

Apple Pay

Simple Order API
FDC Compass



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Recent Revisions to This Document

24.01

This revision contains only editorial changes and no technical updates.

23.04

This revision contains only editorial changes and no technical updates.

23.03

This revision contains only editorial changes and no technical updates.

23.02

- Added support for Discover card. See these topics:**
- [Supported Card Types and Optional Features](#) on page 9
 - [Authorizations Using Cybersource Decryption for Discover](#)
 - [Authorizations Using Merchant Decryption for Discover](#)

23.01

Authorizations using Cybersource decryption

For each supported card type, these fields were removed from the list of required fields:

- **card_accountNumber**
- **card_expirationMonth**
- **card_expirationYear**

For each supported card type, this field was added to the list of required fields:

- **paymentNetworkToken_transactionType**

About This Guide

This section describes the audience and purpose of this guide and the conventions used in this guide.

Audience and Purpose

This document is written for merchants who want to use Apple Pay in an iOS application and use information from Apple to process payments through Cybersource. This document provides an overview for integrating Apple and Cybersource services into an order management system.

Conventions

The following special statement is used in this document:



Important

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

Customer Support

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

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

Introduction to Apple Pay

You can use the Cybersource platform to process and manage Apple Pay transactions.

Requirements for Using Apple Pay

In order to use the Cybersource platform to process Apple Pay transactions, you must have these things:

- A Cybersource account. If you do not already have a Cybersource account, contact your local Cybersource sales representative.
- A [merchant evaluation account](#) with a [supported processor](#).
- An Admin or Team Agent user of the [Apple Pay Developer](#) account.

Important

Apple Pay relies on authorizations with payment network tokens. You can sign up for Apple Pay only when these statements are true:

- Your processor supports payment network tokens.
- Cybersource supports payment network tokens with your processor.

If one of these statements is not true, you must take one of these actions before you can sign up for Apple Pay:

- Obtain a new merchant account with a processor that supports payment network tokens.
- Wait until your processor supports payment network tokens.

Supported Card Types and Optional Features

Merchant-initiated transactions, multiple partial captures, and subsequent authorizations are described in [Authorizations with Payment Network Tokens](#). Recurring payments and split shipments are described in [Credit Card Services Optional Features](#).

Processor	Card Types	Optional Features
FDC Compass	American Express Discover Mastercard Visa	Multiple partial captures Recurring payments

Apple Pay Integrations and Payload Decryption Methods

In response to a payment request, Apple Pay returns an encrypted payload that contains sensitive payment information. Two methods can be used to extract and decrypt the payment information, and both methods support Apple Pay in-app and web transactions.

- With Cybersource decryption, Cybersource manages the generation of the payment encryption key and the decryption of the Apple Pay response.



Important

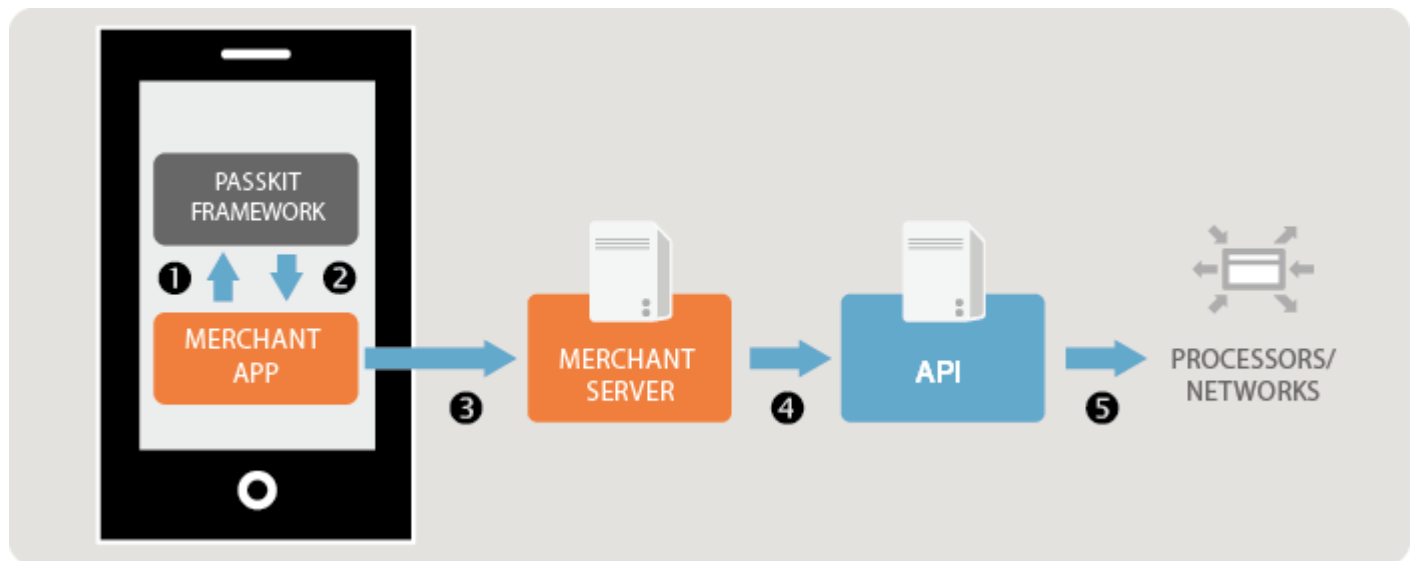
This method reduces the exposure of the sensitive payment data to your system.

- With merchant decryption, you manage both the payment encryption key generation and the decryption of the Apple Pay response.

The remainder of this section summarizes the flow of Apple Pay transaction processing for each decryption method.

Flow of Apple Pay In-App Transactions Processed Using Cybersource Decryption

This diagram illustrates the flow of in-app transaction processing using Cybersource decryption.



In-App Transaction Processing with Cybersource Decryption

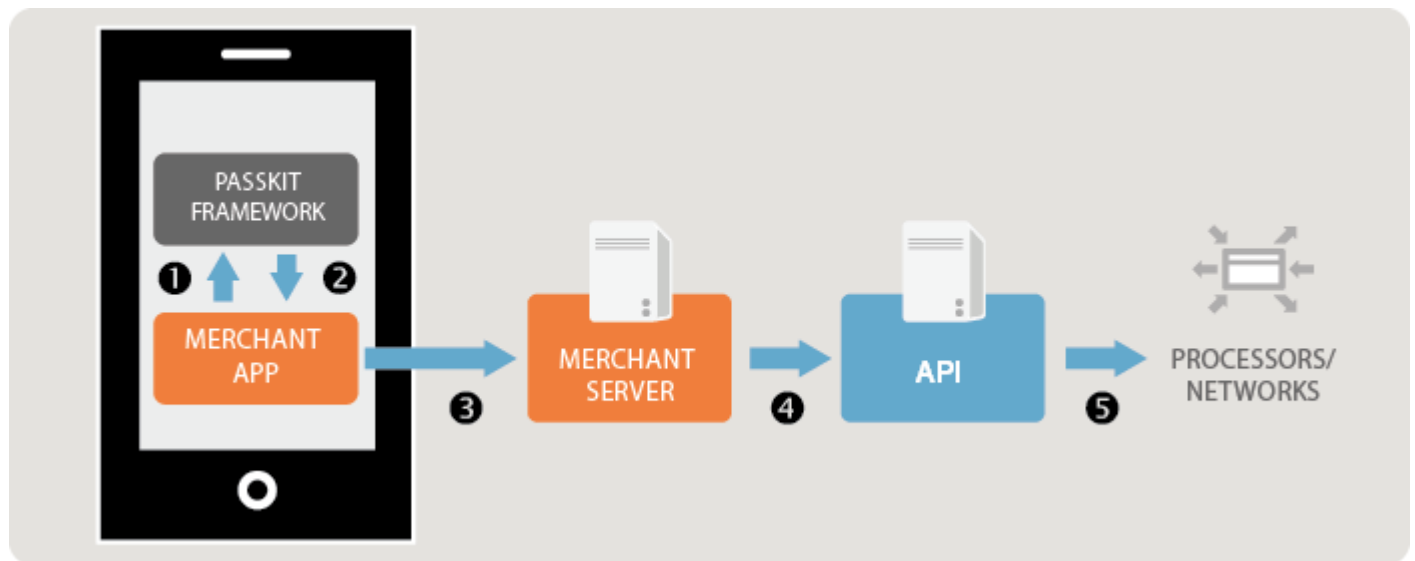
1. When the customer chooses to pay with Apple Pay, you use the Apple PassKit Framework to request the encrypted payment data from Apple.
2. Apple uses the Secure Element to create a payment token and encrypt the token's payment data before it sends your application.
 - The payment token is the `PKPaymentToken` structure.
 - The payment data is the `paymentData` field of the `PKPaymentToken` structure.
3. You forward the encrypted payment data to your order management system.
4. Using the Cybersource API, you submit the authorization request. In the `encryptedPayment_data` field, include the Base64-encoded value obtained from the `paymentData` field of the `PKPaymentToken` structure.
5. Cybersource decrypts the payment data and forwards the information to the payment network, which includes your processor and the relevant payment card company.

Important

You must use the Business Center or one of the Cybersource API services to capture, credit, or void the authorization.

Flow of Apple Pay In-App Transactions Processed Using Merchant Decryption

This diagram illustrates the flow of in-app transaction processing using merchant decryption.



In-App Transaction Processing with Merchant Decryption

1. When the customer chooses to pay with Apple Pay, you use the Apple PassKit Framework to request the encrypted payment data from Apple.
2. Apple uses the Secure Element to create a payment token and encrypt the token's payment data before it sends your application.
 - The payment token is the `PKPaymentToken` structure.
 - The payment data is the `paymentData` field of the `PKPaymentToken` structure.
3. You forward the encrypted payment data to your order management system to decrypt. For information on decryption, see the [Payment Token Format Reference](#) article in the Apple Pay Developer Documentation.
4. Using the Cybersource API, you submit the authorization request and include the decrypted payment data.
5. Cybersource forwards the information to the payment network, which includes your processor and the relevant payment card company.

Important

You must use the Business Center or one of the Cybersource API services to capture, credit, or void the authorization.

Flow of Apple Pay Web Transactions Using Cybersource Decryption

1. When the customer chooses to pay with Apple Pay, you use the Apple Pay JavaScript to request the encrypted payment data from Apple.
2. Apple uses the Secure Element to create a payment token and encrypt the token's payment data before it sends your application using the `onpaymentauthorized` event handler.
 - The payment token is the `ApplePayPaymentToken` structure.

- The payment data is the **paymentData** field of the `ApplePayPaymentToken` structure.

For more information, see [Apple Pay on the Web Interactive Demo](#).

3. You forward the encrypted payment data to your order management system.
4. Using the Cybersource API, you submit the authorization request. In the **encryptedPayment_data** field, include the Base64-encoded value obtained from the **paymentData** field of the `ApplePayPaymentToken` structure.
5. Cybersource decrypts the payment data and forwards the information to the payment network, which includes your processor and the relevant payment card company.



Important

Use the Business Center or one of the Cybersource API services to capture, credit, or void the authorization.

Flow of Apple Pay Web Transactions Using Merchant Decryption

1. When the customer chooses to pay with Apple Pay, you use the Apple Pay JavaScript to request the encrypted payment data from Apple.
2. Apple uses the Secure Element to create a payment token and encrypt the token's payment data before it sends your application using the `onpaymentauthorized` event handler.
 - The payment token is the `ApplePayPaymentToken` structure.
 - The payment data is the **paymentData** field of the `ApplePayPaymentToken` structure.

For more information, see [Apple Pay on the Web Interactive Demo](#).

3. You forward the encrypted payment data to your order management system to decrypt. For information on decryption, see the [Payment Token Format Reference](#) article in the Apple Pay Developer Documentation.
4. Using the Cybersource API, you submit the authorization request and include the decrypted payment data. See [Using the Merchant Decryption Method](#).
5. Cybersource forwards the information to the payment network, which includes your processor and the relevant payment card company.



Important

Use the Business Center or one of the Cybersource API services to capture, credit, or void the authorization.

Configuring Apple Pay Processing

A successful Apple Pay response to a payment request returns an encrypted payload that contains sensitive payment information. The payment information is extracted and decrypted using Cybersource decryption or merchant decryption. Before you can process Apple Pay transactions, you must complete these configuration tasks:

Generating and Loading a New Certificate Signing Request

For processing Apple Pay transactions using Cybersource decryption, you must first generate an Apple Pay encryption key on the business portal and load it into the Apple development portal.

For merchant decryption, this configuration task is not needed.

Configuring Apple Pay Response Handling

After the payment token is received, the transaction is finalized by extracting and decrypting the payment data. Cybersource decryption and merchant decryption methods consist of different configuration steps.

Generating and Loading a New Certificate Signing Request

This task is required to process Apple Pay transactions using Cybersource decryption. It does not apply to merchant decryption.

Follow these steps in order to configure Apple Pay in the Cybersource Business Center:

1. Log in to the Business Center:
 - Test: <https://businesscentertest.cybersource.com>
 - Production: <https://businesscenter.cybersource.com>
2. On the left navigation panel, click the **Payment Configuration** icon.
3. Click **Digital Payment Solution**. The Digital Payments page appears. If you do not have the correct permissions enabled on your account, the Digital Payment Solution option does not appear on the left navigation panel.
4. Click **Configure**. The Apple Pay Registration panel opens.
5. Enter your Apple Merchant ID.
6. Click **Generate New CSR**.
7. To download your CSR, click the **Download** icon next to the key.
8. Follow your browser's instructions to save and open the file.
9. Complete the enrollment process by submitting your CSR to Apple.
10. For information about adding certificates to your Apple Merchant ID, refer to the Apple Pay PassKit:
 - In-App: [Setting Up Apple Pay](#)
 - Website: [Configuring Your Environment](#)
11. Test your software by following the steps in [Processing Apple Pay Transactions](#).



Important

If you are using a Cybersource test account, you must connect to the [Apple sandbox](#) tester account and not to the Apple production system. After you complete your testing, you must create a new CSR for the Cybersource production system, and you must use that CSR for the Apple production system. Until you perform these steps, you cannot enable payments in your iOS application or website.

12. Repeat Steps 1 through 11 with your Cybersource production account and the Apple production account.

Configuring Apple Pay Response Handling

Configure the decryption method to handle the response payload of a successful Apple Pay transaction.

After the payment token is received, the transaction is finalized by extracting and decrypting the payment data.

- **Cybersource Decryption:**
This method forwards the encrypted payment data to your order management system. Use the Cybersource API to submit the authorization request, and include the Base64-

encoded value obtained from the `paymentData` object in the `encryptedPayment_data` field.

Example:

```
session.onpaymentauthorized = function (event) {  
    var paymentDataString = JSON.stringify(event.payment.token.paymentData);  
    var paymentDataBase64 = btoa(paymentDataString);  
}
```

- **Merchant Decryption:**
This method forwards the encrypted payment data to your order management system to decrypt. Use the Cybersource API to submit the authorization request and include the decrypted payment data.
For detailed information about decryption, see [Payment Token Format Reference](#) in the Apple Developer Center.

Processing Apple Pay Transactions

This section provides information about these Apple Pay transactions:

Authorizing a Payment Using Cybersource Decryption or Merchant Decryption

You can request the authorization service using these decryption methods:

- **Cybersource decryption:** Within this integration, Cybersource facilitates all of the encryption key generation and decryption processes associated with implementing Apple Pay. This method reduces the exposure of the sensitive payment data to your system.
- **Merchant decryption:** Within this integration, you manage all aspects of the Apple Pay integration, from generation of the payment encryption keys to decryption of the Apple Pay payload response. As a merchant, you submit the Apple Pay payment token and other payment information to Cybersource for processing.

Reversing an Authorization

This service uses the request ID returned from the previous authorization. An authorization reversal releases the hold that the authorization placed on the customer's credit card funds. Use this service to reverse an unnecessary or undesired authorization.

Capturing a Payment

This service uses the request ID returned from the previous authorization. The request ID links the capture to the

authorization. Use this service to transfer funds from the customer's account to your bank. The transaction typically completes in two to four days.

Authorizing and Capturing a Payment

A bundled authorization and capture is called a sale. Request the authorization and capture services at the same time. Cybersource processes the capture immediately.

Authorization Service

This section provides the steps for requesting the authorization service using these methods, which determine the request fields that are required to request the authorization service. In addition, different request fields are required in order to request the authorization service. The type of card used to process the transaction determines which request fields are used.

To request the authorization service, use the endpoint specified below.

After you send the request, verify the response messages to make sure that the request was successful. A value of **ACCEPT** for the **decision** field indicates success.

For information about response codes, see [Reason Codes for the Simple Order API](#).

Endpoint

Set the **ccAuthService_run** field to **true**.

Send the request to <https://ics2ws.ic3.com/commerce/1.x/transactionProcessor>.

Authorizations Using Cybersource Decryption for American Express

This section shows you how to process an authorization using Cybersource decryption for American Express.

Required Fields for Authorizing a Payment Using Cybersource Decryption for American Express

billTo_city

billTo_country

billTo_email

billTo_firstName

billTo_lastName**billTo_postalCode****billTo_state****billTo_street1****ccAuthService_run**Set this field to `true`.**encryptedPayment_data**Set this field to the Base64-encoded value obtained from the `paymentData` property of the `PKPaymentToken` object.**encryptedPayment_descriptor**Set this field to `Rk1EPUNPTU1PTi5BUFBMRS5JTkFQUC5QQV1NRU5U`.**merchantID****merchantReferenceCode****paymentSolution**Set this field to `001`.**purchaseTotals_currency****purchaseTotals_grandTotalAmount**Either `purchaseTotals_grandTotalAmount` or `item_#_unitPrice` must be included in the request.

Related Information

- [API Field Reference for the Simple Order API](#)

Optional Fields for Authorizing a Payment for Apple Pay Transactions

You can include these optional fields in a request for an authorization:

paymentNetworkToken_assuranceLevel

Set this field to the tokenization confidence level that is assigned by the token service provider.

paymentNetworkToken_deviceTechType

Set this field to one of these options:

- `001`: Secure Element (SE)
- `002`: Host card emulation (HCE)

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order XML Example: Cybersource Decryption and American Express

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.121">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <billTo>
    <firstName>Jane</firstName>
    <lastName>Smith</lastName>
    <street1>123 Main Street</street1>
    <city>Small Town</city>
    <state>CA</state>
    <postalCode>98765</postalCode>
    <country>US</country>
    <email>jsmith@example.com</email>
  </billTo>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>5.00</grandTotalAmount>
  </purchaseTotals>
  <encryptedPayment>
    <descriptor>Rk1EPUNPTU1PTi5BUFBMRS5JTkFQUC5QQV1NRU5U</descriptor>
    <data>ABCDEFabcdefABCDEFabcdef0987654321234567</data>
    <encoding>Base64</encoding>
  </encryptedPayment>
  <card>
    <cardType>003</cardType>
  </card>
  <paymentSolution>001</paymentSolution>
</requestMessage>
```

Request

```
<requestMessage xmlns="urn:schemas-nab.com.au:transaction-data-1.121">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <billTo>
    <firstName>Jane</firstName>
    <lastName>Smith</lastName>
    <street1>123 Main Street</street1>
    <city>Small Town</city>
    <state>CA</state>
    <postalCode>98765</postalCode>
    <country>US</country>
    <email>jsmith@example.com</email>
  </billTo>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>5.00</grandTotalAmount>
  </purchaseTotals>
  <encryptedPayment>
    <descriptor>Rk1EPUNPTU1PTi5BUFBMRS5JTkFQUC5QQV1NRU5U</descriptor>
    <data>ABCDEFabcdefABCDEFabcdef0987654321234567</data>
```

```

    <encoding>Base64</encoding>
  </encryptedPayment>
</card>
  <cardType>003</cardType>
</card>
  <paymentSolution>001</paymentSolution>
</requestMessage>

```

Response to a Successful Request

```

<c:replyMessage>
  <c:merchantReferenceCode>demorefnum</c:merchantReferenceCode>
  <c:requestID>4465840340765000001541</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:requestToken>Ahj/7wSR5C/4Icd2fdAKakGLadfg5535r/ghx3Z90AoBj3u</c:requestToken>
  <c:token>
    <c:expirationMonth>07</c:expirationMonth>
    <c:expirationYear>2025</c:expirationYear>
    <c:prefix>239845</c:prefix>
    <c:suffix>2947</c:suffix>
  </c:token>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
  <c:ccAuthReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>5.00</c:amount>
    <c:authorizationCode>888888</c:authorizationCode>
    <c:avsCode>X</c:avsCode>
    <c:avsCodeRaw>I1</c:avsCodeRaw>
    <c:authorizedDateTime>2015-11-03T20:53:54Z</c:authorizedDateTime>
    <c:processorResponse>100</c:processorResponse>
    <c:reconciliationID>11267051CGJSMQDC</c:reconciliationID>
  </c:ccAuthReply>
</c:replyMessage>

```

Authorizations Using Cybersource Decryption for Discover

This section provides the information you need in order to process an authorization using Cybersource decryption for Discover.

Required Fields for Authorizing a Payment Using Cybersource Decryption for Discover

billTo_city

billTo_country

billTo_email**billTo_firstName****billTo_lastName****billTo_postalCode****billTo_state****billTo_street1****ccAuthService_run**Set this field to `true`.**encryptedPayment_data**Set this field to the Base64-encoded value obtained from the `paymentData` property of the `PKPaymentToken` object.**encryptedPayment_descriptor**Set this field to `RK1EPUNPTU1PTi5BUFBMRS5JTkFQUC5QQV1NRU5U`.**merchantID****merchantReferenceCode****paymentSolution**Set this field to `001`.**purchaseTotals_currency****purchaseTotals_grandTotalAmount**Either `purchaseTotals_grandTotalAmount` or `item_#_unitPrice` must be included in the request.

Related Information

- [API Field Reference for the Simple Order API](#)

Optional Fields for Authorizing a Payment for Apple Pay Transactions

You can include these optional fields in a request for an authorization:

paymentNetworkToken_assuranceLevel

Set this field to the tokenization confidence level that is assigned by the token service provider.

paymentNetworkToken_deviceTechType

Set this field to one of these options:

- `001`: Secure Element (SE)
- `002`: Host card emulation (HCE)

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order XML Example: Cybersource Decryption and Discover

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.121">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <billTo>
    <firstName>Jane</firstName>
    <lastName>Smith</lastName>
    <street1>123 Main Street</street1>
    <city>Small Town</city>
    <state>CA</state>
    <postalCode>98765</postalCode>
    <country>US</country>
    <email>jsmith@example.com</email>
  </billTo>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>5.00</grandTotalAmount>
  </purchaseTotals>
  <encryptedPayment>
    <descriptor>Rk1EPUNPTU1PTi5BUFBMRS5JTkFQUc5QQV1NRU5U</descriptor>
    <data>ABCDEFabcdefABCDEFabcdef0987654321234567</data>
    <encoding>Base64</encoding>
  </encryptedPayment>
  <card>
    <cardType>004</cardType>
  </card>
  <paymentSolution>001</paymentSolution>
  <ccAuthService run="true"/>
</requestMessage>
```

Response to a Successful Request

```
<c:replyMessage>
  <c:merchantReferenceCode>demorefnum</c:merchantReferenceCode>
  <c:requestID>4465840340765000001541</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:requestToken>Ahj/7wSR5C/4Icd2fdAKakGLadfg5535r/ghx3Z90AoBj3u</c:requestToken>
  <c:token>
    <c:expirationMonth>07</c:expirationMonth>
    <c:expirationYear>2025</c:expirationYear>
    <c:prefix>239845</c:prefix>
    <c:suffix>2947</c:suffix>
  </c:token>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
  <c:ccAuthReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>5.00</c:amount>
    <c:authorizationCode>888888</c:authorizationCode>
    <c:avsCode>X</c:avsCode>
    <c:avsCodeRaw>I1</c:avsCodeRaw>
```

```

<c:authorizedDateTime>2015-11-03T20:53:54Z</c:authorizedDateTime>
<c:processorResponse>100</c:processorResponse>
<c:reconciliationID>11267051CGJSMQDC</c:reconciliationID>
</c:ccAuthReply>
</c:replyMessage>

```

Authorizations Using Cybersource Decryption for Mastercard

This section provides the information you need in order to process an authorization using Cybersource decryption for Mastercard.

Required Fields for Authorizing a Payment Using Cybersource Decryption for Mastercard

billTo_city

billTo_country

billTo_email

billTo_firstName

billTo_lastName

billTo_postalCode

billTo_state

billTo_street1

ccAuthService_run

encryptedPayment_data

encryptedPayment_descriptor

merchantID

merchantReferenceCode

paymentSolution

purchaseTotals_currency

purchaseTotals_grandTotalAmount

Set this field to `true`.

Set this field to the **Base64**-encoded value obtained from the `paymentData` property of the `PKPaymentToken` object.

Set this field to `RK1EPUNPTU1PTi5BUFBMRS5JTkFQUC5QQV1NRU5U`.

Set this field to `001`.

Either `purchaseTotals_grandTotalAmount` or `item_#_unitPrice` must be included in the request.

Related Information

- [API Field Reference for the Simple Order API](#)

Optional Fields for Authorizing a Payment for Apple Pay Transactions

You can include these optional fields in a request for an authorization:

paymentNetworkToken_assuranceLevel	Set this field to the tokenization confidence level that is assigned by the token service provider.
paymentNetworkToken_deviceTechType	Set this field to one of these options: <ul style="list-style-type: none"> • 001: Secure Element (SE) • 002: Host card emulation (HCE)

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order XML Example: Cybersource Decryption for Mastercard

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.121">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <billTo>
    <firstName>Jane</firstName>
    <lastName>Smith</lastName>
    <street1>123 Main Street</street1>
    <city>Small Town</city>
    <state>CA</state>
    <postalCode>98765</postalCode>
    <country>US</country>
    <email>jsmith@example.com</email>
  </billTo>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>5.00</grandTotalAmount>
  </purchaseTotals>
  <encryptedPayment>
    <descriptor>Rk1EPUNPTU1PTi5BUFBMR5JTkFQUc5QQV1NRU5U</descriptor>
    <data>ABCDEFabcdefABCDEFabcdef0987654321234567</data>
    <encoding>Base64</encoding>
  </encryptedPayment>
  <card>
    <cardType>002</cardType>
  </card>
</requestMessage>
```

```
<ccAuthService run="true"/>
<paymentSolution>001</paymentSolution>
</requestMessage>
```

Response to a Successful Request

```
<c:replyMessage>
  <c:merchantReferenceCode>demorefnum</c:merchantReferenceCode>
  <c:requestID>44658403407650000001541</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:requestToken>Ahj/7wSR5C/4Icd2fdAKakGLadfg5535r/ghx3Z90AoBj3u</c:requestToken>
  <c:token>
    <c:expirationMonth>07</c:expirationMonth>
    <c:expirationYear>2025</c:expirationYear>
    <c:prefix>239845</c:prefix>
    <c:suffix>2947</c:suffix>
  </c:token>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
  <c:ccAuthReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>5.00</c:amount>
    <c:authorizationCode>888888</c:authorizationCode>
    <c:avsCode>X</c:avsCode>
    <c:avsCodeRaw>I1</c:avsCodeRaw>
    <c:authorizedDateTime>2015-11-03T20:53:54Z</c:authorizedDateTime>
    <c:processorResponse>100</c:processorResponse>
    <c:reconciliationID>11267051CGJSMQDC</c:reconciliationID>
  </c:ccAuthReply>
</c:replyMessage>
```

Authorizations Using Cybersource Decryption for Visa

This section provides the information you need in order to process an authorization using Cybersource decryption for Visa.

Required Fields for Authorizing a Payment Using Cybersource Decryption for Visa

billTo_city

billTo_country

billTo_email

billTo_firstName

billTo_lastName

billTo_postalCode**billTo_state****billTo_street1****ccAuthService_run**Set this field to `true`.**encryptedPayment_data**Set this field to the Base64-encoded value obtained from the `paymentData` property of the `PKPaymentToken` object.**encryptedPayment_descriptor**Set this field to `Rk1EPUNPTU1PTi5BUFBMRS5JTKFQUC5QQV1NRU5U`.**merchantID****merchantReferenceCode****paymentSolution**Set this field to `001`.**purchaseTotals_currency****purchaseTotals_grandTotalAmount**Either `purchaseTotals_grandTotalAmount` or `item_#_unitPrice` must be included in the request.

Related Information

- [API Field Reference for the Simple Order API](#)

Optional Fields for Authorizing a Payment for Apple Pay Transactions

You can include these optional fields in a request for an authorization:

paymentNetworkToken_assuranceLevel

Set this field to the tokenization confidence level that is assigned by the token service provider.

paymentNetworkToken_deviceTechType

Set this field to one of these options:

- `001`: Secure Element (SE)
- `002`: Host card emulation (HCE)

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order XML Example: Cybersource Decryption for Visa

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.121">
```

```

<merchantID>demomerchant</merchantID>
<merchantReferenceCode>demorefnum</merchantReferenceCode>
<billTo>
  <firstName>Jane</firstName>
  <lastName>Smith</lastName>
  <street1>123 Main Street</street1>
  <city>Small Town</city>
  <state>CA</state>
  <postalCode>98765</postalCode>
  <country>US</country>
  <email>jsmith@example.com</email>
</billTo>
<purchaseTotals>
  <currency>USD</currency>
  <grandTotalAmount>5.00</grandTotalAmount>
</purchaseTotals>
<encryptedPayment>
  <descriptor>Rk1EPUNPTU1PTi5BUFBMRS5JTKFQUC5QQV1NRU5U</descriptor>
  <data>ABCDEFabcdefABCDEFabcdef0987654321234567</data>
  <encoding>Base64</encoding>
</encryptedPayment>
<card>
  <cardType>001</cardType>
</card>
<ccAuthService run="true"/>
<paymentSolution>001</paymentSolution>
</requestMessage>

```

Response to a Successful Request

```

<c:replyMessage>
  <c:merchantReferenceCode>demorefnum</c:merchantReferenceCode>
  <c:requestID>4465840340765000001541</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:requestToken>Ahj/7wSR5C/4Icd2fdAKakGLadfg5535r/ghx3Z90AoBj3u</c:requestToken>
  <c:token>
    <c:expirationMonth>07</c:expirationMonth>
    <c:expirationYear>2025</c:expirationYear>
    <c:prefix>239845</c:prefix>
    <c:suffix>2947</c:suffix>
  </c:token>
</c:purchaseTotals>
<c:purchaseTotals>
  <c:currency>USD</c:currency>
</c:purchaseTotals>
<c:ccAuthReply>
  <c:reasonCode>100</c:reasonCode>
  <c:amount>5.00</c:amount>
  <c:authorizationCode>888888</c:authorizationCode>
  <c:avsCode>X</c:avsCode>
  <c:avsCodeRaw>I1</c:avsCodeRaw>
  <c:authorizedDateTime>2015-11-03T20:53:54Z</c:authorizedDateTime>
  <c:processorResponse>100</c:processorResponse>
  <c:reconciliationID>11267051CGJSMQDC</c:reconciliationID>
</c:ccAuthReply>

```

</c:replyMessage>

Authorizations Using Merchant Decryption for Discover

This section provides the information you need in order to process an authorization using merchant decryption for Discover.

Required Fields for Authorizing a Payment Using Merchant Decryption for Discover

billTo_city

billTo_country

billTo_email

billTo_firstName

billTo_lastName

billTo_postalCode

billTo_state

billTo_street1

card_accountNumber

Set this field to the payment network token value.

card_expirationMonth

Set this field to the value from the payment network token expiration month.

card_expirationYear

Set this field to the value from the payment network token expiration year.

ccAuthService_run

Set this field to `true`.

merchantID

merchantReferenceCode

paymentNetworkToken_transactionType

Set this field to `1`.

paymentSolution

Set this field to `001`.

purchaseTotals_currency

purchaseTotals_grandTotalAmount

Either `purchaseTotals_grandTotalAmount` or `item_#_unitPrice` must be included in the request.

Related Information

- [API Field Reference for the Simple Order API](#)

Optional Fields for Authorizing a Payment for Apple Pay Transactions

You can include these optional fields in a request for an authorization:

paymentNetworkToken_assuranceLevel	Set this field to the tokenization confidence level that is assigned by the token service provider.
paymentNetworkToken_deviceTechType	Set this field to one of these options: <ul style="list-style-type: none"> • 001: Secure Element (SE) • 002: Host card emulation (HCE)

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order XML Example: Merchant Decryption and Discover

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.121">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <billTo>
    <firstName>Jane</firstName>
    <lastName>Smith</lastName>
    <street1>123 Main Street</street1>
    <city>Small Town</city>
    <state>CA</state>
    <postalCode>98765</postalCode>
    <country>US</country>
    <email>jsmith@example.com</email>
  </billTo>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>5.00</grandTotalAmount>
  </purchaseTotals>
  <card>
    <accountNumber>601111111111xxxx</accountNumber>
    <expirationMonth>12</expirationMonth>
    <expirationYear>2020</expirationYear>
    <cvNumber>123</cvNumber>
    <cardType>004</cardType>
  </card>
  <ccAuthService run="true">
    <cavv>ABCDEFabcdefABCDEFabcdef0987654321234567</cavv>
    <commerceIndicator>dipb</commerceIndicator>
  </ccAuthService>
</requestMessage>
```

```

</ccAuthService>
<paymentNetworkToken>
  <transactionType>1</transactionType>
</paymentNetworkToken>
<paymentSolution>001</paymentSolution>
</requestMessage>

```

Response to a Successful Request

```

<c:replyMessage>
  <c:merchantReferenceCode>demorefnum</c:merchantReferenceCode>
  <c:requestID>4465840340765000001541</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:requestToken>Ahj/7wSR5C/4Icd2fdAKakGLadfg5535r/ghx3Z90AoBj3u</c:requestToken>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
  <c:ccAuthReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>5.00</c:amount>
    <c:authorizationCode>888888</c:authorizationCode>
    <c:avsCode>X</c:avsCode>
    <c:avsCodeRaw>I1</c:avsCodeRaw>
    <c:authorizedDateTime>2015-11-03T20:53:54Z</c:authorizedDateTime>
    <c:processorResponse>100</c:processorResponse>
    <c:reconciliationID>11267051CGJSMQDC</c:reconciliationID>
  </c:ccAuthReply>
</c:replyMessage>

```

Authorizations Using Merchant Decryption for Mastercard

This section provides the information you need in order to process an authorization using merchant decryption for Mastercard.

Required Fields for Authorizing a Payment Using Merchant Decryption for Mastercard

billTo_city

billTo_country

billTo_email

billTo_firstName

billTo_lastName

billTo_postalCode

billTo_state

billTo_street1	
card_accountNumber	Set this field to the payment network token value.
card_expirationMonth	Set this field to the value from the payment network token expiration month.
card_expirationYear	Set this field to the value from the payment network token expiration year.
ccAuthService_commerceIndicator	Set this field to <code>internet</code> .
ccAuthService_networkTokenCryptogram	Set this field to the network token cryptogram.
ccAuthService_run	Set this field to <code>true</code> .
merchantID	
merchantReferenceCode	
paymentNetworkToken_transactionType	Set this field to <code>1</code> .
paymentSolution	Set this field to <code>001</code> .
purchaseTotals_currency	
purchaseTotals_grandTotalAmount	Either <code>purchaseTotals_grandTotalAmount</code> or <code>item_#_unitPrice</code> must be included in the request.
ucaf_authenticationData	Set this field to the network token cryptogram.
ucaf_collectionIndicator	Set this field to <code>2</code> .

Related Information

- [API Field Reference for the Simple Order API](#)

Optional Fields for Authorizing a Payment for Apple Pay Transactions

You can include these optional fields in a request for an authorization:

paymentNetworkToken_assuranceLevel	Set this field to the tokenization confidence level that is assigned by the token service provider.
paymentNetworkToken_deviceTechType	Set this field to one of these options: <ul style="list-style-type: none"> • <code>001</code>: Secure Element (SE) • <code>002</code>: Host card emulation (HCE)

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order XML Example: Merchant Decryption and Mastercard

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.121">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <billTo>
    <firstName>Jane</firstName>
    <lastName>Smith</lastName>
    <street1>123 Main Street</street1>
    <city>Small Town</city>
    <state>CA</state>
    <postalCode>98765</postalCode>
    <country>US</country>
    <email>jsmith@example.com</email>
  </billTo>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>5.00</grandTotalAmount>
  </purchaseTotals>
  <card>
    <accountNumber>555555555555xxxx</accountNumber>
    <expirationMonth>12</expirationMonth>
    <expirationYear>2020</expirationYear>
    <cvNumber>123</cvNumber>
    <cardType>002</cardType>
  </card>
  <ucaf>
    <authenticationData>ABCDEFabcdefABCDScdf0987654321234567</authenticationData>
    <collectionIndicator>2</collectionIndicator>
  </ucaf>
  <ccAuthService run="true">
    <commerceIndicator>spa</commerceIndicator>
  </ccAuthService>
  <paymentNetworkToken>
    <transactionType>1</transactionType>
  </paymentNetworkToken>
  <paymentSolution>001</paymentSolution>
</requestMessage>
```

Response to a Successful Request

```
<c:replyMessage>
  <c:merchantReferenceCode>demorefnum</c:merchantReferenceCode>
  <c:requestID>4465840340765000001541</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:requestToken>Ahj/7wSR5C/4Icd2fdAKakGLadfg5535r/ghx3Z90AoBj3u</c:requestToken>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
```

```

<c:ccAuthReply>
  <c:reasonCode>100</c:reasonCode>
  <c:amount>5.00</c:amount>
  <c:authorizationCode>888888</c:authorizationCode>
  <c:avsCode>X</c:avsCode>
  <c:avsCodeRaw>I1</c:avsCodeRaw>
  <c:authorizedDateTime>2015-11-03T20:53:54Z</c:authorizedDateTime>
  <c:processorResponse>100</c:processorResponse>
  <c:reconciliationID>11267051CGJSMQDC</c:reconciliationID>
</c:ccAuthReply>
</c:replyMessage>

```

Authorizations Using Merchant Decryption for Visa

This section provides the information you need in order to process an authorization using merchant decryption for Visa.

Required Fields for Authorizing a Payment Using Merchant Decryption for Visa

billTo_city

billTo_country

billTo_email

billTo_firstName

billTo_lastName

billTo_postalCode

billTo_state

billTo_street1

card_accountNumber

Set this field to the payment network token value.

card_expirationMonth

Set this field to the value from the payment network token expiration month.

card_expirationYear

Set this field to the value from the payment network token expiration year.

ccAuthService_cavv

Set this field to the network token cryptogram.

ccAuthService_commerceIndicator

Set this field to the ECI value contained in the Apple Pay response payload.

ccAuthService_networkTokenCryptogram	Set this field to the network token cryptogram.
ccAuthService_run	Set this field to <code>true</code> .
merchantID	
merchantReferenceCode	
paymentNetworkToken_transactionType	Set this field to <code>1</code> .
paymentSolution	Set this field to <code>001</code> .
purchaseTotals_currency	
purchaseTotals_grandTotalAmount	Either <code>purchaseTotals_grandTotalAmount</code> or <code>item_#_unitPrice</code> must be included in the request.

Related Information

- [API Field Reference for the Simple Order API](#)

Optional Fields for Authorizing a Payment for Apple Pay Transactions

You can include these optional fields in a request for an authorization:

paymentNetworkToken_assuranceLevel	Set this field to the tokenization confidence level that is assigned by the token service provider.
paymentNetworkToken_deviceTechType	Set this field to one of these options: <ul style="list-style-type: none"> • <code>001</code>: Secure Element (SE) • <code>002</code>: Host card emulation (HCE)

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order XML Example: Merchant Decryption and Visa

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.121">
  <merchantID>demomerchant</merchantID>
  <merchantReferenceCode>demorefnum</merchantReferenceCode>
  <billTo>
    <firstName>Jane</firstName>
    <lastName>Smith</lastName>
    <street1>123 Main Street</street1>
    <city>Small Town</city>
```

```

<state>CA</state>
<postalCode>98765</postalCode>
<country>US</country>
<email>jsmith@example.com</email>
</billTo>
<purchaseTotals>
  <currency>USD</currency>
  <grandTotalAmount>5.00</grandTotalAmount>
</purchaseTotals>
<card>
  <accountNumber>4111111111111111</accountNumber>
  <expirationMonth>12</expirationMonth>
  <expirationYear>2020</expirationYear>
  <cvNumber>123</cvNumber>
  <cardType>001</cardType>
</card>
<ccAuthService run="true">
  <cavv>ABCDEFabcdefABCDEFabcdef0987654321234567</cavv>
  <commerceIndicator>internet</commerceIndicator>
</ccAuthService>
<paymentNetworkToken>
  <transactionType>1</transactionType>
</paymentNetworkToken>
<paymentSolution>001</paymentSolution>
</requestMessage>

```

Response to a Successful Request

```

<c:replyMessage>
  <c:merchantReferenceCode>demorefnum</c:merchantReferenceCode>
  <c:requestID>4465840340765000001541</c:requestID>
  <c:decision>ACCEPT</c:decision>
  <c:reasonCode>100</c:reasonCode>
  <c:requestToken>Ahj/7wSR5C/4Icd2fdAKakGLadfg5535r/ghx3Z90AoBj3u</c:requestToken>
  <c:purchaseTotals>
    <c:currency>USD</c:currency>
  </c:purchaseTotals>
  <c:ccAuthReply>
    <c:reasonCode>100</c:reasonCode>
    <c:amount>5.00</c:amount>
    <c:authorizationCode>888888</c:authorizationCode>
    <c:avsCode>X</c:avsCode>
    <c:avsCodeRaw>I1</c:avsCodeRaw>
    <c:authorizedDateTime>2015-11-03T20:53:54Z</c:authorizedDateTime>
    <c:processorResponse>100</c:processorResponse>
    <c:reconciliationID>11267051CGJSMQDC</c:reconciliationID>
  </c:ccAuthReply>
</c:replyMessage>

```

Authorization Reversals

This section provides the information you need in order to process an authorization reversal.

Reversing an authorization releases the hold on the customer's payment card funds that the issuing bank placed when processing the authorization.

Endpoint

Set the `ccAuthReversalService_run` field to `true`.

Send the request to `https://ics2ws.ic3.com/commerce/1.x/transactionProcessor`.

Required Fields for Processing an Authorization Reversal

<code>ccAuthReversalService_authRequestID</code>	Set this field to the request ID that was included in the authorization response message.
<code>ccAuthReversalService_run</code>	Set this field to <code>true</code> .
<code>merchantReferenceCode</code>	
<code>merchantTransactionIdentifier</code>	
<code>purchaseTotals_currency</code>	
<code>purchaseTotals_grandTotalAmount</code>	The amount of the reversal must be the same as the authorization amount that was included in the authorization response message. Do not use the amount that was requested in the authorization request message.

Simple Order Example: Processing an Authorization Reversal

Request

```
ccAuthReversalService_authRequestID=652203383441016772169
ccAuthReversalService_run=true
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
merchantTransactionIdentifier=Napa Valley Vacations
purchaseTotals_currency=USD
purchaseTotals_grandTotalAmount=49.95
```

Response to a Successful Request

```
requestID=1019827520348290570293
merchantReferenceCode=482046C3A7E94F5BD1FE3C66C
decision=ACCEPT
reasonCode=100
ccAuthReversalReply_amount=49.95
purchaseTotals_currency=USD
ccAuthReversalReply_reasonCode=100
ccAuthReversalReply_reconciliationID=1094820975023470
```

Captures

This section provides the information you need in order to capture an authorized transaction.

Endpoint

Set the `ccCaptureService_run` field to `true`.

Send the request to `https://ics2ws.ic3.com/commerce/1.x/transactionProcessor`.

Required Fields for Capturing an Authorization

`ccCaptureService_authRequestID`

`ccCaptureService_run`

`merchantID`

`merchantReferenceCode`

Set to `merchant_ref_number` value used in corresponding authorization request.

`purchaseTotals_currency`

`purchaseTotals_grandTotalAmount`

Simple Order Example: Capturing an Authorization

Request

```
ccCaptureService_authRequestID=6629978499572480812782
ccCaptureService_run=true
merchantID=npr_paymentech
merchantReferenceCode=TC42703-1
purchaseTotals_grandTotalAmount=100.00
```

Response to a Successful Request

```
ccCaptureReply_amount=100.00
ccCaptureReply_requestDateTime=2022-09-12T173947Z
decision=ACCEPT
merchantReferenceCode=TC42703-1
purchaseTotals_currency=USD
requestID=6630043878211258349460
```

Sale

This section provides the information you need in order to process a sale transaction. A sale transaction combines an authorization and a capture into a single transaction.

Endpoint

Set the `ccAuthService_run` field to `true`, and the `ccCaptureService_run` field to `true`. Send the request to `https://ics2ws.ic3.com/commerce/1.x/transactionProcessor`.

Required Fields for Processing a Sale

Use these required fields for processing a sale.



Important

When using relaxed requirements for address data and the expiration date, not all fields in this list are required. It is your responsibility to determine whether your account is enabled to use this feature and which fields are required. For details about relaxed requirements, see the support article [Relaxed Requirements for Address Data and Expiration Date in Credit Card Transactions](#).

`billTo_city`

`billTo_country`

`billTo_email`

`billTo_firstName`

`billTo_lastName`

`billTo_postalCode`

`billTo_state`

`billTo_street1`

`card_accountNumber`

`card_cardType`

`card_expirationMonth`

`card_expirationYear`

`ccAuthService_commerceIndicator`

`ccAuthService_run`

Set this field to `true`.

`ccCaptureService_run`

Set this field to `true`.

`merchantID`

`purchaseTotals_currency`

`purchaseTotals_grandTotalAmount`

Related Information

- [API Field Reference for the Simple Order API](#)

Simple Order Example: Processing a Sale

Request

```

ccAuthService_run=true
ccCaptureService_run=true
merchantID=Napa Valley Vacations
merchantReferenceCode=482046C3A7E94F5
billTo_firstName=John
billTo_lastName=Doe
billTo_street1=1295 Charleston Rd.
billTo_city=Mountain View
billTo_state=CA
billTo_postalCode=94043
billTo_country=US
billTo_phoneNumber=650-965-6000
billTo_email=jdoe@example.com
item_0_unitPrice=49.95
item_0_quantity=1
purchaseTotals_currency=USD
card_expirationMonth=12
card_expirationYear=2015
card_accountNumber=4111111111111111
card_cardType=001

```

Response to a Successful Request

Most processors do not return all of the fields shown in this example.

```

requestID=0305782650000167905080
decision=ACCEPT
reasonCode=100
merchantReferenceCode=482046C3A7E94F5
purchaseTotals_currency=USD
ccAuthReply_reconciliationID=ABCDE12345FGHIJ67890
ccAuthReply_cardCategory=F^
ccAuthReply_cardGroup=0
ccAuthReply_reasonCode=100
ccAuthReply_amount=49.95
ccAuthReply_accountBalance=50.05
ccAuthReply_authorizationCode=123456
ccAuthReply_avsCode=Y
ccAuthReply_avsCodeRaw=YYY
ccAuthReply_processorResponse=A
ccAuthReply_paymentNetworkTransactionID=3312345
ccCaptureReply_amount=49.95
ccCaptureReply_reasonCode=100
ccCaptureReply_reconciliationID=1094820975023470

```

Searching for Apple Pay Transactions

Use the Transaction Search page in the Business Center to identify Apple Pay transactions. You can search for transactions by date, application type, customer name, and other transaction identifiers.

For information about the Transaction Request Report, see the [Business Center Reporting User Guide](#).