dollar
- CHF—Swiss Franc
- DKK—Danish Krone
- EUR—Euro
- GBP—British Pound
- NOK—Norway Krone
- PLN—Poland złoty (MasterCard Only)
- SEK—Sweden Krone
- ZAR—South African Rand

### Accepted Billing Currencies

- USD—U.S. Dollar
- AUD—Australian Dollar
- GBP—British Pound

### Accepted Card Types

- Visa
- MasterCard
- American Express
- JCB
- Diners Club—Supported for U.S. services only.

### Unsupported Services

Apple Pay and soft descriptors are not supported by EVOSnap.

## EVOSnap Supported Services

### U.S. Services

**Table 4 Authorize.Net Services Supported by EVOSnap U.S.**

Service	E-Commerce	MOTO	Retail
<b>Transaction Types</b>			
Authorization only	X	X	X
Authorization and capture (sale)	X	X	X
Capture	X	X	X
Void	X	X	X
Credit (refund)	X	X	X
<b>Features</b>			
AVS	X	X	X
CVV2/CVC2/CID	X	X	X
3DS	X		
Purchase card—level 2	X	X	X
Partial Approvals (Partial Authorization)	X	X	X
Supported card types:	X	X	X
<ul style="list-style-type: none"> <li>■ Visa</li> <li>■ Mastercard</li> <li>■ American Express</li> <li>■ Discover</li> <li>■ JCB</li> <li>■ Diners Club</li> </ul>			

#### Duplication Rules

EVO platform always checks for duplicate transactions based on:

- Same Terminal ID
- Same Card Number
- Same Dollar Amount

Duplicates are flagged when they occur within an hour of each other.

#### Magstripe

Track 2 data is supported only for card-present transactions.

#### Level 2 Support

PO# is required when any level 2 data is submitted. Level 2 data includes tax, duty, and freight information.

### **Billing Address**

When any billing fields are submitted, all must be submitted.

- First name
- Last name
- Address
- City
- State/province (only required if country is US or Canada)
- Country
- ZIP/postal code

### **Other Field Requirements**

The **employeeld** field is required; however, if a value is not passed with the field, Authorize.Net sends a default value of 0000 to the processor.

### **Consolidated Accounts**

The Consolidated Accounts feature is not supported on the EVOSnap platform. Multiple market types require multiple accounts.

### **Automated Recurring Billing**

Merchants using Automated Recurring Billing must be approved by their merchant service provider, also known as their acquirer.

## International Services

**Table 5 Authorize.Net Services Supported by EVOSnap International**

Service	MOTO	E-Commerce
Authorize	X	X
Authorize and Capture	X	X
Capture	X	X
Void	X	X
Credit	X	X
AVS—Visa and American Express only.	X	X
CVV2/CVC2/CID	X	X
3DS		X

### Not Supported

- Retail
- Level 2 data
- Soft descriptors
- Partial authorization
- Consolidated accounts (MOTO/E-Commerce)—separate accounts are required.
- Automated recurring billing and customer information manager

### CVV

EVOSnap requires CVV for all international transactions. CVV must be enabled in the Authorize.Net merchant interface's Virtual Terminal settings.

### To enable CVV:

- 
- Step 1** Navigate to the Authorize.Net merchant interface.
  - Step 2** Choose **Accounts > Settings > Transaction Format Settings > Virtual Terminal**.
  - Step 3** Check the **View/Edit** box for **Card Code**.
  - Step 4** Click **Submit**.
- 

## Other EVOSnap Considerations

### International AVS Behavior

Transactions are declined if the submitted address data does not match. Merchants can override this behavior on a per-transaction basis, if permitted by EVOSnap. Merchant

accounts are configured to either use or not use AVS processing when they are boarded. If the account is configured to not use AVS processing, AVS is not performed, even if the data is included. If the merchant account is configured to use AVS every transaction must include AVS data, unless the merchant is authorized by EVOSnap to override the AVS processing.

## API

Customer code is required. If not present, customer code is populated with 0000. Country code must be in ISO format. For example, GBR, CHE, AUS.

## Error Codes

- **RTC 350**  
Description—EVOSnap: country must be a valid three-character value if specified.  
Message—country must be a valid three-character value if specified.
- **RTC 351**  
Description—EVOSnap: employee ID cannot be more than 6 characters in length, 4 for a retail transaction.  
Message—employee ID must be 1 to %x characters in length.  
Note—the %x is replaced with a 6 for E-Commerce and MOTO transaction types and 4 for retail transaction types.

## Billing Information

When any billing information is submitted, all billing fields must be provided.

# Developer Support

---

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

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

To submit suggestions for improving or correcting this guide, send email to [documentation@authorize.net](mailto:documentation@authorize.net).



# Software Development Kits

---

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

The SDK provides utility methods to help developers build payment flows for each of the integration methods. You can download the SDKs:

<http://developer.authorize.net/downloads/>.

# Executing an API Call

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

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

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



#### Note

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

## Web Service Locations

The following table shows where to find the web service locations.

**Table 6 Web Service Locations**

Item	Location
Web Service URL in Production	https://api2.authorize.net/soap/v1/Service.asmx Legacy but supported URL: https://api.authorize.net/soap/v1/Service.asmx
Web Service URL in Developer Test	https://apitest.authorize.net/soap/v1/Service.asmx
WSDL	https://api.authorize.net/soap/v1/Service.asmx?WSDL



#### Note

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

**Note**

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

## CIM Functions

---

The CIM API comprises these functions:

- **CreateCustomerProfileFromTransaction**—Create a customer profile, payment profile, and shipping profile from an existing successful transaction by referencing the transaction ID.
- **CreateCustomerProfile**—Create a new customer profile along with any customer payment profiles and customer shipping addresses for the customer profile.
- **CreateCustomerPaymentProfile**—Create a new customer payment profile for an existing customer profile.
- **CreateCustomerShippingAddress**—Create a new customer shipping address for an existing customer profile.
- **CreateCustomerProfileTransaction**—Create a new payment transaction from an existing customer profile.
- **DeleteCustomerProfile**—Delete an existing customer profile along with all associated customer payment profiles and customer shipping addresses.
- **DeleteCustomerPaymentProfile**—Delete a customer payment profile from an existing customer profile.
- **DeleteCustomerShippingAddress**—Delete a customer shipping address from an existing customer profile.
- **GetCustomerProfileIds**—Retrieve all customer profile IDs you have previously created.
- **GetCustomerProfile**—Retrieve an existing customer profile along with all the associated customer payment profiles and customer shipping addresses.
- **GetCustomerPaymentProfile**—Retrieve a customer payment profile for an existing customer profile.
- **GetCustomerShippingAddress**—Retrieve a customer shipping address for an existing customer profile.
- **GetHostedProfilePage**—sends a request for access to the hosted CIM page. The response includes a token that enables customers to update their information directly on the Authorize.Net web site.

- UpdateCustomerProfile—Update an existing customer profile.
- UpdateCustomerPaymentProfile—Update a customer payment profile for an existing customer profile.
- UpdateCustomerShippingAddress—Update a shipping address for an existing customer profile.
- UpdateSplitTenderGroup—Update the status of a split tender group (a group of transactions each of which pays for part of one order).
- ValidateCustomerPaymentProfile—Verify an existing customer payment profile by generating a test transaction.

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



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

---



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

---

## The validationMode Parameter

The validationMode parameter enables you to generate a test transaction at the time you create or update a customer profile. The functions CreateCustomerProfile, CreateCustomerPaymentProfile, UpdateCustomerPaymentProfile, and ValidateCustomerPaymentProfile all include a validationMode parameter, which can have one of the following values:

- liveMode—This value is the default setting.  
liveMode generates a transaction to the processor in the amount of \$0.01 or \$0.00. If successful, the transaction is immediately voided. Visa authorization transactions are changing from \$0.01 to \$0.00 for all processors. All other credit card types use \$0.01. Standard gateway and merchant account fees may apply to the authorization transactions.  
For Visa transactions using \$0.00, the billTo address and billTo zip fields are required.
- testMode—Performs field validation only. All fields are validated. However, fields with unrestricted field definitions (such as telephone number) do not generate errors.

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

- `none`—When this value is submitted, no additional validation is performed.

When you call the `CreateCustomerProfile` function, you must use a value of `none` if the request does not include any payment profile information.

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

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



#### Note

For information about the `hostedProfileValidationMode` parameter, see ["Guidelines for Parameter Settings," page 99](#).

## Authentication

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

**Table 7 Merchant Authentication**

Parameter	Description
<code>merchantAuthentication</code>	<p><b>Value:</b> Contains merchant unique information for purposes of authentication</p> <p><b>Type:</b> <code>MerchantAuthenticationType</code></p>
<ul style="list-style-type: none"> <li>■ <code>name</code></li> </ul>	<p><b>Value:</b> The valid API Login ID for the developer test or merchant account</p> <p><b>Format:</b> 20 characters</p> <p><b>Notes:</b> Submit the API Login ID used to submit transactions</p>
<ul style="list-style-type: none"> <li>■ <code>transactionKey</code></li> </ul>	<p><b>Value:</b> The valid Transaction Key for the developer test or merchant account</p> <p><b>Format:</b> 16 characters</p> <p><b>Notes:</b> Submit the Transaction Key obtained from the Merchant Interface</p>

### Example 1 Authentication with the Login ID and Transaction Key

The authentication information with the merchant's Login ID and Transaction Key is sent in the `SOAP:Body` tag, as shown below:

```
<soap:Body>
  <FunctionName xmlns="https://api.authorize.net/soap/v1/">
    <merchantAuthentication>
      <name>API Login ID here</name>
    </merchantAuthentication>
  </FunctionName>
</soap:Body>
```

```

    <transactionKey>Transaction Key here</transactionKey>
  </merchantAuthentication>
  Additional required parameters here
  </FunctionName>
</soap:Body>

```

**Note**

The sample code included in this document uses simulated field values. When using or testing sample code, be sure to enter valid field values. Additional sample code is available for download from the Authorize.Net Developer Center at <http://developer.authorize.net/samplecode>.

## Input Parameter for CreateCustomerProfileFromTransaction

This request enables you to create a CIM profile, payment profile, and shipping profile from an existing successful transaction.

**Table 8** Input Parameter for CreateCustomerProfileFromTransaction

Element	Description
transId	The transaction ID for the successful transaction that you would like to generate from a customer profile from.

### Example 2 CreateCustomerProfileFromTransaction

```

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:v1="https://api.authorize.net/soap/v1/"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <v1:CreateCustomerProfileFromTransaction>
      <v1:merchantAuthentication>
        <v1:name>API_LOGIN</v1:name>
        <v1:transactionKey>TRANSACTION_KEY</v1:transactionKey>
      </v1:merchantAuthentication>
      <v1:transId>1234567890</v1:transId>
    </v1:CreateCustomerProfileFromTransaction>
  </soapenv:Body>
</soapenv:Envelope>

```

## Input Parameters for CreateCustomerProfile

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

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

**Table 9** Input Parameters for CreateCustomerProfile

Field	Description
profile	<p><b>Value:</b> Contains information for the customer profile.</p> <p><b>Type:</b> CustomerProfileType</p> <p><b>Notes:</b> At least one of the following fields must be submitted under profile: <b>merchantCustomerId</b>, <b>description</b>, or <b>email</b>.</p>
<ul style="list-style-type: none"> <li>■ merchantCustomerId</li> </ul>	<p><b>Value:</b> Merchant assigned ID for the customer.</p> <p>Conditional.</p> <p><b>Format:</b> 20-character maximum.</p> <p><b>Notes:</b> Required only if no values for both description and email are submitted.</p>
<ul style="list-style-type: none"> <li>■ description</li> </ul>	<p><b>Value:</b> Description of the customer or customer profile.</p> <p>Conditional.</p> <p><b>Format:</b> 255-character maximum.</p> <p><b>Notes:</b> Required only if no values for both <b>merchantCustomerId</b> and <b>email</b> are submitted.</p>
<ul style="list-style-type: none"> <li>■ email</li> </ul>	<p><b>Value:</b> Email address associated with the customer profile.</p> <p>Conditional.</p> <p><b>Format:</b> 255-character maximum.</p> <p><b>Notes:</b> Required if no values for both <b>description</b> and <b>merchantCustomerId</b> are submitted.</p> <p>Required only when you use a European payment processor.</p>
<ul style="list-style-type: none"> <li>■ paymentProfiles</li> </ul>	<p><b>Value:</b> Contains payment profiles for the customer profile.</p> <p>Optional.</p> <p><b>Type:</b> CustomerPaymentProfileType</p> <p><b>Notes:</b> Multiple instances of this parameter and its children can be submitted to create multiple payment profiles for the customer profile.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>● customerType</li> </ul> </li> </ul>	<p>Optional.</p> <p><b>Type:</b> CustomerTypeEnum</p> <p><b>Format:</b> individual or business</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>● billTo</li> </ul> </li> </ul> </li> </ul>	<p><b>Type:</b> CustomerAddressTypeCustomer billing information.</p>

**Table 9 Input Parameters for CreateCustomerProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>firstName</li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>lastName</li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>company</li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>address</li> </ul>	<p><b>Value:</b> The customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>city</li> </ul>	<p><b>Value:</b> The city of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>state</li> </ul>	<p><b>Value:</b> The state of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>



**Table 9 Input Parameters for CreateCustomerProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>zip</li> </ul>	<p><b>Value:</b> The ZIP code of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>country</li> </ul>	<p><b>Value:</b> The country of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p> <p><b>Notes:</b> Required only when you use a European payment processor.</p>
<ul style="list-style-type: none"> <li>phoneNumber</li> </ul>	<p><b>Value:</b> The phone number associated with the customer profile.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>faxNumber</li> </ul>	<p><b>Value:</b> The fax number associated with the customer profile.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>payment</li> </ul>	<p><b>Value:</b> Contains payment profile information for the customer profile.</p> <p><b>Type:</b> PaymentSimpleType</p> <p><b>Notes:</b> Can contain <b>CreditCardSimpleType</b> or <b>BankAccountType</b>.</p>
<ul style="list-style-type: none"> <li>creditCard</li> </ul>	<p><b>Value:</b> Contains credit card payment information for the payment profile.</p> <p><b>Type:</b> CreditCardSimpleType</p> <p><b>Notes:</b> This parameter and its children are only required when the payment profile is credit card.</p>
<ul style="list-style-type: none"> <li>cardNumber</li> </ul>	<p><b>Value:</b> The customer's credit card number.</p> <p><b>Format:</b> 13 to 16 digits (inclusive).</p>
<ul style="list-style-type: none"> <li>expirationDate</li> </ul>	<p><b>Value:</b> The expiration date for the customer's credit card.</p> <p><b>Format:</b> YYYY-MM</p> <p><b>Notes:</b> For .Net users, the class <code>System.Runtime.Remoting.Metadata.W3cXsd2001.SoapYearMonth</code> can be used to manage <code>gYearMonth</code> types.</p>

**Table 9 Input Parameters for CreateCustomerProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>cardCode</li> </ul>	<p><b>Value:</b> The three- or four-digit number on the back of a credit card (on the front for American Express).</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at <a href="http://www.authorize.net/support/merchant/">http://www.authorize.net/support/merchant/</a>.</p> <p><b>cardCode</b> is used only for validation and is not stored in the customer profile. Use it only when submitting <b>validationMode</b> with a value of <code>testMode</code> or <code>liveMode</code>.</p>
<ul style="list-style-type: none"> <li>bankAccount</li> </ul>	<p><b>Value:</b> Contains bank account payment information for the payment profile.</p> <p><b>Type:</b> BankAccountType</p> <p><b>Notes:</b> This parameter and its children are required only when the payment profile is bank account.</p>
accountType	<p><b>Value:</b> The type of bank account for the payment profile.</p> <p>Optional</p> <p><b>type:</b> BankAccountTypeEnum</p> <p><b>Format:</b> checking , savings, or businessChecking.</p>
routingNumber	<p><b>Value:</b> The routing number of the customer's bank.</p> <p><b>Format:</b> 9 digits.</p>
accountNumber	<p><b>Value:</b> The customer's bank account number.</p> <p><b>Format:</b> 5 to 17 digits.</p>
nameOnAccount	<p><b>Value:</b> The customer's full name as listed on the bank account.</p> <p><b>Format:</b> 22-character maximum.</p>
echeckType	<p><b>Value:</b> The type of electronic check transaction.</p> <p>Optional</p> <p><b>Type:</b> EcheckTypeEnum</p> <p><b>Format:</b> CCD, PPD, TEL, or WEB</p> <p><b>Notes:</b> Currently, the CIM API does not support ARC or BOC transaction types.</p>
bankName	<p><b>Value:</b> The name of the bank associated with the bank account number.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum.</p>
<ul style="list-style-type: none"> <li>shipToList</li> </ul>	<p><b>Value:</b> Contains shipping address information for the customer profile.</p> <p><b>Type:</b> CustomerAddressType</p>

**Table 9 Input Parameters for CreateCustomerProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>firstName</li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>lastName</li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>company</li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>address</li> </ul>	<p><b>Value:</b> The customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>city</li> </ul>	<p><b>Value:</b> The city of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>state</li> </ul>	<p><b>Value:</b> The state of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>

**Table 9 Input Parameters for CreateCustomerProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>zip</li> </ul>	<p><b>Value:</b> The ZIP code of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>country</li> </ul>	<p><b>Value:</b> The country of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
phoneNumber	<p><b>Value:</b> The phone number associated with the customer profile.</p> <p>Optional.</p> <p><b>Format:</b> 25-digits maximum (no letters).</p> <p>For example, (123)123-1234</p>
faxNumber	<p><b>Value:</b> The fax number associated with the customer profile.</p> <p>Optional.</p> <p><b>Format:</b> 25-digits maximum (no letters).</p> <p>For example, (123)123-1234</p>
validationMode	<p><b>Value:</b> Indicates the processing mode for the request.</p> <p>Optional.</p> <p><b>Format:</b> none, testMode, or liveMode</p> <p><b>Notes:</b> For more information on use and restrictions of validationMode, see "<a href="#">The validationMode Parameter</a>," page 20.</p>

For information about output for this function, see "[Output for CreateCustomerProfileResponse](#)," page 78.

**Example 3 CreateCustomerProfile**


---

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://
www.w3.org/2001/XMLSchema">
<soap:Body>
<CreateCustomerProfile xmlns="https://api.authorize.net/soap/v1/">
<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>
<CustomerPaymentProfileType>
  <customerType>individual</customerType>
  <payment>
    <creditCard>
      <cardNumber>Credit card number here</cardNumber>
      <expirationDate>Credit card expiration date here</expirationDate>
    </creditCard>
  </payment>
</CustomerPaymentProfileType>
</paymentProfiles>
</profile>
<validationMode>liveMode</validationMode>
</CreateCustomerProfile>
</soap:Body>
</soap:Envelope>

```

---

## Input Parameters for CreateCustomerPaymentProfile

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

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

**Table 10** Input Parameters for CreateCustomerPaymentProfile

Field	Description
customerProfileId	<p><b>Value:</b> Payment gateway assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p>
paymentProfile	<p><b>Value:</b> Contains payment information for the customer profile.</p> <p><b>Type:</b> CustomerPaymentProfileType</p>
<ul style="list-style-type: none"> <li>■ customerType</li> </ul>	<p>Optional.</p> <p><b>Type:</b> CustomerTypeEnum</p> <p><b>Format:</b> individual or business</p>
<ul style="list-style-type: none"> <li>■ billTo</li> </ul>	<p><b>CustomerAddressTypeCustomer</b> information</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>● firstName</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>● lastName</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>● company</li> </ul> </li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>● address</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>

**Table 10 Input Parameters for CreateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>city</li> </ul>	<p><b>Value:</b> The city of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>state</li> </ul>	<p><b>Value:</b> The state of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>zip</li> </ul>	<p><b>Value:</b> The ZIP code of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p> <p><b>Notes:</b> Required when you use a European payment processor.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See "<a href="#">EVO Billing and Shipping Fields</a>," page 74.</p>
<ul style="list-style-type: none"> <li>country</li> </ul>	<p><b>Value:</b> The country of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>phoneNumber</li> </ul>	<p><b>Value:</b> The phone number associated with the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>faxNumber</li> </ul>	<p><b>Value:</b> The fax number associated with the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>payment</li> </ul> </li> </ul>	<p><b>Value:</b> Contains payment information for the customer profile.</p> <p><b>Type:</b> PaymentSimpleType</p> <p><b>Notes:</b> Can contain <b>CreditCardSimpleType</b> or <b>BankAccountType</b>.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>creditCard</li> </ul> </li> </ul>	<p><b>Value:</b> Contains credit card payment information for the customer profile.</p> <p><b>Type:</b> CreditCardSimpleType</p> <p><b>Notes:</b> This parameter and its children are required only when the payment profile is credit card.</p>

**Table 10 Input Parameters for CreateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>cardNumber</li> </ul>	<p><b>Value:</b> The customer's credit card number.</p> <p><b>Format:</b> 13 to 16 digits (inclusive).</p>
<ul style="list-style-type: none"> <li>expirationDate</li> </ul>	<p><b>Value:</b> The expiration date for the customer's credit card.</p> <p><b>Format:</b> YYYY-MM</p> <p><b>Notes:</b> For .Net users, the class System.Runtime.Remoting.Metadata.W3cXsd2001.SoapYearMonth can be used to manage gYearMonth types.</p>
<ul style="list-style-type: none"> <li>cardCode</li> </ul>	<p><b>Value:</b> The three- or four-digit number on the back of a credit card (on the front for American Express).</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at <a href="http://www.authorize.net/support/Merchant/default.htm">/http://www.authorize.net/support/Merchant/default.htm</a>.</p> <p><b>cardCode</b> is used only for validation and is not stored in the customer profile. Use it only when submitting <b>validationMode</b> with a value of <b>testMode</b> or <b>liveMode</b>.</p>
<ul style="list-style-type: none"> <li>bankAccount</li> </ul>	<p><b>Value:</b> Contains bank account payment information for the customer profile.</p> <p><b>Type:</b> BankAccountType</p> <p><b>Notes:</b> This parameter and its children are required only when the payment profile is bank account.</p>
<ul style="list-style-type: none"> <li>accountType</li> </ul>	<p><b>Value:</b> The type of bank account for the payment profile.</p> <p>Optional.</p> <p><b>Type:</b> BankAccountTypeEnum</p> <p><b>Format:</b> checking, savings, or businessChecking</p>
<ul style="list-style-type: none"> <li>routingNumber</li> </ul>	<p><b>Value:</b> The routing number of the customer's bank.</p> <p><b>Format:</b> 9 digits.</p>
<ul style="list-style-type: none"> <li>accountNumber</li> </ul>	<p><b>Value:</b> The customer's bank account number.</p> <p><b>Format:</b> 5 to 17 digits (inclusive).</p>
<ul style="list-style-type: none"> <li>nameOnAccount</li> </ul>	<p><b>Value:</b> The customer's full name as listed on the bank account.</p> <p><b>Format:</b> 22-character maximum.</p>



**Table 10 Input Parameters for CreateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>echeckType</li> </ul>	<p><b>Value:</b> The type of electronic check transaction.</p> <p>Optional.</p> <p><b>Type:</b> EcheckTypeEnum</p> <p><b>Format:</b> CCD, PPD, TEL, or WEB</p> <p><b>Notes:</b> Currently, the CIM API does not support ARC or BOC transaction types.</p>
<ul style="list-style-type: none"> <li>bankName</li> </ul>	<p><b>Value:</b> The name of the bank associated with the bank account number.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum.</p>
validationMode	<p><b>Value:</b> Indicates the processing mode for the request.</p> <p><b>Type:</b> ValidationModeEnum</p> <p><b>Format:</b> none, testMode, or liveMode</p> <p><b>Notes:</b> For more information on use and restrictions of <b>validationMode</b>, see <a href="#">"The validationMode Parameter," page 20.</a></p>

For information about output parameters for this function, see ["Output for CreateCustomerPaymentProfileResponse," page 80.](#)

## Input Parameters for CreateCustomerShippingAddress

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

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

**Table 11 Input Parameters for CreateCustomerShippingAddress**

Field	Description
customerProfileId	<b>Value:</b> Payment gateway assigned ID associated with the customer profile. <b>Format:</b> Numeric.
address	<b>Value:</b> Contains shipping address information for the customer profile. <b>Type:</b> CustomerAddressType
<ul style="list-style-type: none"> <li>■ firstName</li> </ul>	<b>Value:</b> The customer's first name. Optional. <b>Format:</b> 50-character maximum (no symbols). <b>Notes:</b> When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a>
<ul style="list-style-type: none"> <li>■ lastName</li> </ul>	<b>Value:</b> The customer's last name. Optional. <b>Format:</b> 50-character maximum (no symbols). <b>Notes:</b> When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a>
<ul style="list-style-type: none"> <li>■ company</li> </ul>	<b>Value:</b> The name of the company associated with the customer, if applicable. Optional. <b>Format:</b> 50-character maximum (no symbols).
<ul style="list-style-type: none"> <li>■ address</li> </ul>	<b>Value:</b> The customer's shipping address. Optional. <b>Format:</b> 60-character maximum (no symbols). <b>Notes:</b> When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a>

**Table 11** Input Parameters for  
**CreateCustomerShippingAddress (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>■ city</li> </ul>	<p><b>Value:</b> The city of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>■ state</li> </ul>	<p><b>Value:</b> The state of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>■ zip</li> </ul>	<p><b>Value:</b> The ZIP code of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p> <p><b>Notes:</b> When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>■ country</li> </ul>	<p><b>Value:</b> The country of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>■ phoneNumber</li> </ul>	<p><b>Value:</b> The phone number associated with the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>■ faxNumber</li> </ul>	<p><b>Value:</b> The fax number associated with the customer's shipping address</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>

For information about output parameters for this function, see ["Output for CreateCustomerShippingAddressResponse," page 81.](#)

## Input Parameters for CreateCustomerProfileTransaction

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

**Note**

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

## For Authorization Only transactions

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

**Table 12** Input Parameters for **CreateCustomerProfileTransaction**

Field	Description
transaction	<b>Value:</b> Contains transaction information. <b>Type:</b> ProfileTransactionType
<ul style="list-style-type: none"> <li>■ profileTransAuthOnly</li> </ul>	<b>Value:</b> The transaction type that is being requested. <b>Type:</b> ProfileTransAuthOnlyType <b>Notes:</b> Only one transaction type is allowed per request.
<ul style="list-style-type: none"> <li>• amount</li> </ul>	<b>Value:</b> The total amount of the transaction. <b>Format:</b> Up to 4 digits after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount should include all other amounts such as tax amount, shipping amount, etc.
<ul style="list-style-type: none"> <li>• tax</li> </ul>	<b>Value:</b> Contains tax information for the transaction. Optional. <b>Type:</b> ExtendedAmountType
<ul style="list-style-type: none"> <li>• amount</li> </ul>	<b>Value:</b> The tax amount for the transaction. Optional. <b>Format:</b> Up to 4 digits after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount must be included in the total amount for the transaction.
<ul style="list-style-type: none"> <li>• name</li> </ul>	<b>Value:</b> The name of the tax for the transaction. Optional. <b>Format:</b> 31-character maximum.

**Table 12 Input Parameters for  
CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The tax description for the transaction. Optional. <b>Format:</b> U255-character maximum.</p>
<ul style="list-style-type: none"> <li>shipping</li> </ul>	<p><b>Value:</b> Contains shipping information for the transaction. Optional. <b>Type:</b> ExtendedAmountType</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The shipping amount for the transaction. Optional. <b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the shipping for the transaction. Optional. <b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The shipping description for the transaction. Optional. <b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>duty</li> </ul>	<p><b>Value:</b> Contains duty information for the transaction. Optional. <b>Type:</b> ExtendedAmountType</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The duty amount for the transaction. Optional. <b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the duty for the transaction. Optional. <b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The duty description for the transaction. Optional. <b>Format:</b> 255-character maximum.</p>

**Table 12 Input Parameters for  
CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>lineltems</li> </ul>	<p><b>Value:</b> Contains line item details about the order. Optional.</p> <p><b>Type:</b> LineltemType</p> <p><b>Notes:</b> Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.</p>
<ul style="list-style-type: none"> <li>itemId</li> </ul>	<p><b>Value:</b> The ID assigned to the item. Required if <b>lineltems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> A short description of an item Required if <b>lineltems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> A detailed description of an item Optional</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>quantity</li> </ul>	<p><b>Value:</b> The quantity of an item. Required if <b>lineltems</b> is submitted.</p> <p><b>Format:</b> 4-digit maximum (up to two decimal places).</p>
<ul style="list-style-type: none"> <li>unitPrice</li> </ul>	<p><b>Value:</b> Cost of an item per unit excluding tax, freight, and duty. Required if <b>lineltems</b> is submitted.</p> <p><b>Format:</b> 4-digit maximum with a decimal point (no dollar symbol). For example, 4.95</p>
<ul style="list-style-type: none"> <li>taxable</li> </ul>	<p><b>Value:</b> Indicates whether the item is subject to tax. Optional.</p> <p><b>Format:</b> true or false</p>
<ul style="list-style-type: none"> <li>customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li>customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer payment profile.</p> <p><b>Format:</b> Numeric.</p>

**Table 12 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer shipping address.</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If <b>customerShippingAddressId</b> is not passed, shipping information will not be included with the transaction.</p>
<ul style="list-style-type: none"> <li>order</li> </ul>	<p><b>Value:</b> Contains information about the order.</p> <p>Optional.</p> <p><b>Type:</b> OrderExType</p>
<ul style="list-style-type: none"> <li>invoiceNumber</li> </ul>	<p><b>Value:</b> The merchant assigned invoice number for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The transaction description.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>purchaseOrderNumber</li> </ul>	<p><b>Value:</b> The merchant assigned purchase order number.</p> <p>Optional.</p> <p><b>Format:</b> 25-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>taxExempt</li> </ul>	<p><b>Value:</b> The tax exempt status.</p> <p>Optional.</p> <p><b>Format:</b> true or false</p>
<ul style="list-style-type: none"> <li>recurringBilling</li> </ul>	<p><b>Value:</b> The recurring billing status.</p> <p>Optional.</p> <p><b>Format:</b> true or false</p>
<ul style="list-style-type: none"> <li>cardCode</li> </ul>	<p><b>Value:</b> The customer's card code (the three- or four-digit number on the back or front of a credit card).</p> <p>Conditional.</p> <p><b>Format:</b> 3 to 4 digits.</p> <p><b>Notes:</b> This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at <a href="http://www.authorize.net/support/merchant/">http://www.authorize.net/support/merchant/</a></p>

**Table 12 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>splitTenderId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned number associated with the order.</p> <p>Conditional</p> <p><b>Format:</b> 6-digits maximum.</p> <p><b>Notes:</b> This field is required for second and subsequent transactions related to a partial authorization transaction.</p>
extraOptions	<p><b>Value:</b> Information in name/value pair format that does not exist within CIM, such as customer IP address, etc.</p> <p>Optional.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a>.</p>

For information about output parameters for this function, see "Input Parameters for CreateCustomerProfileTransaction," page 35.

## For Authorization and Capture Transactions

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

**Table 13 Input Parameters for CreateCustomerProfileTransaction**

Field	Description
transaction	<p><b>Value:</b> Contains transaction information.</p> <p><b>Type:</b> ProfileTransactionType</p>
<ul style="list-style-type: none"> <li>profileTransAuthCapture</li> </ul>	<p><b>Value:</b> The transaction type that is being requested.</p> <p><b>Type:</b> ProfileTransAuthCaptureType</p> <p><b>Notes:</b> Only one transaction type is allowed per request.</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The total amount of the transaction.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount should include all other amounts such as tax amount, shipping amount, etc.</p>



**Table 13 Input Parameters for  
CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>tax</li> </ul>	<p><b>Value:</b> Contains tax information for the transaction.</p> <p>Optional</p> <p><b>Type:</b> ExtendedAmountType</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>amount</li> </ul> </li> </ul>	<p><b>Value:</b> The tax amount for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>name</li> </ul> </li> </ul>	<p><b>Value:</b> The name of the tax for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>description</li> </ul> </li> </ul>	<p><b>Value:</b> The tax description for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>shipping</li> </ul>	<p><b>Value:</b> Contains shipping information for the transaction.</p> <p>Optional.</p> <p><b>Type:</b> ExtendedAmountType</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>amount</li> </ul> </li> </ul>	<p><b>Value:</b> The shipping amount for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>name</li> </ul> </li> </ul>	<p><b>Value:</b> The name of the shipping for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>description</li> </ul> </li> </ul>	<p><b>Value:</b> The shipping description for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>duty</li> </ul>	<p><b>Value:</b> Contains duty information for the transaction.</p> <p>Optional.</p> <p><b>Type:</b> ExtendedAmountType</p>

**Table 13 Input Parameters for  
CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The duty amount for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 4 digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the duty for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The duty description for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>lineItems</li> </ul>	<p><b>Value:</b> Contains line item details about the order.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Type:</b> LineItemType</p> <p><b>Notes:</b> Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.</p>
<ul style="list-style-type: none"> <li>itemId</li> </ul>	<p><b>Value:</b> The ID assigned to the item.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> A short description of an item.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> A detailed description of an item.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>quantity</li> </ul>	<p><b>Value:</b> The quantity of an item.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 4-digit maximum (up to two decimal places).</p>

**Table 13 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>unitPrice</li> </ul>	<p><b>Value:</b> Cost of an item per unit excluding tax, freight, and duty.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 4 digit maximum with a decimal point (no dollar symbol).</p> <p>For example, 4.95</p>
<ul style="list-style-type: none"> <li>taxable</li> </ul>	<p><b>Value:</b> Indicates whether the item is subject to tax.</p> <p>Optional.</p> <p><b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li>customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer payment profile.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li>customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address.</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If <b>customerShippingAddressId</b> is not passed, shipping information will not be included with the transaction.</p>
<ul style="list-style-type: none"> <li>order</li> </ul>	<p><b>Value:</b> Contains information about the order.</p> <p>Optional.</p> <p><b>Type:</b> OrderExType</p>
<ul style="list-style-type: none"> <li>invoiceNumber</li> </ul>	<p><b>Value:</b> The merchant-assigned invoice number for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The transaction description.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>purchaseOrderNumber</li> </ul>	<p><b>Value:</b> The merchant-assigned purchase order number.</p> <p>Optional.</p> <p><b>Format:</b> 25-character maximum (no symbols).</p>

**Table 13 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>taxExempt</li> </ul>	<p><b>Value:</b> The tax exempt status.</p> <p>Optional.</p> <p><b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>recurringBilling</li> </ul>	<p><b>Value:</b> The recurring billing status.</p> <p>Optional.</p> <p><b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>cardCode</li> </ul>	<p>The customer's card code (the three- or four-digit number on the back or front of a credit card).</p> <p>Conditional.</p> <p><b>Format:</b> 3 to 4 digits.</p> <p><b>Notes:</b> This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at <a href="http://www.authorize.net/support/merchant/default.htm">http://www.authorize.net/support/merchant/default.htm</a>.</p>
<ul style="list-style-type: none"> <li>splitTenderId</li> </ul>	<p><b>Value:</b> The payment gateway-assigned number associated with the order.</p> <p>Conditional.</p> <p><b>Format:</b> 6-digit maximum.</p> <p><b>Notes:</b> This field is required for second and subsequent transactions related to a partial authorization transaction.</p>
extraOptions	<p>Information in name/value pair format that does not exist within CIM, such as customer IP address, etc.</p> <p>Optional.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a>.</p>

For information about output parameters for this function, see "Output for CreateCustomerProfileTransactionResponse," page 81.

## For Capture Only Transactions

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

**Table 14 Input Parameters for CreateCustomerProfileTransaction**

Field	Description
transaction	<b>Value:</b> Contains transaction information. <b>Type:</b> ProfileTransactionType
<ul style="list-style-type: none"> <li>■ profileTransCaptureOnly</li> </ul>	<b>Value:</b> The transaction type that is being requested. <b>Type:</b> ProfileTransCaptureOnlyType <b>Notes:</b> Only one transaction type is allowed per request.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• amount</li> </ul> </li> </ul>	<b>Value:</b> The total amount of the transaction. <b>Format:</b> 4 digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount should include all other amounts such as tax amount, shipping amount, etc.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• tax</li> </ul> </li> </ul> </li> </ul>	<b>Value:</b> Contains tax information for the transaction. Optional. <b>Type:</b> ExtendedAmountType
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• amount</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<b>Value:</b> The tax amount for the transaction. Optional. <b>Format:</b> 4 digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount must be included in the total amount for the transaction.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• name</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul>	<b>Value:</b> The name of the tax for the transaction. Optional. <b>Format:</b> 31-character maximum.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• description</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul>	<b>Value:</b> The tax description for the transaction. Optional. <b>Format:</b> 255-character maximum.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• shipping</li> </ul> </li> </ul>	<b>Value:</b> Contains shipping information for the transaction. Optional <b>Type:</b> ExtendedAmountType

**Table 14 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The shipping amount for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 4 digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the shipping for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The shipping description for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>duty</li> </ul>	<p><b>Value:</b> Contains duty information for the transaction.</p> <p>Optional.</p> <p><b>Type:</b> ExtendedAmountType</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The duty amount for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the duty for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The duty description for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>lineItems</li> </ul>	<p><b>Value:</b> Contains line item details about the order.</p> <p>Optional.</p> <p><b>Type:</b> LineItemType</p> <p><b>Notes:</b> Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.</p>

**Table 14 Input Parameters for  
CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>itemId</li> </ul>	<p><b>Value:</b> The ID assigned to the item. Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> A short description of an item. Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> A detailed description of an item. Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>quantity</li> </ul>	<p><b>Value:</b> The quantity of an item. Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 4-digit maximum (up to two decimal places).</p>
<ul style="list-style-type: none"> <li>unitPrice</li> </ul>	<p><b>Value:</b> Cost of an item per unit excluding tax, freight, and duty. Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 4-digit maximum with a decimal point (no dollar symbol). For example, 4.95</p>
<ul style="list-style-type: none"> <li>taxable</li> </ul>	<p><b>Value:</b> Indicates whether the item is subject to tax. Optional.</p> <p><b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li>customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer payment profile.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li>customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer shipping address. Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If <b>customerShippingAddressId</b> is not passed, shipping information will not be included with the transaction.</p>

**Table 14** Input Parameters for CreateCustomerProfileTransaction (Continued)

Field	Description
<ul style="list-style-type: none"> <li>order</li> </ul>	<p><b>Value:</b> Contains information about the order.</p> <p>Optional.</p> <p><b>Type:</b> OrderExType</p>
<ul style="list-style-type: none"> <li>invoiceNumber</li> </ul>	<p><b>Value:</b> The merchant assigned invoice number for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The transaction description.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>purchaseOrderNumber</li> </ul>	<p><b>Value:</b> The merchant assigned purchase order number.</p> <p>Optional.</p> <p><b>Format:</b> 25-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>taxExempt</li> </ul>	<p><b>Value:</b> The tax exempt status.</p> <p>Optional.</p> <p><b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>recurringBilling</li> </ul>	<p><b>Value:</b> The recurring billing status.</p> <p>Optional.</p> <p><b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>cardCode</li> </ul>	<p><b>Value:</b> The customer's card code (the three- or four-digit number on the back or front of a credit card).</p> <p>Conditional.</p> <p><b>Format:</b> 3 to 4 digits.</p> <p><b>Notes:</b> This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at <a href="http://www.authorize.net/support/Merchant/default.htm">http://www.authorize.net/support/Merchant/default.htm</a>.</p>
<ul style="list-style-type: none"> <li>splitTenderId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned number associated with the order.</p> <p>Conditional.</p> <p><b>Format:</b> 6-digit maximum.</p> <p><b>Notes:</b> This field is only required for second and subsequent transactions related to a partial authorization transaction.</p>



**Table 14** Input Parameters for CreateCustomerProfileTransaction (Continued)

Field	Description
<ul style="list-style-type: none"> <li>approvalCode</li> </ul>	<p><b>Value:</b> The authorization code of an original transaction required for a Capture Only.</p> <p>Conditional.</p> <p><b>Format:</b> 6 characters.</p> <p><b>Notes:</b> This field is only required for the Capture Only transaction type.</p>
extraOptions	<p><b>Value:</b> Information in name/value pair format that does not exist within CIM, such as customer IP address, etc.</p> <p>Optional.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a>.</p>

For information about output parameters for this function, see "Output for CreateCustomerProfileTransactionResponse," page 81.

## For Prior Authorization and Capture Transactions

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

**Table 15** Input Parameters for CreateCustomerProfileTransaction

Field	Description
transaction	<p><b>Value:</b> Contains transaction information.</p> <p><b>Type:</b> ProfileTransactionType</p>
<ul style="list-style-type: none"> <li>profileTransPriorAuthCapture</li> </ul>	<p><b>Value:</b> The transaction type that is being requested.</p> <p><b>Type:</b> ProfileTransPriorAuthCaptureType</p> <p><b>Notes:</b> Only one transaction type is allowed per request.</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The total amount of the transaction.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount should include all other amounts such as tax amount, shipping amount, etc.</p>

**Table 15 Input Parameters for  
CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>tax</li> </ul>	<p><b>Value:</b> Contains tax information for the transaction. Optional.</p> <p><b>Type:</b> ExtendedAmountType</p> <p><b>Notes:</b> Tax information from the original authorization transaction will be used if this field is not submitted.</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The tax amount for the transaction. Optional.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the tax for the transaction. Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The tax description for the transaction. Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>shipping</li> </ul>	<p><b>Value:</b> Contains shipping information for the transaction. Optional.</p> <p><b>Type:</b> ExtendedAmountType</p> <p><b>Notes:</b> Shipping information from the original authorization transaction will be used if this field is not submitted.</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The shipping amount for the transaction. Optional.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the shipping for the transaction. Optional.</p> <p><b>Format:</b> 31-character maximum.</p>

**Table 15 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The shipping description for the transaction. Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>duty</li> </ul>	<p><b>Value:</b> Contains duty information for the transaction. Optional.</p> <p><b>Type:</b> ExtendedAmountType</p> <p><b>Notes:</b> Duty information from the original authorization transaction will be used if this field is not submitted.</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The duty amount for the transaction. Optional.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the duty for the transaction. Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The duty description for the transaction. Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>lineItems</li> </ul>	<p><b>Value:</b> Contains line item details about the order. Optional.</p> <p><b>Type:</b> LineItemType</p> <p><b>Notes:</b> Line item information from the original authorization transaction will be used if this field is not submitted.</p> <p>Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.</p>
<ul style="list-style-type: none"> <li>itemId</li> </ul>	<p><b>Value:</b> The ID assigned to the item. Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> A short description of an item. Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>

**Table 15 Input Parameters for  
CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> A detailed description of an item. Optional. <b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>quantity</li> </ul>	<p><b>Value:</b> The quantity of an item. Required if <b>lineltems</b> is submitted. <b>Format:</b> 4-digit maximum (up to two decimal places).</p>
<ul style="list-style-type: none"> <li>unitPrice</li> </ul>	<p><b>Value:</b> Cost of an item per unit excluding tax, freight, and duty. Required if <b>lineltems</b> is submitted. <b>Format:</b> 4-digit maximum with a decimal point (no dollar symbol). For example, 4.95</p>
<ul style="list-style-type: none"> <li>taxable</li> </ul>	<p><b>Value:</b> Indicates whether the item is subject to tax. Optional <b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric. <b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original authorization transaction.</p>
<ul style="list-style-type: none"> <li>customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer payment profile. <b>Format:</b> Numeric. <b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original authorization transaction.</p>
<ul style="list-style-type: none"> <li>customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address. Optional. <b>Format:</b> Numeric. <b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original authorization transaction.</p>

**Table 15 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>transId</li> </ul>	<p><b>Value:</b> The payment gateway-assigned transaction ID of the original transaction.</p> <p><b>Format:</b> Numeric.</p>
extraOptions	<p><b>Value:</b> Information in name/value pair format that does not exist within CIM, such as customer IP address, etc.</p> <p>Optional.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a>.</p>

For information about output parameters for this function, see "Output for CreateCustomerProfileTransactionResponse," page 81.

## For Refund Transactions

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

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

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

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

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

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

The following table lists the input parameters for executing an API call to the **CreateCustomerProfileTransaction** function for a Refund transaction.

**Table 16 Input Parameters for CreateCustomerProfileTransaction**

Field	Description
transaction	<b>Value:</b> Contains transaction information. <b>Type:</b> ProfileTransactionType
<ul style="list-style-type: none"> <li>■ profileTransRefund</li> </ul>	<b>Value:</b> The transaction type that is being requested. <b>Type:</b> ProfileTransRefundType <b>Notes:</b> Only one transaction type is allowed per request.
<ul style="list-style-type: none"> <li>• amount</li> </ul>	<b>Value:</b> The total amount to be refunded. <b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount should include all other amounts such as tax amount, shipping amount, etc.
<ul style="list-style-type: none"> <li>• tax</li> </ul>	<b>Value:</b> Contains tax information for the refund. Optional. <b>Type:</b> ExtendedAmountType
<ul style="list-style-type: none"> <li>• amount</li> </ul>	<b>Value:</b> The tax amount to be refunded. Optional. <b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol). For example, 12.99 or 12.9999 <b>Notes:</b> This amount must be included in the total amount for the transaction.
<ul style="list-style-type: none"> <li>• name</li> </ul>	<b>Value:</b> The name of the tax for the transaction. Optional. <b>Format:</b> 31-character maximum.
<ul style="list-style-type: none"> <li>• description</li> </ul>	<b>Value:</b> The tax description for the transaction. Optional. <b>Format:</b> 255-character maximum.
<ul style="list-style-type: none"> <li>• shipping</li> </ul>	<b>Value:</b> Contains shipping information for the refund. Optional. <b>Type:</b> ExtendedAmountType

**Table 16 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The shipping amount to be refunded.</p> <p>Optional.</p> <p><b>Format:</b> 4 digit. maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the shipping for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The shipping description for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>duty</li> </ul>	<p><b>Value:</b> Contains duty information for the refund.</p> <p>Optional.</p> <p><b>Type:</b> ExtendedAmountType</p>
<ul style="list-style-type: none"> <li>amount</li> </ul>	<p><b>Value:</b> The duty amount to be refunded.</p> <p>Optional.</p> <p><b>Format:</b> 4-digit maximum after the decimal point (no dollar symbol).</p> <p>For example, 12.99 or 12.9999</p> <p><b>Notes:</b> This amount must be included in the total amount for the transaction.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> The name of the duty for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The duty description for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>lineItems</li> </ul>	<p><b>Value:</b> Contains line item details about the refund.</p> <p>Optional</p> <p><b>Type:</b> LineItemType</p> <p><b>Notes:</b> Up to 30 distinct instances of this parameter and its children can be included per transaction to describe items included in the order.</p>

**Table 16 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>itemId</li> </ul>	<p><b>Value:</b> The ID assigned to the item.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>name</li> </ul>	<p><b>Value:</b> A short description of an item.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 31-character maximum.</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> A detailed description of an item.</p> <p>Optional</p> <p><b>Format:</b> 255-character maximum.</p>
<ul style="list-style-type: none"> <li>quantity</li> </ul>	<p><b>Value:</b> The quantity of an item.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 4-digit maximum (up to two decimal places).</p>
<ul style="list-style-type: none"> <li>unitPrice</li> </ul>	<p><b>Value:</b> Cost of an item per unit excluding tax, freight, and duty.</p> <p>Required if <b>lineItems</b> is submitted.</p> <p><b>Format:</b> 4-digit maximum with a decimal point (no dollar symbol).</p> <p>For example, 4.95</p>
<ul style="list-style-type: none"> <li>taxable</li> </ul>	<p><b>Value:</b> Indicates whether the item is subject to tax.</p> <p>Optional.</p> <p><b>Format:</b> TRUE or FALSE</p>
<ul style="list-style-type: none"> <li>customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer profile.</p> <p>Conditional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original transaction.</p> <p>For more complete information, see <a href="#">"For Refund Transactions," page 53</a>.</p>
<ul style="list-style-type: none"> <li>customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer payment profile.</p> <p>Conditional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original transaction.</p> <p>For more complete information, see <a href="#">"For Refund Transactions," page 53</a>.</p>



**Table 16 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer shipping address.</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original authorization transaction.</p> <p>For more complete information, see <a href="#">"For Refund Transactions," page 53</a>.</p>
<ul style="list-style-type: none"> <li>creditCardNumberMasked</li> </ul>	<p><b>Value:</b> The last four digits of the credit card number to be refunded.</p> <p>Conditional.</p> <p><b>Format:</b> Four Xs followed by the last four digits of the credit card number to be refunded.</p> <p>For example, XXXX1234</p> <p><b>Notes:</b> If a value is submitted, the last four digits must be the same ones used for the original transaction.</p> <p>For more complete information, see <a href="#">"For Refund Transactions," page 53</a>.</p>
<ul style="list-style-type: none"> <li>bankRoutingNumberMasked</li> </ul>	<p><b>Value:</b> The last four digits of the routing number to be refunded.</p> <p>Conditional.</p> <p><b>Format:</b> Four Xs followed by the last four digits of the routing number to be refunded.</p> <p>For example, XXXX1234</p> <p><b>Notes:</b> If a value is submitted, the last four digits must be the same ones used for the original transaction.</p> <p>For more complete information, see <a href="#">"For Refund Transactions," page 53</a>.</p>
<ul style="list-style-type: none"> <li>bankAccountNumberMasked</li> </ul>	<p><b>Value:</b> The last four digits of the bank account number to be refunded.</p> <p>Conditional.</p> <p><b>Format:</b> Four Xs followed by the last four digits of the bank account to be refunded.</p> <p>For example, XXXX1234</p> <p><b>Notes:</b> If a value is submitted, the last four digits must be the same ones used for the original transaction.</p> <p>For more complete information, see <a href="#">"For Refund Transactions," page 53</a>.</p>
<ul style="list-style-type: none"> <li>order</li> </ul>	<p><b>Value:</b> Contains information about the order.</p> <p>Optional.</p>

**Table 16 Input Parameters for CreateCustomerProfileTransaction (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>invoiceNumber</li> </ul>	<p><b>Value:</b> The merchant assigned invoice number for the transaction.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>description</li> </ul>	<p><b>Value:</b> The transaction description.</p> <p>Optional.</p> <p><b>Format:</b> 255-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>purchaseOrderNumber</li> </ul>	<p><b>Value:</b> The merchant assigned purchase order number.</p> <p>Optional.</p> <p><b>Format:</b> 25-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>transId</li> </ul>	<p><b>Value:</b> The payment gateway assigned transaction ID of the original transaction.</p> <p>Conditional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> For more complete information, see "<a href="#">For Refund Transactions</a>," page 53.</p>
extraOptions	<p><b>Value:</b> Information in name/value pair format that does not exist within CIM, such as customer IP address, etc.</p> <p>Optional.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> For a complete list of the transaction variable names available, review the <i>AIM Implementation Guide</i> located at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a>.</p>

For information about output parameters for this function, see "[Input Parameters for CreateCustomerProfileTransaction](#)," page 35.

## For a Void Transaction

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

**Table 17 Input Parameters for CreateCustomerProfileTransaction**

Field	Description
transaction	<p><b>Value:</b> Contains transaction information.</p> <p><b>Type:</b> ProfileTransactionType</p>

**Table 17** Input Parameters for CreateCustomerProfileTransaction (Continued)

Field	Description
<ul style="list-style-type: none"> <li>■ profileTransVoid</li> </ul>	<p><b>Value:</b> The transaction type that is being requested.</p> <p><b>Type:</b> ProfileTransVoidType</p> <p><b>Notes:</b> Only one transaction type is allowed per request.</p>
<ul style="list-style-type: none"> <li>● customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer profile.</p> <p>Conditional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original transaction.</p>
<ul style="list-style-type: none"> <li>● customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer payment profile.</p> <p>Conditional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original transaction.</p>
<ul style="list-style-type: none"> <li>● customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer shipping address.</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> If a value is submitted for this field, it must be the same ID used for the original authorization transaction.</p>
<ul style="list-style-type: none"> <li>● transId</li> </ul>	<p><b>Value:</b> The payment gateway assigned transaction ID of the original transaction.</p> <p>Conditional.</p> <p><b>Format:</b> Numeric.</p>

## Input Parameters for DeleteCustomerProfile

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

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

**Table 18** Input Parameters for DeleteCustomerProfile

Field	Description
-------	-------------

**Table 18 Input Parameters for DeleteCustomerProfile (Continued)**

customerProfileId	Payment gateway assigned ID associated with the customer profile. Numeric.
-------------------	---

For information about output parameters for this function, see ["Output for DeleteCustomerProfileResponse," page 82.](#)

## Input Parameters for DeleteCustomerPaymentProfile

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

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

**Table 19 Input Parameters for DeleteCustomerPaymentProfile**

Field	Description
customerProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric.
customerPaymentProfileId	<b>Value:</b> Payment gateway assigned ID associated with the customer payment profile. <b>Format:</b> Numeric.

For information about output parameters for this function, see ["Output for DeleteCustomerPaymentProfileResponse," page 82.](#)

## Input Parameters for DeleteCustomerShippingAddress

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

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

**Table 20 Input Parameters for DeleteCustomerShippingAddress**

Field	Description
customerProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric.

**Table 20** Input Parameters for DeleteCustomerShippingAddress (Continued)

customerShippingAddressId	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address.</p> <p><b>Format:</b> Numeric.</p>
---------------------------	--

For information about output parameters for this function, see ["Output for DeleteCustomerShippingAddressResponse," page 83.](#)

## Input Parameters for GetCustomerProfileIds

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

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

**Table 21** Input Parameters for GetCustomerProfileIds

Field	Description
merchantAuthentication	<p><b>Value:</b> Contains unique merchant information for purposes of authentication.</p>
<ul style="list-style-type: none"> <li>■ name</li> </ul>	<p><b>Value:</b> The valid API login ID for the developer test or merchant account.</p> <p><b>Format:</b> 25-character maximum.</p> <p><b>Notes:</b> Submit the API login ID used to submit transactions.</p>
<ul style="list-style-type: none"> <li>■ transactionKey</li> </ul>	<p><b>Value:</b> The valid Transaction Key for the developer test or merchant account.</p> <p><b>Format:</b> 16 characters.</p> <p><b>Notes:</b> Submit the transaction key obtained from the Merchant Interface.</p>

For information about output parameters for this function, see ["Output for GetCustomerProfileIdsResponse," page 83.](#)

## Input Parameters for GetCustomerProfile

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

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

**Table 22 Input Parameters for GetCustomerProfile**

Field	Description
customerProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric.

For information about output parameters for this function, see ["Output for GetCustomerProfileResponse," page 83.](#)

## Input Parameters for GetCustomerPaymentProfile

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

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

**Table 23 Input Parameters for GetCustomerPaymentProfile**

Field	Description
customerProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric.
customerPaymentProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer payment profile. <b>Format:</b> Numeric.

For information about output parameters for this function, see ["Output for GetCustomerProfileResponse," page 83.](#)

## Input Parameters for GetCustomerShippingAddress

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

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

**Table 24 Input Parameters for GetCustomerShippingAddress**

Field	Description
-------	-------------

**Table 24** Input Parameters for **GetCustomerShippingAddress**

customerProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric.
customerShippingAddressId	<b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address. <b>Format:</b> Numeric.

For information about output parameters for this function, see ["Output for GetCustomerShippingAddressResponse," page 91](#).

## Input Parameters for GetHostedProfilePage

Use this function to initiate a request for direct access to the Authorize.Net web site. For more information on using the hosted form, see ["Using a Hosted Form," page 96](#).

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

**Table 25** Input Parameters for **GetHostedProfilePage**

Field	Description
customerProfileId	<b>Value:</b> Payment gateway assigned ID associated with the customer profile. <b>Format:</b> Numeric.
hostedProfileSettings	<b>Value:</b> Optional. This is an array of settings for the session.
<ul style="list-style-type: none"> <li>■ settingName</li> </ul>	<b>Value:</b> Optional. One of: <ul style="list-style-type: none"> <li>■ hostedProfileReturnUrl</li> <li>■ hostedProfileReturnUrlText</li> <li>■ hostedProfileHeadingBgColor</li> <li>■ hostedProfilePageBorderVisible</li> <li>■ hostedProfileIFrameCommunicatorUrl</li> <li>■ hostedProfileValidationMode</li> <li>■ hostedProfileBillingAddressRequired</li> <li>■ hostedProfileCardCodeRequired</li> </ul>
<ul style="list-style-type: none"> <li>■ settingValue</li> </ul>	<b>Value:</b> See <a href="#">"Guidelines for Parameter Settings," page 99</a> for a detailed description of these parameters.

### Example 4 GetHostedProfilePage

```
<?xml version="1.0" encoding="utf-8"?>
```

```

<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://
schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetHostedProfilePage xmlns="https://api.authorize.net/soap/v1/">
      <merchantAuthentication>
        <name>string</name>
        <transactionKey>string</transactionKey>
      </merchantAuthentication>
      <customerProfileId>111111</customerProfileId>
      <hostedProfileSettings>
        <setting>
          <settingName>string</settingName>
          <settingValue>string</settingValue>
        </setting>
        <setting>
          <settingName>string</settingName>
          <settingValue>string</settingValue>
        </setting>
      </hostedProfileSettings>
    </GetHostedProfilePage>
  </soap:Body>
</soap:Envelope>

```

## Input Parameters for UpdateCustomerProfile

This function is used to update an existing customer profile.

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

**Table 26** Input Parameters for UpdateCustomerProfile

Field	Description
profile	<b>Value:</b> Contains payment information for the customer profile. <b>Type:</b> CustomerProfileExType
<ul style="list-style-type: none"> <li>■ merchantCustomerId</li> </ul>	<b>Value:</b> Merchant assigned ID for the customer. Optional. <b>Format:</b> 20-character maximum.
<ul style="list-style-type: none"> <li>■ description</li> </ul>	<b>Value:</b> Description of the customer or customer profile. Optional. <b>Format:</b> 255-character maximum.
<ul style="list-style-type: none"> <li>■ email</li> </ul>	<b>Value:</b> Email address associated with the customer profile. Optional. <b>Format:</b> 255-character maximum.



**Table 26 Input Parameters for UpdateCustomerProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>■ customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p>

For information about output parameters for this function, see ["Output for UpdateCustomerProfileResponse," page 92.](#)

## Input Parameters for UpdateCustomerPaymentProfile

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

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



### Note

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

**Table 27 Input Parameters for UpdateCustomerPaymentProfile**

Field	Description
customerProfileId	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p>
paymentProfile	<p><b>Value:</b> Contains payment information for the customer profile.</p> <p><b>Type:</b> CustomerPaymentProfileExType</p> <p><b>Notes:</b> Sensitive information that is not being updated can be masked.</p>
<ul style="list-style-type: none"> <li>■ customerType</li> </ul>	<p>Optional.</p> <p><b>Type:</b> CustomerTypeEnum</p> <p><b>Format:</b> individual or business</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>

**Table 27 Input Parameters for UpdateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>■ billTo</li> </ul>	<p><b>Type:</b> CustomerAddressType</p> <p><b>Notes:</b> If this entire section is not submitted, the original billing information for the profile will stay the same.</p> <p>If updating only one or more elements under <b>billTo</b>, all elements must be submitted with their valid values to prevent the original values from being removed.</p>
<ul style="list-style-type: none"> <li>• firstName</li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>• lastName</li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>• company</li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>
<ul style="list-style-type: none"> <li>• address</li> </ul>	<p><b>Value:</b> The customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>

**Table 27 Input Parameters for UpdateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>city</li> </ul>	<p><b>Value:</b> The city of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>state</li> </ul>	<p><b>Value:</b> The state of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>zip</li> </ul>	<p><b>Value:</b> The ZIP code of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74.</a></p>
<ul style="list-style-type: none"> <li>country</li> </ul>	<p><b>Value:</b> The country of the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>

**Table 27 Input Parameters for UpdateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>• phoneNumber</li> </ul>	<p><b>Value:</b> The phone number associated with the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>
<ul style="list-style-type: none"> <li>• faxNumber</li> </ul>	<p><b>Value:</b> The fax number associated with the customer's address.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>
<ul style="list-style-type: none"> <li>▪ payment</li> </ul>	<p><b>Value:</b> Contains payment information for the customer profile.</p> <p><b>Type:</b> PaymentSimpleType</p> <p><b>Notes:</b> Can contain <b>CreditCardSimpleType</b> or <b>BankAccountType</b>.</p>
<ul style="list-style-type: none"> <li>• creditCard</li> </ul>	<p><b>Value:</b> Contains credit card payment information for the customer profile.</p> <p>Conditional.</p> <p><b>Type:</b> CreditCardSimpleType</p> <p><b>Notes:</b> This parameter and its children are only required when the payment profile is credit card.</p>
<ul style="list-style-type: none"> <li>• cardNumber</li> </ul>	<p><b>Value:</b> The customer's credit card number.</p> <p><b>Format:</b> 13 to 16 digits (inclusive).</p> <p>Number can also be masked, for example, XXXX1111</p> <p><b>Notes:</b> If the value is masked, the last four digits must match the original value in the profile.</p> <p>If a masked value is submitted, the original value will not be updated.</p>

**Table 27 Input Parameters for UpdateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>expirationDate</li> </ul>	<p><b>Value:</b> The expiration date for the customer's credit card.</p> <p><b>Format:</b> YYYY-MM</p> <p>Number can also be masked, for example, XXXX</p> <p><b>Notes:</b> If a masked value is submitted, the original value will not be updated.</p> <p>For .Net users, the class System.Runtime.Remoting.Metadata.W3cXsd2001.SoapYearMonth can be used to manage gYearMonth types.</p>
<ul style="list-style-type: none"> <li>cardCode</li> </ul>	<p><b>Value:</b> The three- or four-digit number on the back of a credit card (on the front for American Express).</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at <a href="http://www.authorize.net/support/Merchant/default.htm">http://www.authorize.net/support/Merchant/default.htm</a>.</p> <p><b>cardCode</b> is only used for validation and is not stored in the customer profile. It should only be used when submitting <b>validationMode</b> with a value of <b>testMode</b> or <b>liveMode</b>.</p>
<ul style="list-style-type: none"> <li>bankAccount</li> </ul>	<p><b>Value:</b> Contains bank account payment information for the customer profile.</p> <p>Conditional.</p> <p><b>Type:</b> BankAccountType</p> <p><b>Notes:</b> This parameter and its children are only required when the payment profile is bank account.</p>
<ul style="list-style-type: none"> <li>accountType</li> </ul>	<p><b>Value:</b> The type of bank account for the payment profile.</p> <p>Optional.</p> <p><b>type:</b> BankAccountTypeEnum</p> <p><b>Format:</b> checking, savings, or businessChecking</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>
<ul style="list-style-type: none"> <li>routingNumber</li> </ul>	<p><b>Value:</b> The routing number of the customer's bank.</p> <p><b>Format:</b> 9 digits.</p> <p>Number can also be masked, for example, XXXX1111</p> <p><b>Notes:</b> If the value is masked, the last four digits must match the original value in the profile.</p> <p>If a masked value is submitted, the original value will not be updated.</p>

**Table 27 Input Parameters for UpdateCustomerPaymentProfile (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>accountNumber</li> </ul>	<p><b>Value:</b> The customer's bank account number.</p> <p><b>Format:</b> 5 to 17 digits (inclusive).</p> <p>Number can also be masked, for example, XXXX1111</p> <p><b>Notes:</b> If the value is masked, the last four digits must match the original value in the profile.</p> <p>If a masked value is submitted, the original value will not be updated.</p>
<ul style="list-style-type: none"> <li>nameOnAccount</li> </ul>	<p><b>Value:</b> The customer's full name as listed on the bank account.</p> <p><b>Format:</b> 22-character maximum.</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>
<ul style="list-style-type: none"> <li>echeckType</li> </ul>	<p><b>Value:</b> The type of electronic check transaction.</p> <p>Optional.</p> <p><b>Type:</b> EcheckTypeEnum</p> <p><b>Format:</b> CCD, PPD, TEL, or WEB</p> <p><b>Notes:</b> Currently, the CIM API does not support ARC or BOC transaction types.</p> <p>If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>
<ul style="list-style-type: none"> <li>bankName</li> </ul>	<p><b>Value:</b> The name of the bank associated with the bank account number.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum.</p> <p><b>Notes:</b> If this field is not submitted in the request, or submitted with a blank value, the original value will be removed from the profile.</p>
<ul style="list-style-type: none"> <li>customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer payment profile.</p> <p><b>Format:</b> Numeric.</p>
validationMode	<p><b>Value:</b> Indicates the processing mode for the request.</p> <p><b>Format:</b> none, testMode, or liveMode</p> <p><b>Notes:</b> For more information on use and restrictions of validationMode, see "<a href="#">The validationMode Parameter</a>," <a href="#">page 20</a>.</p>

To test the validity of new payment information, call `ValidateCustomerPaymentProfile` after successfully updating the payment profile. See "[Input Parameters for ValidateCustomerPaymentProfile](#)," [page 73](#).

For information about output parameters for this function, see ["Input Parameters for UpdateCustomerPaymentProfile,"](#) page 65.

## Input Parameters for UpdateCustomerShippingAddress

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

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

**Table 28 Input Parameters for UpdateCustomerShippingAddress**

Field	Description
customerProfileId	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p>
address	<p><b>Value:</b> Contains shipping address information for the customer profile.</p> <p>type: CustomerAddressExType</p>
<ul style="list-style-type: none"> <li>■ firstName</li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields,"</a> page 74.</p>
<ul style="list-style-type: none"> <li>■ lastName</li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields,"</a> page 74.</p>
<ul style="list-style-type: none"> <li>■ company</li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>■ address</li> </ul>	<p><b>Value:</b> The customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields,"</a> page 74.</p>

**Table 28 Input Parameters for UpdateCustomerShippingAddress (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>■ city</li> </ul>	<p><b>Value:</b> The city of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74</a>.</p>
<ul style="list-style-type: none"> <li>■ state</li> </ul>	<p><b>Value:</b> The state of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74</a>.</p>
<ul style="list-style-type: none"> <li>■ zip</li> </ul>	<p><b>Value:</b> The ZIP code of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p> <p>When your payment processor is EVO and you submit this field, other fields are required. See <a href="#">"EVO Billing and Shipping Fields," page 74</a>.</p>
<ul style="list-style-type: none"> <li>■ country</li> </ul>	<p><b>Value:</b> The country of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>■ phoneNumber</li> </ul>	<p><b>Value:</b> The phone number associated with the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>■ faxNumber</li> </ul>	<p><b>Value:</b> The fax number associated with the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 25-digit maximum (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>■ customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address.</p> <p><b>Format:</b> Numeric.</p>

For information about output parameters for this function, see ["Output for UpdateCustomerShippingAddressResponse," page 93](#).



## Input Elements for UpdateSplitTenderGroup

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

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

**Table 29** Input Elements for UpdateSplitTenderGroup

Field	Description
splitTenderId	<b>Value:</b> Payment gateway-assigned number associated with the order. Required. <b>Format:</b> Numeric.
splitTenderStatus	<b>Value:</b> Indicates the status of all transactions associated with the order. <b>Format:</b> voided, or completed. <b>Notes:</b> Use voided to void the entire order; use completed to indicate there are no further transactions in this order.

## Input Parameters for ValidateCustomerPaymentProfile

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

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

**Table 30** Input Parameters for ValidateCustomerPaymentProfile

Field	Description
customerProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric.
customerPaymentProfileId	<b>Value:</b> Payment gateway-assigned ID associated with the customer payment profile. <b>Format:</b> Numeric.
customerShippingAddressId	<b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address. Optional. <b>Format:</b> Numeric. <b>Notes:</b> If <b>customerShippingAddressId</b> is not passed, shipping information will not be included with the transaction.

**Table 30 Input Parameters for ValidateCustomerPaymentProfile (Continued)**

Field	Description
cardCode	<p><b>Value:</b> The three- or four-digit number on the back of a credit card (on the front for American Express).</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This field is required if the merchant would like to use the Card Code Verification (CCV) security feature. For more information, see the <i>Merchant Integration Guide</i> at <a href="http://www.authorize.net/support/Merchant/default.htm">http://www.authorize.net/support/Merchant/default.htm</a>.</p> <p><b>cardCode</b> is used only for validation and is not stored in the customer profile. It should be used only when submitting <b>validationMode</b> with a value of <b>testMode</b> or <b>liveMode</b>.</p>
validationMode	<p><b>Value:</b> Indicates the processing mode for the request.</p> <p><b>Format:</b> testMode or liveMode</p> <p><b>Notes:</b> For more information on use and restrictions of <b>validationMode</b>, see "The validationMode Parameter," page 20.</p>

For information about output parameters for this function, see "Output for ValidateCustomerPaymentProfileResponse," page 94.

**Note**

The sample code included in this document uses dummy field values. When using or testing sample code, be sure to enter valid field values. Additional sample code is available for download from the Authorize.Net Developer Center at <http://developer.authorize.net/samplecode>.

## EVO Billing and Shipping Fields

If your payment processor is EVO and you submit any of the following billing fields, you must submit all of them.

- firstName
- lastName
- address
- city
- state
- zip

If your payment processor is EVO and you submit any of the following shipping fields, you must submit all of them.

- firstName
- lastName

- address
- city
- state
- zip

# Responses

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

The following table lists output for API calls.

**Table 31 Payment gateway responses**

Field	Description
<ul style="list-style-type: none"> <li>■ resultCode</li> </ul>	<p><b>Value:</b> Contains additional information about the results of the request.</p> <p><b>Type:</b> MessageTypeEnum</p> <p><b>Format:</b> Ok or Error</p>
messages	<p><b>Value:</b> Contains the result code and text.</p> <p><b>Type:</b> MessagesTypeMessage</p> <p><b>Notes:</b> Provides more details about the error(s).</p>
<ul style="list-style-type: none"> <li>● code</li> </ul>	<p><b>Value:</b> A code that represents the reason for the error.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," page 102 for possible values.</p>
<ul style="list-style-type: none"> <li>● text</li> </ul>	<p><b>Value:</b> A text description of the error.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," page 102 for possible values.</p>

# CIM Responses

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

## Example 5 Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://
www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CreateCustomerProfileResponse xmlns="https://api.authorize.net/
soap/v1/">
      <CreateCustomerProfileResult>
        <resultCode>Ok</resultCode>
        <messages>
          <code>I00001</code>
          <text>Successful</text>
        </messages>
        <customerProfileId>1259</customerProfileId>
      </CreateCustomerProfileResult>
    </CreateCustomerProfileResponse>
  </soap:Body>
</soap:Envelope>
```

## Output for CreateCustomerProfileFromTransactionResponse

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

**Table 32 Output for CreateCustomerProfileFromTransactionResponse**

Field	Description
messages	This element contains one or more <b>message</b> elements.
<ul style="list-style-type: none"> <li>▪ message <ul style="list-style-type: none"> <li>• code</li> <li>• text</li> </ul> </li> </ul>	<p>Contains detailed information about the status of a particular transaction.</p> <p>Response Code that represents status.</p> <p>Text description of status.</p>
customerProfileId	Payment gateway-assigned ID that is associated with the customer profile.
customerPaymentProfileIdList	Contains the customer payment profile ID element.

**Table 32 Output for CreateCustomerProfileFromTransactionResponse**

Field	Description
<ul style="list-style-type: none"> <li>numericString</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID that is associated with the customer payment profile.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This is included only if the original transaction included a billing address.</p>
customerShippingAddressIdList	Contains the Customer Shipping Profile ID element.
<ul style="list-style-type: none"> <li>numericString</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID that is associated with the customer shipping profile.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This is included only if the original transaction included a shipping address.</p>

## Output for CreateCustomerProfileResponse

### Example 6 CreateCustomerProfileFromTransactionResponse

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateCustomerProfileFromTransactionResponse xmlns="https://
api.authorize.net/soap/v1/">
      <CreateCustomerProfileFromTransactionResult>
        <resultCode>Ok</resultCode>
        <messages>
          <MessagesTypeMessage>
            <code>I00001</code>
            <text>Successful.</text>
          </MessagesTypeMessage>
        </messages>
        <customerProfileId>28969658</customerProfileId>
        <customerPaymentProfileIdList>
          <long>26315858</long>
        </customerPaymentProfileIdList>
        <customerShippingAddressIdList>
          <long>27055266</long>
        </customerShippingAddressIdList>
        <validationDirectResponseList/>
      </CreateCustomerProfileFromTransactionResult>
    </CreateCustomerProfileFromTransactionResponse>
  </soap:Body>
</soap:Envelope>
```

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

**Table 33 Output for CreateCustomerProfileResponse**

Field	Description
CreateCustomerProfileResult	<p><b>Value:</b> Contains the result of the API request to create a customer profile.</p> <p><b>Type:</b> CreateCustomerProfileResponseType</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," page 102 for possible values.</p>
<ul style="list-style-type: none"> <li>■ customerProfileId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer profile.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This output is present only for successful requests.</p>
<ul style="list-style-type: none"> <li>■ customerPaymentProfileIdList</li> </ul>	<p><b>Value:</b> A list of all payment profile IDs created with the request.</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This output is present only for requests that contain one or more payment profiles.</p> <p>The payment profile IDs are returned in the same order as they were in the request.</p>
<ul style="list-style-type: none"> <li>■ customerShippingAddressIdList</li> </ul>	<p><b>Value:</b> A list of all shipping profile IDs created with the request.</p> <p>Optional.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This output is present only for requests that contain multiple shipping profiles.</p> <p>The shipping profile IDs are returned in the same order as they were in the request.</p>
<ul style="list-style-type: none"> <li>■ validationDirectResponseList</li> </ul>	<p><b>Value:</b> A list of the direct response results for the validation transaction for each payment profile.</p> <p>Optional.</p> <p><b>Format:</b> String.</p> <p>See the <i>Advanced Integration Guide</i> at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a> for details about information included in the payment gateway transaction response.</p> <p><b>Notes:</b> This output is present only if the <b>ValidationMode</b> input element is passed with a value of <b>testMode</b> or <b>liveMode</b>.</p> <p>The list is returned in the same order as the payment profiles were submitted in the request.</p>



Note

The **CreateCustomerProfileResponse** field returns only the assigned **customerProfileId** field for the created profile. To retrieve the **customerPaymentProfileId** field and the **customerShippingId** field that may also be created when using the **CreateCustomerProfile** function, you must submit the **GetCustomerProfile** function using the assigned the **customerProfileId** value for that customer profile.

## Output for CreateCustomerPaymentProfileResponse

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

**Table 34** Output for CreateCustomerPaymentProfileResponse

Field	Description
CreateCustomerPaymentProfileResult	<p><b>Value:</b> Contains the result of the API request to create a customer payment profile.</p> <p><b>Type:</b> CreateCustomerPaymentProfileResponseType</p> <p><b>Notes:</b> See "Response Codes," page 102 or possible values.</p>
<ul style="list-style-type: none"> <li>■ customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer payment profile.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This output is present only for successful requests.</p>
<ul style="list-style-type: none"> <li>■ validationDirectResponse</li> </ul>	<p><b>Value:</b> Contains detailed information about the result of the transaction.</p> <p><b>Format:</b> String.</p> <p>See the <i>Advanced Integration Guide</i> at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a> for details about information included in the payment gateway transaction response.</p> <p><b>Notes:</b> This output is present only if the <b>ValidationMode</b> input parameter is passed with a value of <b>testMode</b> or <b>liveMode</b>.</p>



## Output for CreateCustomerShippingAddressResponse

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

**Table 35 Output for CreateCustomerShippingAddressResponse**

Field	Description
CreateCustomerShippingAddressResult	<p><b>Value:</b> Contains the result of the API request to create a customer shipping address.</p> <p><b>Type:</b> CreateCustomerShippingAddressResponseType</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," page 102 for possible values.</p>
<ul style="list-style-type: none"> <li>■ customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer shipping address.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This output is present only for successful requests.</p>

## Output for CreateCustomerProfileTransactionResponse

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

**Table 36 Output for CreateCustomerProfileTransactionResponse**

Field	Description
CreateCustomerProfileTransactionResult	<p><b>Value:</b> Contains the result of the API request to create a customer profile transaction.</p> <p><b>Type:</b> CreateCustomerProfileTransactionResponseType</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," page 102 for possible values.</p>

**Table 36 Output for CreateCustomerProfileTransactionResponse (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>directResponse</li> </ul>	<p><b>Value:</b> Contains detailed information about the result of the transaction.</p> <p><b>Format:</b> String.</p> <p>See the <i>Advanced Integration Guide</i> at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a> for details about information included in the payment gateway transaction response.</p> <p><b>Notes:</b> Transactions created from a customer profile behave the same as regular transactions - you and your customer will receive all associated email notifications. Additionally, all fraud settings, including FDS filters and AVS and CCV settings, will be enforced.</p>

## Output for DeleteCustomerProfileResponse

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

**Table 37 Output for DeleteCustomerProfileResponse**

Field	Description
DeleteCustomerProfileResult	<p><b>Value:</b> Contains the result of the API request to delete a customer profile.</p> <p><b>Type:</b> DeleteCustomerProfileResponseType</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," <a href="#">page 102</a> for possible values.</p>

## Output for DeleteCustomerPaymentProfileResponse

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

**Table 38 Output for DeleteCustomerPaymentProfileResponse**

Field	Description
DeleteCustomerPaymentProfileResult	<p><b>Value:</b> Contains the result of the API request to delete a customer payment profile.</p> <p><b>Type:</b> DeleteCustomerPaymentProfileResponseType</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," <a href="#">page 102</a> for possible values.</p>

## Output for DeleteCustomerShippingAddressResponse

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

**Table 39 Output for DeleteCustomerShippingAddressResponse**

Field	Description
DeleteCustomerShippingAddressResult	<p><b>Value:</b> Contains the result of the API request to delete a customer shipping address.</p> <p><b>Type:</b> DeleteCustomerShippingAddressResponseType</p> <p><b>Notes:</b> See "Response Codes," page 102 for possible values.</p>

## Output for GetCustomerProfileIdsResponse

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

**Table 40 Output for GetCustomerProfileIdsResponse**

Field	Description
GetCustomerProfileIdsResult	<p><b>Value:</b> Contains the result of the API request to get all customer profile IDs.</p> <p><b>Type:</b> GetCustomerProfileIdsResponseType</p> <p><b>Notes:</b> See "Response Codes," page 102 for possible values.</p>
ids	<p><b>Value:</b> Payment gateway assigned IDs associated with the customer profiles.</p> <p><b>Format:</b> Numeric.</p> <p><b>Notes:</b> This output is present only for successful requests.</p>

## Output for GetCustomerProfileResponse

The following information lists the output returned from the payment gateway for an API call to the GetCustomerProfile function. **GetCustomerProfileResult**

- Value: Contains the result of the API request to get a customer profile

- Type: GetCustomerProfileResponseType

**Table 41 Output for GetCustomerProfileResponse**

Field	Description
profile	<b>Value:</b> Contains information for the customer profile. <b>Type:</b> CustomerProfileMaskedType
<ul style="list-style-type: none"> <li>■ customerProfileId</li> </ul>	<b>Value:</b> Payment gateway-assigned ID associated with the customer profile. <b>Format:</b> Numeric. <b>Notes:</b> This output is present only for successful requests.
<ul style="list-style-type: none"> <li>■ merchantCustomerId</li> </ul>	<b>Value:</b> Merchant-assigned ID for the customer. Optional. <b>Format:</b> 2-character maximum.
<ul style="list-style-type: none"> <li>■ description</li> </ul>	<b>Value:</b> Description of the customer or customer profile. Optional. <b>Format:</b> 255-character maximum.
<ul style="list-style-type: none"> <li>■ email</li> </ul>	<b>Value:</b> Email address associated with the customer profile. Optional. <b>Format:</b> 255-character maximum.
<ul style="list-style-type: none"> <li>• paymentProfiles</li> </ul>	<b>Value:</b> Contains payment profiles for the customer profile. <b>Type:</b> CustomerPaymentProfileMaskedType.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• customerPaymentProfileId</li> </ul> </li> </ul>	<b>Value:</b> Payment gateway assigned ID associated with the customer payment profile. <b>Format:</b> Numeric.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• payment</li> </ul> </li> </ul>	<b>Value:</b> Contains payment profile information for the customer profile. <b>Type:</b> PaymentMaskedType
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• creditCard</li> </ul> </li> </ul>	<b>Value:</b> Contains credit card payment information for the customer profile. <b>Type:</b> CreditCardMaskedType
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• cardNumber</li> </ul> </li> </ul> </li> </ul>	<b>Value:</b> The customer's credit card number. <b>Format:</b> 13 to 16 digits (inclusive). <b>Notes:</b> All sensitive payment information in the output is masked.

**Table 41 Output for GetCustomerProfileResponse (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>• expirationDate</li> </ul>	<p><b>Value:</b> The expiration date for the customer's credit card.</p> <p><b>Format:</b> YYYY-MM</p> <p><b>Notes:</b> All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>• bankAccount</li> </ul>	<p><b>Value:</b> Contains bank account payment information for the customer profile.</p> <p><b>Type:</b> BankAccountMaskedType</p>
<ul style="list-style-type: none"> <li>• routingNumber</li> </ul>	<p><b>Value:</b> The routing number of the customer's bank.</p> <p><b>Format:</b> 9 digits.</p> <p><b>Notes:</b> All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>• accountNumber</li> </ul>	<p><b>Value:</b> The customer's bank account number.</p> <p><b>Format:</b> 5 to 17 digits (inclusive).</p> <p><b>Notes:</b> All sensitive payment information in the output is masked.</p>
driversLicense	<p><b>Value:</b> Contains the customer's driver's license information.</p> <p><b>Type:</b> DriversLicenseMaskedType</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p>
<ul style="list-style-type: none"> <li>■ state</li> </ul>	<p><b>Value:</b> The state of the customer's driver's license.</p> <p><b>Format:</b> A valid two-character state code.</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p>
<ul style="list-style-type: none"> <li>■ number</li> </ul>	<p><b>Value:</b> The customer's driver's license number.</p> <p><b>Format:</b> 5 to 20 characters (inclusive).</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p> <p>All sensitive payment information in the output is masked.</p>

**Table 41 Output for GetCustomerProfileResponse (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>■ dateOfBirth</li> </ul>	<p><b>Value:</b> The date of birth listed on the customer's driver's license.</p> <p><b>Format:</b> YYYY-MM-DD</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p> <p>All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>■ taxId</li> </ul>	<p><b>Value:</b> The customer's Social Security Number or tax ID.</p> <p><b>Format:</b> 9 digits.</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p> <p>All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>• shipToList</li> </ul>	<p><b>Value:</b> Contains shipping address profile information for the customer profile.</p> <p><b>Type:</b> CustomerAddressExType</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• customerShippingAddressId</li> </ul> </li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• firstName</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• lastName</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• company</li> </ul> </li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p>Optional.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• address</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• city</li> </ul> </li> </ul>	<p><b>Value:</b> The city of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p>

**Table 41 Output for GetCustomerProfileResponse (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>state</li> </ul>	<p><b>Value:</b> The state of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>zip</li> </ul>	<p><b>Value:</b> The zip code of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>country</li> </ul>	<p><b>Value:</b> The country of the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>phoneNumber</li> </ul>	<p><b>Value:</b> The phone number associated with the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> Up to 25 digits (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>faxNumber</li> </ul>	<p><b>Value:</b> The fax number associated with the customer's shipping address.</p> <p>Optional.</p> <p><b>Format:</b> Up to 25 digits (no letters).</p> <p>For example, (123)123-1234</p>

## Output for GetCustomerPaymentProfileResponse

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

- **Value:** Contains the result of the API request to get a customer payment profile
- **Type:** GetCustomerPaymentProfileResponseType.

**Table 42 Output for GetCustomerPaymentProfileResponse**

Field	Description
<ul style="list-style-type: none"> <li>paymentProfile</li> </ul>	<p><b>Value:</b> Contains payment information for the customer profile.</p> <p><b>Type:</b> CustomerPaymentProfileMaskedType</p>

**Table 42 Output for GetCustomerPaymentProfileResponse (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>customerPaymentProfileId</li> </ul>	<p><b>Value:</b> Payment gateway assigned ID associated with the customer payment profile.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li>customerType</li> </ul>	<p><b>Type:</b> CustomerTypeEnum</p> <p><b>Format:</b> individual or business.</p>
<ul style="list-style-type: none"> <li>billTo</li> </ul>	<p><b>Type:</b> CustomerAddressTypeCustomer's billing information.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>firstName</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>lastName</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>company</li> </ul> </li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>address</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's address.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>city</li> </ul> </li> </ul> </li> </ul>	<p><b>Value:</b> The city of the customer's address.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>state</li> </ul> </li> </ul> </li> </ul>	<p><b>Value:</b> The state of the customer's address.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>zip</li> </ul> </li> </ul> </li> </ul>	<p><b>Value:</b> The ZIP code of the customer's address.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>country</li> </ul> </li> </ul> </li> </ul>	<p><b>Value:</b> The country of the customer's address.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>phoneNumber</li> </ul> </li> </ul> </li> </ul>	<p><b>Value:</b> The phone number associated with the customer's address.</p> <p><b>Format:</b> Up to 25 digits (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>faxNumber</li> </ul> </li> </ul> </li> </ul>	<p><b>Value:</b> The fax number associated with the customer's address.</p> <p><b>Format:</b> Up to 25 digits (no letters).</p> <p>For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>payment</li> </ul>	<p><b>Value:</b> Contains payment profile information for the customer profile.</p> <p><b>Type:</b> PaymentMaskedType</p>



**Table 42 Output for GetCustomerPaymentProfileResponse (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>creditCard</li> </ul>	<p><b>Value:</b> Contains credit card payment information for the payment profile.</p> <p><b>Type:</b> CreditCardMaskedType</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>cardNumber</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's credit card number.</p> <p><b>Format:</b> 13 to 16 digits (inclusive).</p> <p><b>Notes:</b> All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>expirationDate</li> </ul> </li> </ul>	<p><b>Value:</b> The expiration date for the customer's credit card.</p> <p><b>Format:</b> YYYY-MM</p> <p><b>Notes:</b> All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>bankAccount</li> </ul>	<p><b>Value:</b> Contains bank account payment information for the payment profile.</p> <p><b>Type:</b> BankAccountMaskedType</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>accountType</li> </ul> </li> </ul>	<p><b>Value:</b> The type of bank account for the payment profile.</p> <p><b>Format:</b> checking, savings, or businessChecking</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>routingNumber</li> </ul> </li> </ul>	<p><b>Value:</b> The routing number of the customer's bank.</p> <p><b>Format:</b> 9 digits.</p> <p><b>Notes:</b> All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>accountNumber</li> </ul> </li> </ul>	<p><b>Value:</b> The customer's bank account number.</p> <p><b>Format:</b> 5 to 17 digits (inclusive).</p> <p><b>Notes:</b> All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>nameOnAccount</li> </ul>	<p><b>Value:</b> The customer's full name as listed on the bank account.</p> <p><b>Format:</b> 22-character maximum.</p>
<ul style="list-style-type: none"> <li>echeckType</li> </ul>	<p><b>Value:</b> The type of electronic check transaction.</p> <p><b>Format:</b> CCD, PPD, TEL, or WEB</p> <p><b>Notes:</b> Currently, the CIM API does not support ARC or BOC transaction types.</p>
<ul style="list-style-type: none"> <li>bankName</li> </ul>	<p><b>Value:</b> The name of the bank associated with the bank account number.</p> <p><b>Format:</b> 50-character maximum.</p>

**Table 42 Output for GetCustomerPaymentProfileResponse (Continued)**

Field	Description
driversLicense	<p><b>Value:</b> Contains the customer's driver's license information.</p> <p><b>type:</b> DriversLicenseMaskedType</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p>
<ul style="list-style-type: none"> <li>• state</li> </ul>	<p><b>Value:</b> The state of the customer's driver's license.</p> <p><b>Format:</b> A valid two-character state code.</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p>
<ul style="list-style-type: none"> <li>• number</li> </ul>	<p><b>Value:</b> The customer's driver's license number.</p> <p><b>Format:</b> Between 5 and 20 characters (inclusive).</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p> <p>All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>• dateOfBirth</li> </ul>	<p><b>Value:</b> The date of birth listed on the customer's driver's license.</p> <p><b>Format:</b> YYYY-MM-DD</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p> <p>All sensitive payment information in the output is masked.</p>
<ul style="list-style-type: none"> <li>• taxId</li> </ul>	<p><b>Value:</b> The customer's Social Security Number or tax ID.</p> <p><b>Format:</b> 9 digits.</p> <p><b>Notes:</b> This field is no longer supported in CIM requests and is returned only for profiles that were created under the SecureSource product.</p> <p>All sensitive payment information in the output is masked.</p>

## Output for GetCustomerShippingAddressResponse

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

- **Value:** Contains the result of the API request to get a customer shipping address
- **Type:** GetCustomerShippingAddressResponseType

**Table 43** Output for GetCustomerShippingAddressResponse

Field	Description
GetCustomerShippingAddressResult	<p><b>Value:</b> Contains the result of the API request to get a customer shipping address.</p> <p><b>Type:</b> GetCustomerShippingAddressResponseType</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," page 102 for possible values.</p>
<ul style="list-style-type: none"> <li>■ address</li> </ul>	<p><b>Value:</b> Contains shipping address information for the customer profile.</p> <p><b>Type:</b> CustomerAddress ExType</p>
<ul style="list-style-type: none"> <li>• customerShippingAddressId</li> </ul>	<p><b>Value:</b> Payment gateway-assigned ID associated with the customer shipping address.</p> <p><b>Format:</b> Numeric.</p>
<ul style="list-style-type: none"> <li>• firstName</li> </ul>	<p><b>Value:</b> The customer's first name.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>• lastName</li> </ul>	<p><b>Value:</b> The customer's last name.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>• company</li> </ul>	<p><b>Value:</b> The name of the company associated with the customer, if applicable.</p> <p><b>Format:</b> 50-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>• address</li> </ul>	<p><b>Value:</b> The customer's address.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>• city</li> </ul>	<p><b>Value:</b> The city of the customer's address.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>• state</li> </ul>	<p><b>Value:</b> The state of the customer's address.</p> <p><b>Format:</b> 40-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>• zip</li> </ul>	<p><b>Value:</b> The ZIP code of the customer's address.</p> <p><b>Format:</b> 20-character maximum (no symbols).</p>
<ul style="list-style-type: none"> <li>• country</li> </ul>	<p><b>Value:</b> The country of the customer's address.</p> <p><b>Format:</b> 60-character maximum (no symbols).</p>

**Table 43 Output for GetCustomerShippingAddressResponse (Continued)**

Field	Description
<ul style="list-style-type: none"> <li>phoneNumber</li> </ul>	<p><b>Value:</b> The phone number associated with the customer's address.</p> <p><b>Format:</b> Up to 25 digits (no letters). For example, (123)123-1234</p>
<ul style="list-style-type: none"> <li>faxNumber</li> </ul>	<p><b>Value:</b> The fax number associated with the customer's address.</p> <p><b>Format:</b> Up to 25 digits (no letters). For example, (123)123-1234</p>

## Output for GetHostedProfilePage

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

**Table 44 Output for GetHostedProfilePage**

Field	Description
Token	<p><b>Value:</b> string.</p> <p><b>Format:</b> An encrypted string that the merchant must include when posting to the Authorize.Net web page.</p> <p><b>Notes:</b> If not used within 15 minutes of the original API call, this token expires.</p>

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

For more complete information on how to use hosted CIM access, see [Chapter 4, "Using a Hosted Form,"](#) on page 96.

## Output for UpdateCustomerProfileResponse

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

**Table 45 Output for UpdateCustomerProfileResponse**

Field	Description
UpdateCustomerProfileResult	<p><b>Value:</b> Contains the result of the API request to update a customer profile.</p> <p><b>Type:</b> UpdateCustomerProfileResponseType</p> <p><b>Notes:</b> See "<a href="#">Response Codes</a>," page 102 for possible values.</p>

## Output for UpdateCustomerPaymentProfileResponse

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

**Table 46** Output for UpdateCustomerPaymentProfileResponse

Field	Description
UpdateCustomerPaymentProfileResult	<p><b>Value:</b> Contains the result of the API request to update a customer payment profile.</p> <p><b>Type:</b> UpdateCustomerPaymentProfileResponseType</p> <p><b>Notes:</b> See "Response Codes," page 102 for possible values.</p>
validationDirectResponse	<p><b>Value:</b> Contains detailed information about the result of the transaction.</p> <p>Optional.</p> <p><b>Format:</b> String.</p> <p><b>Notes:</b> See the <i>Advanced Integration Guide</i> at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a> for details about information included in the payment gateway transaction response.</p> <p>This output is only present if the <b>ValidationMode</b> input element is passed with a value of <b>testMode</b> or <b>liveMode</b>.</p>

## Output for UpdateCustomerShippingAddressResponse

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

**Table 47** Output for UpdateCustomerShippingAddressResponse

Field	Description
UpdateCustomerShippingAddressResult	<p><b>Value:</b> Contains the result of the API request to update a customer shipping address.</p> <p><b>Type:</b> UpdateCustomerShippingAddressResponseType</p> <p><b>Notes:</b> See "Response Codes," page 102 or possible values.</p>

## Output for UpdateSplitTenderGroup

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

**Table 48** Output for UpdateSplitTenderGroup

Field	Description
UpdateSplitTenderGroupResult	<p><b>Value:</b> Contains the result of the API request to update a split tender group.</p> <p><b>Type:</b> UpdateSplitTenderGroupResponseType</p> <p><b>Notes:</b> See "Response Codes," page 102 for possible values.</p>

## Output for ValidateCustomerPaymentProfileResponse

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

**Table 49** Output for ValidateCustomerPaymentProfileResponse

Field	Description
ValidateCustomerPaymentProfileResult	<p><b>Value:</b> Contains the result of the API request to validate a customer payment profile.</p> <p><b>Type:</b> ValidateCustomerPaymentProfileResponse</p> <p><b>Notes:</b> See "Response Codes," page 102 for possible values.</p>
<ul style="list-style-type: none"> <li>▪ directResponse</li> </ul>	<p><b>Value:</b> Contains detailed information about the result of the transaction.</p> <p><b>Format:</b> String.</p> <p>See the <i>Advanced Integration Guide</i> at <a href="http://www.authorize.net/support/AIM_guide.pdf">http://www.authorize.net/support/AIM_guide.pdf</a> for details about information included in the payment gateway transaction response.</p>

## Duplicate Profile Verification

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

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

**Table 50 Duplicate Profile Verification**

Function	Fields Used for Duplicate Profile Verification
CreateCustomerProfile	<ul style="list-style-type: none"> <li>■ merchantCustomerId</li> <li>■ description</li> <li>■ email</li> </ul>
CreateCustomerPaymentProfile	<ul style="list-style-type: none"> <li>■ customerProfileId</li> <li>■ cardNumber</li> <li>■ accountNumber</li> <li>■ routingNumber</li> <li>■ billToFirstName</li> <li>■ billToLastName</li> <li>■ billToAddress</li> <li>■ billToZip</li> </ul>
CreateCustomerShippingAddress	<ul style="list-style-type: none"> <li>■ customerProfileId</li> <li>■ firstName</li> <li>■ lastName</li> <li>■ address</li> <li>■ zip</li> <li>■ phoneNumber</li> </ul>

# Using a Hosted Form

## Identifying the Customer

---

Before you can present the hosted form, you need a way of identifying returning customers. You can have the customer log in to your site. Several content management systems and shopping carts automatically support that functionality. It is important that the login process is reliable so that one customer does not have access to another's stored payment information.

For first-time customers, you must create a new profile using the **createCustomerProfileRequest** field.

A customer profile contains any unique combination:

- Customer ID (any value you choose)
- Email
- Description

Once the profile is created, you'll receive a unique profile ID that you can use to identify this customer in the future.

## Retrieving a Token

---

Before you can send the HTML form post, you will need to retrieve a token using the **getHostedProfilePageRequest** field.

You must include the Customer's profile ID in your request.

Settings include:

- Return URL and return text—used to place a link back to your site. The return URL and return text are usually used only if you are having the customer completely leave your site and go to our hosted form.



- Page border visibility—determines if a black border will be drawn around the edge of the hosted form. This setting may help you seamlessly fit it into your own site.
- Heading background color—defaults to gray; you can set this to any color.
- Communicator URL—used for embedding the hosted form into your own page.
- HostedProfile validation mode—**liveMode** or **testMode**

## Presenting the Hosted Form

---

The token is passed in a basic HTML form with the input name `token`. The input name `token` is the only input value that must be included for a request to add a new payment or shipping profile, or to manage all of your profiles in one window. If you want to prompt to edit only a single existing profile, then you must include the associated **paymentProfileId** field or **shippingAddressId** field.

The type of form that you display is determined by the URL that the form is submitted to, also known as the *form action*, shown below:

### Form Action URLs

- Manage Profiles—<https://test.authorize.net/profile/manage>
- Add Payment Profile—<https://test.authorize.net/profile/addPayment>
- Add Shipping Profile—<https://test.authorize.net/profile/addShipping>
- Edit Payment Profile—<https://test.authorize.net/profile/editPayment>
- Edit Shipping Profile—<https://test.authorize.net/profile/editShipping>

### Conditional fields

- Edit Payment Profile—include **paymentProfileId**
- Edit Shipping Address—include **shippingAddressId**

## Displaying the Form

---

The hosted form is designed so that you have the freedom to integrate it into your site in almost any way. You can configure it as a separate pop-up window or embed it into your existing site. You can use a “shadow box” layout, in which the box pops up in front of the rest of your site, but not in a new window. Finally, you can just use the full window by directing the customer to Authorize.Net and letting them direct themselves back again, which avoids the use of Javascript.

We have [sample code](#) available in our developer forums that shows one example of how to open the hosted form in a shadow box. The shadow box layout can also be accomplished with third-party Javascript toolkits such as jquery.

## Redirect

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

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

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

### Example 7 Redirecting to the Authorize.Net Host

---

```
<form method="post" action="https://secure.authorize.net/profile/manage">

    <input type="hidden" name="token"
value="pfGaUNntoTxZYeqqYDjGCQ4qyCHcsXGXLJ2i7MPCEiH6CH5n5qKqc18EB
iTClxu01BSeH5eZg7LVUVVzw5kJKVMitQ3pyMB5UZCduMWd6Ku9aT2gyFm69EKMG
fyWPmI4p+Bb4TJf2F07rInSrnlM6f2xd7aRu1XBn0WxoPxK1j9FMGX2CNCoCB
p3cOXB7" />

    <input type="submit" value="Manage my payment and shipping
information" />

</form>
```

---

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

### Example 8 Adding a Redirect Button

---

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

---

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

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

- Update or delete current shipping address

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

---

## iFrame

For security reasons, web browsers do not allow Javascript communication between two pages that are hosted on different domains, even if one is embedded within another. Therefore, our hosted form cannot directly provide information to the page that is encapsulating it.

However, it is beneficial to provide some small amount of information indirectly through a third page. You can embed our hosted form in an iFrame, which enables us to embed your iFrameCommunicator inside our hosted form. This channel of communication allows us to send messages to your iFrameCommunicator page. As long as your communicator page is hosted on the same domain as your main page, it can be used to communicate.

This channel of communication is used to pass a few basic messages to your site:

- Ideal height and width of the window—allows you to resize the frame and avoid any scrollbars from appearing.
- Changes Saved—returned whenever the customer saves changes to their profile. You can use this notification to know when to look for those changes through the CIM API.
- Request Cancelled—returned when the merchant backs out of the hosted form.



**Note**

You must use **https** when using iFrameCommunicator.

---

## Guidelines for Parameter Settings

---

The following parameter settings are used with the **getHostedProfilePageRequest** field.

To integrate to the hosted page as a redirect, pass the **hostedProfileReturnUrl** parameter and the **hostedProfileReturnUrlText** parameter. The parameter **hostedProfilePageBorderVisible=true** is optional.

To integrate to the hosted page as a popup, pass the **hostedProfilePageBorderVisible=false** parameter and the **hostedProfileFrameCommunicatorUrl** parameter.

The following table shows possible settings:

**Table 51 Parameter Settings**

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

Table 51 Parameter Settings (Continued)

Parameter	Description (Continued)
hostedProfileValidationMode	<p><code>liveMode</code>—this value is the default setting. <code>liveMode</code> generates a transaction to the processor in the amount of 0.01 or 0.00. If successful, the transaction is immediately voided. Visa authorization transactions are changing from 0.01 to 0.00 for all processors. All other credit card types use 0.01.</p> <p>Standard gateway and merchant account fees may apply to the authorization transactions. For Visa transactions using 0.00, the <b>billTo_address</b> and <b>billTo_zip</b> fields are required.</p> <p><code>testMode</code>—performs field validation only. All fields are validated. However, fields with unrestricted field definitions (such as telephone number) do not generate errors.</p> <p>If you select <code>testMode</code>, a 1.00 test transaction is submitted using the Luhn MOD 10 algorithm to verify that the credit card number is in a valid format. This test transaction does not appear on the customer's credit card statement, but it will generate and send a transaction receipt email to the merchant.</p> <p>If a validation transaction is unsuccessful, the profile is not created, and the merchant receives an error.</p>
hostedProfileBillingAddressRequired	<p><b>Format:</b> Boolean; default is <code>false</code>.</p> <p><b>Notes:</b> When set to <code>true</code>, results in an asterisk next to the required fields on the hosted form. Sets First Name, Last Name, Address, City, State, and Zip Code as required fields in order for a payment profile to be created or updated within a hosted CIM form.</p>
hostedProfileCardCodeRequired	<p><b>Format:</b> Boolean. Default is <code>false</code>.</p> <p><b>Notes:</b> When set to <code>true</code>, sets the Card Code field as required in order for a payment profile to be created or updated within a hosted CIM form. Results in an asterisk next to the card code field on the hosted form.</p>

# Response Codes

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

**Table 52 Response Codes**

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.

Table 52 Response Codes (Continued)

Code	Text	Description
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 <b>profileID</b> , <b>paymentProfileId</b> , or <b>shippingAddressId</b> for this request is not valid for this merchant.
E00041	One or more fields must contain a value.	All of the fields were empty or missing.
E00042	The maximum number of payment profiles allowed for the customer profile is {0}.	The maximum number of payment profiles for the customer profile has been reached.
E00043	The maximum number of shipping addresses allowed for the customer profile is {0}.	The maximum number of shipping addresses for the customer profile has been reached.
E00044	Customer Information Manager is not enabled.	The payment gateway account is not enabled for Customer Information Manager (CIM).
E00051	The original transaction was not issued for this payment profile.	If the customer profile ID, payment profile ID, and shipping address ID are included, they must match the original transaction.
E00098	Customer Profile ID or Shipping Profile ID not found.	Search for shipping profile using customer profile id and shipping profile id did not find any records.
E00099	Customer profile creation failed. This transaction ID is invalid.	Customer profile creation failed. This transaction ID is invalid.
E00100	Customer profile creation failed. This transaction type does not support profile creation.	Customer profile creation failed. This transaction type does not support profile creation.
E00101	Customer profile creation failed.	Error creating a customer payment profile from transaction.
E00102	Customer profile creation failed.	Error creating a customer profile from transaction.