

Secure Acceptance Hosted Checkout Integration



Developer Guide

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Recent Revisions to This Document

24.01

Updated links in Clickjacking Prevention and Iframe Implementation. See [Clickjacking Prevention \(on page 217\)](#) and [Iframe Implementation \(on page 217\)](#).

23.06

In the sections [Payment Configuration \(on page 18\)](#) and [Portfolio Management for Resellers \(on page 44\)](#), the card number digits that you can choose to be displayed in the merchant or customer receipt has been corrected for these options:

- Return payment card BIN
- Return BIN and last four digits of payment card number

See [Configuring Merchant Notifications \(on page 32\)](#) and [Reseller: Configuring Merchant Notifications \(on page 58\)](#).

23.05

Added new request field **transaction_reason** for Recurring Payments. See [Recurring Payments \(on page 79\)](#) and [Request Fields \(on page 93\)](#).

23.04

Updated the descriptions for the SEC codes CCD and PPD. See [SEC Codes \(on page 205\)](#).

23.03

Added the new request field [payer_authentication_message_category \(on page 134\)](#).

23.02

Updated information about signed fields in a warning note at [Secure Acceptance Transaction Flow \(on page 13\)](#), at [Required Signed Fields \(on page 71\)](#), and in an important note at [Request Fields \(on page 93\)](#).

Updated the values in the field **signed_field_names** in code examples throughout this guide.

Added a statement that your merchant ID must be enabled to process recurring and installment payments. See [Recurring Payments \(on page 79\)](#) and [Installment Payments \(on page 81\)](#).

Updated these tasks:

- [Configuring a Custom Hosted Response Page \(on page 35\)](#)
- [Configuring a Custom Cancel Response Page \(on page 36\)](#)
- [Reseller: Configuring a Custom Hosted Response Page \(on page 61\)](#)
- [Reseller: Configuring a Custom Cancel Response Page \(on page 62\)](#)

23.01

Updated the **[echeck_sec_code \(on page 117\)](#)** field description.

Added new section [SEC Codes \(on page 205\)](#).

About This Guide

This section describes how to use this guide and where to find further information.

Audience and Purpose

This guide is written for merchants who want to accept payments using Secure Acceptance Hosted Checkout Integration and who do not want to handle or store sensitive payment information on their own servers.

Using Secure Acceptance Hosted Checkout Integration requires minimal scripting skills. You must create a security script and modify your HTML form to invoke Secure Acceptance. You will also use the Business Center to review and manage orders.

Conventions

These special statements are used in this document:



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



Warning: A *Warning* contains information or instructions, which, if not heeded, can result in a security risk, irreversible loss of data, or significant cost in time or revenue or both.

Customer Support

For support information about any service, visit the Support Center:

<http://www.cybersource.com/support>

Website Requirements

Your website must meet these requirements:

- It must have a shopping cart, customer order creation software, or an application for initiating disbursements to send funds to payment accounts.
- It must contain product pages in one of the supported scripting languages. See "[Sample Transaction Process Using JSP](#)," (on page 68).
- The IT infrastructure must be Public Key Infrastructure (PKI) enabled to use SSL-based form POST submissions.
- The IT infrastructure must be capable of digitally signing customer data prior to submission to Secure Acceptance.

Secure Acceptance Hosted Checkout Integration Overview

Cybersource Secure Acceptance Hosted Checkout Integration is your secure hosted customer checkout experience. It consists of securely managed payment forms or as a single-page payment form for capturing payment card data, processing transactions, enabling you to simplify your Payment Card Industry Data Security Standard (PCI DSS) compliance and reduce risks associated with handling and/or storing sensitive payment card information. You, the merchant, out-source capturing and managing sensitive payment card data to Secure Acceptance, which is designed to accept card payments.



Warning: Secure Acceptance is designed to process transaction requests directly from the customer browser so that sensitive payment data does not pass through your servers. If you do intend to send payment data from your servers, use the [REST API](#), [SOAP Toolkit API](#), or the [Simple Order API](#). Sending server-side payments using Secure Acceptance incurs unnecessary overhead and could result in the suspension of your Secure Acceptance profile and subsequent failure of transactions.

To create your customer's checkout experience, take these steps:

1. Create and configure Secure Acceptance profiles.
2. Update the code on your web site to render the Hosted Checkout Integration and immediately process card transactions. See [Scripting Language Samples \(on page 68\)](#). Sensitive card data bypasses your network and is accepted by Secure Acceptance directly from the customer. Cybersource processes the transaction on your behalf by sending an approval request to your payment processor in real time. See [Secure Acceptance Transaction Flow \(on page 13\)](#).
3. Use the response information to display an appropriate transaction response page to the customer. You can view and manage all orders in the Business Center. See [Viewing Transactions in the Business Center \(on page 90\)](#).

Required Browsers

You must use one of these browsers in order to ensure that the Secure Acceptance checkout flow is fast and secure.

Desktop browsers:

- Internet Explorer 10 or later
- Edge 13 or later
- Firefox 42 or later
- Chrome 48 or later
- Safari 7.1 or later
- Opera 37 or later

Mobile browsers:

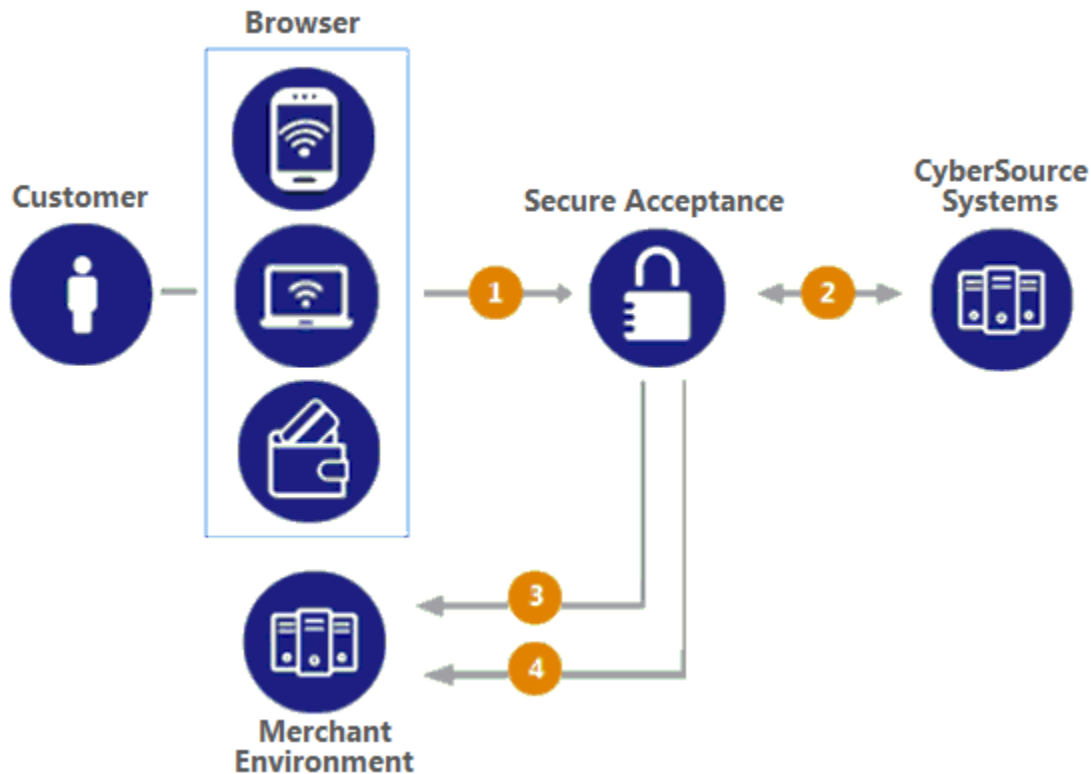
- iOS Safari 7.1 or later
- Android Browser 4.4 or later
- Chrome Mobile 48 or later

Secure Acceptance Profile

A Secure Acceptance profile consists of settings that you configure to create a customer checkout experience. You can create and edit multiple profiles, each offering a custom checkout experience. See [Custom Checkout Appearance \(on page 36\)](#). For example, you might need multiple profiles for localized branding of your websites. You can display a multi-step checkout process or a single page checkout to the customer as well as configure the appearance and branding, payment options, languages, and customer notifications. See [Checkout Configuration \(on page 28\)](#).

Secure Acceptance Transaction Flow

Hosted Checkout Integration Transaction Flow



1. The customer clicks the pay button on your website, which triggers an HTTPS POST that directs the customer to the hosted Secure Acceptance page that you configured in the Business Center. The HTTPS POST includes the signature and signed data fields containing the order information.

Hosted Checkout Integration works best with JavaScript and cookies enabled in the customer browser.



Warning: Your system should sign all request fields with the exception of fields that contain data the customer is entering. To prevent malicious actors from impersonating Cybersource, do not allow unauthorized access to the signing function. See [Required Signed Fields \(on page 71\)](#).

2. Secure Acceptance verifies the signature to ensure that the order details were not amended or tampered with and displays the Hosted Checkout Integration page. The customer enters and submits payment details and their billing and shipping information. The customer confirms the payment, and the transaction is processed.
3. Cybersource recommends that you configure a custom receipt page in the Business Center so that the signed transaction response is sent back to your merchant server through the browser. See [Merchant Notifications \(on page 31\)](#). You must validate the response signature

to confirm that the response data was not amended or tampered with. Hosted Checkout Integration can also display a standard receipt page to your customer, and you can verify the result of the transaction search in the Business Center or the standard Cybersource reports.



Warning: If the response signature in the response field does not match the signature calculated based on the response data, treat the POST as malicious and disregard it. Secure Acceptance signs every response field. Ignore any response fields in the POST that are not in the **signed_fields** field.

4. Cybersource recommends that you implement the merchant POST URL notification as a backup means of determining the transaction result. This method does not rely on your customer's browser. You receive the transaction result even if your customer lost connection after confirming the payment. See [Merchant Notifications \(on page 31\)](#).

If the transaction type is sale, it is immediately submitted for settlement. If the transaction type is [authorization](#), use the Cybersource Simple Order API to submit a capture request when goods are shipped.

Payment Tokens



Important: Contact Cybersource Customer Support to activate your merchant account for the Token Management Service (TMS). You cannot use payment tokens until your account is activated and you have enabled payment tokens for Secure Acceptance. See [Creating a Secure Acceptance Profile \(on page 18\)](#).

Payment tokens are unique identifiers that replace sensitive payment information and that cannot be mathematically reversed. Cybersource securely stores all the card information, replacing it with the payment token. The token is also known as a subscription ID, which you store on your server.

The payment tokenization solution is compatible with the Visa and Mastercard Account Updater service. Card data stored with Cybersource is automatically updated by participating banks, thereby reducing payment failures. See the *Account Updater User Guide* ([PDF](#) | [HTML](#)).

The payment token replaces the card or electronic check bank account number, and optionally the associated billing, shipping, and card information. No sensitive card information is stored on your servers, thereby reducing your PCI DSS obligations.

Tokens That Represent a Card or Bank Account Only

Instrument identifier tokens created using the Token Management Service (TMS) and third-party tokens represent a payment card number or bank account number. The same card number or bank account number sent in multiple token creation calls results in the same payment token being returned. TMS instrument identifier and third-party tokens cannot be updated. If your merchant account is configured for one of these token types, you receive an error if you attempt to update a token.

When using Secure Acceptance with tokens that represent only the card number or bank account, you must include associated data, such as expiration dates and billing address data, in your transaction request.

One-Click Checkout

With *one-click checkout*, customers can buy products with a single click. Secure Acceptance is integrated to Cybersource tokenization, so returning customers are not required to enter their payment details. Before a customer can use one-click checkout, they must create a payment token during the first transaction on the merchant website. See [Payment Token Transactions \(on page 75\)](#). The payment token is an identifier for the payment details; therefore, no further purchases require that you enter any information. When the payment token is included in a payment request, it retrieves the card, billing, and shipping information related to the original payment request from the payment repository.

To use one-click checkout, you must include the one-click checkout endpoint to process the transaction. See [Endpoints and Transaction Types \(on page 69\)](#).

Subscription Payments

A customer subscription contains information that you store in the Cybersource database and use for future billing. At any time, you can send a request to bill the customer for an amount you specify, and Cybersource uses the payment token to retrieve the card, billing, and shipping information to process the transaction. You can also view the customer subscription in the Business Center. See [Viewing Transactions in the Business Center \(on page 90\)](#).

A customer subscription includes:

- Customer contact information, such as billing and shipping information.
- Customer payment information, such as card type, masked account number, and expiration date.
- Customer order information, such as the transaction reference number and merchant-defined data fields.

Subscription Types

Type of Subscription	Description
Recurring	A recurring billing service with no specific end date. You must specify the amount and frequency of each payment and the start date for processing the payments. Cybersource creates a schedule based on this information and automatically bills the customer according to the schedule. For example, you can offer an online service that the customer subscribes to and can charge a monthly fee for this service. See "Recurring Payments" (on page 79) .
Installment	A recurring billing service with a fixed number of scheduled payments. You must specify the number of payments, the amount and frequency of each payment, and the start date for processing the payments. Cybersource creates a schedule based on this information and automatically bills the customer according to the schedule. For example, you can offer a product for 75.00 and let the customer pay in three installments of 25.00. See "Installment Payments" (on page 81) .

Level II and III Data

Secure Acceptance supports Level II and III data. Level II cards, also known as Type II cards, provide customers with additional information on their payment card statements. Business and corporate cards along with purchase and procurement cards are considered Level II cards.

Level III data can be provided for purchase cards, which are payment cards used by employees to make purchases for their company. You provide additional detailed information—the Level III data—about the purchase card order during the settlement process. The Level III data is forwarded to the company that made the purchase, and it enables the company to manage its purchasing activities.

For detailed descriptions of each Level II and Level III field, see *Level II and Level III Processing Using Secure Acceptance* ([PDF](#) | [HTML](#)). This guide also describes how to request sale and capture transactions.

Payouts Payment Tokens

Use Secure Acceptance to create a payment token that can be used with the Payouts API or batch submissions.

Creating a Payment Token for Payouts

1. Create a Secure Acceptance Profile and define your checkout page. See [Payment Configuration \(on page 18\)](#) or [Portfolio Management for Resellers \(on page 44\)](#).
2. For transaction processing, create a payment token. See ["Payment Tokens" \(on page 72\)](#).
3. Set the Payouts subscription ID field to the value of the payment token.

See the [Payouts Developer Guides](#).

Go-Live with Secure Acceptance

Cybersource recommends that you submit all banking information and required integration services before going live. Doing so will speed up your merchant account configuration.

When you are ready to implement Secure Acceptance in your live environment, you must contact Cybersource Customer Support and request Go-Live. When all the banking information has been received by Cybersource, the Go-Live procedure can require three days to complete. Go-Live implementations do not occur on Fridays.

Payment Configuration

Creating a Secure Acceptance Profile

Contact Cybersource Customer Support to enable your account for Secure Acceptance. You must activate a profile in order to use it. See [Activating a Profile \(on page 42\)](#).

1. Log in to the Business Center:
 - **Production:** <https://businesscenter.cybersource.com>
 - **Production in India:** <https://businesscenter.in.cybersource.com>
 - **Test:** <https://businesscentertest.cybersource.com>
2. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
3. Click **New Profile**. The Create Profile page appears.
4. Enter or verify these profile details.

Profile Details

Profile Detail	Description
Profile Name	The Secure Acceptance profile name is required and cannot exceed 40 alphanumeric characters.
Profile Description	The profile description cannot exceed 255 characters.
Integration Method	Check Hosted Checkout Integration .
Company Name	The company name is required and cannot exceed 40 alphanumeric characters.
Company Contact Name	Enter company contact information: name, email, and phone number.
Company Contact Email	
Company Phone Number	
Payment Tokenization	Check Payment Tokenization . For more information, see Payment Transactions (on page 69) .
Decision Manager	Check Decision Manager . For more information, see Decision Manager (on page 88) .

Profile Detail	Description
Verbose Data	Check Verbose Data . For more information, see Decision Manager (on page 88) .
Generate Device Fingerprint	Check Generate Device Fingerprint . For more information, see Decision Manager (on page 88) .

5. Click **Submit**.

Payment Method Configuration

You must configure at least one payment method before you can activate a profile.

A payment method selection page is displayed as part of the checkout process for any of these scenarios:

- Multiple payment methods are enabled for the profile, and no **payment_method** field is included in the request.
- **payment_method=visacheckout** is included in the request.
- Visa Click to Pay is the only enabled payment method for the profile. See [Enabling the Payment Method for Visa Click to Pay \(on page 24\)](#).



Important: Visa Click to Pay uses Visa Checkout services and API fields.

You can skip displaying the payment method selection page by specifying card or echeck as the only available payment method. See [Enabling Echecks \(on page 22\)](#).

Customers can change the payment method during the checkout process.

Adding Card Types and Currencies

For each card type you choose, you can also manage currencies and payer authentication options. Choose only the types of payment cards and currencies that your merchant account provider authorizes.

The card verification number (CVN) is a three- or four-digit number that helps ensure that the customer possess the card at the time of the transaction.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Click **Add Card Types**. The list of card types appear.
5. Check each card type that you want to offer to the customer as a payment method. Your payment processor must support the card types.
6. Click the settings icon for each card type. The card settings and currencies lists appear.
7. Check **CVN Display** to display the CVN field on Secure Acceptance. The customer decides whether to enter the CVN. Cybersource recommends that you display the CVN to reduce fraud.
8. Check **CVN Required**. The CVN Display option must also be checked. If this option is checked, the customer is required to enter the CVN. Cybersource recommends that you require the CVN to reduce fraud.
9. Check **Payer Authentication**.
10. Check the currencies for each card.
By default, all currencies are listed as disabled. You must select at least one currency. Contact your merchant account provider for a list of supported currencies. If you select the Elo or Hipercard card type, only the Brazilian real currency is supported.
11. Click **Submit**. The card types are added as an accepted payment type.
12. Click **Save**.

Payer Authentication Configuration

Payer Authentication is the Cybersource implementation of 3-D Secure. It prevents unauthorized card use and provides added protection from fraudulent chargeback activity. Secure Acceptance supports 3-D Secure 1.0 and 2.0.

Before you can use Payer Authentication, you must contact Customer Support to configure your account. Your merchant ID must be enabled for payer authentication. For more information about payer authentication, see the [Payer Authentication Developer Guides](#).

For Secure Acceptance, Cybersource supports these kinds of payer authentication:

- American Express SafeKey
- China UnionPay (3-D Secure 2.0 only)
- Diners ProtectBuy
- J/Secure by JCB
- Mastercard Identity Check
- Visa Secure

For each transaction, you receive detailed information in the replies and in the transaction details page of the Business Center. You can store this information for 12 months. Cybersource recommends that you store the payer authentication data because you can be required to display this information as enrollment verification for any payer authentication transaction that you present again because of a chargeback.

Your merchant account provider can require that you provide all data in human-readable format.

The language used on each payer authentication page is determined by your issuing bank and overrides the locale you have specified. If you use the test card numbers for testing purposes the default language used on the payer authentication page is English and overrides the locale you have specified. See [Test and View Transactions \(on page 90\)](#).

Configuring Payer Authentication

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Choose a 3-D Secure version. If you choose 3-D Secure 2.0 and the card issuer is not 3-D Secure 2.0 ready, some transactions might still authenticate over 3-D Secure 1.0. The **payer_authentication_specification_version** response field indicates which version was used.
5. Click **Save**. The card types that support payer authentication are:
 - American Express
 - Cartes Bancaires
 - China UnionPay

- Diners Club
- JCB
- Mastercard
- Maestro (UK Domestic or International)
- Visa

Enabling Automatic Authorization Reversals

For transactions that fail to return an Address Verification System (AVS) or a Card Verification Number (CVN) match, you can enable Secure Acceptance to perform an automatic authorization reversal. An automatic reversal releases the reserved funds held against a customer's card.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Fails AVS check**. Authorization is automatically reversed on a transaction that fails an AVS check.
5. Check **Fails CVN check**. Authorization is automatically reversed on a transaction that fails a CVN check.
6. Click **Save**.



Important: When the AVS and CVN options are disabled and the transaction fails an AVS or CVN check, the customer is notified that the transaction was accepted. You are notified to review the transaction details. See [Types of Notifications \(on page 210\)](#).

Enabling Echecks

An echeck is a payment made directly from your customer's U.S. or Canadian bank account. As part of the checkout process, you must display a terms and conditions statement for echecks. For more information, see the [TeleCheck activation guide](#).

A customer must accept the terms and conditions before submitting an order. Within the terms and conditions statement it is recommended that you include a link to the table of returned item fees. The table lists by state the amount that your customer has to pay when a check is returned.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Enable Echeck Payments**. The list of account types appears.
5. Check the account type(s):
 - Checking
 - Savings
 - Corporate Checking
 - General Ledger
6. Click **Add Currencies**. The echeck settings page appears.
7. Check **Select All** or check each currency.
8. Click **Save**.

You must configure the echeck information fields. See [Configuring Echeck Information Fields \(on page 30\)](#).

Visa Click to Pay Configuration

You must enroll in Visa Click to Pay and create a Visa Click to Pay profile before you can enable it as a payment method. See *Getting Started with Visa Click to Pay* ([PDF](#) | [HTML](#)). Only the authorization and sale transaction types are supported for Visa Click to Pay transactions.



Important: Visa Click to Pay uses Visa Checkout services and API fields.

The payment methods selection page is displayed as part of the checkout process for these scenarios:

- Multiple payment methods are enabled for the profile, and no **payment_method** field is included in the request.
- Visa Click to Pay is the only enabled payment method for the profile.
- **payment_method=visacheckout** is included in the request.

Visa Click to Pay requires the customer to enter only a username and password to pay for goods. It eliminates the need to enter account, shipping, and billing information. The customer logs in to their Visa Click to Pay account and chooses the card with which they would like to pay. If the Secure Acceptance profile is enabled to request the payer authentication service for a specific card type, the customer is redirected to the relevant payer authentication screen before Secure Acceptance processes the transaction and redirects the customer to your website.

Configuring Visa Click to Pay

1. In the left navigation panel, choose **Payment Configuration > Digital Payment Solutions**. The Digital Payment Solutions page appears.
2. Click **Configure**. The Visa Merchant Services Agreement appears.
3. Review the Visa Click to Pay Services Agreement, then click **Agree and Create Account**. The Visa Click to Pay Configuration panel opens to the Merchant Configuration section.
4. Enter your payment details.
5. Click **Submit**.

Enabling the Payment Method for Visa Click to Pay

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Enable Visa Click to Pay**.
5. Enter the name of the Visa Click to Pay profile to be used. If no profile name is entered, the default Visa Click to Pay profile is used.
6. Check the card types to request the payer authentication service for:
 - Visa—the Visa Secure service is requested.
 - Mastercard—the Mastercard Identity Check service is requested.
 - American Express—the American Express SafeKey service is requested.

See [Payer Authentication Configuration \(on page 20\)](#).

7. Indicate when to reject transactions based on a certain criterion:

- Billing address details are incorrect (AVS fail).
- Security code is incorrect (CVV/CVN fail).
- The Visa Click to Pay risk score is above your specified score. Select the risk score to use with your fraud model. A value of 0 indicates that a risk score will not be taken into account, and a higher risk score indicates a higher perceived fraud risk.

8. Click **Save**.

Enabling PayPal Express Checkout

PayPal Express Checkout is not supported on a Secure Acceptance iframe integration.

Contact Cybersource Customer Support to have your account configured for this feature. You must also create a PayPal business account. See *PayPal Express Checkout Services Using the SCMP API* ([PDF](#) | [HTML](#)) or *PayPal Express Checkout Services Using the Simple Order API* ([PDF](#) | [HTML](#)).

Add the PayPal Express Checkout payment method to the Hosted Checkout Integration payment methods selection page. Redirect the customer to their PayPal account login. When logged in to their PayPal account they can review orders and edit shipping or payment details before completing transactions.

The payment methods selection page is displayed as part of the checkout process when multiple payment methods are enabled for the profile and no **payment_method** field is included in the request. If you include **payment_method=paypal** in the request, the payment methods selection page is not displayed, and the customer is redirected to PayPal.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Enable PayPal Express Checkout**.
5. Check **Allow customers to select or edit their shipping address within PayPal** to allow customers to edit the shipping address details that they provided in the transaction request to Secure Acceptance. Customers select a new address or edit the address when they are logged in to their PayPal account.
6. When the transaction type is authorization, check one of these options:

- **Request a PayPal authorization and include the authorization response values in the response**—check this option to create and authorize the PayPal order.



Important: The customer funds are not captured using this option. You must request a PayPal capture; see the PayPal guide. If the transaction type is [sale](#), Secure Acceptance authorizes and captures the customer funds.

- **Request a PayPal order setup and include the order setup response values in the response**—check this option to create the PayPal order.



Important: The customer funds are not authorized or captured using this option. You must request a PayPal authorization followed by a PayPal capture request; see the PayPal guide. If the transaction type is [sale](#), Secure Acceptance authorizes and captures the customer funds.

7. Click **Save**.

Security Keys

Before you can activate a profile, you must create a security key to protect each transaction from data tampering. A security key expires in two years.

You cannot use the same security key for both test and production transactions. You must download a security key for each version of Secure Acceptance for test and production.

- **Test:** <https://businesscentertest.cybersource.com>
- **Production:** <https://businesscenter.cybersource.com>
- **Production in India:** <https://businesscenter.in.cybersource.com>

On the Profile Settings page, click **Security**. The Security Keys page appears. The security script signs the request fields using the secret key and the HMAC SHA256 algorithm. To verify data, the security script generates a signature to compare with the signature returned from the Secure Acceptance server.

Creating Security Keys

1. Log in to the Business Center.
2. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
3. Choose a profile. The General Settings page appears.
4. Click **Security**. The security keys page appears.
5. Click the Create Key plus sign (+).
6. Enter a key name (required).
7. Choose signature version 1 (default).
8. Choose signature method **HMAC-SHA256** (default).
9. Click **Create**.
10. Click **Confirm**. The Create New Key window expands and displays the new access key and secret key. This panel closes after 30 seconds.
11. Copy and save or download the access key and secret key.
 - Access key: Secure Sockets Layer (SSL) authentication with Secure Acceptance. You can have many access keys per profile. See [Scripting Language Samples \(on page 68\)](#).
 - Secret key: signs the transaction data and is required for each transaction. Copy and paste this secret key into your security script. See [Scripting Language Samples \(on page 68\)](#).



Important: When done pasting the secret keys into your script, delete the copied keys from your clipboard or cached memory.

By default, the new security key is active. The other options for each security key are:

- Deactivate: deactivates the security key. The security key is inactive.
- Activate: activates an inactive security key.
- View: displays the access key and security key.

When you create a security key, it is displayed in the security keys table. You can select a table row to display the access key and the secret key for that specific security key.

Checkout Configuration

The payment form is the customer's checkout experience. It consists of either a series of pages or as a single checkout page in which the customer enters or reviews information before submitting a transaction. Select the fields that you want displayed on the single checkout page or on each page of the multi-step checkout process: billing, shipping, payment, and order review.

Configuring the Payment Form

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Choose the payment form flow:
 - **Multi-step payment form**—the checkout process consists of a sequence of pages on which the customer enters or reviews information before submitting a transaction. The default sequence is payment selection (if multiple payment methods are enabled), billing, shipping, payment, review, and receipt.
 - **Single page form**—the checkout process consists of one page on which the customer enters or reviews information before submitting a transaction.

Do not click **Save** until you have selected the billing or shipping fields, or both.

5. Check **Display the total tax amount in each step of the checkout process**.

The total tax amount must be included in each transaction. Calculate and include the total tax amount in the **tax_amount** field.

Do not click **Save** until you have selected the billing or shipping fields, or both.

6. Click **Save**.

Configuring Billing Information Fields



Important: Select the billing information fields that your merchant provider requires. If the billing country is U.S. or Canada, you can select the state code field as a required field. Cybersource recommends that if the billing country is U.S. or Canada, the state code and the postal code fields be selected as required. If the billing country is located in the rest of the world, you can also select the state code field as a required field.

Select the customer billing information fields that you want displayed on Secure Acceptance. If these fields are captured at an earlier stage of the order process (for example on your website), they can be passed into Secure Acceptance as hidden form fields. See [Request Fields \(on page 93\)](#). You can shorten the checkout process by not selecting billing information.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check **Billing Information**. The billing information fields appear.
5. Check the billing information fields that your merchant provider requires. The options for each field are:
 - Display: the customer can view the information displayed in this field. Choose this option if you want to pre-populate the billing information fields when the Secure Acceptance Hosted Checkout is rendered—these fields must be passed into Secure Acceptance as hidden form fields.
 - Edit: the customer can view and edit the billing information on the Secure Acceptance Hosted Checkout. When you select this option, the display option is automatically selected.
 - Require: the customer is required to enter the billing information on the Secure Acceptance Hosted Checkout before they submit the transaction. When you select this option, all other options are automatically selected.

Do not click **Save** until you have selected the billing and order review fields.

6. Indicate whether to mask sensitive fields.
7. Click **Save**.

Configuring Shipping Information Fields

Select the shipping information fields that your merchant provider requires.

Select the customer shipping information fields that you want displayed on Secure Acceptance. These fields are optional. If you do not add these fields, the shipping information step is removed from Secure Acceptance. If these fields are captured at an earlier stage of the order process (for example, on your website), they can be passed into Secure Acceptance as hidden form fields. See [Request Fields \(on page 93\)](#). You can shorten the checkout process by not selecting shipping information.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check **Shipping Information**.
5. Check the shipping information fields that your merchant provider requires. The options for each field are:
 - Display: the customer can view the information displayed in this field. Choose this option if you want to pre-populate the shipping information fields when the Secure Acceptance Hosted Checkout is rendered—these fields must be passed into Secure Acceptance as hidden form fields.
 - Edit: the customer can view and edit the shipping information on the Secure Acceptance Hosted Checkout. When you select this option, the display option is automatically selected.
 - Require: the customer is required to enter the shipping information on the Secure Acceptance Hosted Checkout before they submit the transaction. When you select this option, all other options are automatically selected.

Do not click **Save** until you have selected the shipping and order review fields.

6. Indicate whether to mask sensitive fields.
7. Click **Save**.

Configuring Echeck Information Fields

Select the echeck account information fields that your merchant provider requires.

Select the customer echeck account information fields that you want displayed on Secure Acceptance.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check the echeck account information to be included in Secure Acceptance. The options for each field are:

- **Display:** the customer can view the information displayed in this field. Choose this option if you want to pre-populate the echeck information fields when the Secure Acceptance Hosted Checkout is rendered.
 - **Edit:** the customer can view and edit the echeck information on the Secure Acceptance Hosted Checkout. When you select this option, the display option is automatically selected.
 - **Require:** the customer is required to enter the echeck information on the Secure Acceptance Hosted Checkout before they submit the transaction. When you select this option, all other options are automatically selected.
5. Indicate whether to mask sensitive fields.
 6. Click **Save**.

Configuring Order Review Details

Select the fields that you want displayed on the Order Review page of the Secure Acceptance checkout. The customer reviews this information before submitting a transaction.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check the fields that you want displayed on the Order Review page of Secure Acceptance Hosted Checkout. The options for each field are:
 - **Display:** the customer can view the information contained in this field. Available only for billing and shipping information.
 - **Edit:** the customer can view and edit the information contained in this field.
5. Click **Save**.

Merchant Notifications

Secure Acceptance sends merchant and customer notifications in response to transactions. You can receive a merchant notification by email or as an HTTPS POST to a URL for each transaction processed. Both notifications contain the same transaction result data.

Ensure that your system acknowledges POST notifications (even when under load) as quickly as possible. Delays of more than 10 seconds might result in delays to future POST notifications.



Important: Cybersource recommends that you implement the merchant POST URL to receive notification of each transaction. Parse the transaction response sent to the merchant POST URL and store the data within your order management system. This ensures the accuracy of the transactions and informs you when the transaction was successfully processed.

Configuring Merchant Notifications

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Notifications**. The Notifications page appears.
4. Choose a merchant notification in one of two ways:

- Check **Merchant POST URL**. Enter the HTTPS URL.

Cybersource sends transaction information to this URL. For more information, see [Response Fields \(on page 159\)](#). Only an HTTPS URL supporting TLS 1.2 or higher should be used for the merchant POST URL. If you encounter any problems, contact Cybersource Customer Support.

- Check **Merchant POST Email**. Enter your email address.

Cybersource sends transaction response information to this email address including payment information, return codes, and all relevant order information. See [Response Fields \(on page 159\)](#).

5. Choose the card number digits that you want displayed in the merchant or customer receipt:
 - Return payment card BIN: displays the card's Bank Identification Number (BIN), which is the first six digits of the card number. All other digits are masked: 123456xxxxxxxxxx
 - Return last four digits of payment card number: displays the last four digits of the card number. All other digits are masked: xxxxxxxxxxxx1234
 - Return BIN and last four digits of payment card number: displays the BIN and the last four digits of the card number. All other digits are masked: 123456xxxxxx1234
6. Click **Save**.

Customer Receipts

You can send a purchase receipt email to your customer and a copy to your own email address. Both are optional. Customers can reply with questions regarding their purchases, so use an active email account. The email format is HTML unless your customer email is rich text format (RTF).

Configuring Customer Notifications

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Notifications**. The Notifications page appears.
4. Check **Email Receipt to Customer**.
5. Enter the sender email address to be displayed on the customer receipt. The customer will reply to this email with any queries.
6. Enter the sender name of your business. It is displayed on the customer receipt.
7. Check **Send a copy to**. This setting is optional.
8. Enter your email address to receive a copy of the customer's receipt.
Your copy of the customer receipt will contain additional transaction response information.
9. Check **Display Notification Logo**.
10. Click **Upload Company Logo**. Find and upload the image that you want to display on the customer receipt and email.

The image file must not exceed 840 (width) x 60 (height) pixels and must be GIF, JPEG, or PNG. The logo filename must not contain any special characters, such as a hyphen (-).

11. Check **Custom Email Receipt**.
Cybersource recommends that you implement a DNS configuration to enable Cybersource to send email receipts on your behalf.
12. Check the type of email receipt you want to send to a customer:
 - Standard email receipt: this email is automatically translated based on the locale used for the transaction.
 - Custom email receipt: this email can be customized with text and data references. The email body section containing the transaction detail appears between the header and footer. Custom text is not translated when you use different locales.

13. Check **Custom Email Subject** and enter up to 998 characters. When the maximum number of characters is exceeded, the subject heading defaults to *Order Confirmation*.

You can insert email smart tags in the email subject, header, and footer sections to include specific information. Select each smart tag from the drop-down list and click Insert.

14. Click **Save**.

Customer Response Page

You must configure the customer response page before you can activate a profile.

You can choose to have a transaction response page displayed to the customer at the end of the checkout process, and a cancel response page displayed during the checkout process. Enter a URL for your own customer response page, or use the Cybersource hosted response pages. Depending upon the transaction result, the Cybersource hosted response pages are Accept, Decline, or Error. Review declined orders as soon as possible because you might be able to correct problems related to address or card verification, or you might be able to obtain a verbal authorization. You can also choose to display a web page to the customer after the checkout process is completed.

Configuring a Cybersource Hosted Response Page

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Transaction Response Page heading, check **Hosted by Cybersource**.
5. Under the Transaction Response Message heading, choose a number from the **Retry Limit** drop-down list. The maximum number of times a customer can retry a declined transaction is five.
6. Under the Customer Redirect after Checkout heading, enter the redirect URL of the web page. This web page is displayed to the customer after the checkout process is completed.
7. Click **Save**. The Profile Settings page appears.

Configuring a Custom Hosted Response Page

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Transaction Response Page heading, check **Hosted by You**.
5. Enter the URL for your customer response page. Use port 80, 443, or 8080 in your URL. Only port 443 should be used with a HTTPS URL.

A POST request with the transaction data is provided to this URL after the customer completes checkout.

The POST request contains the reason code value of the transaction, which helps you determine possible actions to take on the transaction.

See [Reason Codes \(on page 206\)](#).

6. Under the Transaction Response Message heading, choose a number from the **Retry Limit** drop-down list. The maximum number of times a customer can retry a declined transaction is 5.
7. Under the Customer Redirect after Checkout heading, enter the redirect URL of the web page. This web page is displayed to the customer after the checkout process is completed.
8. Click **Save**.

Configuring a Custom Cybersource Hosted Response Page

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Custom Cancel Response Page heading, check **Hosted by Cybersource**.
5. Click **Save**.

Configuring a Custom Cancel Response Page

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Custom Cancel Response Page heading, check **Hosted by You**.
5. Enter the URL for your customer response page. Use port 80, 443, or 8080 in your URL. Only port 443 should be used with a HTTPS URL.

A POST request with the transaction data is provided to this URL after the customer completes checkout.

The POST request contains the reason code value of the transaction, which helps you determine possible actions to take on the transaction.

See [Reason Codes \(on page 206\)](#).

6. Click **Save**.

Custom Checkout Appearance

Customize the appearance and branding of the Secure Acceptance checkout pages by choosing a background color, font, and text color. Upload a logo or image, and align it within the header or footer.

Cybersource recommends that you preview your changes in the Image Preview window.

To display an image as the header banner of the payment form, the image dimensions must not exceed 840 (width) x 60 (height) pixels and the image size must not exceed 100 kB. To display a small logo within the header banner, the logo height must not exceed 60 pixels. The image file must be GIF, JPEG, or PNG.

Changing the Header Content

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.

4. Check **Display Header**.
5. Click the header color icon.
6. Choose a color in one of two ways:
 - Enter a hexadecimal value for the header color of the payment form.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
7. Click **Browse** to upload the image to display as the header banner or as a logo within the header banner.
8. Choose the alignment option for the image or logo: left-aligned, centered, or right-aligned.
9. Click **Save**.

Changing the Body Color and Font Settings

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a background color for the main body in one of two ways:
 - Enter a hexadecimal value for the background color.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
5. Select a text font from the drop-down list.
6. Choose a text color in one of two ways:
 - Enter a hexadecimal value for the text color.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
7. Click **Save**.
8. Click **Set to Default** to restore all the default settings on this page.

Changing the Total Amount Background and Text Color



Important: If you are implementing the iframe embedded version, the total amount figure is not displayed within the iframe. Any settings you select below are ignored.

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a background color in one of two ways:
 - Enter a hexadecimal value for the background color.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
5. Choose a text color in one of two ways:
 - Enter a hexadecimal value for the text color of the total amount.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
6. Click **Save**.
7. Click **Set to Default** to restore all the default settings on this page.

Changing the Progress Bar Color

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a color in one of two ways:

- Enter a hexadecimal value for the color of the progress bar.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
5. Click **Save**.
 6. Click **Set to Default** to restore all the default settings on this page.

Changing the Color and Text on the Pay or Finish Button

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a background color of the pay or the finish button in one of two ways:
 - Enter a hexadecimal value for the background color.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
5. Choose a color of the pay or the finish button text in one of two ways:
 - Enter a hexadecimal value for the text.
 - Click within the header color palette to choose a color. Click the icon at the bottom right to confirm your selection.
6. Check **Change Button text**. A text box appears for the pay button.
7. Enter the text you want displayed on the pay button. This button text is required.
8. Enter the text you want displayed on the finish button. This button text is required.
9. Click **Save**.
10. Click **Set to Default** to restore all the default settings on this page.

Changing the Footer Color and Uploading a Small Logo or Image

1. In the left navigation panel, choose **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Check **Display Footer**.
5. Choose a color in one of two ways:
 - Enter a hexadecimal value for the footer color of the payment form.
 - Click within the header color palette to choose a color. Click the color icon to confirm your selection.
6. Click **Browse** to upload a footer logo. Upload the image that you want displayed within the footer of the payment form.
To display a small logo or image in the footer of the payment form, the file must not exceed 840 (width) x 60 (height) pixels. The image file must be GIF, JPEG, or PNG.
7. Choose the alignment option for the image: left-aligned, centered, or right-aligned.
8. Click **Save**.
9. Click **Set to Default** to restore all the default settings on this page.

Checkout Language Localization

Secure Acceptance supports multiple languages. This table lists all the supported languages and the locale code that you must include in your payment form.

From the list, include the locale code in the **locale** request field on your payment form. See [Sample Transaction Process Using JSP \(on page 68\)](#).

Example: American English

```
<input type="hidden" name="locale" value="en-us">
```

Locale Codes

Language	Locale Code
Arabic	ar-xn
Catalan	ca-es

Locale Codes (continued)

Language	Locale Code
Chinese—Hong Kong	zh-hk
Chinese—Macau	zh-mo
Chinese—Mainland	zh-cn
Chinese—Singapore	zh-sg
Chinese—Taiwan	zh-tw
Croatian	hr-hr
Czech	cs-cz
Danish	da-dk
Dutch	nl-nl
English—United States of America	en-us
English—Australia	en-au
English—Great Britain	en-gb
English—Canada	en-ca
English—Ireland	en-ie
English—New Zealand	en-nz
Finnish	fi-fi
French	fr-fr
French—Canada	fr-ca
German	de-de
German—Austria	de-at
Greek	el-gr
Hebrew	he-il
Hungary	hu-hu
Indonesian	id-id
Italian	it-it
Japanese	ja-jp
Korean	ko-kr
Lao People's Democratic Republic	lo-la
Malaysian Bahasa	ms-my

Locale Codes (continued)

Language	Locale Code
Norwegian (Bokmal)	nb-no
Philippines Tagalog	tl-ph
Polish	pl-pl
Portuguese—Brazil	pt-br
Russian	ru-ru
Slovakian	sk-sk
Spanish	es-es
Spanish—Argentina	es-ar
Spanish—Chile	es-cl
Spanish—Colombia	es-co
Spanish—Mexico	es-mx
Spanish—Peru	es-pe
Spanish—United States of America	es-us
Swedish	sv-se
Thai	th-th
Turkish	tr-tr
Vietnamese	vi-vn

Activating a Profile

You must complete the required settings described in each of these sections before you can activate a profile:

- [Payment Method Configuration \(on page 19\)](#)
- [Security Keys \(on page 26\)](#)
- [Customer Response Page \(on page 34\)](#)

1. On the left navigation pane, click the **Payment Configuration > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
2. Perform one of these steps:
 - On the Active Profiles tab, select the profile that you want to activate, and click the **Promote Profile** icon.
 - On the Edit Profile page, click the **Promote Profile** icon.
3. Click **Confirm**.

Additional Profile Options

- **Deactivate**—deactivates the active profile. The profile is now listed in the inactive profile list. This option is available only for an active profile.
- **Create Editable Version**—duplicates the active profile and creates an editable version. The editable version is listed in the inactive profile list. This option is available only for an active profile.
- **Promote to Active**—activates the inactive profile. This option is available only for an inactive profile.

Portfolio Management for Resellers

Reseller: Creating a Secure Acceptance Profile

Contact Cybersource Customer Support to enable your account for Secure Acceptance. You must activate a profile in order to use it. See [Activating a Profile \(on page 42\)](#).

1. Log in to the Business Center:
 - Production: <https://businesscenter.cybersource.com>
 - Production in India: <https://businesscenter.in.cybersource.com>
 - Test: <https://businesscentertest.cybersource.com>
2. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Settings**. The Secure Acceptance Settings page appears.
3. Click **New Profile**. The Create Profile page appears.
4. Enter or verify these profile details.

Profile Details

Profile Detail	Description
Profile Name	The Secure Acceptance profile name is required and cannot exceed 40 alphanumeric characters.
Profile Description	The profile description cannot exceed 255 characters.
Integration Method	Check Hosted Checkout Integration .
Company Name	The company name is required and cannot exceed 40 alphanumeric characters.
Company Contact Name	Enter company contact information: name, email, and phone number.
Company Contact Email	
Company Phone Number	
Payment Tokenization	Check Payment Tokenization . For more information, see Payment Transactions (on page 69) .
Decision Manager	Check Decision Manager . For more information, see Decision Manager (on page 88) .

Profile Detail	Description
Verbose Data	Check Verbose Data . For more information, see Decision Manager (on page 88) .
Generate Device Fingerprint	Check Generate Device Fingerprint . For more information, see Decision Manager (on page 88) .

5. Click **Submit**.

Payment Method Configuration

You must configure at least one payment method before you can activate a profile.

 **Important:** Visa Click to Pay uses Visa Checkout services and API fields.

A payment method selection page is displayed as part of the checkout process for any of these scenarios:

- Multiple payment methods are enabled for the profile, and no **payment_method** field is included in the request.
- **payment_method**=`visacheckout` is included in the request.
- Visa Click to Pay is the only enabled payment method for the profile. See [Reseller: Configuring Visa Click to Pay \(on page 50\)](#).

You can skip the payment method selection page by specifying card or echeck as the only available payment method. See [Reseller: Enabling Echecks \(on page 48\)](#).

Customers can change the payment method during the checkout process.

Reseller: Adding Card Types and Currencies

For each card type you choose, you can also manage currencies and payer authentication options. Choose only the types of payment cards and currencies that your merchant account provider authorizes.

The Card Verification Number (CVN) is a three- or four-digit number that helps ensure that the customer possesses the card at the time of the transaction.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Click **Add Card Types**. The list of card types appear.
5. Check each card type that you want to offer to the customer as a payment method. Your payment processor must support the card types.
6. Click **Settings** for each card type. The card settings and currencies lists appear.
7. Check CVN Display to display the CVN field on Secure Acceptance. The customer decides whether to enter the CVN. Cybersource recommends displaying the CVN to reduce fraud.
8. Check CVN Required. The CVN Display option must also be checked. If this option is checked, the customer is required to enter the CVN. Cybersource recommends requiring the CVN to reduce fraud.
9. Check the currencies for each card.



Important: By default, all currencies are listed as disabled. You must select at least one currency. Contact your merchant account provider for a list of supported currencies. If you select the Elo or Hipercard card type, only the Brazilian Real currency is supported.

10. Click **Submit**. The card types are added as an accepted payment type.
11. Click **Save**.

Payer Authentication Configuration

Payer authentication is the Cybersource implementation of 3-D Secure. It deters unauthorized card use and provides added protection from fraudulent chargeback activity. Secure Acceptance supports 3-D Secure 1.0 and 2.0.

Before you can use Cybersource Payer Authentication, you must contact Cybersource Customer Support so that Cybersource can configure your account. Your merchant ID must be enabled for payer authentication. For more information about payer authentication, see the [Payer Authentication Developer Guides](#).

For Secure Acceptance, Cybersource supports these kinds of payer authentication:

- American Express SafeKey
- China UnionPay (3-D Secure 2.0 only)
- Diners ProtectBuy
- J/Secure by JCB
- Mastercard Identity Check
- Visa Secure

For each transaction, you receive detailed information in the replies and in the transaction details page of the Business Center. You can store this information for 12 months. Cybersource recommends that you store the payer authentication data because you can be required to display this information as enrollment verification for any payer authentication transaction that you present again because of a chargeback.

Your merchant account provider can require that you provide all data in human-readable format.

The language used on each payer authentication page is determined by your issuing bank and overrides the locale that you specified. If you use the test card numbers, the default language used on the payer authentication page is English and overrides the locale you have specified. See [Test and View Transactions \(on page 90\)](#).

Reseller: Configuring Payer Authentication

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Choose the 3-D Secure version that you want to use. If you choose 3-D Secure 2.0 and the card issuer is not 3-D Secure 2.0 ready, some transactions might still authenticate over 3-D Secure 1.0. The **payer_authentication_specification_version** response field indicates which version was used.
5. Click **Save**. The card types that support payer authentication are:
 - American Express
 - Cartes Bancaires
 - China UnionPay
 - Diners Club
 - JCB

- Mastercard
- Maestro (UK Domestic or International)
- Visa

Reseller: Enabling Automatic Authorization Reversals

For transactions that fail to return an Address Verification System (AVS) or a Card Verification Number (CVN) match, you can enable Secure Acceptance to perform an automatic authorization reversal. An automatic reversal releases the reserved funds held against a customer's card.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Fails AVS check**. Authorization is automatically reversed on a transaction that fails an AVS check.
5. Check **Fails CVN check**. Authorization is automatically reversed on a transaction that fails a CVN check.
6. Click **Save**.



Important: When the AVS and CVN options are disabled and the transaction fails an AVS or CVN check, the customer is notified that the transaction was accepted. You are notified to review the transaction details. See [Types of Notifications \(on page 210\)](#).

Reseller: Enabling Echecks

An echeck is a payment made directly from your customer's U.S. or Canadian bank account. As part of the checkout process, you must display a terms and conditions statement for echecks. For more information, see the [TeleCheck activation guide](#).

A customer must accept the terms and conditions before submitting an order. Within the terms and conditions statement it is recommended to include a link to the table of returned item fees. The table lists by state the amount that your customer has to pay when a check is returned.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Enable Echeck Payments**. The list of account types appears.
5. Check the account type(s):
 - Checking
 - Savings
 - Corporate Checking
 - General Ledger
6. Click **Add Currencies**. The echeck settings page appears.
7. Check **Select All** or select a currency.
8. Click **Save**.

You must configure the echeck information fields. See [Reseller: Configuring Echeck Information Fields \(on page 56\)](#).

Visa Click to Pay Configuration

You must enroll in Visa Click to Pay and create a Visa Click to Pay profile before you can enable it as a payment method. See *Getting Started with Visa Click to Pay* ([PDF](#) | [HTML](#)). Only the authorization and sale transaction types are supported for Visa Click to Pay transactions.



Important: Visa Click to Pay uses Visa Checkout services and API fields.

The payment methods selection page is displayed as part of the checkout process for either of these scenarios:

- Multiple payment methods are enabled for the profile and no `payment_method` field is included in the request.
- Visa Click to Pay is the only enabled payment method for the profile.
- `payment_method=visacheckout` is included in the request.

Visa Click to Pay requires the customer to enter only a username and password to pay for goods. It eliminates the need to enter account, shipping, and billing information. The customer logs in to their Visa Click to Pay account and chooses the card with which they would like to pay. If the Secure Acceptance profile is enabled to request the payer authentication service for a specific card type, the customer is redirected to the relevant payer authentication screen before Secure Acceptance processes the transaction and redirects the customer to your website.

Reseller: Configuring Visa Click to Pay

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check Enable Visa Click to Pay.
5. Click **Save**.
6. In the left navigation panel, choose **Payment Configuration > Digital Payment Solutions**.
7. Click **Save**.

To configure the payment method for Visa Click to Pay, log in to the [Business Center](#) and go to **Configuring Visa Click to Pay**.

Reseller: Enabling PayPal Express Checkout

PayPal Express Checkout is not supported on a Secure Acceptance iframe integration.

Contact Cybersource Customer Support to have your Cybersource account configured for this feature. You must also create a PayPal business account; see *PayPal Express Checkout Services Using the SCMP API* ([PDF](#) | [HTML](#)) or *PayPal Express Checkout Services Using the Simple Order API* ([PDF](#) | [HTML](#)).

Add the PayPal Express Checkout payment method to the Secure Acceptance Hosted Checkout Integration payment methods selection page. Redirect the customer to their PayPal account login. When logged in to their PayPal account they can review orders and edit shipping or payment details before completing transactions.

The payment methods selection page is displayed as part of the checkout process when multiple payment methods are enabled for the profile and no **payment_method** field is included in the request. If you include **payment_method=paypal** in the request, the payment methods selection page is not displayed and the customer is redirected to PayPal.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Enable PayPal Express Checkout**.
5. Click **Save**.

Service Fees

Contact Cybersource Customer Support to have your Cybersource account configured for this feature. Service fees are supported only if Wells Fargo is your acquiring bank and FDC Nashville Global is your payment processor.

The service fee setting applies to the card and echeck payment methods. To apply the service fee to only one payment method, create two Secure Acceptance profiles with the appropriate payment methods enabled on each: one with the service fee feature enabled and one with the service fee feature disabled.

As part of the checkout process, you must display a terms and conditions statement for the service fee. A customer must accept the terms and conditions before submitting an order.

Reseller: Enabling Service Fees

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Settings**. The Payment Settings page appears.
4. Check **Service Fee applies on transactions using this profile**. The service fee terms and conditions URL and the service fee amount are added to the customer review page.



Warning: Transactions fail if you disable this feature. Do not disable this feature unless instructed to do so by your account manager.

5. Click **Save**.



Important: After you save the profile you cannot disable the service fee functionality for that profile. All transactions using the profile will include the service fee amount.

Security Keys

Before you can activate a profile, you must create a security key to protect each transaction from data tampering. A security key expires in two years.

You cannot use the same security key for both test and production transactions. You must download a security key for each versions of Secure Acceptance for test and production.

- **Test:** <https://businesscentertest.cybersource.com>
- **Production:** <https://businesscenter.cybersource.com>
- **Production in India:** <https://businesscenter.in.cybersource.com>

On the Profile Settings page, click **Security**. The Security Keys page appears. The security script signs the request fields using the secret key and the HMAC SHA256 algorithm. To verify data, the security script generates a signature to compare with the signature returned from the Secure Acceptance server. You must have an active security key to activate a profile.

Reseller: Creating Security Keys

1. In the left navigation panel, choose **Payment Configuration > Key Management**.
2. Click **Generate Key**.
3. Select a key type.
4. Click **Next Step**.
5. Select the key subtype **Secure Acceptance**.
6. Click **Next Step**.
7. Enter a key name (required).

8. Choose signature version **1**.
9. Choose signature method **HMAC-SHA256**.
10. Select a security profile.
11. Click **Submit**.
12. Click **Generate Key**. The Create New Key window expands and displays the new access key and secret key. This window closes after 30 seconds.
13. Copy and save the access key and secret key.
 - Access key: Secure Sockets Layer (SSL) authentication with Secure Acceptance. You can have many access keys per profile. See [Scripting Language Samples \(on page 68\)](#).
 - Secret key: signs the transaction data and is required for each transaction. Copy and paste this secret key into your security script. See [Scripting Language Samples \(on page 68\)](#).



Important: When done pasting the secret keys into your script, delete the copied keys from your clipboard or cached memory.

By default, the new security key is active. The other options for each security key are:

- Deactivate: deactivates the security key. The security key is inactive.
- Activate: activates an inactive security key.
- View: displays the access key and security key.

When you create a security key, it is displayed in the security keys table. You can select a table row to display the access key and the secret key for that specific security key.

14. Click **Key Management**. The Key Management page appears.

Checkout Configuration

The payment form is the customer's checkout experience. It consists of either a series of pages or as a single checkout page in which the customer enters or reviews information before submitting a transaction. Select the fields that you want displayed on the single checkout page or on each page of the multi-step checkout process: billing, shipping, payment, and order review.

Reseller: Configuring the Payment Form

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Choose the payment form flow:
 - Multi-step payment form—the checkout process consists of a sequence of pages on which the customer enters or reviews information before submitting a transaction. The default sequence is payment selection (if multiple payment methods are enabled), billing, shipping, payment, review, and receipt.
 - Single page form—the checkout process consists of one page on which the customer enters or reviews information before submitting a transaction.

Do not click **Save** until you have selected the billing or shipping fields, or both.

5. Check **Display the total tax amount in each step of the checkout process**.

The total tax amount must be included in each transaction. Calculate and include the total tax amount in the **tax_amount** field.

Do not click **Save** until you have selected the billing or shipping fields, or both.

6. Click **Save**.

Reseller: Configuring Billing Information Fields



Important: Select the billing information fields that your merchant provider requires.

If the billing country is U.S. or Canada, you can select the state code field as a required field. Cybersource recommends that if the billing country is U.S. or Canada, the state code and the postal code fields be selected as required. If the billing country is located in the rest of the world, you can also select the state code field as a required field.

Select the customer billing information fields that you want displayed on Secure Acceptance. If these fields are captured at an earlier stage of the order process (for example on your website), they can be passed into Secure Acceptance as hidden form fields. See [Request Fields \(on page 93\)](#). You can shorten the checkout process by not selecting billing information.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check **Billing Information**. The billing information fields appear.
5. Check the billing information fields that your merchant provider requires. The options for each field are:
 - Display: the customer can view the information displayed in this field. Choose this option if you want to pre-populate the billing information fields when Secure Acceptance Hosted Checkout is rendered—these fields must be passed into Secure Acceptance as hidden form fields.
 - Edit: the customer can view and edit the billing information on the Secure Acceptance Hosted Checkout. When you select this option, the display option is automatically selected.
 - Require: the customer is required to enter the billing information on the Secure Acceptance Hosted Checkout before they submit the transaction. When you select this option, all other options are automatically selected.

Do not click **Save** until you have selected the billing and order review fields.

6. Click **Save**.

Reseller: Configuring Shipping Information Fields

Select the shipping information fields that your merchant provider requires.

Select the customer shipping information fields that you want displayed on Secure Acceptance. These fields are optional. If you do not add these fields, the shipping information step is removed from Secure Acceptance. If these fields are captured at an earlier stage of the order process (for example, on your website), they can be passed into Secure Acceptance as hidden form fields. See [Request Fields \(on page 93\)](#). You can shorten the checkout process by not selecting billing information.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check **Shipping Information**.

5. Check the shipping information fields that are required by your merchant provider. The options for each field are:

- **Display:** the customer can view the information displayed in this field. Choose this option if you want to pre-populate the shipping information fields when Secure Acceptance Hosted Checkout Integration is rendered—these fields must be passed into Secure Acceptance as hidden form fields.
- **Edit:** the customer can view and edit the shipping information on the Secure Acceptance Hosted Checkout. When you select this option, the display option is automatically selected.
- **Require:** the customer is required to enter the shipping information on the Secure Acceptance Hosted Checkout before they submit the transaction. When you select this option, all other options are automatically selected.

Do not click **Save** until you have selected the shipping and order review fields.

6. Click **Save**.

Reseller: Configuring Echeck Information Fields

Select the echeck account information fields that your merchant provider requires.

Select the customer echeck account information fields that you want displayed on Secure Acceptance.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check the echeck account information to be included in Secure Acceptance. The options for each field are:

- **Display:** the customer can view the information displayed in this field. Choose this option if you want to pre-populate the echeck information fields when the Secure Acceptance Hosted Checkout is rendered.
- **Edit:** the customer can view and edit the echeck information on the Secure Acceptance Hosted Checkout. When you select this option, the display option is automatically selected.
- **Require:** the customer is required to enter the echeck information on the Secure Acceptance Hosted Checkout before they submit the transaction. When you select this option, all other options are automatically selected.

Do not click **Save** until you have selected the echeck account information and order review fields.

5. Click **Save**.

Reseller: Configuring Order Review Details

Select the fields that you want displayed on the Order Review page of Secure Acceptance Hosted Checkout. The customer reviews this information before submitting a transaction.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Payment Form**. The Payment Form page appears.
4. Check the fields that you want displayed on the Order Review page of Secure Acceptance Hosted Checkout. The options for each field are:
 - **Display:** the customer can view the information contained in this field. Available only for billing and shipping information.
 - **Edit:** the customer can view and edit the information contained in this field.
5. Click **Save**.

Merchant Notifications

Secure Acceptance sends merchant and customer notifications in response to transactions. You can receive a merchant notification by email or as an HTTPS POST to a URL for each transaction processed. Both notifications contain the same transaction result data.

Ensure that your system acknowledges POST notifications (even when under load) as quickly as possible. Delays of more than 10 seconds might result in delays to future POST notifications.



Important: Cybersource recommends that you implement the merchant POST URL to receive notification of each transaction. Parse the transaction response sent to the merchant POST URL and store the data within your order management system. This ensures the accuracy of the transactions and informs you when the transaction was successfully processed.

Reseller: Configuring Merchant Notifications

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click Notifications. The Notifications page appears.
4. Choose a merchant notification in one of two ways:

- Check **Merchant POST URL**. Enter the HTTPS URL. Cybersource sends transaction information to this URL. For more information, see [Response Fields \(on page 159\)](#).

Only an HTTPS URL supporting TLS 1.2 or higher should be used for the merchant POST URL. If you encounter any problems, contact Cybersource Customer Support.

- Check **Merchant POST Email**. Enter your email address.

Cybersource sends transaction response information to this email address including payment information, return codes, and all relevant order information. See [Response Fields \(on page 159\)](#).

5. Choose the card number digits that you want displayed in the merchant or customer receipt:
 - Return payment card BIN: displays the card's Bank Identification Number (BIN), which is the first six digits of the card number. All other digits are masked: 123456xxxxxxxxxx
 - Return last four digits of payment card number: displays the last four digits of the card number. All other digits are masked: xxxxxxxxxxxx1234
 - Return BIN and last four digits of payment card number: displays the BIN and the last four digits of the card number. All other digits are masked: 123456xxxxxx1234
6. Click **Save**.

Customer Receipts

You can send a purchase receipt email to your customer and a copy to your own email address. Both are optional. Customers can reply with questions regarding their purchases, so use an active email account. The email format is HTML unless your customer email is rich text format (RTF).

Reseller: Configuring Customer Notifications

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Notifications**. The Notifications page appears.
4. Check **Email Receipt to Customer**.
5. Enter the sender email address to be displayed on the customer receipt. The customer will reply to this email with any queries.
6. Enter the sender name of your business. It is displayed on the customer receipt.
7. Check **Send a copy to**. This setting is optional.
8. Enter your email address to receive a copy of the customer's receipt.
Your copy of the customer receipt will contain additional transaction response information.
9. Check **Display Notification Logo**.
10. Click **Upload Company Logo**. Find and upload the image that you want to display on the customer receipt and email.

The image file must not exceed 840 (width) x 60 (height) pixels and must be GIF, JPEG, or PNG. The logo filename must not contain any special characters, such as a hyphen (-).

11. Check **Custom Email Receipt**.

Cybersource recommends that you implement a DNS configuration to enable Cybersource to send email receipts on your behalf.

12. Check the type of email receipt that you want to send to a customer:
 - Standard email receipt: this email is automatically translated based on the locale used for the transaction.
 - Custom email receipt: this email can be customized with text and data references. The email body section containing the transaction detail appears between the header and footer. Custom text is not translated when using different locales are used.

13. Check **custom email subject** and enter up to 998 characters. When the maximum number of characters is exceeded, the subject heading defaults to *Order Confirmation*.

You can insert email smart tags in the email subject, header, and footer sections to include specific information. Select each smart tag from the drop-down list and click **Insert**.

14. Click **Save**.

Customer Response Page

You must configure the customer response page before you can activate a profile.

You can choose to have a transaction response page displayed to the customer at the end of the checkout process, and a cancel response page displayed during the checkout process. Enter a URL for your own customer response page or use the Cybersource hosted response pages. Depending upon the transaction result, the Cybersource hosted response pages are Accept, Decline, or Error. Review declined orders as soon as possible because you might be able to correct problems related to address or card verification, or you might be able to obtain a verbal authorization. You can also choose to display a web page to the customer after the checkout process is completed.

Reseller: Configuring a Cybersource Hosted Response Page

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Transaction Response Page heading, check **Hosted by Cybersource**.
5. Under the Transaction Response Message heading, choose a number from the **Retry Limit** drop-down list. The maximum number of times a customer can retry a declined transaction is five.
6. Under the Customer Redirect after Checkout heading, enter the redirect URL of the web page. This web page is displayed to the customer after the checkout process is completed.
7. Click **Save**.

Reseller: Configuring a Custom Hosted Response Page

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Transaction Response Page heading, check **Hosted by You**.
5. Enter the URL for your customer response page. Use port 80, 443, or 8080 in your URL.

Only port 443 should be used with a HTTPS URL.

A POST request with the transaction data is provided to this URL after the customer completes checkout.

The POST request contains the reason code value of the transaction, which helps you determine possible actions to take on the transaction.

See [Reason Codes \(on page 206\)](#).

6. Under the Transaction Response Message heading, choose a number from the **Retry Limit** drop-down list. The maximum number of times a customer can retry a declined transaction is 5.
7. Under the Customer Redirect after Checkout heading, enter the redirect URL of the web page. This web page is displayed to the customer after the checkout process is completed.
8. Click **Save**.

Reseller: Configuring a Custom Cybersource Hosted Response Page

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Custom Cancel Response Page heading, check **Hosted by Cybersource**.
5. Click **Save**.

Reseller: Configuring a Custom Cancel Response Page

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Customer Response**. The Customer Response page appears.
4. Under the Custom Cancel Response Page heading, check **Hosted by You**.
5. Enter the URL for your customer response page. Use port 80, 443, or 8080 in your URL.

Only port 443 should be used with a HTTPS URL.

A POST request with the transaction data is provided to this URL after the customer completes checkout.

The POST request contains the reason code value of the transaction, which helps you determine possible actions to take on the transaction.

See [Reason Codes \(on page 206\)](#).

6. Click **Save**.

Custom Checkout Appearance

Customize the appearance and branding of the Secure Acceptance checkout pages by choosing a background color, font, and text color. Upload a logo or image, and align it within the header or footer.

Cybersource recommends that you preview your changes in the Image Preview window.

To display an image as the header banner of the payment form, the image dimensions must not exceed 840 (width) x 60 (height) pixels and the image size must not exceed 100 kB. To display a small logo within the header banner, the logo height must not exceed 60 pixels. The image file must be GIF, JPEG, or PNG.

Reseller: Changing Header Content

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.

4. Check **Display Header**.
5. Click the header color.
6. Choose a color in one of two ways:
 - Enter a hexadecimal value for the header color of the payment form.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
7. Click **Browse** to upload the image to display as the header banner or as a logo within the header banner.
8. Choose the alignment option for the image or logo: left-aligned, centered, or right-aligned.
9. Click **Save**.

Reseller: Changing Body Color and Font Settings

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a background color for the main body in one of two ways:
 - Enter a hexadecimal value for the background color.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
5. Select a text font from the drop-down list.
6. Choose a text color in one of two ways:
 - Enter a hexadecimal value for the text color.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
7. Click **Save**.
8. Click **Set to Default** to restore all the default settings on this page.

Reseller: Changing Background and Text Color of the Total Amount



Important: If you are implementing the iframe embedded version of Secure Acceptance Hosted Checkout, the total amount figure is not displayed within the iframe. Any settings you select below are ignored.

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a background color in one of two ways:
 - Enter a hexadecimal value for the background color.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
5. Choose a text color in one of two ways:
 - Enter a hexadecimal value for the text color of the total amount.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
6. Click **Save**.
7. Click **Set to Default** to restore all the default settings on this page.

Reseller: Changing the Progress Bar Color

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a color in one of two ways:

- Enter a hexadecimal value for the color of the progress bar.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
5. Click **Save**.
 6. Click **Set to Default** to restore all the default settings on this page.

Reseller: Changing Color and Text on Pay or Finish Button

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Choose a background color of the pay or the finish button in one of two ways:
 - Enter a hexadecimal value for the background color.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
5. Choose a color of the pay or the finish button text in one of two ways:
 - Enter a hexadecimal value for the text.
 - Click within the header color palette to choose a color. Click the at the bottom right to confirm your selection.
6. Check **Change Button text**. A text box appears for the pay button.
7. Enter the text you want displayed on the pay button. This button text is required.
8. Enter the text you want displayed on the finish button. This button text is required.
9. Click **Save**.
10. Click **Set to Default** to restore all the default settings on this page.

Reseller: Changing Footer Color and Uploading a Small Logo or Image

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Choose a profile. The General Settings page appears.
3. Click **Branding**. The Branding page appears.
4. Check **Display Footer**.
5. Choose a color in one of two ways:
 - Enter a hexadecimal value for the footer color of the payment form.
 - Click within the header color palette to choose a color. Click the color to confirm your selection.
6. Click **Browse** to upload a footer logo. Upload the image that you want displayed within the footer of the payment form.

To display a small logo or image in the footer of the payment form, the file must not exceed 840 (width) x 60 (height) pixels. The image file must be GIF, JPEG, or PNG.

7. Choose the alignment option for the image: left-aligned, centered, or right-aligned.
8. Click **Save**.
9. Click **Set to Default** to restore all the default settings on this page.

Reseller: Activating a Profile



Important: You must complete the required settings described in each of these sections before activating a profile:

- [Payment Method Configuration \(on page 45\)](#)
- [Security Keys \(on page 52\)](#)
- [Customer Response Page \(on page 60\)](#)

1. In the left navigation panel, choose **Portfolio Management > Secure Acceptance Profiles**. The Secure Acceptance Profile page appears.
2. Perform one of these steps:
 - On the Active Profiles tab, choose a profile and click **Publish Profile**.
 - On the Edit Profile page, click **Publish Profile**.
3. Click **Confirm**.

Reseller: Additional Profile Options

- **Copy**—duplicates the active profile and creates an editable version. The editable version is listed in the inactive profile list. This option is available only for an active profile.
- **Deactivate**—deactivates the active profile. The profile is now listed in the inactive profile list. This option is available only for an active profile.
- **Publish to Active**—activates the inactive profile. This option is available only for an inactive profile.

Scripting Language Samples

Secure Acceptance can support any dynamic scripting language that supports HMAC256 hashing algorithms.

Select the scripting language you use to download a sample script:

- [ASP.NET \(C#\)](#)
- [JSP](#)
- [Perl](#)
- [PHP](#)
- [Ruby](#)
- [VB](#)

Sample Transaction Process Using JSP

1. ***payment_form.jsp*** file—represents the customer's product selection on a website. Enter your access key and profile ID into their respective fields. POST the fields to your server to sign and create the signature. All the fields must be included in the **signed_field_names** field as a CSV list.
2. ***security.jsp*** file—security algorithm signs fields and creates a signature using the **signed_field_names** field. Enter your security key in the **SECRET_KEY** field. Modify the security script to include the Secret Key that you generated in [Security Keys \(on page 26\)](#).

The security algorithm in each security script sample is responsible for:

- Request authentication—the signature is generated on the merchant server by the keyed-HMAC signing the request parameters using the shared secret key. This process is also carried out on the Secure Acceptance server, and the two signatures are compared for authenticity.
 - Response authentication—the signature is generated on the Secure Acceptance server by HMAC signing the response parameters, using the shared secret key. This process is also carried out on the merchant server, and the two signatures are compared for authenticity.
3. ***payment_confirmation.jsp*** file—represents the customer order review page on a website, before the customer makes a payment. POST transaction to the Secure Acceptance endpoint and render the Hosted Checkout Integration. See [Payment Transactions \(on page 69\)](#).

Payment Transactions

This section provides endpoints and transaction use cases.

Endpoints and Transaction Types

Endpoints

Create Payment Token Endpoints See Creating a Payment Card Token (on page 72) .	
Test	https://testsecureacceptance.cybersource.com/token/create
Production	https://secureacceptance.cybersource.com/token/create
Production in India	https://secureacceptance.in.cybersource.com/token/create
Supported transaction type	<code>create_payment_token</code>
Iframe Create Payment Token Endpoints See Iframe Implementation (on page 217) .	
Test	https://testsecureacceptance.cybersource.com/embedded/token/create
Production	https://secureacceptance.cybersource.com/embedded/token/create
Production in India	https://secureacceptance.in.cybersource.com/embedded/token/create
Supported transaction type	<code>create_payment_token</code>
Iframe Transaction Endpoints See Iframe Implementation (on page 217) .	
Test	https://testsecureacceptance.cybersource.com/embedded/pay
Production	https://secureacceptance.cybersource.com/embedded/pay
Production in India	https://secureacceptance.in.cybersource.com/embedded/pay

Endpoints (continued)

Supported transaction type	<ul style="list-style-type: none">• <code>authorization</code>• <code>authorization,create_payment_token</code>• <code>authorization,update_payment_token</code>• <code>sale</code>• <code>sale,create_payment_token</code>• <code>sale,update_payment_token</code>• <code>create_payment_token</code>
Iframe Update Payment Token Endpoints See Iframe Implementation (on page 217) .	
Test	<code>https://testsecureacceptance.cybersource.com/embedded/token/update</code>
Production	<code>https://secureacceptance.cybersource.com/embedded/token/update</code>
Production in India	<code>https://secureacceptance.in.cybersource.com/embedded/token/update</code>
Supported transaction type	<code>update_payment_token</code>
One-Click Endpoints See One-Click Checkout (on page 15) .	
Test	<code>https://testsecureacceptance.cybersource.com/oneclick/pay</code>
Production	<code>https://secureacceptance.cybersource.com/oneclick/pay</code>
Production in India	<code>https://secureacceptance.in.cybersource.com/oneclick/pay</code>
Supported transaction types	<ul style="list-style-type: none">• <code>authorization</code>• <code>authorization,update_payment_token</code>• <code>sale</code>• <code>sale,update_payment_token</code>
Process Transaction Endpoints	
Test	<code>https://testsecureacceptance.cybersource.com/pay</code>
Production	<code>https://secureacceptance.cybersource.com/pay</code>
Production in India	<code>https://secureacceptance.in.cybersource.com/pay</code>

Endpoints (continued)

Supported transaction types	<ul style="list-style-type: none">• <code>authorization</code>• <code>authorization,create_payment_token</code>• <code>authorization,update_payment_token</code>• <code>sale</code>• <code>sale,create_payment_token</code>• <code>sale,update_payment_token</code>
Update Payment Token Endpoints See Payment Token Updates (on page 83) .	
Test	<code>https://testsecureacceptance.cybersource.com/token/update</code>
Production	<code>https://secureacceptance.cybersource.com/token/update</code>
Production in India	<code>https://secureacceptance.in.cybersource.com/token/update</code>
Supported transaction type	<code>update_payment_token</code>
Visa Click to Pay Endpoints	
Test	<code>https://testsecureacceptance.cybersource.com/pay</code>
Production	<code>https://secureacceptance.cybersource.com/pay</code>
Production in India	<code>https://secureacceptance.in.cybersource.com/pay</code>
Supported transaction types	<ul style="list-style-type: none">• <code>authorization</code>• <code>sale</code>

Required Signed Fields

Signing fields protects them from malicious actors adding or changing transaction data during transmission. To sign fields, include them in a comma-separated string in the **signed_field_names** field in your request.



Important: To prevent data tampering, sign all request fields with the exception of fields that contain data the customer is entering.

These signed fields are required in all Secure Acceptance requests:

- **access_key**
- **amount**
- **currency**
- **locale**
- **profile_id**
- **reference_number**
- **signed_date_time**
- **signed_field_names**
- **transaction_type**
- **transaction_uuid**

For descriptions of these fields, see [Request Fields \(on page 93\)](#).

Payment Tokens

Creating a Payment Card Token



Important: Include the appropriate endpoint that supports the `create_payment_token` transaction type. See [Endpoints and Transaction Types \(on page 69\)](#). For descriptions of all request and response fields. See [Hosted Checkout Integration API Fields \(on page 92\)](#).

Include all request fields in the **signed_field_names** field with the exception of the **card_number**, **card_cvn**, and **signature** fields. The **signed_field_names** field is used to generate a signature that is used to verify the content of the transaction in order to prevent data tampering.

Example: Creating a Standalone Payment Card Token

Request

```
reference_number=12x456789 // Replace X with 3
transaction_type=create_payment_token
currency=usd
amount=100.00
```

```
locale=en
access_key=e2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p3
profile_id=0FFEAFfB-8171-4F34-A22D-1CD38A28A384
transaction_uuid=02815b4f08e56882751a043839b7b481
signed_date_time=2020-07-11T15:16:54Z
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=WrxOhtzhBjYMZROwiCug2My3jiZHOqATimcz5EBA07M=
payment_method=card
card_type=001
card_number=411111111111xxxx // Replace x with 1
card_expiry_date=12-2022
card_cvn=005
bill_to_forename=Joe
bill_to_surname=Smith
bill_to_email=joesmith@example.com
bill_to_address_line1=1 My Apartment
bill_to_address_city=Mountain View
bill_to_address_postal_code=94043
bill_to_address_state=CA
bill_to_address_country=US
```

Response

```
req_reference_number=12x456789 // Replace X with 3
req_transaction_type=create_payment_token
req_locale=en
req_amount=100.00
req_payment_method=card
req_card_type=001
req_card_number=xxxxxxxxxxxx1111
req_card_expiry_date=12-2022
req_bill_to_forename=Joe
req_bill_to_surname=Smith
req_bill_to_email=joesmith@example.com
req_bill_to_address_line1=1 My Apartment
req_bill_to_address_city=Mountain View
req_bill_to_address_postal_code=94043
req_bill_to_address_state=CA
req_bill_to_address_country=US
req_access_key=e2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p3
req_profile_id=0FFEAFfB-8171-4F34-A22D-1CD38A28A384
req_transaction_uuid=02815b4f08e56882751a043839b7b481
signed_date_time=2020-07-11T15:16:54Z
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=WrxOhtzhBjYMZROwiCug2My3jiZHOqATimcz5EBA07M=
decision=ACCEPT
```

```
reason_code=100
transaction_id=3735553783662130706689
req_payment_token=CF2194C8A0F545CDE053AF598E0A20DA
```

Creating an Echeck Token



Important: Include the appropriate endpoint that supports the [create_payment_token](#) transaction type. See [Endpoints and Transaction Types \(on page 69\)](#). For descriptions of all request and response fields, see [Hosted Checkout Integration API Fields \(on page 92\)](#).

Include all request fields in the **signed_field_names** field. The **signed_field_names** field is used to generate a signature that is used to verify the content of the transaction in order to prevent data tampering.

Example: Creating a Standalone Echeck Payment Token

Request

```
access_key=e2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p1
profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
transaction_type=create_payment_token
currency=USD
amount=100.00
locale=en
reference_number=1730560013735542024294683
transaction_uuid=02815b4f08e56882751a043839b7b481
signed_date_time=2022-07-11T15:16:54Z
signature=WrxOhTzhBjYMZROwiCug2My3jiZHOqATimcz5EBA07M=
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
bill_to_forename=Joe
bill_to_surname=Smith
bill_to_email=joesmith@example.com
bill_to_address_line1=1 My Apartment
bill_to_address_state=CA
bill_to_postal_code=94043
bill_to_address_country=US
payment_method=echeck
driver_license_state=NY
driver_license_number=X4-782X9-X96 // Replace X with 3
date_of_birth=19901001
echeck_account_type=c
company_tax_id=12x456789 // Replace X with 3
```

```
echeck_sec_code=WEB
echeck_account_number=4528941xx // Replace x with 0
echeck_routing_number=6723x2882 // Replace x with 0
```

Response

```
req_bill_to_address_country=US
req_driver_license_state=NY
req_driver_license_number=xx-xxxxx-xxx
req_date_of_birth=19901001
decision=ACCEPT
req_amount=100.00
req_bill_to_address_state=CA
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
req_payment_method=echeck
req_transaction_type=create_payment_token
req_echeck_account_type=c
signature=NuxlJilx5YbvKoXlt0baB5hUj5gk4+OozqJnyVF390s=
req_locale=en
reason_code=100
req_bill_to_address_postal_code=94043
req_echeck_account_number=xxxxx4100
req_bill_to_address_line1=1 My Apartment
req_echeck_sec_code=WEB
req_bill_to_address_city=San Francisco
signed_date_time=2022-07-11T15:11:41Z
req_currency=USD
req_reference_number=1730560013735542024294683
req_echeck_routing_number=xxxxx2882
transaction_id=3735553783662130706689
req_amount=100.00
req_profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
req_company_tax_id=12x456789 // Replace X with 3
req_transaction_uuid=38f2efe650ea699597d325ecd7432b1c
req_payment_token=CF2194C8A0F545CDE053AF598E0A20DA
req_bill_to_surname=Soap
req_bill_to_forename=Joe
req_bill_to_email=joessoap@yahoo.com
req_access_key=e2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p1
```

Payment Token Transactions

One-Click

The customer is directed to the Order Review page. Depending on the settings you configured for Secure Acceptance Hosted Checkout Integration, the customer can view or update billing, shipping, and payment details before confirming to pay. See [Checkout Configuration \(on page 28\)](#).



Important: Include the appropriate endpoint that supports the [authorization](#) or [sale](#) transaction types. See [Endpoints and Transaction Types \(on page 69\)](#). For descriptions of all request and response fields, see [Hosted Checkout Integration API Fields \(on page 92\)](#).

The **payment_token** field identifies the card and retrieves the associated billing, shipping, and payment information.

Example: One-Click Transaction

Request

```
access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
reference_number=1350029885978
payment_token=CF2194C8A0F545CDE053AF598E0A20DA
consumer_id=x23987456x // Replace x with 1
transaction_type=authorization
amount=100.00
currency=USD
locale=en
transaction_uuid=fcf212e92d23be881d1299ef3c3b314
signed_date_time=2020-01-17T10:46:39Z
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=WrxOhTzhBjYMR0wiCug2My3jiZHOqATimcz5EBA07M=
```

Response

```
transaction_id=3500311655560181552946
decision=ACCEPT
message=Request was processed successfully.
req_access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
req_transaction_uuid=55d895790bc4c8a0f4464f9426ba3b79
req_transaction_type=authorization
req_reference_number=1350029885978
req_amount=100.00
req_profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
req_tax_amount=15.00
```



```
req_currency=USD
req_locale=en
req_payment_method=card
req_consumer_id=x23987456x // Replace x with 1
req_bill_to_forename=Joe
req_bill_to_surname=Smith
req_bill_to_email=jsmith@example.com
req_bill_to_address_line1=1 My Apartment
req_bill_to_address_state=CA
req_bill_to_address_country=US
req_card_number=xxxxxxxxxxxx4242
req_card_type=001
req_card_expiry_date=11-2020
reason_code=100
auth_avs_code=U
auth_avs_code_raw=00
auth_response=0
auth_amount=100.00
auth_time==2012-08-14T134608Z
req_payment_token=CF2194C8A0F545CDE053AF598E0A20DA
signed_field_names=reference_number,transaction_type,currency,amount,locale,access
_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signed_date_time=2012-10-12T08:39:25Z
signature=jMeHnWRKwU3xtT02j2ufRibfFpbdjUSiuWGT9hnNm00=
req_amount=100.00
req_tax_amount=15.00
req_currency=USD
req_locale=en
req_payment_method=card
req_consumer_id=x23987456x // Replace x with 1
req_bill_to_forename=Joe
req_bill_to_surname=Smith
req_bill_to_email=jsmith@example.com
req_bill_to_address_line1=1 My Apartment
req_bill_to_address_state=CA
req_bill_to_address_country=US
req_card_number=xxxxxxxxxxxx4242
req_card_type=001
req_card_expiry_date=11-2020
reason_code=100
auth_avs_code=U
auth_avs_code_raw=00
auth_response=0
auth_amount=100.00
auth_time==2012-08-14T134608Z
payment_token=CF2194C8A0F545CDE053AF598E0A20DA
payment_token_latest_card_suffix=3283
payment_token_latest_card_expiry_date=07-2024
payment_solution=015
```

```
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signed_date_time=2012-10-12T08:39:25Z
signature=jMeHnWRKwU3xtT02j2ufRibfFpbdjUSiuWGT9hnNm00=
```

Echeck Payment with a Token

The customer is directed to the Order Review page. Depending on the settings you configured for Secure Acceptance Hosted Checkout Integration, the customer can view or update billing, shipping, and payment details before confirming to pay. See [Checkout Configuration \(on page 28\)](#).



Important: Include the appropriate endpoint that supports the [authorization](#) or [sale](#) transaction types. See [Endpoints and Transaction Types \(on page 69\)](#). For descriptions of all request and response fields, see [Hosted Checkout Integration API Fields \(on page 92\)](#).

The **payment_token** field identifies the bank account and retrieves the associated billing, shipping, and payment information.

Example: Processing a Payment with an Echeck Token

Request

```
access_key=e2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p3
profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
reference_number=1845864013783060468573616
transaction_type=sale
currency=USD
amount=100.00
locale=en
payment_token=CF2194C8A0F545CDE053AF598E0A20DA
transaction_uuid=fcfc212e92d23be881d1299ef3c3b314
signed_date_time=2022-01-17T10:46:39Z
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=jMeHnWRKwU3xtT02j2ufRibfFpbdjUSiuWGT9hnNm00=
```

Response

```
req_bill_to_address_country=US
req_driver_license_state=NY
req_driver_license_number=xx-xxxxxx-xxx
req_date_of_birth=19901001
```

```

decision=ACCEPT
req_bill_to_address_state=CA
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
req_payment_method=echeck
req_transaction_type=sale
req_echeck_account_type=c
signature=ZUk7d99c/yb+kidvVUbz10JtykmjOt8LMPgkllRaZR8=
req_locale=en
reason_code=100
req_echeck_account_number=xxxxx4100
req_bill_to_address_line1=1 My Apartment
req_echeck_sec_code=WEB
signed_date_time=2022-06-12T09:59:50Z
req_currency=USD
req_reference_number=77353001371031080772693
req_echeck_routing_number=xxxxx2882
transaction_id=3710311877042130706689
req_amount=100.00
message=Request was processed successfully.
echeck_debit_ref_no=1
echeck_debit_submit_time=2022-03-25T104341Z
req_profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
req_company_tax_id=12x456789 // Replace X with 3
req_transaction_uuid=bdc596506c2677b79133c9705e5cf77c
req_bill_to_surname=Smith
req_bill_to_forename=Joe
req_bill_to_email=jsmith@example.com
req_access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2

```

Recurring Payments

Your merchant ID must be enabled to process recurring payments. You must specify the amount and frequency of each payment and the start date for processing recurring payments. Cybersource creates a schedule based on this information and automatically bills the customer according to the schedule.



Important: Include the appropriate endpoint that supports the [authorization,create_payment_token](#) or [sale,create_payment_token](#) transaction types. See [Endpoints and Transaction Types \(on page 69\)](#). For descriptions of all request and response fields, see [Hosted Checkout Integration API Fields \(on page 92\)](#).

Example: Creating a Recurring Billing Payment and Token

Request

```
access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
profile_id=0FFEAFfB-8171-4F34-A22D-1CD38A28A384
transaction_type=authorization,create_payment_token
locale=en
amount=5.00
transaction_uuid=fcfc212e92d23be881d1299ef3c3b314
signed_date_time=2020-01-17T10:46:39Z
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=WrxOhtzhBjYmZROwiCug2My3jiZHOqATimcz5EBA07M=
consumer_id=x23987456x // Replace x with 1
bill_to_forename=Joe
bill_to_surname=Smith
bill_to_email=joesmith@example.com
bill_to_address_line1=1 My Apartment
bill_to_address_state=CA
bill_to_address_country=US
card_type=001
card_number=411111111111xxxx // Replace x with 1
card_expiry_date=12-2022
card_cvn=005
transaction_reason=setup_recurring
recurring_frequency=monthly
recurring_amount=25.00
recurring_start_date=20200125
payment_method=card
```

Response

```
transaction_id=3500311655560181552946
decision=ACCEPT
message=Request was processed successfully.
req_access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
req_profile_id=0FFEAFfB-8171-4F34-A22D-1CD38A28A384
req_transaction_uuid=55d895790bc4c8a0f4464f9426ba3b79
req_transaction_type=authorization,create_payment_token
req_reference_number=1350029885978
req_amount=5.00
req_tax_amount=2.50
req_currency=USD
req_locale=en
req_payment_method=card
req_consumer_id=x23987456x // Replace x with 1
```

```
req_recurring_frequency=monthly
req_recurring_amount=25.00
req_recurring_start_date=20200125
req_bill_to_forename=Joe
req_bill_to_surname=Smith
req_bill_to_email=joesmith@example.com
req_bill_to_address_line1=1 My Apartment
req_bill_to_address_state=CA
req_bill_to_address_country=US
req_card_number=xxxxxxxxxxxx1111
req_card_type=001
req_card_expiry_date=12-2022
reason_code=100
auth_avs_code=U
auth_avs_code_raw=00
auth_response=0
auth_amount=100.00
auth_time=2022-08-14T134608Z
req_payment_token=CF2194C8A0F545CDE053AF598E0A20DA
signed_field_names=reference_number,transaction_type,currency,amount,locale,access
_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signed_date_time=2022-10-12T08:39:25Z
signature=jMeHnWRKWU3xtT02j2ufRibfFpbdjUSiuWGT9hnNm00=
```

Installment Payments

Your merchant ID must be enabled to process installment payments. You must specify the number of payments, the amount and frequency of each payment, and the start date for processing the payments. Cybersource creates a schedule based on this information and automatically bills the customer according to the schedule.



Important: Include the appropriate endpoint that supports the [authorization,create_payment_token](#) or [sale,create_payment_token](#) transaction types. See [Endpoints and Transaction Types \(on page 69\)](#). For descriptions of all request and response fields, see [Hosted Checkout Integration API Fields \(on page 92\)](#).

Example: Creating an Installment Payment and Token

Request

```
access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
profile_id=0FFEAFB-8171-4F34-A22D-1CD38A28A384
transaction_type=authorization,create_payment_token
```

```
amount=5.00
locale=en
transaction_uuid=fcfc212e92d23be881d1299ef3c3b314
signed_date_time=2020-01-17T10:46:39Z
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=WrxOhTzhBjYMZROwiCug2My3jiZHOqATimcz5EBA07M=
consumer_id=x23987456x // Replace x with 1
bill_to_forename=Joe
bill_to_surname=Smith
bill_to_email=joesmith@example.com
bill_to_address_line1=1 My Apartment
bill_to_address_state=CA
bill_to_address_country=US
card_type=001
card_number=411111111111xxxx // Replace x with 1
card_expiry_date=12-2022
card_cvn=005
recurring_frequency=monthly
recurring_number_of_installments=6
recurring_amount=25.00
recurring_start_date=20200125
payment_method=card
```

Response

```
transaction_id=3500311655560181552946
decision=ACCEPT
message=Request was processed successfully.
req_access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
req_profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
req_transaction_uuid=55d895790bc4c8a0f4464f9426ba3b79
req_transaction_type=authorization,create_payment_token
req_reference_number=1350029885978
req_amount=5.00
req_currency=USD
req_locale=en
req_payment_method=card
req_consumer_id=x23987456x // Replace x with 1
req_recurring_frequency=monthly
req_recurring_number_of_installments=6
req_recurring_amount=25.00
req_recurring_start_date=20200125
req_bill_to_forename=Joe
req_bill_to_surname=Smith
req_bill_to_email=joesmith@example.com
req_bill_to_address_line1=1 My Apartment
req_bill_to_address_state=CA
```

```
req_bill_to_address_country=US
req_card_number=xxxxxxxxxxxx1111
req_card_type=001
req_card_expiry_date=12-2022
reason_code=100
auth_avs_code=U
auth_avs_code_raw=00
auth_response=0
auth_amount=100.00
auth_time==2022-08-14T134608Z
req_payment_token=CF2194C8A0F545CDE053AF598E0A20DA
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signed_date_time=2022-10-12T08:39:25Z
signature=jMeHnWRKwU3xtT02j2ufRibfFpbdjUSiuWGT9hnNm00=
```

Payment Token Updates

Updating a Payment Card Token

The **payment_token** field identifies the card and retrieves the associated billing, shipping, and payment information. The customer is directed to the Order Review page and clicks **Edit Address** or **Edit Details** to return to the relevant checkout page. The customer clicks **Pay** to confirm the transaction.

You must configure the billing, shipping, and payment details so that a customer can edit their details on the Order Review page. See [Configuring Order Review Details \(on page 31\)](#).



Important: Include the endpoint that supports `update_payment_token` or the endpoint that supports `authorization,update_payment_token` (updates the token and authorizes the transaction) or `sale,update_payment_token` (updates the token and processes the transaction). See [Sample Transaction Process Using JSP \(on page 68\)](#). You must include the **allow_payment_token_update** field and set it to `true`.

Example: Updating a Payment Card Token

Request

```
access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
transaction_type=update_payment_token
profile_id=0FFEAFBB-8171-4F34-A22D-1CD38A28A384
```

```
reference_number=1350029885978
payment_token=CF2194C8A0F545CDE053AF598E0A20DA
amount=100.00
currency=USD
payment_method=card
card_type=001
card_number=411111111111xxxx // Replace x with 1
card_expiry_date=12-2022
card_cvn=005
bill_to_forename=Joe
bill_to_surname=Smith
bill_to_email=joesmith@example.com
bill_to_address_line1=1 My Apartment
bill_to_address_state=CA
bill_to_address_country=US
locale=en
transaction_uuid=fcf212e92d23be881d1299ef3c3b314
signed_date_time=2020-01-17T10:46:39Z
consumer_id=x23987456x // Replace x with 1
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=WrxOhTzhBjYMZROwiCug2My3jiZHOqATimcz5EBA07M=
```

Response

```
transaction_id=3500311655560181552946
decision=ACCEPT
message=Request was processed successfully.
req_access_key=a2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p2
req_profile_id=0FFEAFB-8171-4F34-A22D-1CD38A28A384
req_transaction_uuid=55d895790bc4c8a0f4464f9426ba3b79
req_transaction_type=authorization,update_payment_token
req_reference_number=1350029885978
req_amount=100.00
req_tax_amount=15.00
req_currency=USD
req_locale=en
req_payment_method=card
req_consumer_id=x23987456x // Replace x with 1
req_bill_to_forename=Joe
req_bill_to_surname=Smith
req_bill_to_email=jsmith@example.com
req_bill_to_address_line1=1 My Apartment
req_bill_to_address_state=CA
req_bill_to_address_country=US
req_card_number=xxxxxxxxxxxx1111
req_card_type=001
req_card_expiry_date=12-2022
```



```
reason_code=100
auth_avs_code=U
auth_avs_code_raw=00
auth_response=0
auth_amount=100.00
auth_time=2022-08-14T134608Z
payment_token=CF2194C8A0F545CDE053AF598E0A20DA
signed_field_names=comma separated list of signed fields
signed_date_time=2022-10-12T08:39:25Z
signature=jMeHnWRKwU3xtT02j2ufRibfFpbdjUSiuWGT9hnNm00=
```

Updating an Echeck Token

The **payment_token** field identifies the echeck account and retrieves the associated billing, shipping, and payment information. The customer is directed to the Order Review page and clicks Edit Address or Edit Details to return to the relevant checkout page. The customer clicks Pay to confirm the transaction.

You must configure the billing, shipping, and payment details so that a customer can edit their details on the Order Review page. See [Configuring Order Review Details \(on page 31\)](#).



Important: Include the endpoint that supports [update_payment_token](#) or the endpoint that supports [sale,update_payment_token](#) (updates the token and processes the transaction). You must include the **allow_payment_token_update** field and set to true.

Example: Updating an Echeck Payment Token

Request

```
access_key=e2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p3
profile_id=0FFEAFfB-8171-4F34-A22D-1CD38A28A384
reference_number=1845864013783060468573616
currency=USD
amount=100.00
locale=en
payment_token=CF2194C8A0F545CDE053AF598E0A20DA
transaction_uuid=fccfc212e92d23be881d1299ef3c3b314
signed_date_time=2022-01-17T10:46:39Z
signed_field_names=reference_number,transaction_type,currency,amount,locale,access_key,profile_id,transaction_uuid,signed_date_time,signed_field_names,etc...
signature=jMeHnWRKwU3xtT02j2ufRibfFpbdjUSiuWGT9hnNm00=
bill_to_forename=Joe
bill_to_surname=Smith
bill_to_email=joesmith@example.com
```

```
bill_to_address_line1=1 My Apartment
bill_to_address_state=CA
bill_to_address_country=US
payment_method=echeck
driver_license_state=NY
driver_license_number=X4-782X9-X96 // Replace X with 3
date_of_birth=19901001
echeck_account_type=c
company_tax_id=12x456789 // Replace X with 3
echeck_sec_code=WEB
echeck_account_number=4528941xx // Replace x with 0
echeck_routing_number=6723x2882 // Replace x with 0
```

Response

```
req_driver_license_state=NY
req_driver_license_number=xx-xxxxx-xxx
req_date_of_birth=19901001
decision=ACCEPT
req_bill_to_address_state=CA
signed_field_names=comma separated list of signed fields
req_payment_method=echeck
req_transaction_type=sale,update_payment_token
req_echeck_account_type=c
signature=NuxlJilx5YbvKoXlt0baB5hUj5gk4+OozqJnyVF390s=
req_locale=en
reason_code=100
req_bill_to_address_postal_code=94043
req_echeck_account_number=xxxxx4100
req_bill_to_address_line1=1 My Apartment
req_echeck_sec_code=WEB
req_bill_to_address_city=San Francisco
signed_date_time=2022-07-11T15:11:41Z
req_currency=USD
req_reference_number=1730560013735542024294683
req_echeck_routing_number=xxxxx2882
transaction_id=3735553783662130706689
req_amount=100.00
req_profile_id=0FFEAFFB-8171-4F34-A22D-1CD38A28A384
req_company_tax_id=12x456789 // Replace X with 3
req_transaction_uid=38f2efe650ea699597d325ecd7432b1c
payment_token=CF2194C8A0F545CDE053AF598E0A20DA
req_bill_to_surname=Soap
```

```
req_bill_to_forename=Joe  
req_bill_to_email=joesop@yahoo.com  
req_access_key=e2b0c0d0e0f0g0h0i0j0k0l0m0n0o0p1
```

Decision Manager



Important: Contact Customer Support to enable the Decision Manager verbose data mode for your merchant account and to obtain detailed information regarding the device fingerprint.

Decision Manager is a hosted fraud management tool that enables you to identify legitimate orders quickly and that reduces the need to manually intervene in your order review process. You can accurately identify and review potentially risky transactions while minimizing the rejection of valid orders. With Secure Acceptance, you can use Decision Manager to screen orders containing travel data. Include the complete route or the individual legs of the trip, or both. If you include both, the value for the complete route is used.

Decision Manager obtains data about the geographical location of a customer by linking the IP address extracted from the customer's browser to the country and the payment card. Add the customer's IP address to the **customer_ip_address** field and include it in the request.

Verbose mode returns detailed information about an order, and it returns the decision of each rule that the order triggered. Rules that are evaluated as true are returned with the appropriate results and field names, but rules that are evaluated as false are not returned.

These are the optional Decision Manager fields:

- **consumer_id**
- **complete_route**
- **customer_cookies_accepted**
- **customer_gift_wrap**
- **customer_ip_address**
- **departure_time**
- **date_of_birth**
- **device_fingerprint_id**—the device fingerprint ID generated by the platform overrides the merchant-generated device fingerprint ID.
- **journey_leg#_orig**
- **journey_leg#_dest**
- **journey_type**
- **merchant_defined_data#**

- **item_#_passenger_forename**
- **item_#_passenger_email**
- **item_#_passenger_id**
- **item_#_passenger_surname**
- **item_#_passenger_status**
- **item_#_passenger_type**
- **returns_accepted**

For detailed descriptions of all request fields, see [Request Fields \(on page 93\)](#). For detailed descriptions of all Decision Manager response fields, see the *Decision Manager Using the SCMP API Developer Guide* in the Business Center.

Test and View Transactions



Important: You must create a profile in both the test and live versions of Secure Acceptance. You cannot copy a profile from the test version to the live version but must recreate the profile.

Testing Transactions

1. Log in to the Business Center test environment: <https://businesscentertest.cybersource.com>
2. Create a Secure Acceptance profile. See [Creating a Secure Acceptance Profile \(on page 18\)](#).
3. Integrate with Secure Acceptance. See [Scripting Language Samples \(on page 68\)](#).



Important: Include the test transactions endpoint in your HTML form. See [Sample Transaction Process Using JSP \(on page 68\)](#).

4. You can use test payment card numbers for transactions. See [Testing Credit Card Services](#) for test payment card numbers. Remove spaces when sending the request to Cybersource.

Viewing Transactions in the Business Center

Use the transaction request ID to search for transactions received from your customer's browser and see full transaction details, including the transaction response that was provided to your customer's browser. This is helpful for troubleshooting issues.

1. Log in to the Business Center:
 - **Production:** <https://businesscenter.cybersource.com>
 - **Production in India:** <https://businesscenter.in.cybersource.com>
 - **Test:** <https://businesscentertest.cybersource.com>

2. In the left navigation panel, choose **Transaction Management > Secure Acceptance**. The Secure Acceptance Search page appears.
3. Search transactions search using your preferred methods.
4. Click the Request ID link of the transaction that you want to view. The Details page opens.



Important: If a transaction has missing or invalid data, it is displayed in the Secure Acceptance Transaction Search Results page without a request ID link.

Hosted Checkout Integration API Fields

Data Type Definitions



Important: Unless otherwise noted, all fields are order and case sensitive. It is recommended that you not include URL-encoded characters in any request field prior to generating a signature.

Data Type Definitions

Data Type	Permitted Characters and Formats
Alpha	Any letter from any language
AlphaNumeric	Alpha with any numeric character in any script
AlphaNumericPunctuation	Alphanumeric including ! " # \$ % & ' () * + , - . / : ; = ? @ ^ _ ~
Amount	012x456789 // Replace X with 3 including a decimal point (.)
ASCIISAlphaNumericPunctuation	Any ASCII alphanumeric character including ! & ' () + , - . / : ; @
Date (a)	MM-yyyy
Date (b)	yyyyMMDD
Date (c)	yyyy-MM-DD hh:mm z yyyy-MM-DD hh:mm a z yyyy-MM-DD hh:mm z
Email	Valid email address.
Enumerated String	Comma-separated alphanumeric string
IP	Valid IP address
ISO 8601 Date	yyyy-MM-DDThh:mm:ssZ
Locale	[a-z] including a hyphen (-)
Numeric	012x456789 // Replace X with 3
Phone	(),+-. *#xX12x456789 // Replace X with 30
URL	Valid URL (http or https)

Request Fields



Important: To prevent data tampering, sign all request fields except for fields that contain data the customer is entering.



Important:

When signing fields in the request, create a comma-separated list of the fields. The sequence of the fields in the string is critical to the signature generation process. For example:

```
bill_to_forename=john  
bill_to_surname=doe  
bill_to_email=jdoe@example.com  
signed_field_names=bill_to_forename,bill_to_email,bill_to_surname
```

When generating the security signature, create a comma-separated name=value string of the POST fields that are included in the **signed_field_names** field. The sequence of the fields in the string is critical to the signature generation process. For example:

- `bill_to_forename=john`
- `bill_to_surname=doe`
- `bill_to_email=jdoe@example.com`


The string to sign is

`bill_to_forename=john,bill_to_email=jdoe@example.com,bill_to_surname=doe`

For information on the signature generation process, see the security script of the sample code for the scripting language you are using. See [Scripting Language Samples \(on page 68\)](#).

The TC 33 Capture file contains information about the purchases and refunds that a merchant submits to Cybersource. Visa Platform Connect creates the TC 33 Capture file at the end of the day and sends it to the merchant's acquirer, who uses this information to facilitate end-of-day clearing processing with payment card companies.


Request Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
access_key	<p>Required for authentication with Secure Acceptance. See Security Keys (on page 26).</p> <div> Important: To prevent data tampering, sign this field.</div>	Required by the Secure Acceptance application.	Alphanumeric String (32)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
aggregator_id	<p>Value that identifies you as a payment aggregator. Get this value from your processor.</p> <p>Visa Platform Connect—The value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCR6 • Position: 95-105 • Field: Mastercard Payment Facilitator ID <p>FDC Compass—This value must consist of uppercase characters.</p> <p>Field Length</p> <p>American Express Direct: 20</p> <p>Visa Platform Connect: 11</p> <p>FDC Compass: 20</p> <p>FDC Nashville Global: 15</p> <p>Required/Optional</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: R for Mastercard aggregator authorizations; otherwise, not used.</p> <p>FDC Compass: R for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	authorization (See description)	String (See description)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
allow_payment_token_update	<p>Indicates whether the customer can update the billing, shipping, and payment information on the order review page. Possible values:</p> <ul style="list-style-type: none"> • true: Customer can update details. • false: Customer cannot update details. 	update_payment_token (R)	Enumerated String (5)
amount	<p>Total amount for the order. Must be greater than or equal to zero and must equal the total amount of each line item including the tax amount.</p> <div>  Important: To prevent data tampering, sign this field. </div>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>Amount</p> <p>String (15)</p>
auth_indicator	<p>Flag that specifies the purpose of the authorization. Possible values:</p> <ul style="list-style-type: none"> • 0: Preauthorization • 1: Final authorization <p>Mastercard requires European merchants to indicate whether the authorization is a final authorization or a preauthorization.</p> <p>To set the default for this field, contact customer support.</p>	authorization (See description)	String (1)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
auth_type	<p>Authorization type. Possible values:</p> <ul style="list-style-type: none"> • AUTOCAPTURE: Automatic capture. • STANDARDCAPTURE: Standard capture. • verbal: Forced capture. <p><i>Asia, Middle East, and Africa Gateway; Cielo; Comercio Latino; and Cybersource Latin American Processing</i></p> <p>Set this field to AUTOCAPTURE and include it in a bundled request to indicate that you are requesting an automatic capture. If your account is configured to enable automatic captures, set this field to STANDARDCAPTURE and include it in a standard authorization or bundled request to indicate that you are overriding an automatic capture.</p>	<ul style="list-style-type: none"> • authorization (See description.) • capture (Required for a verbal authorization; otherwise, not used.) 	<p>Cielo, Comercio Latino, and Cybersource Latin American Processing: String (15)</p> <p>All other processors: String (11)</p>
bill_payment	<p>Flag that indicates a payment for a bill or for an existing contractual loan. Visa provides a Bill Payment program that enables customers to use their Visa cards to pay their bills. Possible values:</p> <ul style="list-style-type: none"> • true: Bill payment or loan payment. • false (default): Not a bill payment or loan payment. 	Optional	Enumerated String (5)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_to_address_city	<p>City in the billing address.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>AlphaNumericPunctuation</p> <p>Atos: String (32)</p> <p>All other processors: String (50)</p>
bill_to_address_country	<p>Country code for the billing address. Use the two-character ISO country codes.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>Alpha String (2)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_to_address_line1	<p>First line of the billing address.</p> <p>On JCN Gateway, this field is required when the authorization or sale request includes create_payment_token or Decision Manager.</p> <p>This field is optional when requesting an authorization or a sale without create_payment_token or Decision Manager.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>AlphaNumericPunctuation</p> <p>Atos: String (29)</p> <p>Visa Platform Connect: String (40)</p> <p>Moneris: String (50)</p> <p>Worldpay VAP: String (35)</p> <p>All other processors: String (60)</p>
bill_to_address_line2	<p>Second line of the billing address.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	Optional	<p>AlphaNumericPunctuation</p> <p>Atos: String (29)</p> <p>Visa Platform Connect: String (40)</p> <p>Moneris: String (50)</p> <p>Worldpay VAP: String (35)</p> <p>All other processors: String (60)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_to_address_postal_code	<p>Postal code for the billing address.</p> <p>This field is required if bill_to_address_country is U.S. or Canada.</p> <p>When the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</p> <p>Example: 12345-6789</p> <p>When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric]</p> <p>Example: A1B2C3</p> <p>For the rest of the world countries, the maximum length is 10.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	See description.	<p>AlphaNumericPunctuation</p> <p>See description.</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_to_address_state	<p>State or province in the billing address.</p> <p>For the U.S. and Canada, use the standard state, province, and territory codes.</p> <p>This field is required if bill_to_address_country is U.S. or Canada.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	See description.	AlphanumericPunctuation String (2)
bill_to_company_name	<p>Name of the customer's company.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	Optional	AlphanumericPunctuation String (40)
bill_to_email	<p>Customer email address, including the full domain name.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	Email String (255)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_to_forename	<p>Customer first name. This name must be the same as the name on the card.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	<ul style="list-style-type: none">• create_payment_token (R)• authorization or sale (R)• authorization,create_payment_token (R)• sale,create_payment_token (R)• update_payment_token (O)	<p>AlphaNumericPunctuation</p> <p>String (60)</p>
bill_to_phone	<p>Customer phone number. Cybersource recommends that you include the country code if the order is from outside the U.S.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p> <p>This field is optional for card payments. For echeck payments this field is required if your processor is Cybersource ACH Service or TeleCheck.</p>	See description.	<p>Phone</p> <p>String (6 to 15)</p> <p>String (10) if using TeleCheck for echeck payments.</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_to_surname	<p>Customer last name. This name must be the same as the name on the card.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Billing Information Fields (on page 28).</p>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>AlphaNumericPunctuation</p> <p>String (60)</p>
card_cvn	<p>Card verification number.</p> <p>For American Express card types, the CVN must be 4 digits.</p> <p>This field can be configured as required or optional. See Payment Method Configuration (on page 19).</p>	See description.	<p>Numeric</p> <p>String (4)</p>
card_expiry_date	<p>Card expiration date.</p> <p>Format: MM-yyyy</p>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>Date (a)</p> <p>String (7)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
card_number	Card number. Use only numeric values. Be sure to include valid and well-formed data for this field.	<ul style="list-style-type: none">• create_payment_token (R)• authorization or sale (R)• authorization,create_payment_token (R)• sale,create_payment_token (R)• update_payment_token (O)	Numeric String (20)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
card_type	<p>Type of card to authorize. Possible values:</p> <ul style="list-style-type: none"> • 001: Visa • 002: Mastercard • 003: American Express • 004: Discover • 005: Diners Club: cards starting with 54 or 55 are rejected. • 006: Carte Blanche • 007: JCB • 014: EnRoute • 021: JAL • 024: Maestro UK Domestic • 031: Delta • 033: Visa Electron • 034: Dankort • 036: Carte Bancaire • 037: Carta Si • 042: Maestro International • 043: GE Money UK card • 050: Hipercard (sale only) • 054: Elo • 062: China UnionPay 	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	Enumerated String (3)


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
card_type_selection_indicator	<p>Identifies whether the card type is the result of the default acquirer parameter settings or the selection of the cardholder. Possible values:</p> <ul style="list-style-type: none"> • 0: Card type selected by default acquirer settings. • 1: Card type selected by cardholder. <p>This field is supported only on Credit Mutuel-CIC. The default value is 1.</p>	authorization (O)	String (1)
company_tax_id	<p>Company's tax identifier.</p> <p>Contact your TeleCheck representative to find out whether this field is required or optional.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	<ul style="list-style-type: none"> • sale (See description) • create_payment_token (See description) • sale,create_payment_token (See description) • update_payment_token (See description) 	<p>AlphaNumericPunctuation</p> <p>String (9)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
complete_route	<p>Concatenation of individual travel legs in the format for example:</p> <p>SFO-JFK:JFK-LHR:LHR-CDG.</p> <p>For a complete list of airport codes, see IATA's City Code Directory.</p> <p>In your request, send either the complete route or the individual legs (journey_leg#_orig and journey_leg#_dest). If you send all the fields, the value of complete_route takes precedence over that of the journey_leg# fields.</p>	<p>Optional</p> <p>See Decision Manager (on page 88).</p>	<p>AlphanumericPunctuation</p> <p>String (255)</p>
conditions_accepted	<p>Indicates whether the customer accepted the service fee amount.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • false: Customer did not accept. • true: Customer did accept. 	<p>Required when service fee is enabled for the profile.</p> <p>See Service Fees (on page 51).</p>	<p>Enumerated String (5)</p>
consumer_id	<p>Identifier for the customer's account. This field is defined when you create a subscription.</p>	<ul style="list-style-type: none"> • create_payment_token (O) • authorization,create_payment_token (O) • sale,create_payment_token (O) • update_payment_token (O) 	<p>AlphanumericPunctuation</p> <p>String (100)</p>
credential_stored_on_file	<p>Indicates whether to associate the new network transaction ID with the payment token for future merchant-initiated transactions (MITs).</p>	<p>Optional</p>	<p>String (5)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
	<p>Set this field to <code>true</code> when you use a payment token for a cardholder-initiated transaction (CIT) and you plan to set up a new schedule of MITs using an existing payment token. This will ensure that the new network transaction ID is associated with the token.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • <code>true</code> • <code>false</code> <div>  Important: In Europe, enable Payer Authentication on Secure Acceptance and set the payer_authentication_challenge_code field to <code>04</code> on the initial cardholder-initiated transaction (CIT) to ensure compliance with Strong Customer Authentication (SCA) rules. </div>		

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
cryptocurrency_purchase	<p>Flag that specifies whether the payment is for the purchase of cryptocurrency.</p> <p>This field is supported only for Visa transactions on Visa Platform Connect.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • true: Payment is for the purchase of cryptocurrency. • false (default): Payment is not for the purchase of cryptocurrency. 	Optional	String (5)
currency	<p>Currency used for the order. For the possible values, see the ISO currency codes.</p> <div>  Important: To prevent data tampering, sign this field. </div>	<ul style="list-style-type: none"> • create_payment_token (R) • authorization or sale (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	Alpha String (3)
customer_browser_color_depth	<p>Indicates the bit depth of the color palette for displaying images, in bits per pixel. Secure Acceptance automatically populates this field, but you can override it.</p> <p>For more information, see https://en.wikipedia.org/wiki/Color_depth.</p>	Optional	String (2)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
customer_browser_java_enabled	<p>Indicates the ability of the cardholder browser to execute Java. The value is returned from the navigator.javaEnabled property. Secure Acceptance automatically populates this field, but you can override it. Possible values:</p> <ul style="list-style-type: none"> • <code>true</code> • <code>false</code> 	Optional	String (5)
customer_browser_javascript_enabled	<p>Indicates the ability of the cardholder browser to execute JavaScript. This value is available from the fingerprint details of the cardholder's browser. Secure Acceptance automatically populates this field, but you can override it.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • <code>true</code> • <code>false</code> 	Optional	String (5)
customer_browser_language	<p>Indicates the browser language as defined in IETF BCP47. Secure Acceptance automatically populates this field, but you can override it.</p> <p>For more information, see https://en.wikipedia.org/wiki/IETF_language_tag.</p>	Optional	String (8)
customer_browser_screen_height	<p>Total height of the customer's screen in pixels. Secure Acceptance automatically populates this field, but you can override it.</p> <p>Example: 864</p>	Optional	String (6)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
customer_browser_screen_width	Total width of the customer's screen in pixels. Secure Acceptance automatically populates this field, but you can override it.	Optional	String (6)
customer_browser_time_difference	Difference between UTC time and the cardholder browser local time, in minutes. Secure Acceptance automatically populates this field, but you can override it.	Optional	String (5)
customer_cookies_accepted	Indicates whether the customer's browser accepts cookies. Possible values: <ul style="list-style-type: none"> • true: Customer browser accepts cookies. • false: Customer browser does not accept cookies. 	Optional See Decision Manager (on page 88) .	Enumerated String (5)
customer_gift_wrap	Indicates whether the customer requested gift wrapping for this purchase. Possible values: <ul style="list-style-type: none"> • true: Customer requested gift wrapping. • false: Customer did not request gift wrapping. 	Optional See Decision Manager (on page 88) .	Enumerated String (5)
customer_ip_address	Customer's IP address reported by your web server using socket information.	Optional See Decision Manager (on page 88) .	IP IPv4: String (15) IPv6: String (39)


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
date_of_birth	<p>Date of birth of the customer. Use the format: yyyyMMDD.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	Optional	Date (b) String (8)
debt_indicator	<p>Flag that indicates a payment for an existing contractual loan under the VISA Debt Repayment program. Contact your processor for details and requirements. Possible formats:</p> <ul style="list-style-type: none">• <code>false</code> (default): Not a loan payment.• <code>true</code>: Loan payment.	Optional	Enumerated String (5)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
departure_time	<p>Departure date and time of the first leg of the trip. Use one of these formats:</p> <ul style="list-style-type: none">• yyyy-MM-DD HH:mm z• yyyy-MM-DD hh:mm a z• yyyy-MM-DD hh:mma z• HH = 24-hour format• hh = 12-hour format• a = am or pm (case insensitive)• z = time zone of the departing flight. <p>Examples</p> <ul style="list-style-type: none">• 2023-01-20 23:30 GMT• 2023-01-20 11:30 PM GMT• 2023-01-20 11:30pm GMT	<p>Optional</p> <p>See Decision Manager (on page 88).</p>	<p>Date (c)</p> <p>DateTime (29)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
device_fingerprint_id	<p>Field that contains the session ID for the fingerprint. The string can contain uppercase and lowercase letters, digits, and these special characters: hyphen (-) and underscore (_)</p> <p>However, do not use the same uppercase and lowercase letters to indicate different session IDs.</p> <p>The session ID must be unique for each merchant ID. You can use any string that you are already generating, such as an order number or web session ID.</p> <div>  Important: The Cybersource-generated device fingerprint ID overrides the merchant-generated device fingerprint ID. </div>	<p>Optional</p> <p>See Decision Manager (on page 88).</p>	<p>AlphanumericPunctuation</p> <p>String (88)</p>
driver_license_number	<p>Driver's license number of the customer.</p> <p>Contact your TeleCheck representative to find out whether this field is required or optional. If you include this field in your request then you must also include the driver_license_state field.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	<ul style="list-style-type: none"> • sale (See description) • create_payment_token (See description) • sale,create_payment_token (See description) • update_payment_token (See description) 	<p>Alphanumeric</p> <p>String (30)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
driver_license_state	<p>State or province where the customer's driver's license was issued.</p> <p>For the U.S. and Canada, use the standard state, province, and territory codes.</p> <p>Contact your TeleCheck representative to find out whether this field is required or optional.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	<ul style="list-style-type: none"> • sale (See description) • create_payment_token (See description) • sale,create_payment_token (See description) • update_payment_token (See description) 	Alpha String (2)
e_commerce_indicator	<p>Commerce indicator for the transaction type.</p> <p>Value: <code>install</code></p> <p>This field is required only for installment payments on Cybersource Latin American Processing.</p>	authorization (See description)	String (20)
echeck_account_number	<p>Account number.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	<ul style="list-style-type: none"> • sale (R) • create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	Numeric Non-negative integer (8 to 17)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
echeck_account_type	<p>Account type. Possible values:</p> <ul style="list-style-type: none"> • C: Checking • S: Savings (USD only) • X: Corporate checking (USD only) • G: General Ledger <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	<ul style="list-style-type: none"> • sale (R) • create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	Enumerated String (1)
echeck_check_number	<p>Check number.</p> <p>If your payment processor is TeleCheck, you should include this field.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	<ul style="list-style-type: none"> • sale (See description) • create_payment_token (See description) • sale,create_payment_token (See description) • update_payment_token (See description) 	Numeric Integer (8)
echeck_effective_date	<p>Effective date for the transaction. This date must be within 45 days of the current date.</p> <p>Format: MMDDyyyy</p>	<ul style="list-style-type: none"> • sale (O) • sale,create_payment_token (O) 	<p>Date (b)</p> <p>String (8)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
echeck_routing_number	<p>Bank routing number.</p> <p>If the currency being used is CAD, the maximum length of the routing number is 8 digits.</p> <p>If the currency being used is USD, the maximum length of the routing number is 9 digits.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Echeck Information Fields (on page 30).</p>	<ul style="list-style-type: none"> • sale (R) • create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>Numeric</p> <p>Non-negative integer (See description)</p>
echeck_sec_code	<p>Authorization method used for the transaction. See SEC Codes (on page 205).</p> <p>Bank of America ACH possible values:</p> <ul style="list-style-type: none"> • CCD • PPD • TEL • WEB <p>Chase Paymentech Solutions in Canada, use WEB for all ACH transactions.</p> <p>Chase Paymentech Solutions in the U.S. possible values:</p>	<ul style="list-style-type: none"> • sale (O) • create_payment_token (O) • sale,create_payment_token (O) • update_payment_token (O) 	<p>Enumerated String (3)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
	<ul style="list-style-type: none"> • CCD • PPD • TEL • WEB <p>TeleCheck possible values:</p> <ul style="list-style-type: none"> • PPD • TEL • WEB <p>Wells Fargo ACH possible values:</p> <ul style="list-style-type: none"> • CCD • PPD • TEL • WEB 		
health_care_#_amount	Amount of the healthcare payment. # can range from 0 to 4. Send this field with a corresponding health_care_#_amount_type field.	authorization (O)	String (13)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
health_care_#_amount_type	<p>Type of healthcare payment. # can range from 0 to 4.</p> <p>Mastercard possible values:</p> <ul style="list-style-type: none"> • <code>eligible-total</code>: total amount of healthcare. • <code>prescription</code> <p>Visa possible values:</p> <ul style="list-style-type: none"> • <code>clinic</code> • <code>dental</code> • <code>healthcare</code>: total amount of healthcare. • <code>healthcare-transit</code> • <code>prescription</code> • <code>vision</code> <p>Send this field with a corresponding health_care_#_amount field.</p>	authorization (O)	String (35)
ignore_avs	<p>Ignore the results of AVS verification. Possible values:</p> <ul style="list-style-type: none"> • <code>true</code> • <code>false</code> <div>  Important: To prevent data tampering, sign this field. </div>	Optional	Enumerated String (5)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ignore_cvn	<p>Ignore the results of CVN verification. Possible values:</p> <ul style="list-style-type: none">• <code>true</code>• <code>false</code> <div> Important: To prevent data tampering, sign this field.</div>	Optional	Enumerated String (5)
industry_datatype	<p>Indicates whether the transaction includes industry data. For certain industries, you must set this field to an industry data value to be sent to the processor. When this field is not set to an industry value or is not included in the request, industry data does not go to the processor.</p> <p>Possible values:</p> <ul style="list-style-type: none">• <code>healthcare_medical</code>• <code>healthcare_transit</code>	authorization (O)	String (20)
installment_amount	<p>Amount for the current installment payment.</p> <p>This field is required only for installment payments on Cybersource Latin American Processing or Visa Platform Connect.</p>	authorization (See description)	Amount (12)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
installment_frequency	<p>Frequency of the installment payments. Possible values:</p> <ul style="list-style-type: none"> • B: Biweekly • M: Monthly • W: Weekly <p>This field is supported only on Visa Platform Connect.</p>	authorization (See description)	AlphaNumeric (2)
installment_plan_type	<p>Flag that indicates the type of funding for the installment plan associated with the payment. Possible values:</p> <ul style="list-style-type: none"> • 1: Merchant-funded installment plan • 2: Issuer-funded installment plan <p>If you do not include this field in the request, the value in your account is used. To change this value, contact customer support.</p> <p>Visa Platform Connect</p> <p>American Express-defined code that indicates the type of installment plan for this transaction. Contact American Express for:</p> <ul style="list-style-type: none"> • Information about the types of installment plans that American Express provides. • Values for this field. 	authorization (See description)	<p>Cybersource Latin American Processing: String (1)</p> <p>Visa Platform Connect: String (2)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
installment_sequence	<p>Installment number when making payments in installments. Used along with installment_total_count to keep track of which payment is being processed. For example, the second of five payments would be passed as installment_sequence = 2 and installment_total_count = 5.</p> <p>This field is required only for installment payments on Visa Platform Connect.</p>	authorization (See description)	Integer (2)
installment_total_amount	<p>Total amount of the loan that is being paid in installments.</p> <p>This field is required only for installment payments on Cybersource Latin American Processing and Visa Platform Connect.</p>	authorization (see description)	Amount (12)
installment_total_count	<p>Total number of installment payments as part of an authorization.</p> <p>Possible values: 1 to 99</p> <p>This field is required only for installment payments on Cybersource Latin American Processing and Visa Platform Connect.</p>	authorization (See description)	Numeric String (2)
issuer_additional_data	<p>Data defined by the issuer.</p> <p>See the “Discretionary Data” section in <i>Credit Card Services Optional Features SCMP API Supplement</i> or <i>Credit Card Services Optional Features Simple Order API Supplement</i>.</p>	authorization (O)	Alphanumeric String (256)


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
item_#_code	Type of product. # can range from 0 to 199.	Optional If you include this field, you must also include the line_item_count field.	AlphaNumericPunctuation String (255)
item_#_name	Name of the item. # can range from 0 to 199. This field is required when the item_#_code value is not default nor related to shipping or handling.	See description. If you include this field, you must also include the line_item_count field.	AlphaNumericPunctuation String (255)
item_#_passenger_email	Passenger's email address.	Optional See Decision Manager (on page 88) .	String (255)
item_#_passenger_forename	Passenger's first name.	Optional See Decision Manager (on page 88) .	String (60)
item_#_passenger_id	ID of the passenger to whom the ticket was issued. For example, you can use this field for the frequent flyer number.	Optional See Decision Manager (on page 88) .	String (32)
item_#_passenger_phone	Passenger's phone number. If the order is from outside the U.S., include the country code.	Optional See Decision Manager (on page 88) .	String (15)
item_#_passenger_status	Your company's passenger classification, such as with a frequent flyer number. In this case, you might use values such as standard, gold, or platinum.	Optional See Decision Manager (on page 88) .	String (32)
item_#_passenger_surname	Passenger's last name.	Optional See Decision Manager (on page 88) .	String (60)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
item_#_passenger_type	<p>Passenger classification associated with the price of the ticket.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • ADT: Adult • CNN: Child • INF: Infant • YTH: Youth • STU: Student • SCR: Senior Citizen • MIL: Military 	<p>Optional</p> <p>See Decision Manager (on page 88).</p>	String (32)
item_#_quantity	<p>Quantity of line items. The default value is 1.</p> <p>Required field when one of these product codes is used:</p> <ul style="list-style-type: none"> • adult_content • coupon • electronic_good • electronic_software • gift_certificate • service • subscription <p># can range from 1 to 199.</p> <p>This field is required when the item_#_code value is not default nor related to shipping or handling.</p>	<p>See description.</p> <p>If you include this field, you must also include the line_item_count field.</p>	<p>Numeric</p> <p>String (10)</p>



Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
item_#_sku	<p>Identification code for the product.</p> <p>Required field when one of these product codes is used:</p> <ul style="list-style-type: none"> • adult_content • coupon • electronic_good • electronic_software • gift_certificate • service • subscription <p># can range from 0 to 199.</p>	<p>See description.</p> <p>If you include this field, you must also include the line_item_count field.</p>	<p>AlphanumericPunctuation</p> <p>String (255)</p>
item_#_tax_amount	<p>Tax amount to apply to the line item. # can range from 0 to 199. This value cannot be negative. The tax amount and the offer amount must be in the same currency.</p>	<p>Optional</p> <p>If you include this field, you must also include the line_item_count field.</p>	<p>Amount</p> <p>String (15)</p>
item_#_unit_price	<p>Price of the line item. # can range from 0 to 199. This value cannot be negative.</p> <div>  <p>Important: You must include either this field or the amount field in the request.</p> </div>	<p>See description.</p> <p>If you include this field, you must also include the line_item_count field.</p>	<p>Amount</p> <p>String (15)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
journey_leg#_dest	<p>Airport code for the destination leg of the trip, designated by the pound (#) symbol in the field name. A maximum of 30 legs can be included in the request. This code is usually three digits long, for example: SFO = San Francisco. Do not use the colon (:) or the hyphen (-). For a complete list of airport codes, see IATA's City Code Directory.</p> <p>In your request, send either the complete_route field or the individual legs (journey_leg#_orig and journey_leg#_dest). If you send all the fields, the complete route takes precedence over the individual legs.</p>	<p>Optional</p> <p>See Decision Manager (on page 88).</p>	<p>Alpha</p> <p>String (3)</p>
journey_leg#_orig	<p>Airport code for the origin leg of the trip, designated by the pound (#) symbol in the field name. A maximum of 30 legs can be included in the request. This code is usually three digits long, for example: SFO = San Francisco. Do not use the colon (:) or the hyphen (-). For a complete list of airport codes, see IATA's City Code Directory.</p> <p>In your request, send either the complete_route field or the individual legs (journey_leg#_orig and journey_leg#_dest). If you send all the fields, the complete route takes precedence over the individual legs.</p>	<p>Optional</p> <p>See Decision Manager (on page 88).</p>	<p>Alpha</p> <p>String (3)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
journey_type	Type of travel, such as one way or round trip.	Optional See Decision Manager (on page 88) .	AlphaNumericPunctuation String (32)
line_item_count	Total number of line items. Maximum number is 200.	This field is required when you include any item fields in the request.	Numeric String (2)
locale	Indicates the language to use for customer-facing content. Possible value: <code>en-us</code> . See "Activating a Profile" (on page 42) .  Important: To prevent data tampering, sign this field.	Required by the Secure Acceptance application.	Locale String (5)
merchant_defined_data#	Optional fields that you can use to store information (see Configuring Customer Notifications (on page 33)). # can range from <code>1</code> to <code>100</code> . Merchant-defined data fields <code>1</code> to <code>4</code> are associated with the payment token and are used for subsequent token based transactions. Merchant defined data fields <code>5</code> to <code>100</code> are passed through to Decision Manager as part of the initial payment request and are not associated with the payment token.  Important: Merchant-defined data fields are not intended to and MUST NOT be used to capture personally identifying information. Accordingly, merchants are prohibited from	Optional See Decision Manager (on page 88) .	AlphaNumericPunctuation String (100)


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
	 capturing, obtaining, and/or transmitting any personally identifying information in or via the merchant-defined data fields and any Secure Acceptance field that is not specifically designed to capture personally identifying information. Personally identifying information includes, but is not limited to, card number, bank account number, social security number, driver's license number, state-issued identification number, passport number, card verification numbers (CVV, CVC2, CVV2, CID, CVN). If it is discovered that a merchant is capturing and/or transmitting personally identifying information via the merchant-defined data fields, whether or not intentionally, the merchant's account WILL immediately be suspended, which will result in a rejection of any and all transaction requests submitted by the merchant after the point of suspension.		

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
merchant_descriptor merchant_descriptor_altername merchant_descriptor_city merchant_descriptor_contact merchant_descriptor_country merchant_descriptor_postal_code merchant_descriptor_state merchant_descriptor_street	For the descriptions, used-by information, data types, and lengths for these fields, see the Merchant Descriptors Developer Guides .	authorization (See description)	
merchant_secure_data1 merchant_secure_data2 merchant_secure_data3	Optional fields that you can use to store information. The data is encrypted before it is stored in the payment repository.	Optional	AlphaNumericPunctuation String (100)
merchant_secure_data4	Optional field that you can use to store information. The data is encrypted before it is stored in the payment repository.	Optional	AlphaNumericPunctuation String (2000)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
override_backoffice_post_url	Overrides the backoffice post URL profile setting with your URL. URL must be HTTPS and support TLS 1.2 or later.	Optional	URL String (255)
override_custom_cancel_page	Overrides the custom cancel page profile setting with your URL. URL must be HTTPS and support TLS 1.2 or later.	Optional	URL String (255)
override_custom_receipt_page	<p>Overrides the custom receipt profile setting with your URL. URL must be HTTPS and support TLS 1.2 or later.</p> <div>  Important: To prevent data tampering, sign this field. </div>	Optional	URL String (255)
override_customer_utc_offset	<p>Overrides the transaction date and time with the number of minutes the customer is ahead of or behind UTC. Use this field to override the local browser time detected by Secure Acceptance. This time determines the date on receipt pages and emails.</p> <p>For example, if the customer is 2 hours ahead, the value is <code>120</code>; if 2 hours behind, then <code>-120</code>; if UTC, the value is <code>0</code>.</p>	Optional	Integer (5)
override_paypal_order_setup	<p>Overrides the PayPal order setup profile setting. Possible values:</p> <ul style="list-style-type: none"> <code>include_authorization</code>: The PayPal order is created and authorized. <code>exclude_authorization</code>: The PayPal order is created but not authorized. 	<p>Optional</p> <p>See Enabling PayPal Express Checkout (on page 25).</p>	String (21)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payer_authentication_acquirer_country	Send this to tell issuers that the acquirer's country differs from the merchant country, and the acquirer is in the European Economic Area (EEA) and UK and Gibraltar.	Optional	String (2)
payer_authentication_acs_window_size	<p>Sets the challenge window size that displays to the cardholder. The Access Control Server (ACS) replies with content that is formatted appropriately for this window size. The sizes are width x height in pixels. Secure Acceptance calculates this value based on the size of the window in which Secure Acceptance is displayed, but you can override it.</p> <p>Possible values:</p> <ul style="list-style-type: none">• 01: 250 x 400• 02: 390 x 400• 03: 500 x 600• 04: 600 x 400• 05: Full page	Optional	Integer (2)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payer_authentication_challenge_code	<p>Possible values:</p> <ul style="list-style-type: none"> • 01: No preference • 02: No challenge request • 03: Challenge requested (3-D Secure requestor preference) • 04: Challenge requested (mandate) • 05: No challenge requested (transactional risk analysis is already performed) • 06: No challenge requested (data share only) • 07: No challenge requested (strong consumer authentication is already performed) • 08: No challenge requested (use whitelist exemption if no challenge required) • 09: Challenge requested (whitelist prompt requested if challenge required) <p>This field will default to 01 on merchant configuration and can be overridden by the merchant. EMV 3-D Secure 2.1.0 supports values 01-04. Version 2.2.0 supports values 01-09.</p>	Optional	Integer (2)
payer_authentication_customer_annual_transaction_count	<p>Number of transactions (successful and abandoned) for this cardholder account within the past year.</p>	Optional	Integer (3)


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payer_authentication_customer_daily_transaction_count	Number of transaction (successful or abandoned) for this cardholder account within the past 24 hours.	Optional	Integer (3)
payer_authentication_indicator	<p>Indicates the type of authentication request. Secure Acceptance automatically populates this field, but you can override it.</p> <p>Possible values:</p> <ul style="list-style-type: none">• 01: Payment transaction• 02: Recurring transaction• 03: Installment transaction• 04: Add card• 05: Maintain card• 06: Cardholder verification as part of EMV token identity and verification (ID&V)	Optional	Integer (2)
payer_authentication_marketing_source	Indicates origin of the marketing offer.	Optional	String (40)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payer_authentication_merchant_fraud_rate	<p>Calculated by merchants according to Payment Service Directive 2 (PSD2) and Regulatory Technical Standards (RTS). European Economic Area (EEA) and UK and Gibraltar card fraud divided by all EEA and UK and Gibraltar card volumes.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • 1: Represents fraud rate ≤ 1 • 2: Represents fraud rate > 1 and ≤ 6 • 3: Represents fraud rate > 6 and ≤ 13 • 4: Represents fraud rate > 13 and ≤ 25 • 5: Represents fraud rate > 25 	Optional	Integer (2)
payer_authentication_merchant_name	Your company's name as you want it to appear to the customer in the issuing bank's authentication form. This value overrides the value specified by your merchant bank.	Optional	String (25)
payer_authentication_merchant_score	Risk score provided by merchants. Used for Cartes Bancaires transactions.	Optional	String (20)
payer_authentication_message_category	<p>Identifies the category of the message for a specific use case 3-D Secure Server.</p> <p>Possible values:</p>	Optional	String (2)


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
	<ul style="list-style-type: none"> • 01: PA (payment authentication). • 02: NPA (non-payment authentication). • 03-71: Reserved for EMVCo future use (values invalid until defined by EMVCo). • 80-99: Reserved for directory server use. 		
payer_authentication_mobile_phone	<p>Cardholder's mobile phone number.</p> <div>  Important: Required for Visa Secure transactions in Brazil. Do not use this request field for any other types of transactions. </div>	Optional	Integer (25)
payer_authentication_new_customer	<p>Indicates whether the customer is a new or existing customer with the merchant.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • true • false 	Optional	String (5)
payer_authentication_pre_order	<p>Indicates whether cardholder is placing an order with a future availability or release date.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • 01: Merchandise available • 02: Future availability 	Optional	Integer (2)
payer_authentication_pre_order_date	<p>Expected date that a pre-ordered purchase will be available.</p> <p>Format: yyyyMMDD</p>	Optional	Integer (8)


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payer_authentication_prior_authentication_data	Data that the ACS can use to verify the authentication process.	Optional	String (2048)
payer_authentication_prior_authentication_method	<p>Method that the cardholder used previously to authenticate to the 3-D Secure requester.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • 01: Frictionless authentication through the ACS • 02: Cardholder challenge through the ACS • 03: AVS verified • 04: Other issuer methods • 05-79: Reserved for EMVCo future use (values invalid until defined by EMVCo) • 80-99: Reserved for directory server use 	Optional	Integer (2)
payer_authentication_prior_authentication_reference_id	This field contains the ACS transaction ID for an authenticated transaction. For example, the first recurring transaction that was authenticated with the cardholder.	Optional	String (36)
payer_authentication_prior_authentication_time	<p>Date and time in UTC of the previous cardholder authentication.</p> <p>Format: yyyyMMDDhhmm</p>	Optional	Integer (12)
payer_authentication_product_code	<p>Specifies the product code, which designates the type of transaction.</p> <p>Possible values:</p>	Optional	String (3)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
	<ul style="list-style-type: none"> • AIR: Airline purchase <div>  Important: Required for American Express SafeKey (U.S.). </div> <ul style="list-style-type: none"> • ACC: Accommodation Rental • ACF: Account funding • CHA: Check acceptance • DIG: Digital Goods • DSP: Cash Dispensing • GAS: Fuel • GEN: General Retail • LUX: Luxury Retail • PAL: Prepaid activation and load • PHY: Goods or services purchase • QCT: Quasi-cash transaction • REN: Car Rental • RES: Restaurant • SVC: Services • TBD: Other • TRA: Travel 		

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
	 Important: Required for Visa Secure transactions in Brazil. Do not use this request field for any other types of transactions.		
payer_authentication_recurring_end_date	<p>The date after which no further recurring authorizations should be performed. Format: yyyyMMDD.</p> <p>This field is required for recurring transactions. If recurring_frequency and recurring_number_of_installments are included in the request, Secure Acceptance will automatically populate this field. Specify a value to override this logic.</p>	Optional	Integer (8)
payer_authentication_recurring_frequency	<p>Integer value indicating the minimum number of days between recurring authorizations. A frequency of monthly is indicated by the value 28. Multiple of 28 days will be used to indicate months.</p> <p>Example:</p> <p>6 months= 168</p> <p>This field is required for recurring transactions. If recurring_frequency is included in the request, Secure Acceptance will automatically populate this field. Specify a value to override this logic.</p>	Optional	Integer (3)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payer_authentication_reorder	<p>Indicates whether the cardholder is reordering previously purchased merchandise.</p> <p>Possible values:</p> <ul style="list-style-type: none">• 01: First time ordered• 02: Reordered	Optional	Integer (2)
payer_authentication_secure_corporate_payment	<p>Indicates that dedicated payment processes and procedures were used. Potential secure corporate payment exemption applies.</p> <p>Possible values:</p> <ul style="list-style-type: none">• 0• 1	Optional	String (1)
payer_authentication_ship_to_address_first_used	<p>Date on which this shipping address was first used.</p> <p>Possible values:</p> <ul style="list-style-type: none">• -1: Guest account• 0: First used during this transaction <p>If neither value applies, enter the date in yyyyMMDD format.</p>	Optional	Integer (8)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payer_authentication_transaction_mode	<p>Transaction mode identifier. Identifies the channel from which the transaction originates.</p> <p>Possible values:</p> <ul style="list-style-type: none">• M: MOTO (Mail Order Telephone Order)• R: Retail• S: E-commerce• P: Mobile Device• T: Tablet	Required by the Secure Acceptance application.	String (1)
payer_authentication_whitelisted	<p>Enables the communication of trusted beneficiary and whitelist status among the ACS, the directory server, and the 3-D Secure requester.</p> <p>Possible values:</p> <ul style="list-style-type: none">• true: 3-D Secure requester is whitelisted by cardholder• false: 3-D Secure requester is not whitelisted by cardholder	Optional	String (5)
payment_method	<p>Method of payment. Possible values:</p> <ul style="list-style-type: none">• card• echeck• paypal• visacheckout	Optional	Enumerated String (30)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
payment_token	<p>Identifier for the payment details. The payment token retrieves the card data, billing information, and shipping information from the payment repository. When this field is included in the request, the card data and billing and shipping information are optional.</p> <p>You must be using Token Management Services. Populate this field with the customer token.</p> <p>This field is required for token-based transactions.</p>	<ul style="list-style-type: none">• authorization or sale (R)• authorization,update_payment_token (R)• sale,update_payment_token (R)• update_payment_token (R)	<p>Numeric</p> <p>String (32)</p>
payment_token_comments	Optional comments you can add for the customer token.	Optional	<p>AlphanumericPunctuation</p> <p>String (255)</p>
payment_token_title	Name or title for the customer token.	Optional	<p>AlphanumericPunctuation</p> <p>String (60)</p>
profile_id	Identifies the profile to use with each transaction.	Assigned by the Secure Acceptance application.	<p>ASCIAlphaNumericPunctuation</p> <p>String (36)</p>
promotion_code	Promotion code for a transaction.	Optional	String (100)
recipient_account_id	Identifier for the recipient's account. Use the first six digits and last four digits of the recipient's account number.	authorization (R for recipient transactions, otherwise not used)	<p>Numeric</p> <p>String (10)</p>
recipient_date_of_birth	<p>Recipient's date of birth.</p> <p>Format: yyyyMMDD.</p>	authorization (R for recipient transactions, otherwise not used)	<p>Date (b)</p> <p>String (8)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
recipient_postal_code	<p>Partial postal code for the recipient's address.</p> <p>For example, if the postal code is NN5 7SG, the value for this field should be the first part of the postal code: NN5.</p>	authorization (R for recipient transactions, otherwise not used)	<p>Alphanumeric</p> <p>String (6)</p>
recipient_surname	Recipient's last name.	authorization (R for recipient transactions, otherwise not used)	<p>Alpha</p> <p>String (6)</p>
recurring_amount	Payment amount for each installment or recurring subscription payment.	<ul style="list-style-type: none"> • create_payment_token (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	<p>Amount</p> <p>String (15)</p>
recurring_automatic_renew	<p>Indicates whether to automatically renew the payment schedule for an installment subscription. Possible values:</p> <ul style="list-style-type: none"> • true (default): Automatically renew. • false: Do not automatically renew. 	<ul style="list-style-type: none"> • create_payment_token (O) • authorization,create_payment_token (O) • sale,create_payment_token (O) • update_payment_token (O) 	<p>Enumerated</p> <p>String (5)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
recurring_frequency	<p>Frequency of payments for an installment or recurring subscription. Possible values:</p> <ul style="list-style-type: none"> • weekly: Every 7 days. • bi-weekly: Every 2 weeks. • quad-weekly: Every 4 weeks. • monthly • semi-monthly: Twice every month (1st and 15th). • quarterly • semi-annually: Twice every year. • annually 	<ul style="list-style-type: none"> • create_payment_token (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	Enumerated String (20)
recurring_number_of_installments	<p>Total number of payments set up for an installment subscription.</p> <p>Maximum values:</p> <ul style="list-style-type: none"> • 261: Weekly • 130: Bi-weekly • 65: Quad-weekly • 60: Monthly • 120: Semi-monthly • 20: Quarterly • 10: Semi-annually • 5: Annually 	<ul style="list-style-type: none"> • create_payment_token (R) • authorization,create_payment_token (R) • sale,create_payment_token (R) • update_payment_token (O) 	Numeric String (3)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
recurring_start_date	First payment date for an installment or recurring subscription payment. Date must use the format yyyyMMDD. If a date in the past is supplied, the start date defaults to the day after the date was entered.	<ul style="list-style-type: none"> • create_payment_token (O) • authorization,create_payment_token (O) • sale,create_payment_token (O) • update_payment_token (O) 	Date (b) String (8)
reference_number	Unique merchant-generated order reference or tracking number for each transaction. <div>  Important: To prevent data tampering, sign this field. </div>	Required by the Secure Acceptance application.	AlphaNumericPunctuation Asia, Middle East, and Africa Gateway: String (40) Atos: String (32) All other processors: String (50)
returns_accepted	Indicates whether product returns are accepted. This field can contain one of these values: <ul style="list-style-type: none"> • true • false 	Optional See Decision Manager (on page 88) .	Enumerated String (5)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
sales_organization_id	<p>Company ID assigned to an independent sales organization. Obtain this value from Mastercard.</p> <p>Visa Platform Connect</p> <p>The value for this field corresponds to this data in the TC 33 capture file:</p> <p>Record: CP01 TCR6</p> <p>Position: 106-116</p> <p>Field: Mastercard Independent Sales Organization ID</p>	authorization (Required for Mastercard aggregator transactions on Visa Platform Connect)	Nonnegative integer (11)
ship_to_address_city	<p>City of shipping address.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	AlphaNumericPunctuation String (50)
ship_to_address_country	<p>Country code for the shipping address. Use the two-character ISO country codes.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	Alpha String (2)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_address_line1	First line of shipping address. This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29) .	Optional	AlphaNumericPunctuation String (60)
ship_to_address_line2	Second line of shipping address. This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29) .	Optional	AlphaNumericPunctuation String (60)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_address_postal_code	<p>Postal code for the shipping address.</p> <p>This field is required if bill_to_address_country is U.S. or Canada.</p> <p>When the billing country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits]</p> <p>Example: 12345-6789</p> <p>When the billing country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric]</p> <p>Example: A1B 2C3</p> <p>For the rest of the world countries, the maximum length is 10.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	AlphaNumericPunctuation See description.

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_address_state	<p>State or province of shipping address. For the U.S. and Canada, use the standard state, province, and territory codes.</p> <p>This field is required if shipping address is U.S. or Canada.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	<p>AlphaNumericPunctuation</p> <p>String (2)</p>
ship_to_company_name	<p>Name of the company receiving the product.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	<p>AlphaNumericPunctuation</p> <p>String (40)</p>
ship_to_forename	<p>First name of the person receiving the product.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	<p>AlphaNumericPunctuation</p> <p>String (60)</p>



Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_phone	<p>Phone number of the shipping address.</p> <p>This value can be entered by your customer during the checkout process, or you can include this field in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	Phone String (6 to 15)
ship_to_surname	<p>Last name of the person receiving the product.</p> <p>This can be entered by your customer during the checkout process, or you can include this in your request to Secure Acceptance. See Configuring Shipping Information Fields (on page 29).</p>	Optional	AlphaNumericPunctuation String (60)
ship_to_type	<p>Shipping destination.</p> <p>Example: Commercial, residential, store</p>	Optional	String (25)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
shipping_method	<p>Shipping method for the product. Possible values:</p> <ul style="list-style-type: none">• sameday: Courier or same-day service• oneday: Next day or overnight service• twoday: Two-day service• threeday: Three-day service• lowcost: Lowest-cost service• pickup: Store pickup• other: Other shipping method• none: No shipping method	Optional	Enumerated String String (10)
signature	Merchant-generated Base64 signature. This is generated using the signing method for the access_key field supplied.	Required by the Secure Acceptance application.	AlphaNumericPunctuation

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
signed_date_time	<p>Date and time that the signature was generated. Must be in UTC Date & Time format. This field is used to check for duplicate transaction attempts.</p> <p>Format: yyyy-MM-DDThh:mm:ssZ</p> <p>Example: 2020-08-11T22:47:57Z equals August 11, 2020, at 22:47:57 (10:47:57 p.m.). The T separates the date and the time. The Z indicates UTC.</p> <p>Your system time must be accurate to avoid payment processing errors related to the signed_date_time field.</p> <div>  Important: To prevent data tampering, sign this field. </div>	Required by the Secure Acceptance application.	ISO 8601 Date String (20)
signed_field_names	<p>A comma-separated list of request fields that are signed. This field is used to generate a signature that is used to verify the content of the transaction to protect it from tampering.</p> <div>  Important: All request fields should be signed to prevent data tampering, with the exception of the card_number, card_cvn, and signature fields. </div>	Required by the Secure Acceptance application.	AlphaNumericPunctuation Variable

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
skip_auto_auth	<p>Indicates whether to skip or perform the preauthorization check when creating this token.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • <code>true</code> (skip the preauthorization check) • <code>false</code> (perform the preauthorization check) 	Optional	Enumerated String (5)
skip_decision_manager	<p>Indicates whether to skip Decision Manager. This field can contain one of these values:</p> <ul style="list-style-type: none"> • <code>true</code>: Decision Manager is not enabled for this transaction, and the device fingerprint ID will not be displayed. • <code>false</code> 	<p>Optional</p> <p>See Decision Manager (on page 88).</p>	Enumerated String (5)
submerchant_city	<p>Sub-merchant's city.</p> <p>FDC Compass</p> <p>This value must consist of uppercase characters.</p>	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: not used.</p> <p>FDC Compass: R for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	<p>American Express Direct: String (15)</p> <p>FDC Compass: String (21)</p> <p>FDC Nashville Global: String (11)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
submerchant_country	<p>Sub-merchant's country. Use the two-character ISO country code.</p> <p>FDC Compass</p> <p>This value must consist of uppercase characters.</p>	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: not used.</p> <p>FDC Compass: O for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	String (3)
submerchant_email	<p>Sub-merchant's email address.</p> <p>Visa Platform Connect</p> <p>With American Express, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCRB • Position: 25-64 • Field: American Express Seller E-mail Address 	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: O for all aggregator transactions with American Express; otherwise, not used.</p> <p>FDC Compass: O for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	<p>American Express Direct: String (40)</p> <p>Visa Platform Connect: String (40)</p> <p>FDC Compass: String (40)</p> <p>FDC Nashville Global: String (19)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
submerchant_id	<p>The ID you assigned to your sub-merchant.</p> <p>FDC Compass</p> <p>This value must consist of uppercase characters.</p> <p>Visa Platform Connect</p> <p>With American Express, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCRB • Position: 65-84 • Field: American Express Seller ID <p>With Mastercard, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCR6 • Position: 117-131 • Field: Sub-Merchant ID 	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect:</p> <ul style="list-style-type: none"> • O for all American Express aggregator transactions; • R for all Mastercard aggregator authorizations; • otherwise, not used. <p>FDC Compass: R for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	<p>American Express Direct: String (20)</p> <p>Visa Platform Connect with American Express: String (20)</p> <p>Visa Platform Connect with Mastercard: String (15)</p> <p>FDC Compass: String (20)</p> <p>FDC Nashville Global: String (14)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
submerchant_name	<p>Sub-merchant's business name.</p> <p>FDC Compass</p> <p>This value must consist of uppercase characters.</p>	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: not used.</p> <p>FDC Compass: R for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	<p>American Express Direct: String (37)</p> <p>FDC Compass with American Express: String (19)</p> <p>FDC Compass with Mastercard: String (37)</p> <p>FDC Nashville Global: String (12)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
submerchant_phone	<p>Sub-merchant's telephone number.</p> <p>Visa Platform Connect</p> <p>With American Express, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> Record: CP01 TCRB Position: 5-24 Field: American Express Seller Telephone Number <p>FDC Compass</p> <p>This value must consist of uppercase characters. Use one of these recommended formats: NNN-NNN-NNNN NNN-AAAAAAA</p>	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: O for all aggregator transactions with American Express; otherwise, not used.</p> <p>FDC Compass: R for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	<p>American Express Direct: String (20)</p> <p>Visa Platform Connect: String (20)</p> <p>FDC Compass: String (13)</p> <p>FDC Nashville Global: String (10)</p>
submerchant_postal_code	<p>Partial postal code for the sub-merchant's address.</p> <p>FDC Compass</p> <p>This value must consist of uppercase characters.</p>	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: not used.</p> <p>FDC Compass: O for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	<p>American Express Direct: String (9)</p> <p>FDC Compass: String (15)</p> <p>FDC Nashville Global: String (9)</p>


Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
submerchant_state	<p>Sub-merchant's state or province. For the U.S. and Canada, use the standard state, province, and territory codes.</p> <p>FDC Compass</p> <p>This value must consist of uppercase characters.</p>	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: not used.</p> <p>FDC Compass: O for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	String (2)
submerchant_street	<p>First line of the sub-merchant's street address.</p> <p>FDC Compass</p> <p>This value must consist of uppercase characters.</p>	<p>authorization</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: not used.</p> <p>FDC Compass: O for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	<p>American Express Direct: String (30)</p> <p>FDC Compass: String (38)</p> <p>FDC Nashville Global: String (25)</p>
tax_amount	<p>Total tax amount to apply to the order. This value cannot be negative.</p> <div>  Important: To prevent data tampering, sign this field. </div>	Optional	<p>Amount</p> <p>String (15)</p>

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
transaction_reason	Recurring payment indicator. Set this field to <code>setup_recurring</code> when creating a payment token for recurring payments.	<ul style="list-style-type: none"> • create_payment_token (O) • authorization,create_payment_token (O) • sale,create_payment_token (O) 	String (15)
transaction_type	<p>The type of transaction. Possible values:</p> <ul style="list-style-type: none"> • <code>authorization</code> • <code>authorization,create_payment_token</code> • <code>authorization,update_payment_token</code> • <code>sale</code> • <code>sale,create_payment_token</code> • <code>sale,update_payment_token</code> • <code>create_payment_token</code> • <code>update_payment_token</code> <p>Only authorization and sale are supported for Visa Click to Pay transactions.</p> <div>  Important: To prevent data tampering, sign this field. </div>	Required by the Secure Acceptance application.	Enumerated String (60)

Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
transaction_uuid	<p>Unique merchant-generated identifier. Include with the access_key field for each transaction. This identifier must be unique for each transaction. This field is used to check for duplicate transaction attempts.</p> <div> Important: To prevent data tampering, sign this field.</div>	Required by the Secure Acceptance application.	ASCIIAlpha NumericPunctuation String (50)

Response Fields

Response fields are sent using these notification methods:

- Merchant POST URL. See ["Merchant Notifications" \(on page 31\)](#).
- Merchant POST Email. See ["Merchant Notifications" \(on page 31\)](#).
- POST to the URL specified in the Transaction or Custom Cancel Response page. See ["Customer Response Page" \(on page 34\)](#).

Notification methods are enabled on the Notifications and Customer Response pages of your Secure Acceptance profile.

To ensure the integrity of the response fields, a signature is included in the response. This signature is generated using the same **secret_key** value that was used to generate the request signature.

To verify that the response fields have not been tampered with, create a signature using the fields listed in the **signed_field_names** response field. This signature must be the same value that is included in the signature response field. Refer to the receipt page that is included in the sample scripts. See ["Samples in Scripting Languages" \(on page 68\)](#).



Important: Because response fields and reason codes can be added at any time, proceed as follows:



- Parse the response data according to the names of the fields instead of their order in the response. For more information on parsing response fields, see the documentation for your scripting language.
- The signature that you generate must be the same value that is included in the signature response field.
- Your error handler should use the **decision** field to determine the transaction result if it receives a reason code that it does not recognize.

If configured, these response fields are sent back to your Merchant POST URL or email. See ["Merchant Notifications" \(on page 31\)](#). Your error handler should use the **decision** field to obtain the transaction result if it receives a reason code that it does not recognize.

The TC 33 Capture file contains information about the purchases and refunds that a merchant submits to Cybersource. Visa Platform Connect creates the TC 33 Capture file at the end of the day and sends it to the merchant's acquirer, who uses this information to facilitate end-of-day clearing processing with payment card companies.

Response Fields

Field	Description	Data Type & Length
auth_affluence_indicator	<p><i>Chase Paymentech Solutions</i></p> <p>Indicates whether a customer has high credit limits. This information enables you to market high cost items to these customers and to understand the kinds of cards that high income customers are using.</p> <p>This field is supported for Visa, Mastercard, Discover, and Diners Club.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Y: Yes • N: No • X: Does not apply/unknown <p><i>Worldpay VAP</i></p> <p>Flag that indicates that a Visa cardholder or Mastercard cardholder is in one of the affluent categories. Possible values:</p> <ul style="list-style-type: none"> • AFFLUENT: High income customer with high spending pattern (>100k USD annual income and >40k USD annual card usage). • MASS AFFLUENT: High income customer (>100k USD annual income). 	<p>Chase Paymentech Solution: String (1)</p> <p>Worldpay VAP: String (13)</p>
auth_amount	Amount that was authorized.	String (15)
auth_avs_code	AVS result code. See "AVS Codes" (on page 212) .	String (1)
auth_avs_code_raw	AVS result code sent directly from the processor. Returned only if a value is returned by the processor.	String (10)

Response Fields (continued)

Field	Description	Data Type & Length
auth_card_commercial	<p>Indicates whether the card is a commercial card, which enables you to include Level II data in your transaction requests.</p> <p>Possible values:</p> <ul style="list-style-type: none">• Y: Yes• N: No• X: Does not apply/unknown <p>This field is supported for Visa and Mastercard on Chase Paymentech Solutions.</p>	String (1)
auth_card_healthcare	<p>Indicates whether the card is a healthcare card.</p> <p>Possible values:</p> <ul style="list-style-type: none">• Y: Yes• N: No• X: Does not apply/unknown <p>This field is supported for Visa and Mastercard on Chase Paymentech Solutions.</p>	String (1)
auth_card_issuer_country	<p>Country in which the card was issued. This information enables you to determine whether the card was issued domestically or internationally.</p> <p>This field is supported for Visa, Mastercard, Discover, Diners Club, JCB, and Maestro (International) on Chase Paymentech Solutions.</p>	String (3)

Response Fields (continued)

Field	Description	Data Type & Length
auth_card_level_3_eligible	<p>Indicates whether the card is eligible for Level III interchange fees, which enables you to include Level III data in your transaction requests.</p> <p>Possible values:</p> <ul style="list-style-type: none">• Y: Yes• N: No• X: Does not apply/unknown <p>This field is supported for Visa and Mastercard on Chase Paymentech Solutions.</p>	String (1)
auth_card_payroll	<p>Indicates whether the card is a payroll card.</p> <p>Possible values:</p> <ul style="list-style-type: none">• Y: Yes• N: No• X: Does not apply/unknown <p>This field is supported for Visa, Discover, Diners Club, and JCB on Chase Paymentech Solutions.</p>	String (1)

Response Fields (continued)

Field	Description	Data Type & Length
auth_card_prepaid	<p>Indicates whether the card is a prepaid card. This information enables you to determine when a gift card or prepaid card is presented for use when establishing a new recurring billing or installment billing relationship.</p> <p>Possible values:</p> <ul style="list-style-type: none">• Y: Yes• N: No• X: Does not apply/unknown <p>This field is supported for Visa, Mastercard, Discover, Diners Club, and JCB on Chase Paymentech Solutions.</p>	String (1)
auth_card_regulated	<p>Indicates whether the card is regulated according to the Durbin Amendment. If the card is regulated, the card issuer is subject to price caps and interchange rules.</p> <p>Possible values:</p> <ul style="list-style-type: none">• Y: Yes (assets greater than \$10B)• N: No (assets less than \$10B)• X: Does not apply/unknown <p>This field is supported for Visa, Mastercard, Discover, Diners Club, and JCB on Chase Paymentech Solutions.</p>	String (1)

Response Fields (continued)

Field	Description	Data Type & Length
auth_card_signature_debit	<p>Indicates whether the card is a signature debit card. This information enables you to alter the way an order is processed.</p> <p>Possible values:</p> <ul style="list-style-type: none"> • Y: Yes • N: No • X: Does not apply/unknown <p>This field is supported for Visa, Mastercard, and Maestro (International) on Chase Paymentech Solutions.</p>	String (1)
auth_cavv_result	<p>Mapped response code for the Visa Secure and American Express SafeKey:</p> <ul style="list-style-type: none"> • See Visa Secure Response Codes (on page 219). • See American Express SafeKey Response Codes (on page 216). 	String (3)
auth_cavv_result_raw	Raw response code sent directly from the processor for Visa Secure and American Express SafeKey.	String (3)
auth_code	Authorization code. Returned only if a value is returned by the processor.	String (7)
auth_cv_result	CVN result code. See "CVN Codes" (on page 215) .	String (1)
auth_cv_result_raw	CVN result code sent directly from the processor. Returned only if a value is returned by the processor.	String (10)
auth_reconciliation_reference_number	<p>Unique number that Cybersource generates to identify the transaction.</p> <p>Ingenico ePayments</p>	String (20)

Response Fields (continued)

Field	Description	Data Type & Length
	You can use this value to identify transactions in the Ingenico ePayments Collections Report, which provides settlement information. Contact customer support for information about the report.	
auth_response	For most processors, this is the error message sent directly from the bank. Returned only if a value is returned by the processor.	String (10)
auth_time	Time of authorization in UTC.	String (20)
auth_trans_ref_no	<p>Reference number that you use to reconcile your transaction reports with your processor reports.</p> <p>For authorization requests, the transaction reference number is returned only for these processors:</p> <ul style="list-style-type: none">• American Express Direct• Asia, Middle East, and Africa Gateway• Atos• BML Direct• Chase Paymentech Solutions• Cielo• FDC Compass• FDC Nashville Global• Moneris• Visa Platform Connect• Worldpay VAP	AlphaNumeric (60)

Response Fields (continued)

Field	Description	Data Type & Length
bill_trans_ref_no	Reference number that you use to reconcile your transaction reports with your processor reports. This field is not supported on Visa Platform Connect.	AlphaNumeric (60)
card_type_name	Name of the card type. For security reasons, this field is returned only in the merchant POST URL and email notifications (not in the receipt POST through the browser).	String (50)
decision	The result of your request. Possible values: <ul style="list-style-type: none">• ACCEPT• DECLINE• REVIEW• ERROR• CANCEL See " Types of Notifications " (on page 210).	String (7)
echeck_debit_ref_no	Reference number for the transaction.	AlphaNumeric (60)
echeck_debit_submit_time	Time when the debit was requested in UTC.	Date and Time (20)
exchange_rate	Exchange rate if a currency conversion occurred. The 17 characters include the decimal point.	Decimal (17)
invalid_fields	Indicates which request fields were invalid.	Variable
message	Response message from the payment gateway.	String (255)
payer_authentication_acs_transaction_id	Unique transaction identifier assigned by the ACS to identify a single transaction.	String (36)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_cavv	Cardholder authentication verification value (CAVV). Transaction identifier generated by the issuing bank or Visa Click to Pay. This field is used by the payer authentication validation service.	String (50)
payer_authentication_challenge_type	<p>The type of 3-D Secure transaction flow that occurred. Possible values:</p> <ul style="list-style-type: none">• CH: Challenge• FR: Frictionless• FD: Frictionless with delegation (challenge not generated by the issuer but by the scheme on behalf of the issuer). <p>Used for Cartes Bancaires transactions.</p>	String (2)
payer_authentication_eci	<p>Electronic commerce indicator (ECI). This field is used by payer authentication validation and enrollment services. Possible values for Visa, American Express, and JCB:</p> <ul style="list-style-type: none">• 05: Successful authentication.• 06: Authentication attempted.• 07: Failed authentication. <p>Possible values for Mastercard:</p> <ul style="list-style-type: none">• 01: Merchant is liable.• 02: Card issuer is liable.	String (3)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_enrolle_commerce_indicator	<p>Commerce indicator for cards not enrolled. Possible values:</p> <ul style="list-style-type: none">• internet: Card not enrolled or card type not supported by payer authentication. No liability shift.• js_attempted: JCB card not enrolled, but attempt to authenticate is recorded. Liability shift.• js_failure: J/Secure directory service is not available. No liability shift.• spa: Mastercard card not enrolled in the Identity Check program. No liability shift.• vbv_attempted: Visa card not enrolled, but attempt to authenticate is recorded. Liability shift.• vbv_failure: For payment processor Barclays, Streamline, AIBMS, or FDC Germany, you receive this result if Visa's directory service is not available. No liability shift.	String (255)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_enroll_veres_enrolled	<p>Result of the enrollment check. Possible values:</p> <ul style="list-style-type: none">• Y: Card enrolled or can be enrolled; you must authenticate. Liability shift.• N: Card not enrolled; proceed with authorization. Liability shift.• U: Unable to authenticate regardless of the reason. No liability shift. <p>This field applies only to the Asia, Middle East, and Africa Gateway. If you are configured for this processor, you must send the value of this field in your authorization request.</p> <p>This value can be returned if you are using rules-based payer authentication:</p> <ul style="list-style-type: none">• B: Indicates that authentication was bypassed. <p>For rules-based payer authentication information, see the Payer Authentication Guides.</p>	String (255)
payer_authentication_network_score	The global score calculated by the Cartes Bancaires scoring platform and returned to the merchant.	Integer (2)
payer_authentication_pares_status	<p>Raw result of the authentication check. Possible values:</p> <ul style="list-style-type: none">• A: Proof of authentication attempt was generated.• N: Customer failed or cancelled authentication. Transaction denied.• U: Authentication not completed regardless of the reason.• Y: Customer was successfully authenticated.	String (255)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_pares_status_reason	Provides additional information about the PAREs status value.	Integer (2)
payer_authentication_pares_timestamp	Decrypted time stamp for the payer authentication result. Visa Click to Pay generates this value. Format: Unix time, which is also called <i>epoch time</i> .	String
payer_authentication_proof_xml	<p>XML element containing proof of enrollment verification.</p> <p>For cards not issued in the U.S. or Canada, your bank can require this data as proof of enrollment verification for any payer authentication transaction that you re-submit because of a chargeback.</p> <p>For cards issued in the U.S. or Canada, Visa can require this data for specific merchant category codes.</p> <p>This field is HTML encoded.</p> <p>This field is not returned for 3-D Secure 2.0 transactions.</p>	String (1024)
payer_authentication_reason_code	<p>Numeric value corresponding to the result of the payer authentication request.</p> <p>See "Reason Codes" (on page 206).</p>	String (5)
payer_authentication_specification_version	This field contains the 3-D Secure version that was used to process the transaction. For example, 1.0.2 or 2.0.0.	String (20)
payer_authentication_transaction_id	Payer authentication transaction identifier used by Secure Acceptance to link the enrollment check and validate authentication messages.	String (20)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_type	Indicates the type of authentication that is used to challenge the card holder. Possible values: <ul style="list-style-type: none">• 01: Static• 02: Dynamic• 03: OOB (Out of Band)	Integer (2)
payer_authentication_uad	Mastercard Identity Check UCAF authentication data. Returned only for Mastercard Identity Check transactions.	String (32)
payer_authentication_uci	Mastercard Identity Check UCAF collection indicator. This field indicates whether authentication data is collected at your website. Possible values: <ul style="list-style-type: none">• 0: Authentication data was not collected and customer authentication not completed.• 1: Authentication data was not collected because customer authentication not completed.• 2: Authentication data was collected. Customer completed authentication.	String (1)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_validate_e_commerce_indicator	<p>Indicator that distinguishes Internet transactions from other types. The authentication failed if this field is not returned. For Visa, if your payment processor is Streamline, Barclays, AIBMS, or FDC Germany, you receive the value <code>vbv_failure</code> instead of internet when payer_authentication_eci is not present.</p> <p>The value of this field is passed automatically to the authorization service if you request the services together. Possible values:</p> <ul style="list-style-type: none"> • <code>aesk</code>: American Express SafeKey authentication verified successfully. • <code>aesk_attempted</code>: Card not enrolled in American Express SafeKey, but the attempt to authenticate was recorded. • <code>internet</code>: Authentication was not verified successfully. • <code>js</code>: J/Secure authentication verified successfully. • <code>js_attempted</code>: JCB card not enrolled in J/Secure, but the attempt to authenticate was recorded. • <code>spa</code>: Mastercard Identity Check authentication verified successfully. • <code>spa_failure</code>: Mastercard Identity Check failed authentication. • <code>vbv</code>: Visa Secure authentication verified successfully. • <code>vbv_attempted</code>: Card not enrolled in Visa Secure, but the attempt to authenticate was recorded. • <code>vbv_failure</code>: Visa Secure authentication unavailable. 	String (255)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_validate_result	<p>Raw authentication data that comes from the card-issuing bank that indicates whether authentication was successful and whether liability shift occurred. Possible values:</p> <ul style="list-style-type: none">• -1: Invalid PAREs.• 0: Successful validation.• 1: Cardholder is not participating, but the attempt to authenticate was recorded.• 6: Issuer unable to perform authentication.• 9: Cardholder did not complete authentication.	String (255)
payer_authentication_veres_timestamp	<p>Decrypted time stamp for the verification response. Visa Click to Pay generates this value. Format: Unix time, which is also called epoch time.</p>	String
payer_authentication_whitelist_status	<p>Enables the communication of trusted beneficiary and whitelist status among the ACS, the directory server, and the 3-D Secure requester.</p> <p>Possible Values:</p> <ul style="list-style-type: none">• Y: 3-D Secure requester is whitelisted by cardholder• N: 3-D Secure requester is not whitelisted by cardholder	String (1)

Response Fields (continued)

Field	Description	Data Type & Length
payer_authentication_whitelist_status_source	<p>This field is populated by the system setting whitelist status.</p> <p>Possible Values:</p> <ul style="list-style-type: none">• 01: 3-D Secure Server• 02: Directory server• 03: ACS	Integer (2)
payer_authentication_xid	Transaction identifier generated by payer authentication. Used to match an outgoing payer authentication request with an incoming payer authentication response.	String (28)
payment_account_reference	Reference number serves as a link to the cardholder account and to all transactions for that account. The same value is returned whether the account is represented by a PAN or a network token.	String (32)
payment_solution	<p>Type of credential-on-file (COF) payment network token. Returned in authorizations that use a payment network token associated with a TMS token.</p> <p>Possible values:</p> <ul style="list-style-type: none">• 014: Mastercard• 015: Visa• 016: American Express	String (3)

Response Fields (continued)

Field	Description	Data Type & Length
payment_token	<p>Identifier for the payment details. The payment token retrieves the card data, billing information, and shipping information from the payment repository.</p> <p>This payment token supersedes the previous payment token and is returned if:</p> <ul style="list-style-type: none">• The merchant is configured for a 16-digit payment token that displays the last four digits of the primary account number (PAN) and passes Luhn mod-10 check. See "Payment Tokens" (on page 14).• The customer has updated the card number on their payment token. This payment token supersedes the previous payment token and should be used for subsequent transactions. <p>You must be using Token Management Services.</p>	String (32)
payment_token_latest_card_expiry_date	<p>Card expiration date of the latest card issued to the cardholder.</p> <p>Returned when Network Tokenization is enabled, and a payment_token with an associated Network Token is used in a transaction. Network Tokens can continue to be used even if the original card has expired.</p> <p>Format: MM-yyyy</p>	Date (a) (7)

Response Fields (continued)

Field	Description	Data Type & Length
payment_token_latest_card_suffix	<p>Last four digits of the latest card issued to the cardholder.</p> <p>Returned when Network Tokenization is enabled, and a payment_token with an associated Network Token is used in a transaction. Network Tokens can continue to be used even if the original card number has changed due to a new card being issued. Use the last four digits in payment confirmation messages to cardholders, for example: "Thank you for your payment using your Visa card ending [payment_token_latest_card_suffix]".</p>	String (4)
paypal_address_status	<p>Status of the street address on file with PayPal. Possible values:</p> <ul style="list-style-type: none">• None• Confirmed• Unconfirmed	String (12)
paypal_authorization_correlation_id	PayPal identifier that is used to investigate any issues.	String (20)
paypal_authorization_transaction_id	Unique identifier for the transaction.	String (17)
paypal_customer_email	Email address of the customer as entered during checkout. PayPal uses this value to pre-fill the PayPal membership sign-up portion of the PayPal login page.	String (127)
paypal_do_capture_correlation_id	PayPal identifier that is used to investigate any issues.	String (20)
paypal_do_capture_transaction_id	Unique identifier for the transaction.	String (17)
paypal_ec_get_details_correlation_id	PayPal identifier that is used to investigate any issues.	String (20)
paypal_ec_get_details_request_id	Value of the request ID returned from a PayPal get details service request.	String (26)
paypal_ec_get_details_transaction_id	Unique identifier for the transaction.	String (17)

Response Fields (continued)

Field	Description	Data Type & Length
paypal_ec_order_setup_correlation_id	PayPal identifier that is used to investigate any issues.	String (20)
paypal_ec_order_setup_transaction_id	Unique identifier for the transaction.	String (17)
paypal_ec_set_request_id	Value of the request ID returned from a PayPal set service request.	String (26)
paypal_fee_amount	PayPal fee charged for the transaction. This value does not exceed the equivalent of 10,000 USD in any currency and does not include a currency symbol. The decimal separator is a period (.), and the optional thousands separator is a comma (,).	String (9)
paypal_order_request_id	Value of the request ID returned from a PayPal order setup service request.	String (26)
paypal_payer_id	Customer's PayPal account identification number.	Alphanumeric String (13)
paypal_payer_status	Customer's status. Possible values: <ul style="list-style-type: none">• <code>verified</code>• <code>unverified</code>	String (10)

Response Fields (continued)

Field	Description	Data Type & Length
paypal_pending_reason	<p>Indicates the reason that payment is pending. Possible values:</p> <ul style="list-style-type: none"> • address: Your customer did not include a confirmed shipping address, and your Payment Receiving preferences are set to manually accept or deny such payments. To change your preferences, go to the Preferences section of your PayPal profile. • authorization: The payment has been authorized but not settled. Capture the authorized amount. • echeck: Payment was made by an echeck that has not yet cleared. • intl: You have a non-U.S. account and do not have a withdrawal mechanism. You must manually accept or deny this payment in your PayPal Account Overview. • multi-currency: You do not have a balance in the currency sent, and your Payment Receiving preferences are not set to automatically convert and accept this payment. You must manually accept or deny this payment in your PayPal Account Overview. • none: No pending reason. • order: The payment is part of an order that has been authorized but not settled. • paymentreview: The payment is being reviewed by PayPal for possible fraud. • unilateral: The payment was made to an email address that is not registered or confirmed. 	String (14)

Response Fields (continued)

Field	Description	Data Type & Length
paypal_pending_status	<p>Status of the transaction. Possible values:</p> <ul style="list-style-type: none"> • Canceled-Reversal: PayPal canceled the reversal, which happens when you win a dispute, and the funds for the reversal are returned to you. • Completed: PayPal completed the payment and added the funds to your account. • Denied: You denied a payment, which happens only if the payment was pending for the reason indicated in the reason_code field. • Expired: The authorization expired. • Failed: The payment failed. This event can happen only when the payment is made from your customer's bank account. • In-Progress: The transaction is not complete yet. • None: No status. • Partially-Refunded: The payment was partially refunded. • Pending: The payment is pending for the reason indicated in the paypal_pending_reason field. • Processed: PayPal accepted the payment. • ReasonCode • Refunded: You refunded the payment. • Reversed: PayPal reversed the payment for the reason specified in the reason_code field. The funds were transferred from your account to the customer's account. • Voided: The authorization was voided. 	String (20)

Response Fields (continued)

Field	Description	Data Type & Length
paypal_protection_eligibility	<p>Seller protection in force for the transaction. Possible values:</p> <ul style="list-style-type: none">• Eligible: You are protected by the PayPal Seller Protection Policy for unauthorized payment and item not received.• PartiallyEligible: You are protected by the PayPal Seller Protection Policy for item not received.• Ineligible: You are not protected under the PayPal Seller Protection Policy.	String (17)
paypal_protection_eligibility_type	<p>Seller protection in force for the transaction. Possible values:</p> <ul style="list-style-type: none">• Eligible: You are protected by the PayPal Seller Protection Policy for unauthorized payment and item not received.• ItemNotReceivedEligible: You are protected by the PayPal Seller Protection Policy for item not received.• UnauthorizedPaymentEligible: You are protected by the PayPal Seller Protection Policy for unauthorized payment.• Ineligible: You are not protected under the PayPal Seller Protection Policy. <p>To enable the paypal_protection_eligibility_type field, contact customer support to have your account configured for this feature.</p>	String (32)
paypal_request_id	Identifier for the request generated by the client.	String (26)

Response Fields (continued)

Field	Description	Data Type & Length
paypal_token	Timestamped PayPal token that identifies that PayPal Express Checkout is processing the transaction. Save this value to send in future request messages.	String (20)
paypal_transaction_type	Indicates the PayPal transaction type. Possible value: expresscheckout	String (16)
reason_code	Numeric value corresponding to the result of the payment card transaction request. See Reason Codes (on page 206) .	String (5)
req_access_key	Authenticates the merchant with the application.	String (32)

Response Fields (continued)

Field	Description	Data Type & Length
req_aggregator_id	<p>Value that identifies you as a payment aggregator. Obtain this value for the processor.</p> <p>Visa Platform Connect—The value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none">• Record: CP01 TCR6• Position: 95-105• Field: Mastercard Payment Facilitator ID <p>Field Length</p> <p>American Express Direct: 20</p> <p>FDC Compass—This value must consist of uppercase characters.</p> <p>Visa Platform Connect: 11</p> <p>FDC Compass: 20</p> <p>FDC Nashville Global: 15</p> <p>Required/Optional</p> <p>American Express Direct: R for all aggregator transactions.</p> <p>Visa Platform Connect: R for Mastercard aggregator authorizations; otherwise, not used.</p> <p>FDC Compass: R for all aggregator transactions.</p> <p>FDC Nashville Global: R for all aggregator transactions.</p>	String (See description)

Response Fields (continued)

Field	Description	Data Type & Length
req_allow_payment_token_update	Indicates whether the customer can update the billing, shipping, and payment information on the order review page. Possible values: <ul style="list-style-type: none">• <code>true</code>: Customer can update details.• <code>false</code>: Customer cannot update details.	String (5)
req_amount	Total amount for the order. Must be greater than or equal to zero.	String (15)
req_auth_indicator	Flag that specifies the purpose of the authorization. Possible values: <ul style="list-style-type: none">• <code>0</code>: Preauthorization• <code>1</code>: Final authorization Mastercard requires European merchants to indicate whether the authorization is a final authorization or a preauthorization. To set the default for this field, contact customer support.	String (1)

Response Fields (continued)

Field	Description	Data Type & Length
req_auth_type	<p>Authorization type. Possible values:</p> <ul style="list-style-type: none"> AUTOCAPTURE: Automatic capture. STANDARDCAPTURE: Standard capture. verbal: Forced capture. <p><i>Asia, Middle East, and Africa Gateway; Cielo; Comercio Latino; and Cybersource Latin American Processing</i></p> <p>Set this field to AUTOCAPTURE and include it in a bundled request to indicate that you are requesting an automatic capture. If your account is configured to enable automatic captures, set this field to STANDARDCAPTURE and include it in a standard authorization or bundled request to indicate that you are overriding an automatic capture.</p> <p><i>Forced Capture</i></p> <p>Set this field to verbal and include it in the authorization request to indicate that you are performing a forced capture; therefore, you receive the authorization code outside the transaction processing system.</p> <p><i>Verbal Authorization</i></p> <p>Set this field to verbal and include it in the capture request to indicate that the request is for a verbal authorization.</p>	<p>Cielo, Comercio Latino, and Cybersource Latin American Processing: String (15)</p> <p>All other processors: String (11)</p>
req_bill_payment	<p>Flag that indicates a payment for a bill or for an existing contractual loan. Visa provides a Bill Payment program that enables customers to use their Visa cards to pay their bills. Possible values:</p> <ul style="list-style-type: none"> true: Bill payment or loan payment. false (default): Not a bill payment or loan payment. 	String (1)

Response Fields (continued)

Field	Description	Data Type & Length
req_bill_to_address_city	City in the billing address.	String (50) Visa Click to Pay: String (100)
req_bill_to_address_country	ISO country code for the billing address.	String (2)
req_bill_to_address_line1	First line of the street address in the billing address.	String (60) Visa Click to Pay: String (100)
req_bill_to_address_line2	Second line of the street address in the billing address.	String (60) Visa Click to Pay: String (100)
req_bill_to_address_postal_code	Postal code for the billing address. This field is returned if bill_to_address_country is U.S. or Canada.	String (10) Visa Click to Pay: String (100)
req_bill_to_address_state	State or province in the billing address. The two-character ISO state and province code. This field is returned for U.S and Canada.	String (2)
req_bill_to_company_name	Name of the customer's company.	String (40)
req_bill_to_email	Customer email address.	String (255) Visa Click to Pay: String (256)
req_bill_to_forename	Customer first name.	String (60) Visa Click to Pay: String (256)

Response Fields (continued)

Field	Description	Data Type & Length
req_bill_to_phone	Customer phone number.	String (15) Visa Click to Pay: String (30)
req_bill_to_surname	Customer last name.	String (60) Visa Click to Pay: String (265)

Response Fields (continued)

Field	Description	Data Type & Length
req_card_account_type	<p>Flag that specifies the type of account associated with the card. The cardholder provides this information during the payment process.</p> <p><i>Cielo and Comercio Latino</i></p> <p>Possible values:</p> <ul style="list-style-type: none"> • CR: Credit card • DB: Debit card <p><i>Visa Platform Connect</i></p> <p>Possible values:</p> <ul style="list-style-type: none"> • CH: Checking account • CR: Credit card account • SA: Savings account <p>This field is returned for:</p> <ul style="list-style-type: none"> • Debit transactions on Cielo and Comercio Latino. • Transactions with Brazilian-issued cards on Visa Platform Connect. <p>Combo cards in Brazil contain credit and debit functionality in a single card. Visa systems use a bank identification number (BIN) for this type of card. Using the BIN to determine whether a card is debit or credit can cause transactions with these cards to be processed incorrectly. It is strongly recommended that you include this field for combo card transactions.</p>	String (2)
req_card_expiry_date	Card expiration date.	String (7)
req_card_number	Card number.	String (20)
req_card_type	Type of card.	String (3)

Response Fields (continued)

Field	Description	Data Type & Length
req_company_tax_id	Company's tax identifier. The the last four digits are not masked.	String (9)
req_complete_route	<p>Concatenation of individual travel legs in the format:</p> <p>SFO-JFK:JFK-LHR:LHR-CDG.</p> <p>For a complete list of airport codes, see IATA's City Code Directory.</p> <p>In your request, send either the complete route field or the individual legs (journey_leg#_orig and journey_leg#_dest). If you send all the fields, the value of complete_route takes precedence over that of the journey_leg# fields.</p>	String (255)
req_consumer_id	Identifier for the customer account. This value is defined when creating a customer token.	String (100)
req_currency	Currency used for the order. See ISO currency codes .	String (3)
req_customer_cookies_accepted	<p>Indicates whether the customer's browser accepts cookies. Possible values:</p> <ul style="list-style-type: none">• true: Customer browser accepts cookies.• false: Customer browser does not accept cookies.	String (5)
req_customer_gift_wrap	<p>Indicates whether the customer requested gift wrapping for this purchase. Possible values:</p> <ul style="list-style-type: none">• true: Customer requested gift wrapping.• false: Customer did not request gift wrapping.	String (5)
req_customer_ip_address	Customer IP address reported by your web server using socket information.	

Response Fields (continued)

Field	Description	Data Type & Length
req_date_of_birth	Date of birth of the customer. Format: yyyyMMDD.	String (8)
req_debt_indicator	Flag that indicates a payment for an existing contractual loan under the VISA Debt Repayment program. Contact your processor for details and requirements. Possible formats: <ul style="list-style-type: none">• <code>false</code> (default): Not a loan payment• <code>true</code>: Loan payment	String (5)
req_departure_time	Departure date and time of the first leg of the trip. Use one of these formats: <ul style="list-style-type: none">• yyyy-MM-DD HH:mm z• yyyy-MM-DD hh:mm a z• yyyy-MM-DD hh:mma z• HH = 24-hour format• hh = 12-hour format• a = am or pm (case insensitive)• z = time zone of the departing flight.	String (29)
req_device_fingerprint_id	Field that contains the session ID for the fingerprint. The string can contain uppercase and lowercase letters, digits, and these special characters: hyphen (-) and underscore (_). However, do not use the same uppercase and lowercase letters to indicate different sessions IDs. The session ID must be unique for each merchant ID. You can use any string that you are already generating, such as an order number or web session ID.	String (88)

Response Fields (continued)

Field	Description	Data Type & Length
req_driver_license_number	Driver's license number of the customer. The last four digits are not masked.	String (30)
req_driver_license_state	State or province from which the customer's driver's license was issued.	String (2)
req_e_commerce_indicator	The commerce indicator for the transaction type. Value: <code>install</code> This field is returned only for installment payments on Cybersource Latin American Processing.	String (13)
req_echeck_account_number	Account number. This number is masked.	Non-negative integer (17)
req_echeck_account_type	Account type. Possible values: <ul style="list-style-type: none">• <code>C</code>: Checking• <code>S</code>: Savings (USD only)• <code>X</code>: Corporate checking (USD only)	String (1)
req_echeck_check_number	Check number.	Integer (8)
req_echeck_effective_date	Effective date for the transaction.	Date (b) String (8)
req_echeck_routing_number	Bank routing number. It is also called the transit number.	Non-negative integer (9)
req_echeck_sec_code	The authorization method for the transaction. Possible values: <ul style="list-style-type: none">• <code>CCD</code>• <code>PPD</code>• <code>TEL</code>• <code>WEB</code>	String (3)

Response Fields (continued)

Field	Description	Data Type & Length
req_ignore_avs	Ignore the results of AVS verification. Possible values: <ul style="list-style-type: none">• <code>true</code>• <code>false</code>	String (5)
req_ignore_cvn	Ignore the results of CVN verification. Possible values: <ul style="list-style-type: none">• <code>true</code>• <code>false</code>	String (5)
req_installment_total_amount	Total amount of the loan that is being paid in installments. This field is returned only for installment payments on Cybersource Latin American Processing or Visa Platform Connect.	Amount (12)
req_installment_total_count	Total number of installment payments as part of an authorization. Possible values: <code>1</code> to <code>99</code> This field is returned only for installment payments on Cybersource Latin American Processing.	Numeric String (2)
req_issuer_additional_data	Data defined by the issuer. See the “Discretionary Data” section in <i>Credit Card Services Optional Features SCMP API Supplement</i> or <i>Credit Card Services Optional Features Simple Order API Supplement</i> .	Alphanumeric String (256)
req_item_#_code	Type of product. # can range from <code>0</code> to <code>199</code> .	String (255)
req_item_#_description	Description of the item. # can range from <code>0</code> to <code>199</code> .	String (255)
req_item_#_name	Name of the item. # can range from <code>0</code> to <code>199</code> .	String (255)
req_item_#_passenger_email	Passenger's email address.	String (255)


Response Fields (continued)

Field	Description	Data Type & Length
req_item#_passenger_forename	Passenger's first name.	String (60)
req_item#_passenger_id	ID of the passenger to whom the ticket was issued. For example, you can use this field for the frequent flyer number.	String (32)
req_item#_passenger_phone	Passenger's phone number. If the order is from outside the U.S., it is recommended that you include the country code.	String (15)
req_item#_passenger_status	Your company's passenger classification, such as with a frequent flyer classification. In this case, you might use values such as standard, gold, or platinum.	String (32)
req_item#_passenger_surname	Passenger's last name.	String (60)
req_item#_passenger_type	Passenger classification associated with the price of the ticket. Possible values: <ul style="list-style-type: none">• ADT: Adult• CNN: Child• INF: Infant• YTH: Youth• STU: Student• SCR: Senior Citizen• MIL: Military	String (32)
req_item#_quantity	Quantity of line items. # can range from 0 to 199.	String (10)
req_item#_sku	Identification code for the product. # can range from 0 to 199.	String (255)
req_item#_tax_amount	Tax amount to apply to the line item. # can range from 0 to 199. This value cannot be negative. The tax amount and the offer amount must be in the same currency.	String (15)
req_item#_unit_price	Price of the line item. # can range from 0 to 199. This value cannot be negative.	String (15)

Response Fields (continued)

Field	Description	Data Type & Length
req_journey_leg#_dest	Airport code for the origin of the leg of the trip, designated by the pound (#) symbol in the field name. For a complete list of airport codes, see IATA's City Code Directory .	String (3)
req_journey_leg#_orig	Airport code for the origin of the leg of the trip, designated by the pound (#) symbol in the field name. This code is usually three digits long; for example: SFO = San Francisco. For a complete list of airport codes, see IATA's City Code Directory .	String (3)
req_journey_type	Type of travel, such as one way or round trip.	String (32)
req_line_item_count	Total number of line items. Maximum amount is 200.	String (3)
req_locale	Indicates the language to use for customer content. See "Activating a Profile" (on page 42) .	String (5)

Response Fields (continued)

Field	Description	Data Type & Length
req_merchant_defined_data#	<p>Optional fields that you can use to store information. # can range from 1 to 100.</p> <p>Merchant-defined data fields 1 to 4 are associated with the payment token and are used for subsequent token-based transactions. Merchant-defined data fields 5 to 100 are passed through to Decision Manager as part of the initial payment request and are not associated with the payment token.</p> <div> Warning: Merchant-defined data fields are not intended to and MUST NOT be used to capture personally identifying information. Accordingly, merchants are prohibited from capturing, obtaining, and/or transmitting any personally identifying information in or via the merchant-defined data fields and any Secure Acceptance field that is not specifically designed to capture personally identifying information.</div> <p>Personally identifying information includes, but is not limited to, card number, bank account number, social security number, driver's license number, state-issued identification number, passport number, card verification numbers (CVV, CVC2, CVV2, CID, CVN). If it is discovered that a merchant is capturing and/or transmitting personally identifying information via the merchant-defined data fields, whether or not intentionally, the merchant's account WILL immediately be suspended, which will result in a rejection of any and all transaction requests submitted by the merchant after the point of suspension.</p>	String (100)

Response Fields (continued)

Field	Description	Data Type & Length
req_merchant_descriptor req_merchant_descriptor_ alternate req_merchant_descriptor_ city req_merchant_descriptor_ contact req_merchant_descriptor_ country req_merchant_descriptor_ postal_code req_merchant_descriptor_ state req_merchant_descriptor_ street	For the descriptions, used-by information, data types, and lengths for these fields, see the Merchant Descriptors Developers Guides .	
req_merchant_secure_data1 req_merchant_secure_data2 req_merchant_secure_data3	Optional fields that you can use to store information. The data is encrypted before it is stored in the payment repository.	String (100)
req_merchant_secure_data4	Optional field that you can use to store information. The data is encrypted before it is stored in the payment repository.	String (2000)
req_override_backoffice_ post_url	Overrides the backoffice post URL profile setting with your own URL.	URL (255)
req_override_custom_ cancel_page	Overrides the custom cancel page profile setting with your own URL.	URL (255)
req_override_custom_ receipt_page	Overrides the custom receipt profile setting with your own URL.	URL (255)

Response Fields (continued)

Field	Description	Data Type & Length
req_payment_method	Method of payment. Possible values: <ul style="list-style-type: none">• <code>card</code>• <code>echeck</code>• <code>paypal</code>• <code>visacheckout</code>	String (30)
req_payment_token	Identifier for the payment details. The payment token retrieves the card data, billing information, and shipping information from the payment repository. When this field is included in the request, the card data and billing and shipping information are optional. You must be currently using Token Management Services.	String (32)
req_payment_token_comments	Optional comments about the customer token.	String (255)
req_payment_token_title	Name of the customer token.	String (60)
req_profile_id	Identifies the profile to use with each transaction.	String (36)
req_promotion_code	Promotion code included in the transaction.	String (100)
req_recipient_account_id	Identifier for the recipient's account. Use the first six digits and last four digits of the recipient's account number.	Numeric String (10)
req_recipient_date_of_birth	Recipient's date of birth. Format: yyyyMMDD.	Date (b) String (8)
req_recipient_postal_code	Partial postal code for the recipient's address.	Alphanumeric String (6)
req_recipient_surname	Recipient's last name.	Alpha String (6)
req_recurring_amount	Payment amount for each installment or recurring subscription payment.	String (15)

Response Fields (continued)

Field	Description	Data Type & Length
req_recurring_automatic_renew	Indicates whether to automatically renew the payment schedule for an installment subscription. Possible values: <ul style="list-style-type: none">• <code>true</code> (default): Automatically renew.• <code>false</code>: Do not automatically renew.	Enumerated String String (5)
req_recurring_frequency	Frequency of payments for an installment or recurring subscription.	String (20)
req_recurring_number_of_installments	Total number of payments set up for an installment subscription.	String (3)
req_recurring_start_date	First payment date for an installment or recurring subscription payment.	String (8)
req_reference_number	Unique merchant-generated order reference or tracking number for each transaction.	String (50)
req_returns_accepted	Indicates whether product returns are accepted. Possible values: <ul style="list-style-type: none">• <code>true</code>• <code>false</code>	String (5)
req_sales_organization_id	Company ID assigned to an independent sales organization. Obtain this value from Mastercard. Visa Platform Connect The value for this field corresponds to this data in the TC 33 capture file: <ul style="list-style-type: none">• Record: CP01 TCR6• Position: 106-116• Field: Mastercard Independent Sales Organization ID	Nonnegative integer (11)

Response Fields (continued)

Field	Description	Data Type & Length
req_ship_to_address_city	City of shipping address.	String (50) Visa Click to Pay: String (100)
req_ship_to_address_country	The two-character ISO country code.	String (2)
req_ship_to_address_line1	First line of shipping address.	String (60) Visa Click to Pay: String (100)
req_ship_to_address_line2	Second line of shipping address.	String (60) Visa Click to Pay: String (100)
req_ship_to_address_postal_code	Postal code for the shipping address.	String (10) Visa Click to Pay: String (100)
req_ship_to_address_state	The two-character State, Province, and Territory Codes for the United States and Canada .	String (2)
req_ship_to_company_name	Name of the company receiving the product.	String (40)
req_ship_to_forename	First name of person receiving the product.	String (60) Visa Click to Pay: String (256)
req_ship_to_phone	Phone number for the shipping address.	String (15) Visa Click to Pay: String (30)

Response Fields (continued)

Field	Description	Data Type & Length
req_ship_to_surname	Last name of person receiving the product.	String (60) Visa Click to Pay: String (256)
req_shipping_method	Shipping method for the product. Possible values: <ul style="list-style-type: none">• <code>sameday</code>: Courier or same-day service• <code>oneday</code>: Next day or overnight service• <code>twoday</code>: Two-day service• <code>threeday</code>: Three-day service• <code>lowcost</code>: Lowest-cost service• <code>pickup</code>: Store pick-up• <code>other</code>: Other shipping method• <code>none</code>: No shipping method	String (10)
req_skip_decision_manager	Indicates whether to skip Decision Manager. See Decision Manager (on page 88) . Possible values: <ul style="list-style-type: none">• <code>true</code>• <code>false</code>	String (5)
req_submerchant_city	Sub-merchant's city.	American Express Direct: String (15) FDC Compass: String (21) FDC Nashville Global: String (11)
req_submerchant_country	Sub-merchant's country.	String (3)

Response Fields (continued)

Field	Description	Data Type & Length
req_submerchant_email	<p>Sub-merchant's email address.</p> <p>Visa Platform Connect</p> <p>With American Express, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCRB • Position: 25-64 • Field: American Express Seller E-mail Address 	<p>American Express Direct: String (40)</p> <p>FDC Compass: String (40)</p> <p>FDC Nashville Global: String (19)</p> <p>Visa Platform Connect: String (40)</p>
req_submerchant_id	<p>The ID you assigned to your sub-merchant.</p> <p><i>Visa Platform Connect</i></p> <p>With American Express, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCRB • Position: 65-84 • Field: American Express Seller ID <p>With Mastercard, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCR6 • Position: 117-131 • Field: Mastercard Sub-Merchant ID 	<p>American Express Direct: String (20)</p> <p>FDC Compass: String (20)</p> <p>FDC Nashville Global: String (14)</p> <p>Visa Platform Connect with American Express: String (20)</p> <p>Visa Platform Connect with Mastercard: String (15)</p>


Response Fields (continued)

Field	Description	Data Type & Length
req_submerchant_name	Sub-merchant's business name.	<p>American Express Direct: String (37)</p> <p>FDC Compass with American Express: String (19)</p> <p>FDC Compass with Mastercard: String (37)</p> <p>FDC Nashville Global: String (12)</p>
req_submerchant_phone	<p>Sub-merchant's telephone number.</p> <p><i>Visa Platform Connect</i></p> <p>With American Express, the value for this field corresponds to this data in the TC 33 capture file:</p> <ul style="list-style-type: none"> • Record: CP01 TCRB • Position: 5-24 • Field: American Express Seller Telephone Number 	<p>American Express Direct: String (20)</p> <p>FDC Compass: String (13)</p> <p>FDC Nashville Global: String (10)</p> <p>Visa Platform Connect: String (20)</p>
req_submerchant_postal_code	Partial postal code for the sub-merchant's address.	<p>American Express Direct: String (9)</p> <p>FDC Compass: String (15)</p> <p>FDC Nashville Global: String (9)</p>
req_submerchant_state	Sub-merchant's state or province.	String (2)

Response Fields (continued)

Field	Description	Data Type & Length
req_submerchant_street	First line of the sub-merchant's street address.	American Express Direct: String (30) FDC Compass: String (38) FDC Nashville Global: String (25)
req_tax_amount	Total tax to apply to the product.	String (15)
req_transaction_type	The type of transaction requested.	String (60)
req_transaction_uuid	Unique merchant-generated identifier. Include with the access_key field for each transaction.	String (50) Visa Click to Pay: String (100)
request_token	Request token data created for each response. This field is an encoded string that contains no confidential information. Atos You must store the request token value so that you can retrieve and send it in follow-on requests.	String (256)
required_fields	Indicates which of the request fields were required but not provided.	Variable
service_fee_amount	The service fee amount for the order.	String (15)
signature	The Base64 signature returned by the server.	String (44)
signed_date_time	The date and time of when the signature was generated by the server. Format: yyyy-MM-DDThh:mm:ssZ Example 2020-08-11T22:47:57Z equals August 11, 2020, at 22:47:57 (10:47:57 p.m.). The T separates the date and the time. The Z indicates UTC.	String (20)

Response Fields (continued)

Field	Description	Data Type & Length
signed_field_names	A comma-separated list of response data that was signed by the server. All fields within this list should be used to generate a signature that can then be compared to the response signature to verify the response.	Variable
transaction_id	The transaction identifier returned from the payment gateway.	String (26)
utf8	Indicates whether the unicode characters are encoded. Possible value: 	String (3)
vc_avs_code_raw	Decrypted raw (unmapped) AVS code provided by Visa Click to Pay.	String (10)
vc_risk_score	Decrypted risk score used with your fraud model. See Configuring Visa Click to Pay (on page 24) .	Positive Integer (2)
vc_wallet_reference_id	Decrypted order identifier generated by Visa Click to Pay.	String (100)

SEC Codes

The **echeck_sec_code** field specifies the authorization method for the transaction. Possible values:

- **CCD**: corporate cash disbursement—a charge or credit against a business checking account. You can use one-time or recurring **CCD** transactions to transfer funds to or from a corporate entity. A standing authorization is required for recurring transactions. For Cybersource ACH Service, **CCD** is the default value for a credit when no value is set and when the **echeck_account_type** field is set to **X** or **G**.
- **PPD**: prearranged payment and deposit entry—a charge or credit against a personal checking or savings account. You can originate a **PPD** entry only when the payment and deposit terms between you and the customer are pre-arranged. A written authorization from the customer is required for one-time transactions, and a written standing authorization is required for recurring transactions. For Cybersource ACH Service, **PPD** is the default value for a debit when no value is set and when the **echeck_account_type** field is set to **C** or **S**.
- **TEL**: telephone-initiated entry—a one-time charge against a personal checking or savings account. You can originate a **TEL** entry only when there is a business relationship between you and the customer or when the customer initiates a telephone call to you. For a **TEL** entry, you must obtain a payment authorization from the customer over the telephone. Only the Cybersource ACH processor supports recurring telephone-initiated debits and credits. For Cybersource ACH Service, if the e-commerce indicator (ECI) for the Virtual Terminal is **MOTO**, the value of the **echeck_sec_code** field defaults to **TEL**.
- **WEB**: internet-initiated entry—a charge against a personal checking or savings account. You can originate a one-time or recurring **WEB** entry when the customer initiates the transaction over the internet. For a **WEB** entry, you must obtain payment authorization from the customer over the internet. For Cybersource ACH Service, if the ECI for the Virtual Terminal is not set to **MOTO**, the value of the **echeck_sec_code** field defaults to **WEB**. Use **WEB** as the SEC code for all Canadian dollar transactions on the Chase Paymentech Solutions connection.

Reason Codes

The **reason_code** field contains additional data regarding the decision response of the transaction. Depending on the decision of a transaction request, the default receipt page or your receipt page is displayed to the customer. Both you and your customer can also receive an email receipt. See ["Merchant Notifications" \(on page 31\)](#).

Reason Codes

Reason Code	Description
100	Successful transaction.
101	Request is missing one or more required fields. Examine the response fields missingField_0 through missingField_N to identify which fields are missing. Resend the request with all the required fields.
102	One or more fields in the request contain invalid data. Possible action: see the response field invalid_fields to ascertain which fields are invalid. Resend the request with the correct information.
104	The access_key and transaction_uuid fields for this authorization request match the access_key and transaction_uuid fields of another authorization request that you sent within the past 15 minutes. Possible action: resend the request with unique access_key and transaction_uuid fields. A duplicate transaction was detected. The transaction might have already been processed. Possible action: before resubmitting the transaction, use the single transaction query or search for the transaction using the Business Center to confirm that the transaction has not yet been processed. See Viewing Transactions in the Business Center (on page 90) .
110	Only a partial amount was approved.
150	General system failure. Possible action: To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status either directly in the Business Center or programmatically through the single transaction query .

Reason Codes (continued)

Reason Code	Description
151	<p>The request was received but a server timeout occurred. This error does not include timeouts between the client and the server.</p> <p>Possible action: To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status either directly in the Business Center or programmatically through the single transaction query.</p>
152	<p>The request was received, but a service timeout occurred.</p> <p>Possible action: To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status either directly in the Business Center or programmatically through the single transaction query.</p>
200	<p>The authorization request was approved by the issuing bank but declined because it did not pass the Address Verification System (AVS) check.</p> <p>Possible action: you can capture the authorization, but consider reviewing the order for fraud.</p>
201	<p>The issuing bank has questions about the request. You do not receive an authorization code programmatically, but you might receive one verbally by calling the processor.</p> <p>Possible action: call your processor to possibly receive a verbal authorization. For contact phone numbers, refer to your merchant bank information.</p>
202	<p>Expired card. You might also receive this value if the expiration date you provided does not match the date the issuing bank has on file.</p> <p>Possible action: request a different card or other form of payment.</p>
203	<p>General decline of the card. No other information was provided by the issuing bank.</p> <p>Possible action: request a different card or other form of payment.</p>
204	<p>Insufficient funds in the account.</p> <p>Possible action: request a different card or other form of payment.</p>
205	<p>Stolen or lost card.</p> <p>Possible action: review this transaction manually to ensure that you submitted the correct information.</p>

Reason Codes (continued)

Reason Code	Description
207	<p>Issuing bank unavailable.</p> <p>Possible action: To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status either directly in the Business Center or programmatically through the single transaction query.</p>
208	<p>Inactive card or card not authorized for card-not-present transactions.</p> <p>Possible action: request a different card or other form of payment.</p>
210	<p>The card has reached the credit limit.</p> <p>Possible action: request a different card or other form of payment.</p>
211	<p>Invalid CVN.</p> <p>Possible action: request a different card or other form of payment.</p>
221	<p>The customer matched an entry on the processor's negative file.</p> <p>Possible action: review the order and contact the payment processor.</p>
222	<p>Account frozen.</p>
230	<p>The authorization request was approved by the issuing bank but declined because it did not pass the CVN check.</p> <p>Possible action: you can capture the authorization, but consider reviewing the order for the possibility of fraud.</p>
231	<p>Invalid account number.</p> <p>Possible action: request a different card or other form of payment.</p>
232	<p>The card type is not accepted by the payment processor.</p> <p>Possible action: contact your merchant bank to confirm that your account is set up to receive the card in question.</p>
233	<p>General decline by the processor.</p> <p>Possible action: request a different card or other form of payment.</p>
234	<p>There is a problem with the information in your account.</p> <p>Possible action: do not resend the request. Contact customer support to correct the information in your account.</p>

Reason Codes (continued)

Reason Code	Description
236	<p>Processor failure.</p> <p>Possible action: To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status either directly in the Business Center or programmatically through the single transaction query.</p>
240	<p>The card type sent is invalid or does not correlate with the payment card number.</p> <p>Possible action: confirm that the card type correlates with the payment card number specified in the request; then resend the request.</p>
475	<p>The cardholder is enrolled for payer authentication.</p> <p>Possible action: authenticate cardholder before proceeding.</p>
476	Payer authentication could not be authenticated.
478	Strong customer authentication (SCA) is required for this transaction.
481	<p>Transaction declined based on your payment settings for the profile.</p> <p>Possible action: review the risk score settings for the profile.</p>
520	<p>The authorization request was approved by the issuing bank but declined based on your Decision Manager settings.</p> <p>Possible action: review the authorization request.</p>

Types of Notifications

Types of Notifications

Decision	Description	Type of Notification	Hosted Page
ACCEPT	Successful transaction. Reason codes 100 and 110.	<ul style="list-style-type: none"> • Custom receipt page • Customer receipt email • Merchant POST URL • Merchant receipt email 	Accept
REVIEW	Authorization was declined; however, a capture might still be possible. Review payment details. See reason codes 200, 201, 230, and 520.	<ul style="list-style-type: none"> • Custom receipt page • Customer receipt email • Merchant POST URL • Merchant receipt email 	Accept
DECLINE	Transaction was declined. See reason codes 102, 200, 202, 203, 204, 205, 207, 208, 210, 211, 221, 222, 230, 231, 232, 233, 234, 236, 240, 475, 476, 478, and 481. If the retry limit is set to 0, the customer receives the decline message, <i>Your order was declined. Please verify your information.</i> before the merchant receives it. The decline message relates to either the processor declining the transaction or a payment processing error, or the customer entered their 3-D Secure credentials incorrectly.	<ul style="list-style-type: none"> • Custom receipt page • Merchant POST URL • Merchant receipt email 	Decline

Types of Notifications (continued)

Decision	Description	Type of Notification	Hosted Page
ERROR	Access denied, page not found, or internal server error.	<ul style="list-style-type: none">• Custom receipt page	Error
	See reason codes 102, 104, 150, 151 and 152.	<ul style="list-style-type: none">• Merchant POST URL	
CANCEL	The customer did not accept the service fee conditions.	<ul style="list-style-type: none">• Custom receipt page	Cancel
	The customer cancelled the transaction.	<ul style="list-style-type: none">• Merchant POST URL	

AVS Codes

An issuing bank uses the AVS code to confirm that your customer is providing the correct billing address. If the customer provides incorrect information, the transaction might be fraudulent. The international and U.S. domestic Address Verification Service (AVS) codes are the Visa standard AVS codes, except for codes 1 and 2, which are Cybersource AVS codes. The standard AVS return codes for other types of payment cards (including American Express cards) are mapped to the Visa standard codes. You receive the code in the **auth_avs_code** response field. See [Response Fields \(on page 159\)](#).

! **Important:** When you populate billing street address 1 and billing street address 2, Visa Platform Connect concatenates the two values. If the concatenated value exceeds 40 characters, Visa Platform Connect truncates the value at 40 characters before sending it to Visa and the issuing bank. Truncating this value affects AVS results and therefore might also affect risk decisions and chargebacks.

International AVS Codes

These codes are returned only for Visa cards issued outside the U.S.

International AVS Codes

Code	Response	Description
B	Partial match	Street address matches, but postal code is not verified.
C	No match	Street address and postal code do not match.
D & M	Match	Street address and postal code match.
I	No match	Address not verified.
P	Partial match	Postal code matches, but street address not verified.

U.S. Domestic AVS Codes

U.S. Domestic AVS Codes

Code	Response	Description
A	Partial match	Street address matches, but five-digit and nine-digit postal codes do not match.
B	Partial match	Street address matches, but postal code is not verified.

U.S. Domestic AVS Codes (continued)

Code	Response	Description
C	No match	Street address and postal code do not match.
D	Match	Street address and postal code match.
E	Invalid	AVS data is invalid or AVS is not allowed for this card type.
F	Partial match	Card member's name does not match, but billing postal code matches. Returned only for the American Express card type.
G		Not supported.
H	Partial match	Card member's name does not match, but street address and postal code match. Returned only for the American Express card type.
I	No match	Address not verified.
J	Match	Card member's name, billing address, and postal code match. Shipping information verified and chargeback protection guaranteed through the Fraud Protection Program. Returned only if you are signed up to use AAV+ with the American Express Phoenix processor.
K	Partial match	Card member's name matches, but billing address and billing postal code do not match. Returned only for the American Express card type.
L	Partial match	Card member's name and billing postal code match, but billing address does not match. Returned only for the American Express card type.
M	Match	Street address and postal code match.
N	No match	One of these descriptions: <ul style="list-style-type: none">• Street address and postal code do not match.• Card member's name, street address, and postal code do not match. Returned only for the American Express card type.
O	Partial match	Card member's name and billing address match, but billing postal code does not match. Returned only for the American Express card type.
P	Partial match	Postal code matches, but street address not verified.
Q	Match	Card member's name, billing address, and postal code match. Shipping information verified but chargeback protection not guaranteed (Standard program). Returned only if you are registered to use AAV+ with the American Express Phoenix processor.
R	System unavailable	System unavailable.

U.S. Domestic AVS Codes (continued)

Code	Response	Description
S	Not supported	U.S.-issuing bank does not support AVS.
T	Partial match	Card member's name does not match, but street address matches. Returned only for the American Express card type.
U	System unavailable	Address information unavailable for one of these reasons: <ul style="list-style-type: none">• The U.S. bank does not support non-U.S. AVS.• The AVS in a U.S. bank is not functioning properly.
V	Match	Card member's name, billing address, and billing postal code match. Returned only for the American Express card type.
W	Partial match	Street address does not match, but nine-digit postal code matches.
X	Match	Street address and nine-digit postal code match.
Y	Match	Street address and five-digit postal code match.
Z	Partial match	Street address does not match, but 5-digit postal code matches.
1	Not supported	AVS is not supported for this processor or card type.
2	Unrecognized	The processor returned an unrecognized value for the AVS response.
3	Match	Address is confirmed. Returned only for PayPal Express Checkout.
4	No match	Address is not confirmed. Returned only for PayPal Express Checkout.

CVN Codes

CVN Codes

Code	Description
D	The transaction was considered to be suspicious by the issuing bank.
I	The CVN failed the processor's data validation.
M	The CVN matched.
N	The CVN did not match.
P	The CVN was not processed by the processor for an unspecified reason.
S	The CVN is on the card but was not included in the request.
U	Card verification is not supported by the issuing bank.
X	Card verification is not supported by the card association.
1	Card verification is not supported for this processor or card type.
2	An unrecognized result code was returned by the processor for the card verification response.
3	No result code was returned by the processor.

American Express SafeKey Response Codes

The American Express SafeKey response code is returned in the **auth_cavv_result** field in the response message for an authorization request.

American Express SafeKey Response Codes

Response Code	Description
1	CAVV failed validation and authentication.
2	CAVV passed validation and authentication.
3	CAVV passed the validation attempt.
4	CAVV failed the validation attempt.
7	CAVV failed the validation attempt and the issuer is available.
8	CAVV passed the validation attempt and the issuer is available.
9	CAVV failed the validation attempt and the issuer is not available.
A	CAVV passed the validation attempt and the issuer is not available.
U	Issuer does not participate or 3-D Secure data was not used.
99	An unknown value was returned from the processor.

Iframe Implementation



Important: If you plan to embed Secure Acceptance in an iframe, ensure that you follow the guidelines in this section. PayPal Express Checkout is not supported on a Secure Acceptance iframe integration.



Important: For the Payer Authentication 3-D Secure 2.x process, ensure that the iframe is large enough to display the issuer's access control server (ACS) challenge content (at least 390 x 400 pixels). For more information about ACS, see the Payer Authentication guide.

You must select the single page checkout option for the hosted checkout iframe implementation. See [Checkout Configuration \(on page 28\)](#).

The total amount value and the transaction cancel button are not displayed within the iframe. Any settings that you configured for the total amount figure are ignored. See [Custom Checkout Appearance \(on page 36\)](#).

Cybersource recommends that you manage the total amount value on your website containing the inline frame. You must also provide customers a cancel order functionality on your website containing the inline frame.

Refer to [PCI DSS v4](#) section 6.4.3 for more information on how to secure iframes.

Clickjacking Prevention

Clickjacking (also known as *user-interface redress attack* and *iframe overlay*) is used by attackers to trick users into clicking on a transparent layer (with malicious code) above legitimate buttons or clickable content for a site. To prevent clickjacking, you must prevent third-party sites from including your website within an iframe.

While no security remediation can prevent every clickjacking, developers must implement in accordance with relevant industry standards and guidelines, such as PCI DSS and Open Worldwide Application Security Project (OWASP) when using and securing iframes.

You are required to implement the recommended prevention techniques in your website. For more information on PCI DSS and OWASP, see these websites:

- [PCI DSS v4](#)
- [OWASP website](#)
- [OWASP Clickjacking Defense Cheat Sheet](#)
- [OWASP Cross Site Scripting Prevention Cheat Sheet](#)

Your developers must not use double framing on the same page where the hosted checkout iframe implementation is used.

Web application protections for Cross-Site Scripting (XSS) must also be incorporated.

- For XSS protection, you must implement comprehensive input validation and the OWASP-recommended security encoding library to do output encoding on your website.
- For CSRF protection, you are strongly encouraged to use a synchronized token pattern. This measure requires generating a randomized token associated with the user session. The token will be inserted whenever an HTTP request is sent to the server. Your server application will verify that the token from the request is the same as the one associated with the user session.

Iframe Transaction Endpoints

For iframe transaction endpoints and supported transaction types for each endpoint, see [Endpoints and Transaction Types \(on page 69\)](#).

Visa Secure Response Codes

The Visa Secure response code is returned in the **auth_cavv_result** field in the response message for an authorization request.

Visa Secure Response Codes

Response Code	Description
0	CAVV not validated because erroneous data was submitted.
1	CAVV failed validation and authentication.
2	CAVV passed validation and authentication.
3	CAVV passed the validation attempt.
4	CAVV failed the validation attempt.
6	CAVV not validated because the issuer does not participate.
7	CAVV failed the validation attempt and the issuer is available.
8	CAVV passed the validation attempt and the issuer is available.
9	CAVV failed the validation attempt and the issuer is not available.
A	CAVV passed the validation attempt and the issuer is not available.
B	CAVV passed the validation with information only; no liability shift.
C	CAVV attempted but not validated; issuer did not return CAVV code.
D	CAVV not validated or authenticated; issuer did not return CAVV code.
I	Invalid security data.
U	Issuer does not participate or 3-D Secure data was not used.
99	An unknown value was returned from the processor.