

Airline Processing

Simple Order API
Elavon



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Revision

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Airline Processing

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

Audience and Purpose

This guide is written for application developers who want to use the Cybersource Simple Order API to integrate credit card processing with airline data into their order management system.

Implementing the Cybersource credit card services requires software development skills. You must write code that uses the API request and reply fields to integrate the credit card services 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.

Customer Support

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

<http://support.visaacceptance.com>

Recent Revisions to This Document

24.02

This revision contains only editorial changes and no technical updates.

24.01

Elavon

Added format requirements for the `airlineData_leg_#_departureDate` field value. See [Elavon Airline Processing](#) on page 8.

23.02

This revision contains only editorial changes and no technical updates.

23.01

This revision contains only editorial changes and no technical updates.

19.02

Removed the chapter for Elavon Americas.

19.01

This revision contains only editorial changes and no technical updates.

18.04

This revision contains only editorial changes and no technical updates.

18.03

This revision contains only editorial changes and no technical updates.

Introduction to Airline Processing

Airline data processing exceeds basic payment processing by enabling you to process specific travel data. To make use of this capability, you must submit additional information, such as:

- Carrier (airline)
- Departure date
- Destination airport
- Purchase date
- Originating airport
- Ticket class
- Travel legs (segments)

Cybersource Airline Data Processing

Cybersource does not store airline data. Instead, it functions as a pass-through service for the data. Cybersource enforces only the minimal level of field validation.

When you request an airline service, Cybersource responds with certain fields and values to indicate whether the airline data was processed. The response fields for each service are:

- Authorization: **ccAuthReply_enhancedDataEnabled**
- Capture: **ccCaptureReply_enhancedDataEnabled**
- Credit: **ccCreditReply_enhancedDataEnabled**

The possible values for the response fields are:

- **N**: the airline data was not included in the request to the processor.
- **Y**: the airline data was included in the request to the processor.

**Important**

Cybersource temporarily disables your account's airline data processing capability and contacts you if your airline data transactions produce batching errors when the information is sent to the processor. If this happens, your request is not rejected, but you receive one of the above listed fields with the N value in the response indicating that airline data in the request has been ignored and not sent to the processor.

Airline Travel Legs

Some processors require travel legs in the API service request, even for direct flights. This section describes how to successfully include travel legs in an API request.

Using Travel Legs

To include travel legs in an airline transaction, include one or more **airlineData_leg_#_** fields, starting with the **airlineData_leg_0_** fields.

Direct flights only use the **airlineData_leg_0_** fields.

For multiple leg trips, the **airlineData_leg_#_** fields must start at 0, and you must use consecutive numbers for the additional legs.

**Important**

If you skip a number, Cybersource ignores the legs that follow the skipped number.

For example, these three travel legs are valid:

```
<leg id="0">
  <carrierCode>XX</carrierCode>
</leg>
<leg id="1">
  <carrierCode>XZ</carrierCode>
</leg>
<leg id="2">
  <carrierCode>XX</carrierCode>
</leg>
```

Travel Leg Limitations

Some processors limit the number of travel legs for each trip based on the card type.

Elavon Airline Processing

This section describes the airline payment services you can use when processing with Elavon.

Supported Card Types

This table describes the card types that Elavon supports.

Elavon Supported Card Types

Supported Card Types
Diners Club
Discover
Mastercard
Visa

Captures

This section describes how to capture an airline payment.

Leg Limitations

Elavon limits the maximum number of legs for each trip based on card type.

You must include information for the first leg of the trip (leg 0), and you must use consecutive numbers for any additional legs. To do so, replace the **#** character in the field name with a sequential number starting with **0**. For example, for a trip with two legs, set the **airlineData_leg_#** field as **airlineData_leg_0** and **airlineData_leg_1**, for the first and second legs, respectively. If you skip a number, Cybersource ignores the legs that follow the skipped number.

This table describes the maximum number of legs for each trip based on card type.

Elavon Leg Limitations

Supported Card Types	Maximum Number of Trip Legs
Diners Club	4
Discover	4
Mastercard	4
Visa	4

Document Type

When capturing an airline payment, you must use the **airlineData_documentType** field to specify the purpose of the transaction. For all possible values, see [Airline Document Type Codes](#) on page 16.

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 Airline Payment

Include these required fields to capture an airline payment.

ccCaptureService_authRequestID

ccCaptureService_run

merchantID

merchantReferenceCode

Set to the **merchant_ref_number** value used in corresponding authorization request.

purchaseTotals_currency

purchaseTotals_grandTotalAmount

airlineData_agentCode

airlineData_agentName

airlineData_passengerName

airlineData_restrictedTicketIndicator

airlineData_ticketIssuerCode

airlineData_ticketNumber

ccCaptureService_industryDatatype

Set to **airline**.

airlineData_leg_#_carrierCode

Replace the **#** character with the number **0** for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_class

Replace the # character with the number 0 for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_departureDate

Format: MMDDYYYY

Replace the # character with the number 0 for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_destination

Replace the # character with the number 0 for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_originatingAirportCode

Replace the # character with the number 0 for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_stopoverCode

Replace the # character with the number 0 for the first leg and consecutive numbers for any additional legs.

Related information

- API Field Reference for the Simple Order API

Card-Specific Field for Capturing an Airline Payment

Certain card types require additional fields.

Diners Club

Use this field in addition to the required fields to capture an airline authorization when using a Diners Club card.

airlineData_leg_#_flightNumber

Related information

- API Field Reference for the Simple Order API

Optional Fields for Capturing an Airline Payment

Choose from these optional fields to include additional information when capturing an airline payment.

airlineData_customerCode

Optional only for Diners Club and Discover card types.

airlineData_leg_#_carrierCode

Optional for consecutive legs after the first leg.

<code>airlineData_leg_#_class</code>	Optional for consecutive legs after the first leg.
<code>airlineData_leg_#_departureDate</code>	Format: <code>MMDDYYYY</code> Optional for consecutive legs after the first leg.
<code>airlineData_leg_#_destination</code>	Optional for consecutive legs after the first leg.
<code>airlineData_leg_#_fareBasis</code>	
<code>airlineData_leg_#_flightNumber</code>	Optional for consecutive legs after the first leg.
<code>airlineData_leg_#_originatingAirportCode</code>	Optional for consecutive legs after the first leg.
<code>airlineData_leg_#_stopoverCode</code>	Optional for consecutive legs after the first leg.

Related information

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

Simple Order API Example: Capturing an Airline Payment

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.11">
  <merchantID>World Wide Travel</merchantID>
  <merchantReferenceCode>R98TV09EN200W</merchantReferenceCode>
  <purchaseTotals>
    <currency>USD</currency>
    <grandTotalAmount>204.78</grandTotalAmount>
  </purchaseTotals>
  <ccCaptureService run="true">
    <authRequestID>0839543530000172034078</authRequestID>
    <industryDatatype>airline</industryDatatype>
  </ccCaptureService>
  <airlineData>
    <agentCode>98222147</agentCode>
    <agentName>Regent Travel</agentName>
    <ticketNumber>02721187251</ticketNumber>
    <restrictedTicketIndicator>1</restrictedTicketIndicator>
    <ticketIssuerCode>927</ticketIssuerCode>
    <passengerName>John Smith</passengerName>
    <leg id="0">
      <carrierCode>AA</carrierCode>
      <flightNumber>397</flightNumber>
      <originatingAirportCode>SJC</originatingAirportCode>
      <class>H</class>
      <stopoverCode>1</stopoverCode>
      <departureDate>06152024</departureDate>
      <destination>SEA</destination>
    </leg>
  </airlineData>
</requestMessage>
```

```

    <fareBasis>HL7WNR</fareBasis>
  </leg>
  <leg id="1">
    <carrierCode>AA</carrierCode>
    <class>H</class>
    <stopoverCode>1</stopoverCode>
    <departureDate>06162024</departureDate>
    <destination>SJC</destination>
    <fareBasis>HL7WNR</fareBasis>
  </leg>
</airlineData>
</requestMessage>

```

Stand-Alone Credits

This topic describes how to process an airline stand-alone credit.



Important

All fields used in the original transaction must be included in your request.

Endpoint

Set the **ccCreditService_run** field to **true**.

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

Required Fields for Airline Stand Alone Credits

Include these required fields to request an airline stand-alone credit.

billTo_city

billTo_country

billTo_email

billTo_firstName

billTo_lastName

billTo_postalCode

billTo_state

billTo_street1

card_accountNumber

card_expirationMonth

card_expirationYear

ccCreditService_captureRequestID

ccCreditService_run

set to **true**. For example **ccCreditService_run="true"**.

merchantID**merchantReferenceCode**

Set to the **merchant_ref_number** value used in corresponding capture request.

purchaseTotals_currency**purchaseTotals_grandTotalAmount****airlineData_agentCode****airlineData_agentName****airlineData_passengerName****airlineData_restrictedTicketIndicator****airlineData_ticketIssuerCode****airlineData_ticketNumber****ccCreditService_industryDatatype**

Set to **airline**.

airlineData_leg_#_carrierCode**airlineData_leg_#_class**

Replace the **#** character with the number **0** for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_departureDate

Format: **MMDDYYYY**

Replace the **#** character with the number **0** for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_destination

Replace the **#** character with the number **0** for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_originatingAirportCode

Replace the **#** character with the number **0** for the first leg and consecutive numbers for any additional legs.

airlineData_leg_#_stopoverCode

Replace the **#** character with the number **0** for the first leg and consecutive numbers for any additional legs.

Related information

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

Card-Specific Field for Processing Airline Stand-Alone Credits

Certain card types require additional fields.

Diners Club

Use this field in addition to the required fields to capture an airline authorization when using a Diners Club card.

airlineData_leg_#_flightNumber

Replace the # character with the number 0 for the first leg and consecutive numbers for any additional legs.

Related information

- API Field Reference for the Simple Order API

Optional Fields for Airline Stand Alone Credits

Choose from these optional fields to include additional information when processing an airline stand-alone credit.

airlineData_customerCode

Optional only for Diners Club and Discover card types.

airlineData_leg_#_carrierCode

Optional for consecutive legs after the first leg.

airlineData_leg_#_class

Optional for consecutive legs after the first leg.

airlineData_leg_#_departureDate

Format: MMDDYYYY

Optional for consecutive legs after the first leg.

airlineData_leg_#_destination

Optional for consecutive legs after the first leg.

airlineData_leg_#_fareBasis

airlineData_leg_#_flightNumber

Optional for consecutive legs after the first leg.

airlineData_leg_#_originatingAirportCode

Optional for consecutive legs after the first leg.

airlineData_leg_#_stopoverCode

Optional for consecutive legs after the first leg.

Related information

- API Field Reference for the Simple Order API

Simple Order API Example: Processing Airline Stand-Alone Credits

Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.213">
```

```

<merchantID>test-merchant</merchantID>
<merchantReferenceCode>refnum-1234</merchantReferenceCode>
<purchaseTotals>
  <currency>USD</currency>
  <grandTotalAmount>204.78</grandTotalAmount>
</purchaseTotals>
<ccCreditService run="true">
  <captureRequestID>0305782650000167905080</captureRequestID>
</ccCreditService>
</requestMessage>

```

Response

```

<replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.213">
  <merchantReferenceCode>Postman-1701820687</merchantReferenceCode>
  <requestID>0305782650000167905080</requestID>
  <decision>ACCEPT</decision>
  <reasonCode>100</reasonCode>
  <requestToken>Axj/7wSTfHUvjqCkViFEABEg2asWjlgzb0qE+c4YxmKeQXe+aFgKeQXe+bn6QHymhcMmkmXoxZaH/
wJyb46l4wXgbv0b4AAAAxnW</requestToken>
  <purchaseTotals>
    <currency>USD</currency>
  </purchaseTotals>
  <ccCreditReply>
    <reasonCode>100</reasonCode>
    <requestDateTime>2023-12-05T23:58:07Z</requestDateTime>
    <amount>204.78</amount>
    <reconciliationID>65149037RPON81F1</reconciliationID>
    <authorizationCode>888888</authorizationCode>
    <processorResponse>100</processorResponse>
  </ccCreditReply>
</replyMessage>

```

Airline Data Reference Information

This section contains reference information that is useful when using Airline Data.

Airline Document Type Codes

To indicate the purpose of a purchase, set the **airlineData_documentType** field to a value listed in the Code column.

Airline Document Type Codes

Code	Description
01	Passenger ticket
02	Additional collection
03	Excess baggage
04	Miscellaneous charge order (MCO) or prepaid ticket authorization
05	Special service ticket
06	Supported refund
07	Unsupported refund
08	Lost ticket application
09	Tour order voucher
10	Ticket by mail
11	Undercharge adjustment
12	Group ticket
13	Exchange adjustment

Code	Description
14	SPD or air freight
15	In-flight adjustment
16	Agency passenger ticket
17	Agency tour order or voucher
18	Agency miscellaneous charge order (MCO)
19	Agency exchange order
20	Agency group ticket
21	Debit adjustment for duplicate refund or use
22	In-flight merchandise order
23	Catalogue merchandise order
24	In-flight phone charges
25	Frequent flyer fee or purchase
26	Kennel charge
27	Animal transportation charge
28	Firearms case
29	Upgrade charge
30	Credit for unused transportation
31	Credit for class of service adjustment
32	Credit for denied boarding
33	Credit for miscellaneous refund
34	Credit for lost ticket refund
35	Credit for exchange refund
36	Credit for overcharge adjustment
37	Credit for multiple Unused tickets
38	Exchange order
39	Self-service ticket
41	In-flight duty-free purchase
42	Senior citizen discount booklets
43	Club membership fee
44	Coupon book

Code	Description
45	In-flight charges
46	Tour deposit
47	Frequent flyer overnight delivery charge
48	Frequent flyer fulfillment
49	Small package delivery
50	Vendor sale
51	Miscellaneous taxes or fees
52	Travel agency fee
60	Vendor refund or credit
64	Duty free sale
65	Preferred seat upgrade
66	Cabin upgrade
67	Lounge or club access or day pass
68	Agent assisted reservation or ticketing fee
69	Ticket change or cancel fee
70	Trip insurance
71	Unaccompanied minor
72	Standby fee
73	Curbside baggage
74	In-flight medical equipment
75	Ticket or pass print fee
76	Checked sporting or special equipment
77	Dry ice fee
78	Mail or postage fee
79	Club membership fee or temporary trial
80	Frequent flyer activation or reinstatement
81	Gift certificate
82	Onboard or in-flight prepaid voucher
83	Optional services fee
84	Advance purchase for excess baggage

Code	Description
85	Advance purchase for preferred seat upgrade
86	Advance purchase for cabin upgrade
87	Advance purchase for optional services
88	Wi-Fi
89	Packages
90	In-flight entertainment or internet access
91	Overweight bag fee
92	Sleep sets
93	Special purchase fee

Ancillary Service Category Codes

To indicate the service provided in an ancillary purchase, set the **ancillaryData_service_#_categoryCode** and **ancillaryData_service_#_subcategoryCode** fields to a value listed in the Ancillary Service Category Code column.

Ancillary Service Category Codes

Ancillary Service Category	Description
BF	Bundled service
BG	Baggage fee
CF	Change fee
CG	Cargo
CO	Carbon offset
FF	Frequent flyer
GF	Gift card
GT	Ground transport
IE	In-flight entertainment
LG	Lounge
MD	Medical
ML	Meal or beverage
OT	Other

Ancillary Service Category	Codes	Description
	PA	Passenger assist fee
	PT	Pets
	SA	Seat fees
	SB	Standby
	SF	Service fee
	ST	Store
	TS	Travel service
	UN	Unaccompanied travel
	UP	Upgrades
	WI	Wi-Fi