

Chase Pay POS Transactions

Using the SCMP API

December 2016



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Recent Revisions to This Document

Release	Changes
December 2016	Initial release.

About This Guide

Audience and Purpose

This guide is written for merchants who want to enable customers to use Chase Pay point of sale (POS) with a mobile app. This document provides an overview of integrating Chase Pay POS and CyberSource services into an order management system and describes how to use the CyberSource API to request authorizations.

Implementing the CyberSource services requires software development skills. You must write code that uses the API request and reply fields to integrate the services into your existing order management system.

Conventions

The following special statements are used in this document:



Note

A *Note* contains helpful suggestions or references to material not contained in this document.



Important

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

The following text conventions are used in this document:

Table 1 Text Conventions

Convention	Meaning
bold	Field and service names in text; for example: Include the ics_applications field.
monospace	<ul style="list-style-type: none"> ■ XML elements ■ Code examples ■ Values for API fields; for example: Set the ics_applications field to <code>ics_auth</code>.

Related Documentation

- *Getting Started with CyberSource Advanced for the SCMP API* ([PDF](#) | [HTML](#))
- *Card-Present Processing Using the SCMP API* ([PDF](#) | [HTML](#))

Refer to the Support Center for complete CyberSource technical documentation:

http://www.cybersource.com/support_center/support_documentation

Customer Support

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

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

Introduction to Chase Pay POS Transactions

Requirements

You must:

- Create a CyberSource merchant evaluation account, if you do not have one already:
<https://www.cybersource.com/register/>
- Obtain a merchant category code from your Chase account manager, and then contact CyberSource Customer Support to add the merchant category code to your CyberSource account.
- Have a merchant account with Chase Paymentech Solutions.
- Install a CyberSource [SCMP Order API client](#).

Supported Card Type

CyberSource supports the Visa card type for Chase Pay POS transactions.

How Chase Pay POS Works

- 1 The customer uses your app and chooses Chase Pay.
- 2 Your app uses the Chase Pay SDK to authenticate the customer credentials for the Chase Pay wallet with the Chase Pay host, obtains the session ID, and retrieves a list of the credit cards that are in the customer's Chase Pay wallet.
- 3 Your app displays the list of credit cards, and the customer selects a card.
- 4 Your app sends the session ID, account index, and order details to your order management system.

- 5 Your order management system uses the session ID and account index to retrieve the payment details from the Chase Pay host.
- 6 Your order management system matches the customer's shopping cart to the customer and the payment details.
- 7 To process the payment, your order management system sends a request through CyberSource to Chase Paymentech Solutions. In addition to the basic fields required for retail chip card processing, you must also include the following fields in your request:
 - `payment_network_token_requestor_id`—Set the value for this field to the value assigned by the token service provider.
 - `payment_network_token_transaction_type`—Set the value for this field to 1, which indicates that tokenized track data is included in the request.
 - `pos_entry_mode`—Set the value for this field to `QRCode`.
 - `terminal_capability`—Set the value for this field to 4.
 - `payment_solution`—Set the value for this field to 007, which indicates that this is a Chase Pay transaction.

The preceding fields are described in [Appendix B, "API Fields,"](#) on page 14.

- 8 In the reply message that you receive from CyberSource, the **`auth_payment_network_transaction_id`** value is the Visa transaction ID. This value is returned only for approved transactions.

Testing

For the Chase Paymentech Solutions test data, see:

http://www.cybersource.com/developers/getting_started/test_and_manage/legacy_scmp_api/paymenttech.html

Examples

Chase Pay POS Authorization

Example 1 Request Message: Chase Pay POS Authorization

```
ics_applications=ics_auth
merchant_id=JanesPlants
merchant_ref_number=ABC123
currency=usd
grand_total_amount=75.00
pos_entry_mode=QRCode
card_present=Y
terminal_capability=4
track_data=;4111111111111111=25122010123499999991?
terminal_id=87654321
card_type=001
e_commerce_indicator=retail
emv_request_combined_tags=9F3303204000950500000000009F3704238561349F100
    706011103A000009F26088717A1A173EAA04D9F36020065820200009C01009F1A020
    8409A030006209F02060000000020005F2A0208409F0306000000000000
payment_network_token_requestor_id=12323453456
payment_network_token_transaction_type=1
payment_solution=007
```

Example 2 Reply Message: Chase Pay POS Authorization

```

auth_auth_amount=75.00
auth_auth_avs=2
auth_auth_code=831000
auth_auth_response=100
auth_rcode=1
auth_rflag=SOK
auth_rmsg=Request was processed successfully.
auth_auth_time=2016-08-11T22:47:57Z
currency=usd
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
auth_trans_ref_no=1094820975023470
auth_payment_network_transaction_id=0412MCCNYJPWY
emv_reply_combined_tags=9F3303204000950500000000009F3704518823719F10070
    6011103A000009F26081E1756ED0E2134E29F36020015820200009C01009F1A02084
    09A030006219F02060000000020005F2A0208409F0306000000000000
merchant_ref_number=ABC123
request_id=0305782650000167905080

```

Chase Pay POS Capture

Example 3 Request Message: Chase Pay POS Capture

```

auth_request_id=0305782650000167905080
merchant_id=JanesPlants
merchant_ref_number=ABC123
ics_applications=ics_bill
currency=usd
grand_total_amount=75.00

```

Example 4 Reply Message: Chase Pay POS Capture

```

request_id=101982752034829057029
merchant_ref_number=ABC123
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
bill_trans_ref_no=482046C3A7E94F5BD1FE3C66C
bill_rcode=1
bill_rflag=SOK
bill_rmsg=Request was processed successfully.
bill_bill_amount=75.00
currency=usd

```

Chase Pay POS Sale

Example 5 Request Message: Chase Pay POS Sale

```
merchant_id=JanesPlants
merchant_ref_number=ABC123
currency=usd
grand_total_amount=75.00
pos_entry_mode=QRCode
card_present=Y
terminal_capability=4
track_data=;4111111111111111=25122010123499999991?
terminal_id=87654321
card_type=001
ics_applications=ics_auth,ics_bill
e_commerce_indicator=retail
emv_request_combined_tags=9F330320400095050000000009F3704238561349F100
706011103A000009F26088717A1A173EAA04D9F36020065820200009C01009F1A020
8409A030006209F02060000000020005F2A0208409F0306000000000000
payment_network_token_requestor_id=12323453456
payment_network_token_transaction_type=1
payment_solution=007
```

Example 6 Reply Message: Chase Pay POS Sale

```

auth_auth_amount=75.00
auth_auth_avs=Y
auth_auth_code=831000
auth_auth_response=100
auth_rcode=1
auth_rflag=SOK
auth_rmsg=Request was processed successfully.
auth_auth_time=2016-08-11T22:47:57Z
currency=usd
ics_rcode=1
ics_rflag=SOK
ics_rmsg=Request was processed successfully.
auth_trans_ref_no=1094820975023470
auth_payment_network_transaction_id=0412MCCNYJPWY
auth_card_category=J1
auth_card_group=0
bill_rcode=1
bill_rflag=SOK
bill_rmsg=Request was processed successfully.
bill_bill_amount=75.00
bill_trans_ref_no=1094820975023470
emv_reply_combined_tags=9F33032040009505000000000009F3704518823719F10070
    6011103A000009F26081E1756ED0E2134E29F36020015820200009C01009F1A02084
    09A030006219F02060000000020005F2A0208409F0306000000000000
merchant_ref_number=ABC123
request_id=0305782650000167905080

```

Chase Pay POS Authorization Reversal

Example 7 Request Message: Chase Pay POS Authorization Reversal

```

merchant_id=JanesPlants
merchant_ref_number=ABC123
currency=usd
grand_total_amount=75.00
ics_applications=ics_auth_reversal
auth_request_id=0305782650000167905080

```

Example 8 Reply Message: Chase Pay POS Authorization Reversal

```

merchant_ref_number=ABC123
request_id=9827520348290570291013
ics_rcode=1
ics_rlfag=SOK
ics_rmmsg=Request was processed successfully.
currency=usd
bill_rcode=1
bill_rflag=SOK
bill_rmmsg=Request was processed successfully.
auth_auth_amount=75.00
auth_auth_response=100

```

Chase Pay POS Follow-on Credit

Example 9 Request Message: Chase Pay POS Follow-on Credit

```

merchant_id=JanesPlants
merchant_ref_number=ABC123
currency=usd
grand_total_amount=75.00
ics_applications=ics_credit
bill_request_id=1019827520348290570293

```

Example 10 Reply Message: Chase Pay POS Follow-on Credit

```

merchant_ref_number=ABC123
request_id=9057101982752034820293
ics_rcode=1
ics_rlfag=SOK
ics_rmmsg=Request was processed successfully.
currency=usd
credit_rcode=1
credit_rflag=SOK
credit_rmmsg=Request was processed successfully.
credit_amount=75.00
credit_trans_ref_no=C3A7E94F5BD1FE3C64820466C

```

API Fields

Formatting Restrictions

Unless otherwise noted, all fields are order and case insensitive and the fields accept special characters such as @, #, and %.



Note

Values for request-level and offer-level fields must not contain carets (^) or colons (:). However, they can contain embedded spaces and any other printable characters. When you use more than one consecutive space, CyberSource removes the extra spaces.

Data Type Definitions

Data Type	Description
Date and time	Format is YYYY-MM-DDThhmmssZ, where: <ul style="list-style-type: none"> ■ T separates the date and the time ■ Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT) Example: 2016-08-11T224757Z equals August 11, 2016, at 22:47:57 (10:47:57 p.m.)
Decimal	Number that includes a decimal point Examples: 23.45, -0.1, 4.0, 90809.0468
Integer	Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}
Nonnegative integer	Whole number greater than or equal to zero {0, 1, 2, 3, ...}
Positive integer	Whole number greater than zero {1, 2, 3, ...}
String	Sequence of letters, numbers, spaces, and special characters

Request Fields

Table 2 Request Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
bill_address1	First line of the billing street address.	ics_auth (O)	String (60)
bill_address2	Additional address information. Example: Attention: Accounts Payable	ics_auth (O)	String (60)
bill_city	City of the billing address.	ics_auth (O)	String (50)
bill_country	Country of the billing address. Use the two-character <i>ISO Standard Country Codes</i> .	ics_auth (O)	String (2)
card_present	Indicates whether the card is present at the time of the transaction. Possible value: <ul style="list-style-type: none"> ■ N: Card is not present. 	ics_auth (R)	String (1)
card_type	Type of card to authorize. Possible value: <ul style="list-style-type: none"> ■ 001: Visa 	ics_auth (R)	String (3)
currency	Currency used for the order. Use the three-character <i>ISO Standard Currency Codes</i> .	ics_auth (R)	String (5)
customer_email	Customer's email address.	ics_auth (O)	String (255)
customer_firstname	Customer's first name. For a credit card transaction, this name must match the name on the card.	ics_auth (O)	String (60)
customer_lastname	Customer's last name. For a credit card transaction, this name must match the name on the card.	ics_auth (O)	String (60)
customer_phone	Customer's phone number. CyberSource recommends that you include the country code when the order is from outside the U.S.	ics_auth (O)	String (15)
e_commerce_indicator	Type of transaction. For a Chase Pay POS transaction, you must set this field to <code>retail</code> .	ics_auth (R)	String (13)

Table 2 Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
emv_request_combined_tags	<p>The EMV data is in the tag-length-value format and includes chip card tags, terminal tags, and transaction detail tags.</p> <p>Include all tags required by Chase Pay POS as described in the <i>Chase Pay API Specification</i>, Version 0.94.</p> <p>For information about the individual tags, see the “Application Specification” section in the <i>EMV 4.3 Specifications</i>: http://emvco.com</p> <p>Important The following tags contain sensitive information and must not be included in this field:</p> <ul style="list-style-type: none"> ■ 56: Track 1 equivalent data ■ 57: Track 2 equivalent data ■ 5A: Application PAN ■ 5F20: Cardholder name ■ 5F24: Application expiration date ■ 99: Transaction PIN ■ 9F0B: Cardholder name (extended) ■ 9F1F: Track 1 discretionary data ■ 9F20: Track 2 discretionary data 	ics_auth (R)	String (999)
grand_total_amount	<p>Grand total for the order. This value cannot be negative. You can include a decimal point (.), but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.</p> <p>You must include either this field or offer0 or the offer-level field amount. For information about items and grand totals, Getting Started with CyberSource Advanced for the SCMP API.</p>	ics_auth (See description)	String (15)
ics_applications	Set to <code>ics_auth</code> to request credit card authorization.	ics_auth (R)	String (255)
merchant_id	Your CyberSource merchant ID. Use the same merchant ID for evaluation, testing, and production.	ics_auth (R)	String (30)

Table 2 Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
merchant_ref_number	Merchant-generated order reference or tracking number. CyberSource recommends that you send a unique value for each transaction so that you can perform meaningful searches for the transaction. For information about tracking orders, see Getting Started with CyberSource Advanced for the SCMP API .	ics_auth (R)	String (50)
payment_network_token_requestor_id	Value that identifies your business and indicates that the cardholder's account number is tokenized. This value is assigned by the token service provider and is unique within the token service provider's database.	ics_auth (O)	String (11)
payment_network_token_transaction_type	Type of transaction that provided the token data. This value does not specify the token service provider; it specifies the entity that provided you with information about the token. Possible value: <ul style="list-style-type: none"> 1: In-app transaction. An application on the customer's mobile device provided the token data for an e-commerce transaction. 	ics_auth (R)	String (1)
payment_solution	Digital solution identifier. Possible value: <ul style="list-style-type: none"> 007: Chase Pay 	ics_auth (R)	String (3)
pos_entry_mode	Method of entering credit card information into the POS terminal. Possible value: <ul style="list-style-type: none"> QRCode 	ics_auth (R)	String (11)
product_code	Type of product. This value is used to identify the product category (electronic, handling, physical, service, or shipping). The default value is <code>default</code> . For a list of valid values, see the information about product codes in Credit Card Services Using the SCMP API . When this field is not set to <code>default</code> or one of the values related to shipping and/or handling, the quantity , product_name , and merchant_product_sku fields are required. For information about items and grand totals, see Getting Started with CyberSource Advanced for the SCMP API .	ics_auth (O)	String (30)

Table 2 Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_address1	First line of shipping address.	ics_auth (Required if any shipping address information is included in the request; otherwise, optional.)	String (60)
ship_to_address2	Second line of shipping address.	ics_auth (O)	String (60)
ship_to_city	City of shipping address.	ics_auth (Required if any shipping address information is included in the request and shipping to the U.S. or Canada; otherwise, optional.)	String (50)
ship_to_country	Country of shipping address. Use the two-character <i>ISO Standard Country Codes</i> .	ics_auth (Required if any shipping address information is included in the request; otherwise, optional.)	String (2)
ship_to_firstName	First name of the person receiving the shipment.	ics_auth (O)	String (60)
ship_to_lastName	Last name of the person receiving the shipment.	ics_auth (O)	String (60)
ship_to_state	State or province of shipping address. Use the <i>State, Province, and Territory Codes for the United States and Canada</i> .	ics_auth (O)	String (2)
ship_to_zip	Postal code for the shipping address. The postal code must consist of 5 to 9 digits. When the shipping country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example: 12345-6789 When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric] Example: A1B 2C3	ics_auth (O)	String (10)

Table 2 Request Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
ship_to_zip	<p>Postal code for the shipping address. The postal code must consist of 5 to 9 digits.</p> <p>When the shipping country is the U.S., the 9-digit postal code must follow this format: [5 digits][dash][4 digits] Example: 12345-6789</p> <p>When the shipping country is Canada, the 6-digit postal code must follow this format: [alpha][numeric][alpha][space][numeric][alpha][numeric] Example: A1B 2C3</p>	ics_auth (Required if any shipping address information is included in the request and shipping to the U.S. or Canada; otherwise, optional.)	String (10)
terminal_capability	<p>POS terminal's capability. Possible value:</p> <ul style="list-style-type: none"> ■ 4: Terminal can read chip cards. 	ics_auth (R)	Integer (1)
terminal_id	<p>Identifier for the terminal at your retail location. You can define this value yourself, but consult the processor for requirements.</p>	ics_auth (R)	String (8)
track_data	<p>Track 2 data. This value must include:</p> <ul style="list-style-type: none"> ■ Semicolon (;) for the start sentinel ■ Equals sign (=) after the card account number ■ Question mark (?) for the end sentinel <p>Example: ;4111111111111111=25122010123499999991?</p>	ics_auth (R)	String (119)

General Offer-Level Fields

Table 3 General Card-Present Offer-Level Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
amount	<p>Per-item price of the product. You must include either offer0 and this field or the request-level field grand_total_amount in your request. The value for this field cannot be negative. For information about offers and grand totals, see Getting Started with CyberSource Advanced for the SCMP API.</p> <p>You can include a decimal point (.) in the value for this field, but you cannot include any other special characters. CyberSource truncates the amount to the correct number of decimal places.</p>	ics_auth (See description)	Decimal (15)
merchant_product_sku	Product identifier code. Required when product_code is not <code>default</code> or one of the values related to shipping and/or handling.	ics_auth (See description)	String (15)
product_code	<p>Type of product. The value for this field is used to identify the product category (electronic, handling, physical, service, or shipping). The default value is <code>default</code>. For a list of valid values, see the information about product codes in Credit Card Services Using the SCMP API.</p> <p>When the value for this field is not <code>default</code> or one of the values related to shipping and/or handling, the quantity, product_name, and merchant_product_sku fields are required. For information about offers and grand totals, see Getting Started with CyberSource Advanced for the SCMP API.</p>	ics_auth (O)	String (30)
product_name	Required when product_code is not <code>default</code> or one of the values related to shipping and/or handling.	ics_auth (See description)	String (30)

Table 3 General Card-Present Offer-Level Fields (Continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type & Length
quantity	Default is 1. Required when product_code is not default or one of the values related to shipping and/or handling.	ics_auth (See description)	Nonnegative integer (10)
tax_amount	<p>Total tax to apply to the product. This value cannot be negative. The tax amount and the offer amount must be in the same currency.</p> <p>The tax amount field is additive. The following example uses a two-exponent currency such as USD:</p> <p>1 You include the following offer lines in your request:</p> <pre>offer0=amount:10.00^quantity: 1^tax_amount:0.80 offer1=amount:20.00^quantity: 1^tax_amount:1.60</pre> <p>2 The total amount authorized will be 32.40, not 30.00 with 2.40 of tax included.</p>	ics_auth (O)	Decimal (15)

Reply Fields



Important

Because CyberSource can add reply fields, reply codes, and reply flags at any time:

- You must parse the reply data according to the names of the fields instead of the field order in the reply. For more information about parsing reply fields, see the documentation for your client.
- Your error handler should be able to process new reply codes and reply flags without problems.
- Your error handler should use the **ics_rcode** field to determine the result if it receives a reply flag that it does not recognize.



Note

Your payment processor can include additional API reply fields that are not documented in this guide.

Table 4 Reply Fields

Field	Description	Returned By	Data Type & Length
auth_auth_amount	Amount that was authorized.	ics_auth	Decimal (15)
auth_auth_avs	AVS results. See Credit Card Services Using the SCMP API for a detailed list of AVS codes.	ics_auth	String (1)
auth_auth_code	Authorization code. Returned only when the processor returns this value.	ics_auth	String (7)
auth_auth_response	For most processors, this is the error message sent directly from the bank. Returned only when the processor returns this value.	ics_auth	String (10)
auth_auth_time	Time of authorization. Format: YYYY-MM-DDThh:mm:ssZ Example: 2016-08-11T22:47:57Z equals August 11, 2016, at 22:47:57 (10:47:57 p.m.). The T separates the date and the time. The Z indicates UTC.	ics_auth	String (20)
auth_avs_raw	AVS result code sent directly from the processor. Returned only when the processor returns this value.	ics_auth	String (10)
auth_payment_network_transaction_id	Network transaction identifier (TID). You can use this value to identify a specific transaction when you are discussing the transaction with your processor.	ics_auth	String (15)
auth_rcode	Indicates whether the service request was successful. Possible values: <ul style="list-style-type: none"> ■ -1: An error occurred. ■ 0: The request was declined. ■ 1: The request was successful. 	ics_auth	Integer (1)
auth_rflag	One-word description of the result of the ics_auth request. See Credit Card Services Using the SCMP API for a detailed list of reply flags.	ics_auth	String (50)
auth_rmsg	Message that explains the reply flag auth_rflag . Do not display this message to the customer, and do not use this field to write an error handler.	ics_auth	String (255)
auth_trans_ref_no	Reference number for the transaction.	ics_auth	String (60)
currency	Currency used for the order. For the possible values, see the ISO Standard Currency Codes .	ics_auth	String (5)

Table 4 Reply Fields (Continued)

Field	Description	Returned By	Data Type & Length
emv_reply_combined_tags	The EMV data is in the tag-length-value format and includes chip card tags, terminal tags, and transaction detail tags. For information about the individual tags, see the “Application Specification” section in the <i>EMV 4.3 Specifications</i> : http://emvco.com	ics_auth	String (999)
ics_rcode	Indicates whether the entire request was successful. Possible values: <ul style="list-style-type: none"> ■ -1: An error occurred. ■ 0: The request was declined. ■ 1: The request was successful. 	ics_auth	Integer (1)
ics_rflag	One-word description of the result of the entire request. See <i>Credit Card Services Using the SCMP API</i> for a detailed list of reply flags.	ics_auth	String (50)
ics_rmsg	Message that explains the reply flag ics_rflag . Do not display this message to the customer, and do not use this field to write an error handler.	ics_auth	String (255)
merchant_ref_number	Order reference or tracking number that you provided in the request. If you included multi-byte characters in this field in the request, the returned value might include corrupted characters.	ics_auth	String (50)
request_id	Identifier for the request generated by the client.	ics_auth	String (26)