

# Authorizations with Payment Network Tokens

SCMP API



**Developer Guide**

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# Recent Revisions to This Document

## 23.01

Removed FDC Compass, FDC Nashville Global, Moneris, and Worldpay VAP.

## 22.04

### **Barclays**

Removed Barclays as a supported processor for recurring payments. See [Recurring Payments \(on page 14\)](#).

### **Credit Mutuel-CIC**

Removed Credit Mutuel-CIC as a supported processor for recurring payments. See [Recurring Payments \(on page 14\)](#).

### **HBoS**

Added HBoS as a supported processor for authorizations with payment network tokens, recurring payments, merchant-initiated transactions and subsequent authorizations. See [Authorizations with Payment Network Tokens \(on page 7\)](#), [Recurring Payments \(on page 14\)](#), [Merchant-Initiated Transactions \(on page 11\)](#), and [Subsequent Authorizations \(on page 17\)](#).

### **HSBC**

Removed HSBC as a supported processor for recurring payments and merchant-initiated transactions. See [Recurring Payments \(on page 14\)](#) and [Merchant-Initiated Transactions \(on page 11\)](#).

### **OmniPay Direct**

Removed OmniPay Direct as a supported processor for recurring payments. See [Recurring Payments \(on page 14\)](#).

### **Streamline**

Removed Streamline as a supported processor for recurring payments. See [Recurring Payments \(on page 14\)](#).

## 22.03

### **Visa Platform Connect**

The deprecated API request and response fields, both named **payment\_network\_token\_assurance\_level**, were replaced with new fields, both named **payment\_network\_token\_assurance\_method**.

See [Request Fields \(on page 20\)](#) and [Response Fields \(on page 33\)](#).

## 22.02

### Visa Platform Connect

Updated the **payment\_network\_token\_transaction\_type** field to include values [2](#) and [3](#).

## 22.01

### Barclays

Added Diners Club and Discover as supported card types for Barclays. See [Supported Processors and Card Types \(on page 7\)](#).

## 21.03

### FDC Compass

Updated the **payment\_network\_token\_assurance\_level** request and response fields. See [Request Fields \(on page 20\)](#) and [Response Fields \(on page 33\)](#).

### Vero

Added support for the processor to [Merchant-Initiated Transactions \(on page 11\)](#), [Recurring Payments \(on page 14\)](#), and [Subsequent Authorizations \(on page 17\)](#).

## 21.02

### Visa Platform Connect

Updated [In-App Transactions \(on page 8\)](#) and the request field **payment\_network\_token\_requestor\_id**.

# About This Guide

This section describes the audience and purpose of this guide as well as conventions and related documentation. See below for information about how to use this guide and where to find further information.


## Audience and Purpose

This document is written for application developers who want to use payment network tokens in an order management system that already uses Cybersource credit card services. This document assumes that you are already familiar with the Cybersource credit card services as described in the *Credit Card Services Guide*.

Updating the Cybersource credit card services requires software development skills. You must write code that uses the API request and response fields to integrate authorizations with payment network tokens into your existing order management system.

## Conventions

The following special statements are used in this document:

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

## Related Documentation

Refer to the Support Center for complete technical documentation:

<https://docs.cybersource.com/en/index.html>

## Customer Support

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

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

# Authorizations with Payment Network Tokens

This guide explains how to request an authorization with a token instead of a primary account number (PAN).

This document describes how to integrate the pass-through processing of tokens into your order management system. It does not describe the process of substituting a PAN with a token, also known as *token provisioning*. For information about token provisioning, contact your token service provider.

For an incremental authorization, you do not need to include any payment network tokenization fields in the authorization request because Cybersource obtains the payment network tokenization information from the original authorization request.

## Supported Processors and Card Types

### Processors and Card Types

Processor	Card Types
American Express Direct	American Express
Barclays	Visa, Mastercard, JCB, Maestro (International), Maestro (UK Domestic), Diners Club, Discover  If you support Maestro (UK Domestic), you must also support Maestro (International), and you must support Mastercard Identity Check for both card types.
Chase Paymentech Tampa	Visa, Mastercard, American Express, Discover, Diners Club, JCB, China UnionPay
Chase Paymentech Solutions	Visa, Mastercard, American Express, Discover, Diners Club, JCB, Carte Blanche, Maestro (International)
Cielo 3.0	Visa, Mastercard, Elo
Credit Mutuel-CIC	Visa, Mastercard, Cartes Bancaires
Elavon Americas	Visa, Mastercard, American Express, JCB, Diners Club, Discover, China UnionPay
GPN	Visa, Mastercard, American Express, Discover, Diners Club, JCB

### Processors and Card Types (continued)

Processor	Card Types
HSBC HSBC is the Cybersource name for HSBC U.K.	Visa, Mastercard, Maestro (UK Domestic), Maestro (International), Visa Electron
HBoS	Visa, Mastercard
JCN Gateway	JCB
OmniPay Direct	Visa, Mastercard, Discover, Diners Club, Maestro (UK Domestic), Maestro (International)
SIX	Visa, Mastercard
Streamline	Visa, Mastercard
TSYS Acquiring Solutions	Visa, Mastercard, American Express
Vero	Visa, Mastercard, Elo
Visa Platform Connect	Visa, Mastercard, American Express, Discover, JCB, Diners Club

## In-App Transactions

For in-app transactions, include the following required fields in the authorization request:

**bill\_address1**

**bill\_city**

**bill\_country**

**bill\_state**

Required only for transactions in the U.S. and Canada.

**bill\_zip**

Required only for transactions in the U.S. and Canada.

**card\_type**

Cybersource strongly recommends that you send the card type even if it is optional for your processor. Omitting the card type can cause the transaction to be processed with the wrong card type.

**cavv**

For 3D Secure in-app transactions, set to the 3D Secure cryptogram. Otherwise, set to the network token cryptogram.



**currency**

**customer\_cc\_expmo**

Set to the token expiration month that you received from the token service provider.

**customer\_cc\_expyr**

Set to the token expiration year that you received from the token service provider.

**customer\_cc\_number**

Set to the token value that you received from the token service provider.

**customer\_email**

**customer\_firstname**

**customer\_lastname**

**e\_commerce\_indicator**

**grand\_total\_amount** or **offer0:amount**

**ics\_applications**

Set to [ics\\_auth](#).

**merchant\_id**

**merchant\_ref\_number**

**network\_token\_cryptogram**

**payment\_network\_token\_requestor\_id**

Required on

**payment\_network\_token\_transaction\_type**

Include 3D Secure data in the following fields:

- For Visa requests, include the **cavv** field set to the Visa Secure cryptogram.
- For Mastercard requests, include:
  - **ucsf\_authentication\_data**—set to the Identity Check cryptogram.
  - **ucsf\_collection\_indicator**—set to [2](#).
- For JCB requests, include the **cavv** field set to the J/Secure cryptogram.

See [SCMP API Fields \(on page 20\)](#) for:

- Detailed descriptions of these required request fields

- Optional request fields
- Response fields

After a successful authorization request, the rest of the credit card processing proceeds as described in the *Credit Card Services Guide*.

# Optional Features

## Merchant-Initiated Transactions

**Service:**

- Authorization

**Card type:**

- Visa

**Supported digital payments:**

- Apple Pay
- Google Pay
- Samsung Pay

**Processors:**

**Processors That Support Merchant-Initiated Transactions**

Processors Supported	Digital Payments
Chase Paymentech Solutions	Apple Pay, Google Pay, Samsung Pay  The only scenarios supported on Chase Paymentech Solutions are reauthorizations and unscheduled card-on-file transactions.
Elavon Americas	Apple Pay, Google Pay, Samsung Pay
HBoS	Apple Pay, Google Pay, Samsung Pay
Vero	Apple Pay, Google Pay
Visa Platform Connect	Apple Pay, Google Pay, Samsung Pay


For details on merchant-initiated transactions, see [Credit Card Services Optional Features](#).

# Multiple Partial Captures

See the following table.

## Processors That Support Multiple Partial Captures

Processors	Supported Digital Payments
American Express Direct	Apple Pay, Samsung Pay
Barclays	Apple Pay, Google Pay, Samsung Pay
Chase Paymentech Solutions	Apple Pay, Samsung Pay
Elavon Americas	Apple Pay, Google Pay, Samsung Pay
HSBC HSBC is the Cybersource name for HSBC U.K.	Apple Pay, Google Pay, Samsung Pay
JCN Gateway	Apple Pay, Google Pay, Samsung Pay
Omnipay Direct	Apple Pay, Google Pay, Samsung Pay
Streamline	Apple Pay, Samsung Pay  See <a href="#">Multiple Partial Captures on Streamline (on page 13)</a> .
TSYS Acquiring Solutions	Apple Pay, Samsung Pay

 **Important:** *Multiple partial captures* and *split shipments* are not the same feature.

- The multiple partial captures feature is provided by the processor. This feature enables you to request multiple partial captures for one authorization.
- The split shipments feature is provided by Cybersource. This feature supports three different scenarios: multiple authorizations, multiple captures, and multiple authorizations with multiple captures. For more information, see [Split Shipments \(on page 16\)](#).

This feature enables you to request multiple partial captures for one authorization. You must ensure that the total amount of all the captures does not exceed the authorized amount.

# Special Request Fields for Multiple Partial Captures

## Processors:

- Barclays. The special request fields are required.
- FDMS Nashville. The special request fields are required for Visa and Mastercard transactions. They are not supported for other card types.
- OmniPay Direct. Cybersource strongly recommends that you include the special request fields.
- TSYS Acquiring Solutions. The special request fields are required.

Include the following special request fields in each capture request when you are requesting multiple partial captures:

- **capture\_sequence**
- **capture\_total\_count**

When you do not know the total number of captures that you are going to request, set the capture total count to an estimated value or [99](#) for all capture requests except the final one. For the final capture request, set the capture total count and the capture sequence to the same value.

## Multiple Partial Captures on Streamline

Streamline might consider a partial capture to be a duplicate and reject the transaction when one or more of the following fields are the same for a merchant ID. You must ensure that you do not submit duplicate transaction information when using multiple partial captures; otherwise Streamline might reject the transaction.

- transaction date
- **customer\_cc\_number**
- **merchant\_ref\_number**
- **grand\_total\_amount**

# Recurring Payments

## Service:

- Authorization

## Card Types:

- Visa
- Mastercard
- American Express
- Discover
- Diners Club
- JCB

## Supported digital payments:

- Apple Pay
- Google Pay
- Samsung Pay

## Processors:

See the following table.

**Processors That Support Recurring Payments**

Processors	Card Types	Supported Digital Payments
American Express Direct	American Express	Apple Pay, Google Pay, Samsung Pay
Chase Paymentech Solutions	Visa, Mastercard, American Express, Discover	Apple Pay, Chase Pay, Google Pay, Samsung Pay
Elavon Americas	Visa, Mastercard, American Express, JCB, Diners Club, Discover, China UnionPay	Apple Pay, Google Pay, Samsung Pay



## Processors That Support Recurring Payments (continued)

Processors	Card Types	Supported Digital Payments
	<p>When you request a recurring payment transaction with Visa, Elavon Americas requires you to be in compliance with the Visa merchant-initiated transactions mandate by including additional data in the request. You must do one of the following:</p> <ul style="list-style-type: none"> <li>• Include additional data as described in <a href="#">Merchant-Initiated Transactions (on page 11)</a>.</li> <li>• Make the request using the Token Management Service, which meets the merchant-initiated transactions requirements.</li> </ul>	
GPN	Visa, Mastercard, American Express, Discover, Diners Club, JCB	Apple Pay, Google Pay, Samsung Pay
HBoS	Visa, Mastercard	Apple Pay, Google Pay, Samsung Pay
SIX	Visa, Mastercard, Discover, Diners Club, JCB, Maestro (International), Maestro (UK Domestic), China UnionPay, Visa Electron	Apple Pay, Google Pay

### Processors That Support Recurring Payments (continued)

Processors	Card Types	Supported Digital Payments
TSYS Acquiring Solutions	Visa, Mastercard, American Express, Discover	Apple Pay, Google Pay, Samsung Pay
Vero	Visa, Mastercard, Elo	Apple Pay, Google Pay
	Visa, Mastercard, American Express, Diners Club, JCB, Discover	Australia and New Zealand Banking Group Ltd.—Apple Pay, Google Pay CitiBank Singapore Ltd.—Apple Pay Global Payments Asia Pacific—Apple Pay Vantiv—Apple Pay, Google Pay, Samsung Pay Westpac—Apple Pay, Google Pay

The recurring payments feature is described in [Credit Card Services Optional Features](#).

## Relaxed Requirements for Address Data and Expiration Date

To enable relaxed requirements for address data and expiration date, contact customer support to configure your account for this feature. For details about relaxed requirements, see [Relaxed Address Data and Expiration Date](#).

## Split Shipments

For details about split shipments, see the [Credit Card Services Optional Features](#).

### Services:


- Authorization
- Capture

## Processors:

See the following table.


### Processors That Support Split Shipments

Processor	Supported Digital Payments
GPN	Apple Pay, Google Pay, Samsung Pay
	Apple Pay, Samsung Pay

 **Important:** Split shipments are not available for Mastercard transactions in the IDR currency on .

The split-shipment feature enables you to split an order into multiple shipments with multiple captures.

 **Important:** Split shipments are not available for Mastercard transactions in the IDR currency.

 **Important:** Multiple partial captures and split shipments are not the same feature.

- The multiple partial captures feature is provided by the processor. This feature enables you to request multiple partial captures for one authorization. For more information, see [Multiple Partial Captures \(on page 12\)](#).
- The split shipments feature is provided by Cybersource. This feature supports three different scenarios: multiple authorizations, multiple captures, and multiple authorizations with multiple captures.

## Subsequent Authorizations

### Service:

- Authorization

### Processors and card types:

See the following table.

### Processors That Support Subsequent Authorizations

Processor	Card Types	Supported Digital Payments
HBoS	Visa, Mastercard	Apple Pay, Google Pay, Samsung Pay
JCN Gateway	JCB	Apple Pay
Streamline	Visa, Mastercard	Apple Pay, Samsung Pay
Vero	Visa, Mastercard, Elo	Apple Pay

When a customer purchases multiple items in one order, authorize and capture the amount of each item when you are ready to ship it.

## Request a Subsequent Authorization

1. Request the authorization for the first item.
2. In each subsequent authorization request:
  - Do not include the **cavv** field.
  - Include **subsequent\_auth=Y**.

# API Fields

## Formatting Restrictions

Do not use the following characters: < > \$ % ^ \* \_ = [ ] \ { } | ; ~ ` Using these characters may result in data validation errors.

## Data Type Definitions

Data Type	Description
Date and time	<p>Format is yyyy-MM-DDThhmmssZ</p> <p>where:</p> <ul style="list-style-type: none"><li>• T separates the date and the time.</li><li>• Z indicates Coordinated Universal Time (UTC), also known as Greenwich Mean Time (GMT).</li></ul> <p><b>Example:</b> 2021-01-11T224757Z is January 11, 2021, at 22:47:57 (10:47:57 p.m.).</p>
Decimal	<p>Number that includes a decimal point.</p> <p><b>Example:</b> 23.45, -0.1, 4.0, 90809.0468</p>
Integer	<p>Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}</p>
Nonnegative integer	<p>Whole number greater than or equal to zero {0, 1, 2, 3, ...}</p>
Positive integer	<p>Whole number greater than zero {1, 2, 3, ...}</p>
String	<p>Sequence of letters, numbers, spaces, and special characters</p>

# SCMP API Fields

## Request Fields

### Request Fields

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
<b>auth_first_recurring_payment</b>	Flag that indicates whether this transaction is the first in a series of recurring payments. Possible values: <ul style="list-style-type: none"><li>• <b>Y</b>: Yes, this is the first payment in a series of recurring payments.</li><li><b>N</b> (default): No, this is not the first payment in a series of recurring payments.</li></ul> See <a href="#">Recurring Payments (on page 14)</a> .	<b>ics_auth</b> (See description)	String (1)
<b>bill_address1</b>	First line of the billing street address.	<b>ics_auth</b> (R) <sup>2</sup>	: String (40)  All other processors : String (60)
<b>bill_address2</b>	Additional address information.  <b>Example:</b> Attention: Accounts Payable	<b>ics_auth</b> (R)	: String (40)  All other processors : String (60)
<b>bill_city</b>	City of the billing address.	<b>ics_auth</b> (R) <sup>2</sup>	String (50)
<b>bill_country</b>	Country of the billing address. Use the two-character <a href="#">ISO Standard Country Codes</a> .	<b>ics_auth</b> (R) <sup>2</sup>	String (2)
<b>bill_state</b>	State or province of the billing address. For an address in the U.S. or Canada, use the <a href="#">State, Province, and Territory Codes for the United States and Canada</a> .	<b>ics_auth</b> (R) <sup>2</sup>	String (2)



## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
<b>bill_zip</b>	<p>Postal code for the billing address. The postal code must consist of 5 to 9 digits.</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><b>Example:</b> 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><b>Example:</b> A1B 2C3</p>	<b>ics_auth</b> (R) <sup>2</sup>	<p>: String (9)</p> <p>All other processors : String (10)</p>
<b>capture_sequence</b>	<p>Capture number when requesting multiple partial captures for one authorization. Used along with <b>capture_total_count</b> to track which capture is being processed. For example, the second of five captures would be passed to Cybersource as <b>capture_sequence</b> = 2 and <b>capture_total_count</b> = 5.</p> <p>For the list of processors that support this field, see (See <a href="#">Special Request Fields for Multiple Partial Captures.</a>)</p>	<b>ics_bill</b>	Integer (2)
<b>capture_total_count</b>	<p>Total number of captures when requesting multiple partial captures for one authorization. Used along with <b>capture_sequence</b> to track which capture is being processed. For example, the second of five captures would be passed to Cybersource as <b>capture_sequence</b> = 2 and <b>capture_total_count</b> = 5.</p> <p>For the list of processors that support this field, see (See <a href="#">Special Request Fields for Multiple Partial Captures.</a>)</p>	<b>ics_bill</b>	Integer (2)


## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
<b>card_type</b>	<p>Type of card to authorize. Possible values:</p> <ul style="list-style-type: none"> <li>• <a href="#">001</a>: Visa</li> <li>• <a href="#">002</a>: Mastercard</li> <li>• <a href="#">003</a>: American Express</li> <li>• <a href="#">004</a>: Discover</li> <li>• <a href="#">005</a>: Diners Club</li> <li>• <a href="#">006</a>: Carte Blanche</li> <li>• <a href="#">007</a>: JCB</li> <li>• <a href="#">024</a>: Maestro (UK Domestic)</li> <li>• <a href="#">036</a>: Cartes Bancaires</li> <li>• <a href="#">042</a>: Maestro (International)</li> <li>• <a href="#">054</a>: ELO</li> <li>• <a href="#">062</a>: China UnionPay</li> </ul>	<b>ics_auth</b> (O)	String (3)
<b>cavv</b>	<p>Cardholder authentication verification value. The value for this field must be 28-character Base64 or 40-character hex binary.</p> <p><b>Transactions without 3D Secure Data</b></p> <p>Set to the value of the network token cryptogram.</p> <p><b>Visa and JCB Transactions with 3D Secure Data</b></p> <p>This value is a transaction identifier generated by the issuing bank during Visa Secure or JCB J/Secure payer authentication.</p> <p><b>Visa Platform Connect</b></p>	<b>ics_auth</b> (R for in-app transactions with 3D Secure data.)	String (40)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<p>The value for this field corresponds to the following data in the TC 33 capture file1:</p> <ul style="list-style-type: none"> <li>• Record: CP01 TCR8</li> <li>• Position: 77-78</li> <li>• Field: CAVV version and authentication action.</li> </ul>		
<b>currency</b>	Currency used for the order: USD	<b>ics_auth</b> (R)	String (5)
<b>customer_cc_cv_number</b>	CVN. See <a href="#">Credit Card Services Using the SCMP API</a> for a list of processors that support CVN.	<b>ics_auth</b> (O)	Nonnegative integer (4)
<b>customer_cc_exp_mo</b>	Two-digit month in which the payment network token expires. Format: MM. Possible values: <a href="#">01</a> through <a href="#">12</a> .	<b>ics_auth</b> (R)	String (2)
<b>customer_cc_exp_yr</b>	Four-digit year in which the payment network token expires. Format: YYYY.	<b>ics_auth</b> (R)	Nonnegative integer (4)
<b>customer_cc_number</b>	The payment network token value.	<b>ics_auth</b> (R)	Nonnegative integer (20)
<b>customer_email</b>	Customer's email address.	<b>ics_auth</b> (R) <sup>2</sup>	String (255)
<b>customer_firstname</b>	Customer's first name. For a credit card transaction, this name must match the name on the card.	<b>ics_auth</b> (R) <sup>2</sup>	String (60)
<b>customer_lastname</b>	Customer's last name. For a credit card transaction, this name must match the name on the card.	<b>ics_auth</b> (R) <sup>2</sup>	String (60)
<b>customer_phone</b>	Customer's phone number. It is recommended that you include the country code when the order is from outside the U.S.	<b>ics_auth</b> (O)	String (15)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
<b>directory_server_transaction_id</b>	Identifier generated during the authentication transaction by the Mastercard Directory Server and passed back with the authentication results.	<b>ics_auth</b> (O)	String (36)
<b>e_commerce_indicator</b>	<p>Type of transaction.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• <b>aesk</b>: American Express card type</li> <li>• <b>dipb</b>: Discover card type</li> <li>• <b>internet</b>: Visa or JCB card type without 3D Secure data</li> <li>• <b>js</b>: J/Secure transaction</li> <li>• <b>recurring</b>: see <a href="#">Recurring Payments (on page 14)</a>.</li> <li>• <b>spa</b>: Mastercard card type</li> <li>• <b>vbv</b>: Visa Secure transaction</li> </ul> <div>  <b>Important:</b> For Visa in-app transactions, the <b>internet</b> value is mapped to the Visa ECI value 7.         </div> <p>For recurring payments, set this field to a value from the preceding list for the first payment and set this field to recurring for subsequent payments.</p>	<b>ics_auth</b> (R)	String (20)
<b>grand_total_amount</b>	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.	<b>ics_auth</b> (R)	Decimal (15)
<b>ics_applications</b>	Cybersource service to process for the request:	<b>ics_auth</b> (R)	String (255)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<a href="#">ics_auth</a>		
<b>merchant_id</b>	Your Cybersource merchant ID. Use the same merchant ID for evaluation, testing, and production.	<b>ics_auth</b> (R)	String (30)
<b>merchant_ref_number</b>	<p>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.</p> <p>For information about tracking orders, see <a href="#">Getting Started with Cybersource Advanced for the SCMP API</a>.</p>	<b>ics_auth</b> (R)	String (50)
<b>network_token_cryptogram</b>	<p>Token authentication verification value cryptogram. For token-based transactions with 3D Secure or Identity Check, you must submit both types of cryptograms: network token and 3D Secure/Identity Check.</p> <p>The value for this field must be 28-character Base64 or 40-character hex binary. All cryptograms use one of these formats.</p>	<b>ics_auth</b> (O)	String (40)
<b>pa_specification_version</b>	The 3D Secure version that you used for strong customer authentication (SCA); for example, 3D Secure 1.0.2 or 2.0.0.	<b>ics_auth</b> (O)	String (20)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
<b>payment_network_token_assurance_method</b>	<p>Confidence level of the tokenization, specified by the method used to verify the account or authenticate the cardholder. This field is supported for Visa Platform Connect only.</p> <p>The token service provider assigns the value of this field. Possible values:</p> <ul style="list-style-type: none"> <li>• <a href="#">00</a>: No issuer identity and verification (ID&amp;V).</li> <li>• <a href="#">10</a>: Card issuer account verification.</li> <li>• <a href="#">11</a>: Card issuer interactive, single-factor cardholder authentication.</li> <li>• <a href="#">12</a>: Card issuer interactive, two-factor cardholder authentication.</li> <li>• <a href="#">13</a>: Card issuer risk-oriented, non-interactive cardholder authentication.</li> <li>• <a href="#">14</a>: Card issuer asserted authentication.</li> </ul>	<b>ics_auth</b> (O)	String (2)
<b>payment_network_token_device_tech_type</b>	<p>Type of technology used in the device to store token data. Possible value:</p> <ul style="list-style-type: none"> <li>• <a href="#">001</a>: Secure Element (SE)</li> </ul>	<b>ics_auth</b> (O)	Integer (3)



## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<p>Smart card or memory with restricted access and encryption to prevent data tampering. For storing payment credentials, a SE is tested against a set of requirements defined by the payment networks. This technology is used by Apple Pay.</p> <ul style="list-style-type: none"> <li>• <a href="#">002</a>: Host card emulation (HCE)</li> </ul> <p>Emulation of a smart card by using software to create a virtual and exact representation of the card. Sensitive data is stored in a database that is hosted in the cloud. To store payment credentials, a database must meet very high level security requirements that exceed PCI DSS. This technology is used by Google Pay.</p>		
<b>payment_network_token_requestor_id</b>	<p>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.</p> <p>This field is supported only for <a href="#">Discover</a> and Chase Paymentech Solutions.</p>	<b>ics_auth</b> (R on ; otherwise, optional)	Integer (1)
<b>payment_network_token_transaction_type</b>	<p>Type of transaction that provided the token data.</p> <p>This value does not specify the token service provider; it specifies the entity that provided you with information about the token.</p> <p>Possible values:</p>	<b>ics_auth</b> (R)	String (1)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<ul style="list-style-type: none"> <li>• <b>1</b>: In-app transaction. For Apple Pay, Google Pay, RuPay seamless flow, Samsung Pay, and Visa Safe Click (VSC).</li> <li>• <b>2</b>: Near-field communication (NFC) transaction. The customer's mobile device provided the token data for a contactless EMV transaction. For recurring transactions, use this value if the original transaction was a contactless EMV transaction.</li> <li>• <b>3</b>: Merchant-initiated transaction with stored customer credentials on Visa Platform Connect.</li> </ul>		
<b>pos_environment</b>	<p>Operating environment. Possible values:</p> <ul style="list-style-type: none"> <li>• <b>0</b>: No terminal used or unknown environment.</li> <li>• <b>1</b>: On merchant premises, attended.</li> <li>• <b>2</b>: On merchant premises, unattended, or cardholder terminal. Examples: oil, kiosks, self-checkout, home computer, mobile telephone, personal digital assistant (PDA). Cardholder terminal is supported only for Mastercard transactions on .</li> <li>• <b>3</b>: Off merchant premises, attended. Examples: portable POS devices at trade shows, at service calls, or in taxis.</li> <li>• <b>4</b>: Off merchant premises, unattended, or cardholder terminal. Examples: vending machines, home computer, mobile telephone, PDA. Cardholder terminal is supported only for Mastercard transactions on .</li> </ul>	<p><b>ics_auth</b> (Optional for in-app transactions.)</p> <p><b>Writer's note:</b> This field is in:</p> <ul style="list-style-type: none"> <li>• ENT and CtV versions of the Credit Card Guides</li> <li>• ENT Beta and CtV Beta versions of the Retail Guides</li> <li>• ENT and CtV versions</li> </ul>	String (1)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<ul style="list-style-type: none"> <li>• <b>5</b>: On premises of cardholder, unattended.</li> <li>• <b>9</b>: Unknown delivery mode.</li> <li>• <b>S</b>: Electronic delivery of product. Examples: music, software, or eTickets that are downloaded over the internet.</li> <li>• <b>T</b>: Physical delivery of product. Examples: music or software that is delivered by mail or by a courier.</li> </ul> <p>This field is supported only for American Express Direct and .</p> <p>For Mastercard transactions, the only valid values are <b>2</b> and <b>4</b>.</p>	<p>of the Tokenization Supplement</p> <p>When you update the field description in one set of guides, you must also update it in the other two sets of guides.</p>	
<b>subsequent_auth</b>	<p>Indicates whether the transaction is a merchant-initiated transaction or subsequent authorization. Possible values:</p> <ul style="list-style-type: none"> <li>• <b>N</b>: Merchant-initiated transaction or subsequent authorization</li> <li>• <b>Y</b>: Not a merchant-initiated transaction or subsequent authorization</li> </ul> <p>This field is supported for:</p> <ul style="list-style-type: none"> <li>• All merchant-initiated transactions.</li> <li>• Subsequent authorizations on Streamline.</li> </ul> <p>The value for this field does not correspond to any data in the TC 33 capture file.<sup>531</sup></p>	<p><b>ics_auth:</b></p> <ul style="list-style-type: none"> <li>• <b>R</b> for merchant-initiated transactions.</li> <li>• <b>R</b> for subsequent authorizations on Streamline.</li> <li>• Otherwise, not used.</li> </ul>	String (5)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<p><b><i>Related Link</i></b></p> <p><a href="#">Credit Card Services Guide</a></p>		
<b>subsequent_auth_first</b>	<p>Indicates whether the transaction is the first merchant-initiated transaction in a series, which means that the customer initiated the previous transaction. Possible values:</p> <ul style="list-style-type: none"> <li>• <b>Y</b>: First merchant-initiated transaction</li> <li>• <b>N</b>: Not the first merchant-initiated transaction</li> </ul> <p>This field is supported only for merchant-initiated transactions.</p> <p>The value for this field corresponds to the following data in the TC 33 capture file<sup>53</sup><sup>1</sup>:</p> <ul style="list-style-type: none"> <li>• Record: CP01 TCR1</li> <li>• Position: 136</li> <li>• Field: POS Environment</li> </ul> <p><b><i>Related Link</i></b></p> <p><a href="#">Credit Card Services Guide</a></p>	<b>ics_auth</b> (R for merchant-initiated transactions; otherwise, not used.)	String (5)
<b>subsequent_auth_original_amount</b>	<p>Amount of the original authorization. This field is supported only for the following kinds of transactions with Discover:</p> <ul style="list-style-type: none"> <li>• Merchant-initiated transactions</li> <li>• Subsequent authorizations on Streamline</li> </ul> <p><b><i>Related Link</i></b></p>	<b>ics_auth</b> (See description)	String (60)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<a href="#">Credit Card Services Guide</a>		
<b>subsequent_auth_reason</b>	<p>Reason for the merchant-initiated transaction or incremental authorization. Possible values:</p> <p>Reason for the merchant-initiated transaction. Possible values:</p> <ul style="list-style-type: none"> <li>• <a href="#">1</a>: Resubmission</li> <li>• <a href="#">2</a>: Delayed charge</li> <li>• <a href="#">3</a>: Reauthorization for split shipment</li> <li>• <a href="#">4</a>: No show</li> <li>• <a href="#">5</a>: Incremental authorization</li> </ul> <p>This field is supported only for:</p> <ul style="list-style-type: none"> <li>• The five kinds of merchant-initiated transactions in the preceding list.</li> <li>• Incremental authorization service.</li> </ul> <p>This field is supported only for the five kinds of merchant-initiated transactions in the preceding list.</p> <p>The value for this field corresponds to the following data in the TC 33 capture file53<sup>1</sup>:</p> <ul style="list-style-type: none"> <li>• Record: CP01 TCR0</li> <li>• Position: 160-163</li> <li>• Field: Message Reason Code</li> </ul> <p><b>Related Link</b></p> <p><a href="#">Credit Card Services Guide</a></p>	<b>ics_auth</b> (See description)	String (1)

## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
<b>subsequent_auth_stored_credential</b>	<p>Indicates whether you obtained the payment information from credentials on file (COF) instead of from the customer. Possible values:</p> <ul style="list-style-type: none"> <li>• <b>Y</b>: Transaction uses COF</li> <li>• <b>N</b>: Transaction does not use COF</li> </ul> <p>When you use the Token Management Service, Cybersource sets this field to <b>Y</b> for you.</p> <p><b>Related Link</b></p> <p><a href="#">Credit Card Services Guide</a></p> <p><i>Token Management Service Using the SCMP API</i> (<a href="#">PDF</a>   <a href="#">HTML</a>)</p>	<b>ics_auth</b> (R for transactions that use COF information; otherwise, not used.)	String (5)
<b>subsequent_auth_transaction_id</b>	<p>Network transaction identifier that was returned in the <b>ccAuthReply_paymentNetworkTransactionID</b> field in the reply message for either the original authorization in the series or the previous authorization in the series.</p> <p>Network transaction identifier that was returned in the <b>auth_payment_network_transaction_id</b> field in the reply message for either the original authorization in the series or the previous authorization in the series.</p> <p>The value for this field does not correspond to any data in the TC 33 capture file.<sup>53</sup><sup>1</sup></p> <p>FDI Australia</p> <p>This field is supported for installment payments.</p>	<p><b>ics_auth:</b></p> <ul style="list-style-type: none"> <li>• R for merchant-initiated transactions.</li> <li>• Otherwise, not used.</li> </ul>	String (15)



## Request Fields (continued)

Field	Description	Used By: Required (R) or Optional (O)	Data Type (Length)
	<p>All Processors Other Than FDI Australia</p> <p>This field is supported for merchant-initiated transactions.</p> <p><b>Related Link</b></p> <p><a href="#">Credit Card Services Guide</a></p>		
<b>ucaf_authentication_data</b>	Universal cardholder authentication field (UCAF) data. Set the value for this field to the Mastercard Identity Check cryptogram.	<b>ics_auth</b> (R for in-app transactions with 3D Secure data)	String (32)
<b>ucaf_collection_indicator</b>	<p>Collection indicator for the universal cardholder authentication field for Mastercard.</p> <p>Set the value for this field to <a href="#">2</a>.</p>	<b>ics_auth</b> (R for in-app transactions with 3D Secure data)	String with numbers only (1)
<p>1—The TC 33 Capture file contains information about the purchases and refunds that a merchant submits to Cybersource. 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.</p> <p>2—This field is optional if your Cybersource account is configured for relaxed requirements for address data and expiration date. See <a href="#">Relaxed Requirements for Address Data and Expiration Date (on page 16)</a>. <b>Important</b> It is your responsibility to determine whether a field is required for the transaction you are requesting.</p>			

## Response Fields

 **Important:** Because Cybersource can add response fields, response codes, and response flags at any time:

- You must parse the response data according to the names of the fields instead of the field order in the response. For more information about parsing response fields, see the documentation for your client.

- Your error handler should be able to process new response codes and response flags without problems.
- Your error handler should use the **ics\_rcode** field to determine the result if it receives a response flag that it does not recognize.

Your payment processor can include additional API response fields that are not documented in this guide. See [Credit Card Services Using the SCMP API](#) for detailed descriptions of additional API response fields.

### Response Fields

Field	Description	Returned By	Data Type & Length
<b>auth_auth_amount</b>	Amount that was authorized.	<b>ics_auth</b>	Decimal (15)
<b>auth_auth_avs</b>	AVS result code. See <a href="#">Credit Card Services Using the SCMP API</a> for a detailed list of AVS values.	<b>ics_auth</b>	String (1)
<b>auth_auth_code</b>	Authorization code. Returned only when the processor returns this value.	<b>ics_auth</b>	String (7)
<b>auth_auth_response</b>	For most processors, this value is the error message sent directly from the bank. Returned only when the processor returns this value.	<b>ics_auth</b>	String (10)
<b>auth_avs_raw</b>	AVS result code sent directly from the processor. Returned only when the processor returns this value.	<b>ics_auth</b>	String (10)
<b>auth_payment_card_service</b>	<p>Mastercard service that was used for the transaction. Mastercard provides this value to Cybersource. Possible value:</p> <p><a href="#">53</a>: Mastercard card-on-file token service</p> <p>The value for this field corresponds to the following data in the TC 33 capture file<sup>1</sup>:</p> <ul style="list-style-type: none"> <li>• Record: CP01 TCR6</li> <li>• Position: 133-134</li> <li>• Field: Mastercard Merchant on-behalf service.</li> </ul>	<b>ics_auth</b>	String (2)

## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
	This field is returned only for .		
<b>auth_payment_card_service_result</b>	<p>Result of the Mastercard card-on-file token service. Mastercard provides this value to Cybersource. Possible values:</p> <ul style="list-style-type: none"> <li>• <b>C</b>: Service completed successfully.</li> <li>• <b>F</b>: One of the following: <ul style="list-style-type: none"> <li>◦ Incorrect Mastercard POS entry mode. The Mastercard POS entry mode should be 81 for an authorization or authorization reversal.</li> <li>◦ Incorrect Mastercard POS entry mode. The Mastercard POS entry mode should be 01 for a tokenized request.</li> <li>◦ Token requestor ID is missing or formatted incorrectly.</li> </ul> </li> <li>• <b>I</b>: One of the following: <ul style="list-style-type: none"> <li>◦ Invalid token requestor ID.</li> <li>◦ Suspended or deactivated token.</li> <li>◦ Invalid token (not in mapping table).</li> </ul> </li> <li>• <b>T</b>: Invalid combination of token requestor ID and token.</li> <li>• <b>U</b>: Expired token.</li> <li>• <b>W</b>: Primary account number (PAN) listed in electronic warning bulletin. This field is returned only for .</li> </ul> <p>This field is returned only for .</p>	<b>ics_auth</b>	String (1)
<b>auth_rcode</b>	Indicates whether the service request was successful. Possible values:	<b>ics_auth</b>	Integer (1)

## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
	<ul style="list-style-type: none"> <li>• <b>-1</b>: An error occurred.</li> <li>• <b>0</b>: The request was declined.</li> <li>• <b>1</b>: The request was successful.</li> </ul>		
<b>auth_reversal_payment_card_service</b>	<p>Mastercard service that was used for the transaction. Mastercard provides this value to Cybersource. Possible value:</p> <p><b>53</b>: Mastercard card-on-file token service</p> <p>The value for this field corresponds to the following data in the TC 33 capture file1:</p> <ul style="list-style-type: none"> <li>• Record: CP01 TCR6</li> <li>• Position: 133-134</li> <li>• Field: Mastercard Merchant on-behalf service.</li> </ul> <p>This field is returned only for .</p>	<b>ics_auth_reversal</b>	String (2)
<b>auth_reversal_payment_card_service_result</b>	<p>Result of the Mastercard card-on-file token service. Mastercard provides this value to Cybersource. Possible values:</p> <ul style="list-style-type: none"> <li>• <b>C</b>: Service completed successfully.</li> <li>• <b>F</b>: One of the following: <ul style="list-style-type: none"> <li>◦ Incorrect Mastercard POS entry mode. The Mastercard POS entry mode should be 81 for an authorization or authorization reversal.</li> <li>◦ Incorrect Mastercard POS entry mode. The Mastercard POS entry mode should be 01 for a tokenized request.</li> <li>◦ Token requestor ID is missing or formatted incorrectly.</li> </ul> </li> </ul>	<b>ics_auth_reversal</b>	String (1)

## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
	<ul style="list-style-type: none"> <li>• <b>I</b>: One of the following: <ul style="list-style-type: none"> <li>◦ Invalid token requestor ID.</li> <li>◦ Suspended or deactivated token.</li> <li>◦ Invalid token (not in mapping table).</li> </ul> </li> <li>• <b>T</b>: Invalid combination of token requestor ID and token.</li> <li>• <b>U</b>: Expired token.</li> <li>• <b>W</b>: Primary account number (PAN) listed in electronic warning bulletin. This field is returned only for .</li> </ul> <p>This field is returned only for .</p>		
<b>auth_rflag</b>	One-word description of the result of the entire request. See <a href="#">Credit Card Services Using the SCMP API</a> for a detailed list of rflag values.	<b>ics_auth</b>	String (50)
<b>auth_rmsg</b>	Message that explains the response flag auth_rflag. Do not display this message to the customer, and do not use this field to write an error handler.	<b>ics_auth</b>	String (255)
<b>auth_trans_ref_no</b>	Reference number for the transaction.  This value is not returned for all processors.	<b>ics_auth</b>	String (60)
<b>auth_transaction_qualification</b>	Type of authentication for which the transaction qualifies as determined by the Mastercard authentication service, which confirms the identity of the cardholder. Mastercard provides this value to Cybersource. Possible values: <ul style="list-style-type: none"> <li>• <b>1</b>: Transaction qualifies for Mastercard authentication type 1.</li> </ul>	<b>ics_auth</b>	String (1)

## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
	<ul style="list-style-type: none"> <li>• <a href="#">2</a>: Transaction qualifies for Mastercard authentication type 2.</li> </ul> <p>The value for this field corresponds to the following data in the TC 33 capture file<sup>1</sup>:</p> <ul style="list-style-type: none"> <li>• Record: CP01 TCR6</li> <li>• Position: 132</li> <li>• Field: Mastercard Member Defined service.</li> </ul> <p>This field is returned only for .</p>		
<b>card_suffix</b>	<p>Last four digits of the cardholder's account number. This field is returned only for tokenized transactions. You can use this value on the receipt that you give to the cardholder.</p> <p>This field is returned only for .</p> <p>The value for this field corresponds to the following data in the TC 33 capture file<sup>1</sup>:</p> <ul style="list-style-type: none"> <li>• Record: CP01 TCRB</li> <li>• Position: 85</li> <li>• Field: American Express last 4 PAN return indicator.</li> </ul>	<b>ics_auth</b>	String (4)
<b>currency</b>	<p>Currency used for the order. For the possible values, see the <a href="#">ISO Standard Currency Codes</a>.</p>	<b>ics_auth</b>	String (5)
<b>ics_rcode</b>	<p>Indicates whether the service request was successful. Possible values:</p> <ul style="list-style-type: none"> <li>• <a href="#">-1</a>: An error occurred.</li> <li>• <a href="#">0</a>: The request was declined.</li> <li>• <a href="#">1</a>: The request was successful.</li> </ul>	<b>ics_auth</b>	Integer (1)

## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
<b>ics_rflag</b>	One-word description of the result of the entire request. See <a href="#">Credit Card Services Using the SCMP API</a> for a detailed list of rflag values.	<b>ics_auth</b>	String (50)
<b>ics_rmsg</b>	Message that explains the reply flag <b>ics_rflag</b> . Do not display this message to the customer, and do not use this field to write an error handler.	<b>ics_auth</b>	String (255)
<b>merchant_ref_number</b>	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.	<b>ics_auth</b>	String (50)
<b>payment_network_token_account_status</b>  Writer's Note: This field is in: <ul style="list-style-type: none"> <li>• Payment Network Tokenization Guides</li> <li>• CtV Beta versions of the PIN Debit Guides</li> </ul> When you update the field description in one set of guides, you must also update it in the other set of guides.	Possible values: <ul style="list-style-type: none"> <li>• <b>N</b>: Nonregulated</li> <li>• <b>R</b>: Regulated</li> </ul> This field is returned only for .	<b>ics_auth</b>	String (1)

## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
<b>payment_network_token_assurance_method</b>	<p>Confidence level of the tokenization, specified by the method used to verify the account or authenticate the cardholder. This field is supported for Visa Platform Connect only.</p> <p>The value of this field is assigned by the token service provider. Possible values:</p> <ul style="list-style-type: none"> <li>• <b>00</b>: No issuer identity and verification (ID&amp;V).</li> <li>• <b>10</b>: Card issuer account verification.</li> <li>• <b>11</b>: Card issuer interactive, single-factor cardholder authentication.</li> <li>• <b>12</b>: Card issuer interactive, two-factor cardholder authentication.</li> <li>• <b>13</b>: Card issuer risk-oriented, non-interactive cardholder authentication.</li> <li>• <b>14</b>: Card issuer asserted authentication.</li> </ul> <p>This field is returned only for Visa Platform Connect.</p>	<b>ics_auth</b>	String (2)



## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
<b>payment_network_token_original_card_category</b>	<p>Mastercard product ID associated with the primary account number (PAN). For the possible values, see Mastercard Product IDs in <i>Credit Card Services Using the SCMP API</i>.</p> <p>This field is returned only for Mastercard transactions on .</p>	<b>ics_auth</b>	String (3)
<b>payment_network_token_requestor_id</b>  Writer's Note: This field is in: <ul style="list-style-type: none"> <li>• Payment Network Tokenization Guides</li> <li>• CtV Beta versions of the PIN Debit Guides</li> </ul> <p>When you update the field description in one set of guides, you must also update it in the other set of guides.</p>	<p>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. This value is returned only if the processor provides it.</p> <p>This field is supported only for and Chase Paymentech Solutions.</p>	<b>ics_auth</b>	Integer (11)
<b>request_id</b>	Identifier for the request.	<b>ics_auth</b>	String (26)
<b>request_token</b>	Request token data created by Cybersource for each response. The field is an encoded string that contains no confidential information such as an account or card verification number. The string can contain a maximum of 256 characters.	<b>ics_auth</b>	String (256)

## Response Fields (continued)

Field	Description	Returned By	Data Type & Length
<b>token_expiration_month</b>	Month in which the token expires. Cybersource includes this field in the reply message when it decrypts the payment blob for the tokenized transaction.  Format: MM.  Possible values: <a href="#">01</a> through <a href="#">12</a> .	<b>ics_auth</b>	String (2)
<b>token_expiration_year</b>	Year in which the token expires. Cybersource includes this field in the reply message when it decrypts the payment blob for the tokenized transaction.  Format: YYYY.	<b>ics_auth</b>	String (4)
<b>token_prefix</b>	First 6 digits of token. Cybersource includes this field in the reply message when it decrypts the payment blob for the tokenized transaction.	<b>ics_auth</b>	String (6)
<b>token_suffix</b>	Last 4 digits of token. Cybersource includes this field in the reply message when it decrypts the payment blob for the tokenized transaction.	<b>ics_auth</b>	String (4)
1—The TC 33 Capture file contains information about the purchases and refunds that a merchant submits to Cybersource. 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.			

# SCMP API Examples

## In-App Authorization Request for Visa

```
merchant_id=Foster_City_Flowers
merchant_ref_number=12345678
customer_firstname=Jane
customer_lastname=Smith
bill_address1=100 Main Street
bill_address2=Suite 1234
bill_city=Foster City
bill_state=CA
bill_zip=94404
bill_country=US
customer_email=jsmith@example.com
currency=USD
grand_total_amount=16.00
customer_cc_number=4650100000000839
customer_cc_expmo=12
customer_cc_expyr=2031
ics_applications=ics_auth
cavv=EHuWW9PiBkWvqE5juRwDzAUFBAk=
e_commerce_indicator=vbv
network_token_cryptogram=qE5juRwDzAUFBAkEHuWW9PiBkWv=
payment_network_token_transaction_type=1
```

## In-App Authorization Request for Mastercard

```
merchant_id=Foster_City_Flowers
merchant_ref_number=12345678
customer_firstname=Jane
customer_lastname=Smith
bill_address1=100 Main Street
bill_address2=Suite 1234
bill_city=Foster City
bill_state=CA
bill_zip=94404
bill_country=US
customer_email=jsmith@example.com
currency=USD
grand_total_amount=16.00
customer_cc_number=4650100000000839
customer_cc_expmo=12
customer_cc_expyr=2031
```

```
ics_applications=ics_auth
e_commerce_indicator=spa
network_token_cryptogram=qE5juRwDzAUFBAkEHuWW9PiBkWv=
ucaf_authentication_data=EHuWW9PiBkWvqE5juRwDzAUFBAk=
ucaf_collection_indicator=2
payment_network_token_transaction_type=1
```

## In-App Authorization Request for American Express

```
merchant_id=Foster_City_Flowers
merchant_ref_number=12345678
customer_firstname=Jane
customer_lastname=Smith
bill_address1=100 Main Street
bill_address2=Suite 1234
bill_city=Foster City
bill_state=CA
bill_zip=94404
bill_country=US
customer_email=jsmith@example.com
currency=USD
grand_total_amount=16.00
customer_cc_number=4650100000000839
customer_cc_expmo=12
customer_cc_expyr=2031
ics_applications=ics_auth
e_commerce_indicator=aesk
network_token_cryptogram=qE5juRwDzAUFBAkEHuWW9PiBkWv=
payment_network_token_transaction_type=1
```