Boleto Bancário Processing

Using the Simple Order API
or the SCMP API

July 2016

CyberSource®

the power of payment

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Contents

Recent Revisions to This Document

Release	Changes
July 2016	Added a note regarding unregistered boleto requests. See page 14 and page 28.
	Updated the following reply fields:
	■ boletoPaymentReply_reconciliationID (see page 20)
	■ boleto_payment_trans_ref_no (see page 34)
April 2016	Initial release. The Boleto Bancário content presented in this guide was taken from the *Global Payment Service Developer Guide* and the *Ingenico ePayments Planning Guide*. Those guides no longer contain Boleto Bancário information.

About This Guide

Audience and Purpose

This guide is written for merchants who want to offer Boleto Bancário payments to customers. This guide describes the tasks a merchant must complete in order to make a Boleto Bancário payment and to request reports.

Conventions

Note and Important Statements

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

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

Text and Command Conventions

Convention	Usage
bold	■ Field and service names in text; for example: Include the **ics_applications** field. ■ Items that you are instructed to act upon; for example: Click **Save**.

Convention	Usage
`monospace`	■ XML elements. ■ Code examples and samples. ■ Text that you enter in an API environment; for example: Set the **davService_run** field to `true`.

Related Documents

■ *Getting Started with CyberSource Advanced for the Simple Order API* (PDF | HTML) describes how to get started using the Simple Order API.

■ *Getting Started with CyberSource Advanced for the SCMP API* (PDF | HTML) describes how to get started using the SCMP API.

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

Boleto Bancário Payments

Supported Processors

The following processors support Boleto Bancário payments:

■ CyberSource Latin American Processing

■ Comercio Latino

Overview

Boletos Bancários are offline bank transfers that are popular in Brazil and that have the following features:

■ No upper limit, while Brazilian credit cards have low credit limits.

■ You often receive funding from the Boleto Bancário payment system more quickly than from a credit card.

■ You pay a fixed charge to the bank that issues the Boleto Bancário, while credit cards charge a percentage of the sale price.

Boletos Bancários are similar to offline bank transfers worldwide but with these differences:

■ They are payable through a customer's home banking application, which Brazilian banks offer with nearly all bank accounts.

■ They are payable in person at any bank in Brazil, whether or not it is the customer's depository bank.

■ Each Boleto Bancário has an expiration date set by you.

■ Each Boleto Bancário has a bar code that minimizes processing errors when used for in-person payment.

■ The Boleto Bancário system does not process refunds.

Boletos Bancários expire at the close of the Brazilian banking day, which is between 7:00 p.m. and 9:00 p.m. in Brazilian local time. To receive prompt payment, CyberSource recommends that you set an expiration date that is five to seven business days after the date that the Boleto Bancário is initiated.

> **Note** If the Boleto Bancário expiration date falls on a non-banking day, the Boleto expiration date is extended until the end of the next banking day. The Boleto Bancário expiration date skips weekends and holidays.

Figure 1, page 10, shows the payment flow that occurs during a Boleto Bancário transaction. The main payment processing steps are:

1   You host a customer checkout page on your web site with a selection of payment types that includes Boletos Bancários.

2   The customer chooses Boleto Bancário as the payment type and enters their customer information.

3   You forward the payment information to CyberSource as a Boleto Bancário payment request.

4   CyberSource sends you a reply message that includes the Boleto Bancário expiration date and a URL for the Boleto Bancário form to display to your customer.

5   On your web site, you display the Boleto Bancário form or a URL that the customer can click to open a pop-up window that contains the Boleto Bancário form.

6   The customer pays using one of two methods:

   ● The customer logs in to their home banking system and initiates a payment request.

   ● The customer prints the Boleto Bancário form and takes it to any bank branch in Brazil and pays cash or uses a bank debit card. (Check payment is not recommended due to the bank's holding period.)

7   The bank at which the customer paid the Boleto Bancário sends the Boleto Bancário funds to the Brazilian Clearing System.

8   The Brazilian Clearing System moves the funds to your depository institution. Boletos Bancários usually clear within two to three days.

9   The depository institution places the funds into your account and sends a daily file containing the paid Boleto Bancário to your processor.

10   Your processor sends payment verification to CyberSource.

11   You monitor the progress of the transaction in CyberSource reports and on the Business Center.

12   When you see the payment event in the Payment Events Report, you ship the merchandise, which is verification of payment.

Figure 1   Boleto Bancário Payment Flow
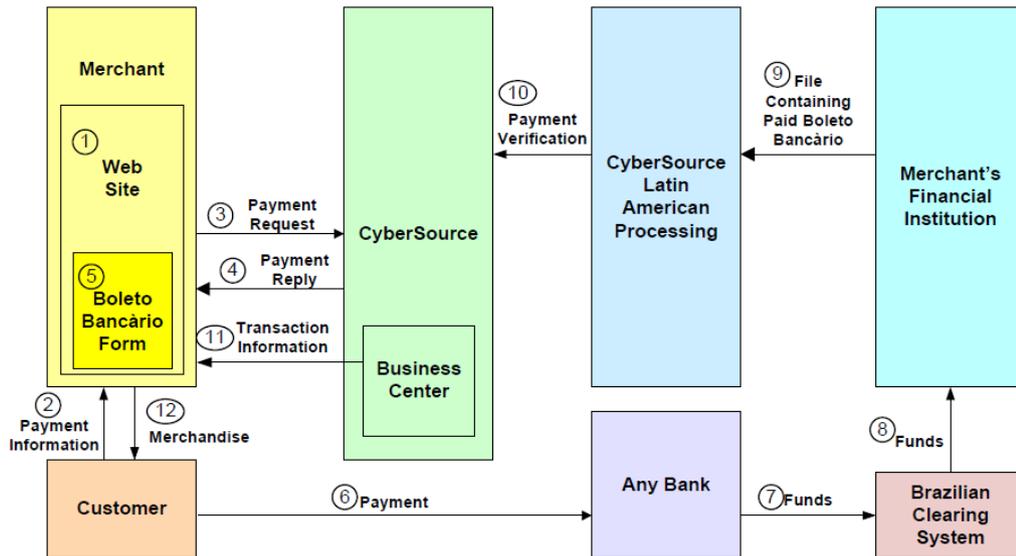
Requirements

Business Requirements

To do business in Brazil, you must have:

■   A license to do business in Brazil.

■   A bank account at a Brazilian bank that can issue Boletos Bancários.

Web Site Requirements

> **Note** You cannot use IFrame technology with Boletos Bancários.

On your web site you must publish the Boleto Bancário confirmation form exactly as you retrieved it from your processor. You can publish it in one of the following ways:

- Display the contents of the Boleto Bancário confirmation form on your web site exactly as you retrieved it.

- Provide the customer with a link that launches a window or pop-up window that contains the Boleto Bancário confirmation form exactly as you retrieved it.

> **Note** Using a pop-up window can cause problems with browsers that block pop-up windows. Also, your processor has not implemented any JavaScript that controls the size of the pop-up window.

Technical Requirements

You must:

- Contact Customer Support to enable your CyberSource account for Boletos Bancários. You must provide your Boleto Bancário merchant ID, which you obtained while establishing your business relationship with your Boleto Bancário-issuing bank.

- Install a client SDK:
  - Simple Order API: Simple Order API and SOAP Toolkit API Documentation and Downloads page.

  - SCMP API: SCMP API Documentation and Downloads page.

Expiration Date Requirements

When setting expiration dates, take the following information into consideration:

- The Boleto Bancário expires at close of business on the expiration date, unless it expires on a weekend or holiday, in which case it expires at the close of the next banking day.

- Instead of sending an expiration date for the Boleto Bancário in each Boleto Bancário request, you can arrange for CyberSource to use an interval to automatically calculate the expiration date for you. Contact Customer Support to set the value for this interval in your CyberSource account. CyberSource calculates the expiration date by adding the interval to the date that the Boleto Bancário payment is initiated. For example, if a Boleto Bancário payment is initiated on 10 March 2016 and your interval is five days, CyberSource calculates an expiration date of 15 March 2016. CyberSource recommends that you use an expiration interval of five days.

Limitations

The only service that can be called with the Boleto Bancário payment service is the Tax Calculation service.

Transaction Information

You have several sources of information about your Boleto Bancário transactions:

- Reply messages that are sent in response to your service requests.

  After you send a request message for the Boleto Bancário payment service, CyberSource responds with a reply message that contains information about the status of your request. If your request contains any errors, this information is included in the reply message. Additional status information is specific to each service.

- Reports (see page 38) that you can view in and download from the Business Center.
- Results from the query for a single transaction.

  Version 1.4 of the Query for a Single Transaction is supported for Boleto Bancário transactions. The query is described in the *Reporting Developer Guide*, which is available on the Support Center. The query results show the status of a Boleto Bancário transaction within the transaction time frame. The query results include:

  - Summary information about the transaction
  - Boleto number

  See page 39 for a query and response example.

■ Transaction details that you can view on the Business Center.

You can view the details of all your transactions, including your Boleto Bancário transactions, on the Business Center. You can search for transactions by date, application type, customer name, and other transaction identifiers.

Abandoned Boletos Bancários

CyberSource sends you a reply message that includes a URL for the Boleto Bancário form. After you display the form for the customer, the customer:

■ Uses the form to initiate a home banking transfer.

■ Prints and delivers the Boleto Bancário form to the bank and pays the Boleto Bancário there.

If the customer does not pay the Boleto Bancário, you do not get paid, and you must then contact the customer. Each Boleto Bancário that is not paid is included in the Boleto Bancário Unfulfilled Report, which indicates that the transaction has not been completed.

If the customer does not pay a Boleto Bancário within three days of initiating the Boleto Bancário payment, CyberSource recommends that you send the customer a reminder that you have not received payment.

Payment Discrepancies

CyberSource Latin American Processing

When a payment discrepancy makes it necessary for you to return funds to the customer, you need a separate procedure for refunds because refunds are not available for Boletos Bancários. CyberSource recommends that you have a separate refund procedure in place, such as using checks or wire transfers, before you accept Boleto Bancário payments.

If a customer overpays or underpays, this information appears in the Exception value in the Payment Events Report. See the *Reporting Developer Guide*, which is available on the Support Center, for information about the Payment Events Report. If the Boleto Bancário amount is greater than the order amount, CyberSource recommends that you ship the product and return the difference to the customer. If the Boleto Bancário amount is lower than the order amount, CyberSource recommends that you cancel the transaction and return the entire Boleto Bancário amount to the customer.

Boletos Bancários Using the Simple Order API

Requesting a Boleto Bancário

To request a Boleto Bancário:

> **Note** Unregistered boletos will not be supported after December 2016, A number of request fields that are currently optional will become required when requesting a boleto. See Table 1, page 15, for detailed descriptions of each request field.

Step 1 Set the **boletoPaymentService** field to true.

Step 2 Include the following fields:

- billTo_firstName
- billTo_lastName
- purchaseTotals_currency—set to BRL.
- purchaseTotals_grandTotalAmount
- merchantID
- merchantReferenceCode

See "Examples," page 23, for a request and reply example.

In the Boleto Bancário reply you receive a URL in the **boletoPaymentReply_url** field for a form that contains information about the Boleto Bancário. Display the information in this form to your customer exactly as you received it so that the customer can easily transcribe it or print it and give it to their bank.

> **Note** You are responsible for storing the URL of the Boleto Bancário form. You might want to present the URL or its contents to the customer if you have to remind them that their payment is unexpectedly late and that the Boleto Bancário will time out soon. CyberSource does not store the URL.

API Fields

This section provides detailed information about the Simple Order API fields for the Boleto Bancário payment service. For information about the data types, see *Getting Started with CyberSource Advanced for the Simple Order API*.

Data Type Definitions

For more information about these data types, see the World Wide Web Consortium (W3C) XML Schema Part 2: DataTypes specification.

- **Integer**—Whole number {..., -3, -2, -1, 0, 1, 2, 3, ...}.
- **String**—Sequence of letters, numbers, spaces, and special characters, such as @ and #.

Request Fields

Table 1   Request Fields for Boletos Bancários for the Simple Order API

Request Field	Description	Required or Optional	Data Type & Length
billTo_buildingNumber	Building number in the street address. For example, if the street address is: Rua da Quitanda 187 then the building number is 187. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (15)
billTo_city	City of the product billing address. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (50)
billTo_country	Country of the product billing address. Use the two-character *ISO Standard Country Codes*. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (2)

Table 1   Request Fields for Boletos Bancários for the Simple Order API (Continued)

Request Field	Description	Required or Optional	Data Type & Length
billTo_district	Customer's neighborhood, community, or region (a bairro in Brazil) within the city or municipality. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (50)
billTo_email	Customer's email address, including the full domain name. **Important** This field is supported only for Comercio Latino.	Optional	Alphanumeric (255)
billTo_firstName	Customer's first name.	Required	String (60)
billTo_lastName	Customer's last name.	Required	String (60)
billTo_personalID	Personal identifier. For CyberSource Latin American Processing, you can use this field for the Cadastro de Pessoas Fisicas (CPF).	Optional	String (18)
billTo_postalCode	Postal code of the product billing address. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (10)
billTo_state	State or province of the product billing address. Use the *State, Province, and Territory Codes for the United States and Canada*. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (2)
billTo_street1	First line of the billing street address. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (60)
billTo_street2	Additional address information. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (60)
boletoPaymentService_ expirationDate	Expiration date of the Boleto Bancário in GMT in ISO format: YYYY-MM-DD.	Optional	String (10)

Table 1   Request Fields for Boletos Bancários for the Simple Order API (Continued)

Request Field	Description	Required or Optional	Data Type & Length
boletoPaymentService_ instruction	Text instructions for the Boleto Bancário. This field allows you to specify the text that will be printed in the customer message field on the Boleto form. The customer message field is often used to remind the customer to submit the Boleto promptly.	Optional	String (450)
boletoPaymentService_run	Whether to include boletoPaymentService in your request. Possible values: ■ true: Include the service in your request. ■ false (default): Do not include the service in your request.	Required	String (50)
invoiceHeader_ merchantDescriptor	Merchant description that is displayed on the customer's statement. **Important** This field is supported only for Comercio Latino.	Optional	Alphanumeric (13)
item_#_unitPrice	Per-item price of the product. You must include either this field or purchaseTotals_ grandTotalAmount in your request. For more information about items and grand totals, see *Getting Started with CyberSource Advanced for the Simple Order API*. This value cannot be negative. You can include a decimal point (.) in this field, but you cannot include any other special characters. The amount will be truncated at the request level to the correct number of decimal places.	Optional	Decimal (15)
linkToRequest	Value that links the current request to a previous authorization request for a debit card or prepaid card. This value is useful when using multiple payment methods to complete an order. For more information about partial authorizations, see *Credit Card Services Using the Simple Order API*.	Optional	String (26)

Table 1   Request Fields for Boletos Bancários for the Simple Order API (Continued)

Request Field	Description	Required or Optional	Data Type & Length
merchantID	Your CyberSource merchant ID. **Note** When opening your account with CyberSource, be sure to inform CyberSource if you plan to use multiple CyberSource merchant IDs. For example, if you have separate business units within your company, each with a separate CyberSource merchant ID, you must have a separate processor merchant ID for each CyberSource merchant ID. For more information, contact Customer Support.	Required	String (30)
merchantReferenceCode	Merchant-generated order reference or tracking number. For more information, see *Getting Started with CyberSource Advanced for the Simple Order API*.	Required	String (50)
personalID_number	Type of identification of the customer. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	Alphanumeric (18)
purchaseTotals_ grandTotalAmount	Grand total for the order. You must include either this field or item_#_unitPrice in your request. For more information, see *Getting Started with CyberSource Advanced for the Simple Order API*.	Required	Decimal (15)
shipTo_buildingNumber	Building number in the street address. For example, if the street address is: Rua da Quitanda 187 then the building number is 187. **Important** This field is supported only for Comercio Latino.	Optional	String (15)
shipTo_city	City of the product shipping address. **Important** This field is supported only for Comercio Latino.	Optional	String (50)
shipTo_country	Country of the product shipping address. Use the two-character *ISO Standard Country Codes*. **Important** This field is supported only for Comercio Latino.	Optional	String (2)

Table 1   Request Fields for Boletos Bancários for the Simple Order API (Continued)

Request Field	Description	Required or Optional	Data Type & Length
shipTo_district	Customer's neighborhood, community, or region (a bairro in Brazil) within the city or municipality. **Important** This field is supported only for Comercio Latino.	Optional	String (50)
shipTo_postalCode	Postal code of the product shipping address. **Important** This field is supported only for Comercio Latino.	Optional	String (10)
shipTo_state	State or province of the product shipping address. Use the *State, Province, and Territory Codes for the United States and Canada*. **Important** This field is supported only for Comercio Latino.	Optional	String (2)
shipTo_street1	First line of the shipping street address. **Important** This field is supported only for Comercio Latino.	Optional	String (60)
shipTo_street2	Additional address information. **Important** This field is supported only for Comercio Latino.	Optional	String (60)

Reply Fields

Table 2   Reply Fields for Boletos Bancários for the Simple Order API

Reply Field	Description	Data Type & Length
additionalProcessor Response	Processor transaction ID required for troubleshooting. **Important** This field is supported only for Comercio Latino.	String (36)
boletoPaymentReply_ amount	Total amount of the Boleto Bancário payment.	Decimal (15)
boletoPaymentReply_ assignor	Merchant's name stored by the processor. **Important** This field is supported only for Comercio Latino.	String (50)

Table 2   Reply Fields for Boletos Bancários for the Simple Order API (Continued)

Reply Field	Description	Data Type & Length
boletoPaymentReply_ avsCode	AVS result code. Possible values: ■ 1: AVS not supported for this processor or card type. ■ 5: No result code was returned by this processor. **Important** This field is supported only for Comercio Latino.	String (1)
boletoPaymentReply_ barCodeNumber	Numeric representation of the boleto bar code. **Important** This field is supported only for Comercio Latino.	String (44)
boletoPaymentReply_ boletoNumber	Boleto Bancário payment number.	String (50)
boletoPaymentReply_ expirationDate	***Comercio Latino*** Expiration date of the Boleto Bancário. Format: YYYY-MM-DD. ***CyberSource Latin American Processing*** Expiration date of the Boleto Bancário in GMT. The date is in the European format: DD-MM-YYYY. For this expiration date field, the date is mapped to an ISO format: YYYY-MM-DD hh:mm:ss. **Note** There is a space between the date and the time.	String (20)
boletoPaymentReply_ reasonCode	Numeric value corresponding to the result of the Boleto Bancário request. See "Reason Codes," page 21.	Integer (5)
boletoPaymentReply_ reconciliationID	Unique value generated by CyberSource. For more information about tracking orders, see *Getting Started with CyberSource Advanced for the Simple Order API*.	Alphanumeric (16)
boletoPaymentReply_ requestDateTime	Time of the Boleto Bancário request in UTC. 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.	Date and time (20)
boletoPaymentReply_url	URL of the Boleto Bancário form.	String (255)
decision	Summarizes the result of the overall request. Possible values: ■ ACCEPT ■ ERROR ■ REJECT For more information about decision values, see *Getting Started with CyberSource Advanced for the Simple Order API*.	String (6)
invalidField_0…N	Fields in the request that contained invalid data. These reply fields are included as an aid to software developers only. Do not attempt to use these fields for end user interaction. For more information about missing and invalid fields, see *Getting Started with CyberSource Advanced for the Simple Order API*.	String (100)

Table 2   Reply Fields for Boletos Bancários for the Simple Order API (Continued)

Reply Field	Description	Data Type & Length
merchantReferenceCode	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 contain corrupted characters. For more information about tracking orders, see *Getting Started with CyberSource Advanced for the Simple Order API*.	String (50)
missingField_0...N	Required fields that were missing from the request. These reply fields are included as an aid to software developers only. Do not attempt to use these fields for end user interaction. For more information about missing and invalid fields, see *Getting Started with CyberSource Advanced for the Simple Order API*.	String (100)
purchaseTotals_currency	Currency used for the order. The only possible value is BRL.	String (5)
reasonCode	Numeric value corresponding to the result of the overall request. See "Reason Codes," page 21.	Integer (5)
requestID	Identifier for the request. For more information about request tokens, see *Getting Started with CyberSource Advanced for the Simple Order API*.	String (26)
requestToken	Request token data created by CyberSource for each reply. The field is an encoded string that contains no confidential information such as an account number. The string can contain a maximum of 256 characters.	String (256)

Reason Codes

These reason codes apply only if you use the Simple Order API. The reason code appears in the reply that you receive immediately after you request the service. See *Getting Started with CyberSource Advanced for the Simple Order API* for a discussion of replies, decisions, and reason codes.

> **Note** CyberSource reserves the right to add new reason codes at any time. If your error handler receives a reason code that it does not recognize, it should use the **decision** field to obtain the result.

Table 3   Reason Codes for the Simple Order API

Reason Code	Description
100	Successful transaction.

Table 3 **Reason Codes for the Simple Order API (Continued)**

Reason Code	Description
101	The request is missing one or more required fields.
	See the reply fields **missingField_0...N**. Resend the request with the complete information. For more information about missing and invalid fields, see *Getting Started with CyberSource Advanced for the Simple Order API*.
102	One or more fields in the request contain invalid data.
	See the reply fields **invalidField_0...N**. Resend the request with the correct information. For more information about missing and invalid fields, see *Getting Started with CyberSource Advanced for the Simple Order API*.
150	General system failure.
	See the documentation for your CyberSource client for information on handling retries in the case of system errors.
151	The request was received but a server time-out occurred. This error does not include time-outs between the client and the server.
	To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status in the Business Center. See the documentation for your CyberSource client for information on handling retries in the case of system errors.
152	The request was received, but a service timed out.
	To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status in the Business Center. See the documentation for your CyberSource client for information on handling retries in the case of system errors.
231	Invalid account number.
	Request a different form of payment.
233	General decline by the processor.
	Request a different form of payment.
234	A problem exists with your CyberSource merchant configuration.
	Do not resend the request. Contact Customer Support to correct the configuration problem.
236	Processor failure.
	Wait a few minutes and resend the request.
239	The requested transaction amount must match the previous transaction amount.
	Correct the amount and resend the request.
241	The request ID is invalid.
	Verify the request ID is correct.
244	The bank account number failed the validation check.
	Verify with the customer that the account number is correct; if it was incorrect, request the service again with the corrected information.

Table 3   Reason Codes for the Simple Order API (Continued)

Reason Code	Description
248	When CyberSource sent a Boleto Bancário request to your processor, it returned an error to CyberSource.
250	The request was received, but a time-out occurred with the payment processor.
	To avoid duplicating the transaction, do not resend the request until you have reviewed the transaction status in the Business Center.
254	Your CyberSource account is prohibited from processing stand-alone refunds.
	In the refund request, provide the **requestID** field of the payment to create a follow-on refund. If you want to process stand-alone refunds, contact your CyberSource account representative.
255	Your CyberSource account is not configured to process the service in the country you specified.
	If this is a bank transfer or bank transfer refund, verify the **billTo_country** field value and **bankInfo_country** field value to make sure that they are set to the correct country (if it is a direct debit, verify the **bankInfo_country** field). If you want to process the service in a country for which you are not configured, contact your CyberSource account representative.

Examples

Comercio Latino

Name-Value Pairs: Request

Example 1   Boleto Bancário Request

```
purchaseTotals_currency=BRL
billTo_firstName=THULIO
billTo_lastName=RIBEIRO DOS SANTOS
merchantID=midtest
boletoPaymentService_run=true
merchantReferenceCode=34923942838232
purchaseTotals_grandTotalAmount=25.00
```

Name-Value Pairs: Reply

Example 2   Boleto Bancário Reply

```
purchaseTotals_currency=BRL
boletoPaymentReply_reconciliationID=072b9dd5-5d49-4eea-aaf9-8sad9
boletoPaymentReply_amount=25.00
decision=ACCEPT
merchantReferenceCode=34923942838232
boletoPaymentReply_expirationDate=2016-03-24 23:59:59
boletoPaymentReply_url=https://www.pagador.com.br/post/pagador/
reenvia.asp/9fe1e3db-bfd5-4c8a-95fa-4e7a538b0000
boletoPaymentReply_requestDateTime=2016-03-15T12:56:02Z
requestID=4580717614566406101015
boletoPaymentReply_reasonCode=100
additionalProcessorResponse=0ef754e7-7b0d-489d-aa47-85e0b3db38bf
requestToken=AhjnLwSR8KR0QYg6sDAvFJGDdlic5MjVa1yNHK1ply4VuHDmcrXGHMwzYa
reasonCode=100
boletoPaymentReply_boletoNumber=a5f43876266e4289b698a59518b8b250
```

XML: Request

Example 3   Boleto Bancário Request

```xml
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.42">
    <billTo>
        <firstName>THULIO</firstName>
        <lastName>RIBEIRO DOS SANTOS</lastName>
    </billTo>
    <purchaseTotals>
        <currency>BRL</currency>
        <grandTotalAmount>25.00</grandTotalAmount>
    </purchaseTotals>
    <merchantID>midtest</merchantID>
    <merchantReferenceCode>1234567</merchantReferenceCode>
    <boletoPaymentService run="true">
</requestMessage>
```

XML: Reply

Example 4 **Boleto Bancário Reply**

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.42">
   <c:decision>ACCEPT</c:decision>
   <c:reasonCode>100</c:reasonCode>
   <c:requestID>12345678901234567890</c:requestID>
   <c:merchantReferenceCode>1234567</c:merchantReferenceCode>
   <c:purchaseTotals>
      <c:currency>BRL</c:currency>
   </c:purchaseTotals>
   <c:boletoPaymentReply>
      <c:reasonCode>100</c:reasonCode>
      <c:reconciliationID>12345678</c:reconciliationID>
      <c:amount>25.00</c:amount>
      <c:boletoNumber>123456</c:boletoNumber>
      <c:expirationDate>2008-11-22 23:59:59</c:expirationDate>
      <c:url>https://www.pagador.com.br/pagador/reenvia.asp?
      Id_Transacao=93b5668a-6129-48d5-ad95-76308d9974jkjkjk79</c:url>
   <c:additionalProcessorResponse>0ef754e7-7b0d-489d-aa47-
   85e0b3db38bf</c:additionalProcessorResponse>
   </c:boletoPaymentReply>
</c:replyMessage>
```

CyberSource Latin American Processing

Name-Value Pairs: Request

Example 5 **Boleto Bancário Request**

```
purchaseTotals_currency=BRL
billTo_firstName=THULIO
billTo_lastName=RIBEIRO DOS SANTOS
merchantID=midtest
boletoPaymentService_run=true
merchantReferenceCode=34923942838232
purchaseTotals_grandTotalAmount=25.00
```

Name-Value Pairs: Reply

Example 6 Boleto Bancário Reply

```
purchaseTotals_currency=BRL
boletoPaymentReply_reconciliationID=072b9dd5-5d49-4eea-aaf9-8sad9
boletoPaymentReply_amount=25.00
decision=ACCEPT
merchantReferenceCode=34923942838232
boletoPaymentReply_expirationDate=2016-03-24 23:59:59
boletoPaymentReply_url=https://www.pagador.com.br/post/pagador/
reenvia.asp/9fe1e3db-bfd5-4c8a-95fa-4e7a538b0000
boletoPaymentReply_requestDateTime=2016-03-15T12:56:02Z
requestID=4580717614566406101015
boletoPaymentReply_reasonCode=100
requestToken=AhjnLwSR8KR0QYg6sDAvFJGDdlic5MjVa1yNHK1ply4VuHDmcrXGHMwzYa
reasonCode=100
boletoPaymentReply_boletoNumber=a5f43876266e4289b698a59518b8b250
```

XML: Request

Example 7 Boleto Bancário Request

```
<requestMessage xmlns="urn:schemas-cybersource-com:transaction-data-1.42">
    <billTo>
        <firstName>THULIO</firstName>
        <lastName>RIBEIRO DOS SANTOS</lastName>
    </billTo>
    <purchaseTotals>
        <currency>BRL</currency>
        <grandTotalAmount>25.00</grandTotalAmount>
    </purchaseTotals>
    <merchantID>midtest</merchantID>
    <merchantReferenceCode>1234567</merchantReferenceCode>
    <boletoPaymentService run="true">
</requestMessage>
```

XML: Reply

Example 8   Boleto Bancário Reply

```
<c:replyMessage xmlns:c="urn:schemas-cybersource-com:transaction-data-1.42">
    <c:decision>ACCEPT</c:decision>
    <c:reasonCode>100</c:reasonCode>
    <c:requestID>12345678901234567890</c:requestID>
    <c:merchantReferenceCode>1234567</c:merchantReferenceCode>
    <c:purchaseTotals>
        <c:currency>BRL</c:currency>
    </c:purchaseTotals>
    <c:boletoPaymentReply>
        <c:reasonCode>100</c:reasonCode>
        <c:reconciliationID>12345678</c:reconciliationID>
        <c:amount>25.00</c:amount>
        <c:boletoNumber>123456</c:boletoNumber>
        <c:expirationDate>2008-11-22 23:59:59</c:expirationDate>
        <c:url>https://www.pagador.com.br/pagador/reenvia.asp?
        Id_Transacao=93b5668a-6129-48d5-ad95-76308d9974jkjkjk79</c:url>
    </c:boletoPaymentReply>
</c:replyMessage>
```

Boletos Bancários Using the SCMP API

Requesting a Boleto Bancário

To request a Boleto Bancário:

> **Note** Unregistered boletos will not be supported after December 2016, A number of request fields that are currently optional will become required when requesting a boleto. See Table 4, page 29 for detailed descriptions of each request field.

Step 1 Set the **ics_applications** field to **ics_boleto_payment**.

Step 2 Include the following fields:

- customer_firstname
- customer_lastname
- currency—set to BRL.
- merchant_id
- merchant_ref_number
- grand_total_amount
- offer0

In the Boleto Bancário reply, you receive a URL in the **boleto_payment_url** field for a form that contains information about the Boleto Bancário. Display the information in this form to your customer exactly as you received it so that the customer can easily transcribe it or print it and give it to their bank.

> **Note** You are responsible for storing the URL of the Boleto Bancário form. You might want to present the URL or its contents to the customer if you have to remind them that their payment is unexpectedly late and that the Boleto Bancário will time out soon. CyberSource does not store the URL.

API Fields

This section provides detailed information about the SCMP API fields for the Boleto Bancário payment service. For information about the data types, see *Getting Started with CyberSource Advanced for the SCMP API*.

Request Fields

Table 4   Request-Level Fields for Boletos Bancários for the SCMP API

Request-Level Field	Description	Required or Optional	Data Type & Length
bill_address1	First line of the billing street address. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (60)
bill_address2	Additional address information. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (60)
bill_building_number	Building number in the street address. For example, if the street address is: Rua da Quitanda 187 then the building number is 187. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (15)
bill_city	City of the product billing address. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (50)
bill_country	Country of the product billing address. Use the two-character *ISO Standard Country Codes*. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (2)

Table 4   Request-Level Fields for Boletos Bancários for the SCMP API (Continued)

Request-Level Field	Description	Required or Optional	Data Type & Length
bill_district	Customer's neighborhood, community, or region (a bairro in Brazil) within the city or municipality. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (50)
bill_state	State or province of the product billing address. Use the *State, Province, and Territory Codes for the United States and Canada*. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (2)
bill_zip	Postal code of the product billing address. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	String (10)
billTo_email	Customer's email address, including the full domain name. **Important** This field is supported only for Comercio Latino.	Optional	Alphanumeric (255)
boleto_payment_ expiration_date	Expiration date of the Boleto Bancário in GMT in ISO format: YYYY-MM-DD.	Optional	String (10)
boleto_payment_ instruction	Text instructions for the Boleto Bancário. This field allows you to specify the text that will be printed in the customer message field on the Boleto Bancários form. The customer message field is often used to remind the customer to submit the Boleto Bancários promptly.	Optional	String (450)
customer_firstname	Customer's first name.	Required	String (60)
customer_lastname	Customer's last name.	Required	String (60)
grand_total_amount	Grand total for the order. You must include either this field or **offer0** and the offer-level field **amount**. For more information about offers and grand totals, see *Getting Started with CyberSource Advanced for the SCMP API*.	Required	Decimal (15)
ics_applications	Service to process for the request. For a Boleto Bancário request, this value must be **ics_boleto_ payment**.	Required	String (255)

Table 4   Request-Level Fields for Boletos Bancários for the SCMP API (Continued)

Request-Level Field	Description	Required or Optional	Data Type & Length
link_to_request	Value that links the current request to a previous authorization request for a debit card or prepaid card. This value is useful when using multiple payment methods to complete an order. For more information about partial authorizations, see *Credit Card Services Using the SCMP API*.	Optional	String (26)
merchant_descriptor	Merchant description that is displayed on the customer's statement. **Important** This field is supported only for Comercio Latino.	Optional	Alphanumeric (13)
merchant_id	Your CyberSource merchant ID. **Note** When opening your account with CyberSource, make sure that you inform CyberSource if you plan to use multiple CyberSource merchant IDs. For example, when you have separate business units within your company, each with a separate CyberSource merchant ID, you must have a separate processor merchant ID for each CyberSource merchant ID. For more information, contact Customer Support.	Required	String (30)
merchant_ref_ number	Merchant-generated order reference or tracking number. For more information about tracking orders, see *Getting Started with CyberSource Advanced for the SCMP API*.	Required	String (50)
offerN: amount	Per-item price of the product. You must include this field, the **offer0** field, or the request-level field **grand_total_amount** in your request. This value cannot be negative. For more information about offers and grand totals, see *Getting Started with CyberSource Advanced for the SCMP API*. You can include a decimal point (.) in this field, but you cannot include any other special characters. The amount will be truncated at the request level to the correct number of decimal places.	Optional	Decimal (15)
personal_id	Type of identification of the customer. **Important** This field is supported only for Comercio Latino. After December 2016 unregistered boletos will not be supported. This optional field will become required.	See description.	Alphanumeric (18)
ship_to_address1	First line of the shipping street address. **Important** This field is supported only for Comercio Latino.	Optional	String (60)

Table 4 Request-Level Fields for Boletos Bancários for the SCMP API (Continued)

Request-Level Field	Description	Required or Optional	Data Type & Length
ship_to_address2	Additional address information. **Important** This field is supported only for Comercio Latino.	Optional	String (60)
ship_to_building_ number	Building number in the street address. For example, if the street address is: Rua da Quitanda 187 then the building number is 187. **Important** This field is supported only for Comercio Latino.	Optional	String (15)
ship_to_city	City of the product shipping address. **Important** This field is supported only for Comercio Latino.	Optional	String (50)
ship_to_country	Country of the product shipping address. Use the two-character *ISO Standard Country Codes*. **Important** This field is supported only for Comercio Latino.	Optional	String (2)
ship_to_district	Customer's neighborhood, community, or region (a bairro in Brazil) within the city or municipality. **Important** This field is supported only for Comercio Latino.	Optional	String (50)
ship_to_state	State or province of the product shipping address. Use the *State, Province, and Territory Codes for the United States and Canada*. **Important** This field is supported only for Comercio Latino.	Optional	String (2)
ship_to_zip	Postal code of the product shipping address. **Important** This field is supported only for Comercio Latino.	Optional	String (10)

Reply Fields

The following table describes the fields returned in a reply from the **ics_boleto_payment** service request.

Table 5 Reply Fields for Boletos Bancários for the SCMP API

Reply Field	Description	Data Type & Length
additional_processor_ response	Processor transaction ID required for troubleshooting. **Important** This field is supported only for Comercio Latino.	String (36)

Table 5 Reply Fields for Boletos Bancários for the SCMP API (Continued)

Reply Field	Description	Data Type & Length
boleto_payment_amount	Total amount of the Boleto Bancário payment.	Decimal (15)
boleto_payment_boleto_ number	Boleto Bancário payment number.	String (50)
boleto_payment_assignor	Merchant's name stored by the processor. **Important** This field is supported only for Comercio Latino.	String (50)
boleto_payment_avs	AVS result code. Possible values: ■ 1: AVS not supported for this processor or card type. ■ 5: No result code was returned by this processor. **Important** This field is supported only for Comercio Latino.	String (1)
boleto_payment_bar_code_ number	Numeric representation of the boleto bar code. **Important** This field is supported only for Comercio Latino.	String (44)
boleto_payment_expiration_ date	***Comercio Latino*** Expiration date of the Boleto Bancário. Format: YYYY-MM-DD. ***CyberSource Latin American Processing*** Expiration date of the Boleto Bancário in GMT. The date is in the European format: DD-MM-YYYY. For this expiration date field, the date is mapped to an ISO format: YYYY-MM-DD hh:mm:ss. **Note** There is a space between the date and the time.	String (20)
boleto_payment_rcode	One-digit code that indicates whether the **ics_boleto_payment** request was successful: ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful For more information about handling replies, see *Getting Started with CyberSource Advanced for the SCMP API*.	Integer (1)
boleto_payment_request_ time	Time of the Boleto Bancário request in UTC. For more information about the format, see the data type information in *Getting Started with CyberSource Advanced for the SCMP API*.	Date and time (20)
boleto_payment_rflag	One-word description of the result of the **ics_boleto_payment** request. See "Reply Flags," page 34, and for more information, see *Getting Started with CyberSource Advanced for the SCMP API*.	String (50)
boleto_payment_rmsg	Message that explains the reply flag **boleto_payment_rflag**. Do not display this message to the customer and do not use this field to write an error handler. For more information, see *Getting Started with CyberSource Advanced for the SCMP API*.	String (255)

Table 5   Reply Fields for Boletos Bancários for the SCMP API (Continued)

Reply Field	Description	Data Type & Length
boleto_payment_trans_ref_no	Unique value generated by CyberSource. For more information, see *Getting Started with CyberSource Advanced for the SCMP API*.	Alphanumeric (16)
boleto_payment_url	URL of the Boleto Bancário form.	String (255)
currency	Currency used for the order. The only possible value is BRL.	String (5)
ics_rcode	One-digit code that indicates whether the entire request was successful: ■ -1: An error occurred ■ 0: The request was declined ■ 1: The request was successful For more information, see *Getting Started with CyberSource Advanced for the SCMP API*.	Integer (1)
ics_rflag	One-word description of the result of the entire request. See "Reply Flags," page 34, and for more information, see *Getting Started with CyberSource Advanced for the SCMP API*.	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. For more information, see *Getting Started with CyberSource Advanced for the SCMP API*.	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 contain corrupted characters. For more information about tracking orders, see *Getting Started with CyberSource Advanced for the SCMP API*.	String (50)
request_id	Unique identifier generated by CyberSource for the transaction. For more information about request IDs, see *Getting Started with CyberSource Advanced for the SCMP API*.	String (26)
request_token	Request token data created by CyberSource for each reply. The field is an encoded string that contains no confidential information such as an account number. The string can contain a maximum of 256 characters.	String (256)

Reply Flags

The following table describes the reply flags for the **ics_boleto_payment** service request.

Table 6   Reply Flags for Boletos Bancários for the SCMP API

Reply Flag	Description
DBOLETODECLINED	When CyberSource sent a Boleto Bancário request to your processor, it returned an error to CyberSource.

Table 6   Reply Flags for Boletos Bancários for the SCMP API (Continued)

Reply Flag	Description
DINVALIDDATA	Data provided is not consistent with the request.
DMISSINGFIELD	The request is missing a required field.
ESYSTEM	System error. You must design your transaction management system to correctly handle CyberSource system errors. Depending on the payment processor handling the transaction, the error may indicate a valid CyberSource system error or a processor rejection caused by invalid data. In either case, CyberSource recommends that you not design your system to endlessly resend a transaction. For important information on handling system errors and retries, see the SDK for your CyberSource client.
ETIMEOUT	The request timed out.
SOK	The transaction was successful.

Examples

Comercio Latino

Request

Example 9   Boleto Bancário Request

```
customer_firstname=THULIO
customer_lastname=RIBEIRO DOS SANTOS
ics_applications=ics_boleto_payment
merchant_id=midtest
currency=BRL
merchant_ref_number=W200057554-1
grand_total_amount=25.00
offer0=product_category:physical^amount:25.00^fulfillment_type:P^quantity:1^product_
code:default
request_id=4580713800000179089308
```

Reply

Example 10 Boleto Bancário Reply

```
additional_processor_response=ebbd7b05-c83d-408a-97ea-54fc19b0cdbf
boleto_payment_rcode=1
request_token=AhjnLwSR8KRq6lmgst85FJMeRw2Zs27Ra1ZsmnKzzLco4btMeRjhb4k/
boleto_payment_request_time=2016-03-15T125351Z
boleto_payment_trans_ref_no=cd863374-5324-466d-9e3f-c04874cd1a7b
currency=BRL
boleto_payment_bar_code_number=5cb4781dfb604746b724d55aa6cce6ac
boleto_payment_url=https://www.pagador.com.br/post/pagador/
reenvia.asp/9fe1e3db-bfd5-4c8a-95fa-4e7a538b0000
boleto_payment_expiration_date=2016-03-24 23:59:59
boleto_payment_avs=5
boleto_payment_amount=25.00
ics_rmsg=Request was processed successfully.
boleto_payment_assignor=a3cab0edf16b4be98cdb650ff29762ef
boleto_payment_boleto_number=d3947626abb4442eb436030c447d293e
ics_rflag=SOK
boleto_payment_rflag=SOK
boleto_payment_rmsg=Request was processed successfully.
merchant_ref_number=W200057554-1
ics_rcode=1
request_id=4580716300000179089308
```

CyberSource Latin American Processing

Request

Example 11 Boleto Bancário Request

```
purchaseTotals_currency=BRL
billTo_firstName=Ryan
boletoPaymentService_run=true
merchantReferenceCode=34923942838232
billTo_lastName=Tester
purchaseTotals_grandTotalAmount=25.00
```

Reply

Example 12   Boleto Bancário Reply

```
boleto_payment_rcode=1
request_token=AhjnLwSR8s84ZiGLBowZtGDhP5MrGIfPaGTiL3cMmkmVdHpH48AACTNG
boleto_payment_request_time=2016-03-15T194941Z
boleto_payment_trans_ref_no=10403408
currency=BRL
boleto_payment_url=https://www.pagador.com.br
boleto_payment_expiration_date=2016-03-20 23:59:59
boleto_payment_amount=25.00
ics_rmsg=Request was processed successfully.
boleto_payment_boleto_number=100000
ics_rflag=SOK
boleto_payment_rflag=SOK
boleto_payment_rmsg=Request was processed successfully.
merchant_ref_number=W200057554-1
ics_rcode=1
request_id=4580713800000179089308
```

Reports for Boletos Bancários

Note Boletos Bancários transactions are recorded only on XML-formatted reports. They are not recorded in CSV-formatted reports.

Boleto Bancário transaction reports are available through the Business Center or for download in XML format. See the *Reporting Developer Guide*, which is available on the Support Center, for more information. The following daily CyberSource reports include information about your Boleto Bancário transactions:

- *Transaction Detail Report*—provides summary information about your transactions. To view this report, you must subscribe to it on the Business Center.

- *Payment Batch Detail Report*—list your transactions before funds are transferred to or from your merchant bank account. To view this report, you must subscribe to it on the Business Center.

- *Payment Submission Detail Report*—lists your transactions that were sent to your processor during the previous processing day. The report includes transactions for all payment types that you process with CyberSource. To view this report, you must subscribe to it on the Business Center.

- *Payment Events Report*—lists payment events that occur after a transaction is sent to your processor and that occur within the reporting period for the report. All Boleto Bancário payment transactions previously submitted to the processor, and therefore previously reported in the Payment Submission Detail Report, are reported in the Payment Events Report as status updates received from y. To view this report, you must subscribe to it on the Business Center.

The following daily Boleto Bancário report (see) provides information about unfulfilled transactions and is only available if using CyberSource Latin American Processing:

- *Boleto Bancário Unfulfilled Report*—lists Boleto Bancário transactions that were initiated but that are not fulfilled yet. A transaction is included in the report starting the day after a Boleto Bancário is initiated until your processor confirms that the Boleto Bancário is fulfilled. If a Boleto Bancário is not fulfilled by the expiration date, the transaction is removed from the report. To view this report, you must subscribe to it on the Business Center.

Boleto Bancário Unfulfilled Report

> ⚠️
> **Important**
>
> This report is supported only for CyberSource Latin American Processing.

The Boleto Bancário Unfulfilled report provides information about Boleto Bancário transactions that have been issued but not fulfilled. The reasons for an unfulfilled Boleto Bancário are:

- The customer has not submitted the Boleto Bancário.
- The Boleto Bancário is still in the Brazilian clearing system.

A transaction stays in the Boleto Bancário Unfulfilled report until:

- Your processor confirms that the transaction is funded.
- The Boleto Bancário expires.

To view the Boleto Bancário Unfulfilled report, you must subscribe to it on the Business Center.

Viewing and Downloading Reports

There are two ways to view and download Boleto Bancário Unfulfilled reports:

- ***Through an API***

  See the first chapter in the *Reporting Developer Guide*, which is available at the Support Center, for information about requesting a report with a client application.

- ***On the CyberSource Business Center***

  For information about downloading the Boleto Bancário Unfulfilled report from the Business Center, see the Business Center help topic "Downloading Detail Reports."

To view and download reports:

Step 1   Navigate to the Boleto Bancário Unfulfilled report.

Step 2   Click **I need help with this page**.

A help topic for the Boleto Bancário Unfulfilled report opens.

Step 3   In the help topic, click **Downloading Reports**.

The "Downloading Detail Reports" topic opens. The Boleto Bancário Unfulfilled report is a detail report, and you can download it the same way that you download other reports.

For additional information, see the first chapter in the *Reporting Developer Guide*, which is available at the Support Center.

XML Conventions and Data Types

Syntax for Report Declarations

A report declaration has this syntax:

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE Report SYSTEM URIreference>
<Report Name=CDATA
        Version=NMTOKEN
        xmlns=CDATA
        MerchantID=CDATA
        ReportDate=CDATA>
```

The value of the **URIreference** tag is the same as the value of the **xmlns** tag. Whether you are operating in test or live mode, the namespace always refers to `ebctest` instead of `ebc`.

Syntax for Element Declarations

An element declaration has this syntax:

```
<Sample Attribute=CDATA>
    (Element)
    (ChoiceOne) | (ChoiceTwo)
    (ComplexElement)
    (RequiredRecurringElement)+
    (OptionalElement)?
    (OptionalRecurringElement)*
</Sample>
```

The DTDs for the reports can use syntax with the ?, +, or * character inside the parentheses.

Table 7   Conventions for Element Declarations

Convention	Description
<Sample>	Parent of the subsequent elements.
Attribute=CDATA	Name of the attribute followed by the XML data format for the attribute.
(Element)	Required element. Must appear only once.
(ChoiceOne) | (ChoiceTwo)	Element **<ChoiceOne>** or **<ChoiceTwo>** but not both.
(ComplexElement)	Element with one or more children.
(RequiredRecurringElement)+	Required element. Can appear one or more times.
(OptionalElement)?	Optional element. Can appear once or be omitted.
(OptionalRecurringElement)*	Optional element. Can appear zero or more times.

Data Types and Lengths

In each description, the data length indicates the maximum length for that data type.

Table 8   Data Types for XML Reports

Data Type	Description
Alphanumeric	String containing letters, numbers, and special characters such as @, #, and %. All text uses UTF-8 character encoding.
Boolean	Single character: T for true or F for false.
Amount	Can include a decimal point.
Date	YYYY-MM-DD where: ■ YYYY is the four-digit year ■ MM is the two-digit month ■ DD is the two-digit day The hyphens are included in a Date value.
DateTime	YYYY-MM-DDTHH:MM:SS[+ | -]HH:MM where: ■ YYYY is the four-digit year ■ MM is the two-digit month ■ DD is the two-digit day ■ T separates the date information from the time information ■ HH is the two-digit hours ■ MM is the two-digit minutes ■ SS is the two-digit seconds ■ [+ | -]HH:MM is the time zone's offset from GMT (Greenwich Mean Time) The hyphens are included in a DateTime value.
Numeric	String containing numbers.

Elements in the Report

\<Report\>

The **\<Report\>** element is the root of the report.

Syntax

```
<?xml version="1.0" encoding="utf-8" ?>
<Report Name=CDATA
        Version=CDATA
        xmlns=CDATA
        MerchantID=CDATA
        ReportDate=CDATA>
    (Summary)
    (TransactionDetail)?
</Report>
```

Attributes

Table 9   Attributes of \<Report\> in the Boleto Bancário Unfulfilled Report

Attribute Name	Description	Data Type & Length
Name	Name of the report. This value is always `Boleto Bancário Unfulfilled Report.`	Alphanumeric (100)
Version	Version number of the report.	Numeric (10)
xmlns	XML namespace for the report. This value is always `https://ebc.cybersource.com/ebc/reports/dtd/bbur.dtd.`	Alphanumeric (100)
MerchantID	CyberSource merchant ID.	Alphanumeric (30)
ReportDate	Date the report was generated.	DateTime (25)

Child Elements

Table 10   Child Elements of \<Report\> in the Boleto Bancário Unfulfilled Report

Element Name	Description
\<Summary\>	Summary of the transaction information for each range. See "\<Summary\>," page 44.
\<TransactionDetail\>	Information about all of the unfunded transactions that have occurred during the previous 3 to 180 days. See "\<TransactionDetail\>," page 47.

Example

Example 13   <Report> Element

```
<?xml version="1.0" encoding="utf-8" ?>
<Report Name="BoletoBancarioUnfulfilledReport"
        Version="1.0"
        xmlns=https://ebc.cybersource.com/ebc/reports/dtd/bbur.dtd
        MerchantID="exampleMerchant"
        ReportDate="2008-01-24T08:00:00-08:00">
  <Summary>
  ...
  </Summary>
  <TransactionDetail>
  ...
  </TransactionDetail>
</Report>
```

<Summary>

The **<Summary>** element contains a summary of the transaction information for each range:

- 3 days outstanding
- 4 days outstanding
- 5 to 7 days outstanding
- 8 to 14 days outstanding
- 15 to 30 days outstanding
- 31 to 60 days outstanding
- 61 to 90 days outstanding
- 91 to 180 days outstanding
- 3 to 180 days outstanding

Syntax

```
<Summary>
   (Range)*
</Summary>
```

Child Element

Table 11   Child Element of <Summary> in the Boleto Bancário Unfulfilled Report

Element Name	Description
<Range>	Summary of the transaction information for one range. See "<Range>," page 46.

Example

Example 14   <Summary> Element

```
<Summary>
  <Range DaysOutstandingStart="3" DaysOutstandingEnd="3" CurrencyCode="BRL">
    <Count>0</Count>
    <NetAmount>0.00</NetAmount>
  </Range>
  <Range DaysOutstandingStart="3" DaysOutstandingEnd="3" CurrencyCode="USD">
    <Count>0</Count>
    <NetAmount>0.00</NetAmount>
  </Range>
  <Range DaysOutstandingStart="4" DaysOutstandingEnd="4" CurrencyCode="BRL">
    <Count>0</Count>
    <NetAmount>0.00</NetAmount>
  </Range>
  <Range DaysOutstandingStart="4" DaysOutstandingEnd="4" CurrencyCode="USD">
    <Count>0</Count>
    <NetAmount>0.00</NetAmount>
  </Range>
```

Example 14   <Summary> Element (Continued)

```
<Range DaysOutstandingStart="5" DaysOutstandingEnd=" 7" CurrencyCode="BRL">
  <Count>2</Count>
  <NetAmount>121.38</NetAmount>
</Range>
<Range DaysOutstandingStart="5" DaysOutstandingEnd=" 7" CurrencyCode="USD">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
<Range DaysOutstandingStart="8" DaysOutstandingEnd="14" CurrencyCode="BRL">
  <Count>8</Count>
  <NetAmount>823.40</NetAmount>
</Range>
<Range DaysOutstandingStart="8" DaysOutstandingEnd="14" CurrencyCode="USD">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
<Range DaysOutstandingStart="15" DaysOutstandingEnd="30" CurrencyCode="BRL">
  <Count>21</Count>
  <NetAmount>2030.11</NetAmount>
</Range>
<Range DaysOutstandingStart="15" DaysOutstandingEnd="30" CurrencyCode="USD">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
<Range DaysOutstandingStart="31" DaysOutstandingEnd="60" CurrencyCode="BRL">
  <Count>7</Count>
  <NetAmount>777.17</NetAmount>
</Range>
<Range DaysOutstandingStart="31" DaysOutstandingEnd="60" CurrencyCode="USD">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
<Range DaysOutstandingStart="61" DaysOutstandingEnd="90" CurrencyCode="BRL">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
<Range DaysOutstandingStart="61" DaysOutstandingEnd="90" CurrencyCode="USD">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
<Range DaysOutstandingStart="91 DaysOutstandingEnd="180" CurrencyCode="BRL">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
<Range DaysOutstandingStart="91 DaysOutstandingEnd="180" CurrencyCode="USD">
  <Count>0</Count>
  <NetAmount>0.00</NetAmount>
</Range>
```

Example 14   <Summary> Element (Continued)

```
  <Range DaysOutstandingStart="3" DaysOutstandingEnd="180" CurrencyCode="BRL">
    <Count>38</Count>
    <NetAmount>3752.06</NetAmount>
  </Range>
  <Range DaysOutstandingStart="3" DaysOutstandingEnd="180" CurrencyCode="USD">
    <Count>0</Count>
    <NetAmount>0.00</NetAmount>
  </Range>
</Summary>
```

<Range>

The **<Range>** element contains a summary of the transaction information for one currency in one range.

Syntax

```
<Range DaysOutstandingStart=CDATA
       DaysOutstandingEnd=CDATA
       CurrencyCode=CDATA>
   (Count)
   (NetAmount)
</Range>
```

Table 12   Attributes of <Range> in the Boleto Bancário Unfulfilled Report

Attribute Name	Description	Data Type & Length
DaysOutstandingStart	Start of the range of the number of days outstanding. For example, for the range of 5 to 7 days outstanding, the start of the range is 5.	Alphanumeric (4)
DaysOutstandingEnd	End of the range of the number of days outstanding. For example, for the range of 5 to 7 days outstanding, the end of the range is 7.	Alphanumeric (4)
CurrencyCode	Currency code. Possible value: ■ BRL	Alphanumeric (5)

Child Elements

Table 13   Child Elements of <Range> in the Boleto Bancário Unfulfilled Report

Element Name	Description
Count	Number of transactions that await funding in the currency specified by **CurrencyCode** and in the range specified by **DaysOutstandingStart** and **DaysOutstandingEnd**.
NetAmount	Sum of transactions that await funding in the currency specified by **CurrencyCode** and in the range specified by **DaysOutstandingStart** and **DaysOutstandingEnd**.

Example

Example 15   <Range> Element

```
<Range DaysOutstandingStart="3" DaysOutstandingEnd="3" CurrencyCode="CNY">
  <Count>2</Count>
  <NetAmount>121.38</NetAmount>
</Range>
```

<TransactionDetail>

The **<TransactionDetail>** element contains information about all of the unfunded transactions that have occurred during the previous 3 to 180 days.

Syntax

```
<TransactionDetail>
  (Transaction)*
</TransactionDetail>
```

Child Elements

Table 14   Child Element of <TransactionDetail> in the Boleto Bancário Unfulfilled Report

Element Name	Description
<Transaction>	Information about an unfunded transaction. See "<Transaction>," page 48.

Example

Example 16   \<TransactionDetail\> Element

```
<TransactionDetail>
  <Transaction>
  ...
  </Transaction>
</TransactionDetail>
```

\<Transaction\>

The **\<Transaction\>** element contains information about an unfunded transaction.

Syntax

```
<Transaction Processor=CDATA
             DaysOutstanding=CDATA
             MerchantID=CDATA
             OriginalTransactionDate=CDATA
             RequestID=CDATA
             TransactionReferenceNumber=CDATA
             MerchantReferenceNumber=CDATA
             Amount=CDATA
             CurrencyCode=CDATA
             EventType=CDATA
             BoletoNumber=CDATA
</Transaction>
```

Table 15   Attributes of \<Transaction\> in the Boleto Bancário Unfulfilled Report

Attribute Name	Description	Data Type & Length
Processor	Payment processor used for the transaction. This value is always `brazilboleto: braspag`.	Alphanumeric (40)
DaysOutstanding	Number of days since the transaction was initiated.	Alphanumeric (4)
MerchantID	CyberSource merchant ID.	Alphanumeric (30)
OriginalTransactionDate	Date that the original payment transaction was initiated.	DateTime (25)
RequestID	Unique identifier generated by CyberSource for the transaction. For more information about request IDs, see *Getting Started with CyberSource Advanced for the Simple Order API* or *Getting Started with CyberSource Advanced for the SCMP API*.	Numeric (26)

Table 15 **Attributes of <Transaction> in the Boleto Bancário Unfulfilled Report (Continued)**

Attribute Name	Description	Data Type & Length
TransactionReference Number	CyberSource-generated reference or tracking number for the transaction. You can use this value to reconcile your CyberSource reports with your processor reports. This value corresponds to: ■ **<service>_reconciliationID** for the Simple Order API. ■ **<service>_trans_ref_no** for the SCMP API. For more information about tracking orders, see *Getting Started with CyberSource Advanced for the Simple Order API* or *Getting Started with CyberSource Advanced for the SCMP API*.	Alphanumeric (60)
MerchantReference Number	Merchant-generated reference or tracking number for the transaction. You can use this value to perform searches in the CyberSource Business Center. This value corresponds to: ■ **merchantReferenceCode** for the Simple Order API. ■ **merchant_ref_number** for the SCMP API. For more information about tracking orders, see *Getting Started with CyberSource Advanced for the Simple Order API* or *Getting Started with CyberSource Advanced for the SCMP API*.	Alphanumeric (50)
Amount	Amount of the transaction. For refunds, the amount is negative.	Amount (19)
CurrencyCode	Currency code used for the transaction. Possible value: ■ BRL	Alphanumeric (5)

**Table 15   Attributes of <Transaction> in the Boleto Bancário
Unfulfilled Report (Continued)**

Attribute Name	Description	Data Type & Length
EventType	Type of event that occurred for the transaction. Possible values: ■ Expired: The Boleto Bancário has expired and will not be accepted for payment by Brazilian financial institutions. ■ Fulfilled: The bank issuing the Boleto Bancário has received funds and deposited them into your account. ■ Pending Fulfillment: The Boleto Bancário was issued, but the customer has not submitted it yet, or it is still in the Brazilian clearing system.	Alphanumeric (20)
BoletoNumber	The number identifying the Boleto Bancário payment involved in the transaction.	Alphanumeric (15)

Example

Example 17   <Transaction> Element

```
<Transaction Processor="brazilboleto"
             DaysOutstanding="3"
             MerchantID="123456789"
             OriginalTransactionDate="2009-01-11T10:45:00-08:00"
             RequestID="912342343468"
             TransactionReferenceNumber="123456"
             MerchantReferenceNumber="2884554"
             Amount="75,00"
             CurrencyCode="BRL"
             EventType="Fulfilled"
             BoletoNumber="987654">
</Transaction>
```

DTD

```
<!ELEMENT Report (Summary, TransactionDetail)>
<!ATTLIST Report Name CDATA #REQUIRED
                 Version NMTOKEN #REQUIRED
                 xmlns CDATA #REQUIRED
                 MerchantID CDATA #REQUIRED
                 ReportDate CDATA #REQUIRED>
<!ELEMENT Summary (Range*)>
<!ELEMENT Range (Count, NetAmount)>
<!ATTLIST Range DaysOutStandingStart CDATA #REQUIRED
                DaysOutStandingEnd CDATA #REQUIRED
                CurrencyCode CDATA #REQUIRED>
<!ELEMENT Count (#PCDATA)>
<!ELEMENT NetAmount (#PCDATA)>
<!ELEMENT TransactionDetail (Transaction*)>
<!ELEMENT Transaction EMPTY>
<!ATTLIST Transaction Processor CDATA #REQUIRED
                      DaysOutstanding CDATA #REQUIRED
                      MerchantID CDATA #REQUIRED
                      OriginalTransactionDate CDATA #REQUIRED
                      RequestID CDATA #REQUIRED
                      TransactionReferenceNumber CDATA #REQUIRED
                      MerchantReferenceNumber CDATA #REQUIRED
                      Amount CDATA #REQUIRED
                      CurrencyCode CDATA #REQUIRED
                      EventType CDATA #REQUIRED
                      BoletoNumber CDATA #REQUIRED>
```

Example

This report example consists of the following unfulfilled transactions:

- One payment totalling 1.20 BRL, 3 days outstanding

- Five payments totalling 6.00 BRL, 5-7 days outstanding

- Six payments totalling 7.20 BRL, 3-180 days outstanding

These transactions are included in the following ranges in the **<Summary>** section:

- 3 days outstanding

- 5 to 7 days outstanding

- 3 to 14 days outstanding

Example 18   Unfulfilled Transactions

```
<?xml version="1.0" encoding="utf-8"?>

<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/reports/
dtd/bbur.dtd">
<Report Name="BoletoBancarioUnfulfilledReport"
   Version="1.0"
   xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/bbur.dtd"
   MerchantID="examplemerchant"
   ReportDate="2008-01-24T08:00:00-08:00">
   <Summary>
      <Range DaysOutstandingStart="3"
            DaysOutstandingEnd="3"
            CurrencyCode="BRL">
        <Count>1</Count>
        <NetAmount>1.20</NetAmount>
      </Range>
      <Range DaysOutstandingStart="4"
            DaysOutstandingEnd="4"
            CurrencyCode="BRL">
        <Count>0</Count>
        <NetAmount>0.00</NetAmount>
      </Range>
      <Range DaysOutstandingStart="5"
            DaysOutstandingEnd="7"
            CurrencyCode="BRL">
        <Count>5</Count>
        <NetAmount>6.00</NetAmount>
      </Range>
      <Range DaysOutstandingStart="8"
            DaysOutstandingEnd="14"
            CurrencyCode="BRL">
        <Count>6</Count>
        <NetAmount>7.20</NetAmount>
      </Range>
   </Summary>
```

```
<TransactionDetail>
  <Transaction Processor="brazilboleto"
      DaysOutstanding="3"
      MerchantID="examplemerchant"
      OriginalTransactionDate="2008-01-22T00:14:40-08:00"
      RequestID="2009608779023232235878"
      TransactionReferenceNumber="20080122_1684_608779023232235878"
      MerchantReferenceNumber="1234567890"
      Amount="1.20"
      CurrencyCode="BRL"
      EventType="Pending Fulfillment"
      BoletoNumber="321654851"/>
  <Transaction Processor="brazilboleto"
      DaysOutstanding="5"
      MerchantID="examplemerchant"
      OriginalTransactionDate="2008-01-20T02:38:24-08:00"
      RequestID="2007967037043232235878"
      TransactionReferenceNumber="20080120_1684_967037043232235878"
      MerchantReferenceNumber="1234567891"
      Amount="1.20"
      CurrencyCode="BRL"
      EventType="Pending Fulfillment"
      BoletoNumber="321564133"/>
  <Transaction Processor="brazilboleto"
      DaysOutstanding="5"
      MerchantID="examplemerchant"
      OriginalTransactionDate="2008-01-20T02:38:24-08:00"
      RequestID="2007967037043232235878"
      TransactionReferenceNumber="20080120_1684_967037043232235878"
      MerchantReferenceNumber="1234567892"
      Amount="1.20"
      CurrencyCode="BRL"
      EventType="Pending Fulfillment"
      BoletoNumber="854523221"/>
  <Transaction Processor="brazilboleto"
      DaysOutstanding="6"
      MerchantID="examplemerchant"
      OriginalTransactionDate="2008-01-20T02:38:24-08:00"
      RequestID="2007967037043232235878"
      TransactionReferenceNumber="20080120_1684_967037043232235878"
      MerchantReferenceNumber="1234567893"
      Amount="1.20"
      CurrencyCode="BRL"
      EventType="Pending Fulfillment"
      BoletoNumber="255587512"/>
  <Transaction Processor="brazilboleto"
      DaysOutstanding="7"
      MerchantID="examplemerchant"
      OriginalTransactionDate="2008-01-20T02:38:24-08:00"
      RequestID="2007967037043232235878"
      TransactionReferenceNumber="20080120_1684_967037043232235878"
      MerchantReferenceNumber="1234567894"
      Amount="1.20"
```

```
            CurrencyCode="BRL"
            EventType="Pending Fulfillment"
            BoletoNumber="265845654"/>
      <Transaction Processor="brazilboleto"
            DaysOutstanding="7"
            MerchantID="examplemerchant"
            OriginalTransactionDate="2008-01-20T02:38:24-08:00"
            RequestID="2007967037043232235878"
            TransactionReferenceNumber="20080120_1684_967037043232235878"
            MerchantReferenceNumber="1234567895"
            Amount="1.20"
            CurrencyCode="BRL"
            EventType="Pending Fulfillment"
            BoletoNumber="652325456"/>
   </TransactionDetail>
</Report>
```

Single Transaction Report

> ⚠️ **Important**
>
> This report is supported only for CyberSource Latin American Processing. If you are using Comercio Latino, contact CyberSource Customer Support to retrieve the status of a transaction.

Version 1.4 of the Single Transaction Report is supported for Boletos Bancários. It is described in the *Reporting Developer Guide*. The On-Demand Single Transaction Report provides you with the status of the transaction while the transaction is occurring.

Example 19   Query for a Single Transaction

```
<form action="https://ebc.cybersource.com/ebc/Query" method="POST">
  <table>
    <tr>
      <td>merchantID</td>
      <td><input type="text" name="merchantID" value="nwtest1"></td>
    </tr>
    <tr>
      <td>type</td>
      <td><input type="text" name="type" value="transaction"></td>
    </tr>
    <tr>
      <td>subtype</td>
      <td><input type="text" name="subtype" value="transactionDetail"></td>
    </tr>
    <tr>
      <td>requestID</td>
      <td><input type="text" name="requestID" value="1999370597170167905049"></td>
    </tr>
    <tr>
      <td>versionNumber</td>
      <td><input type="text" name="versionNumber" value="1.4"></td>
    </tr>
    <tr>
      <td></td>
      <td><input type="reset">
          <input type="submit" value="Submit"></input></td>
    </tr>
  </table>
</form>
```

Example 20   Single Transaction Report

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Report (View Source for full doctype...)>
<Report xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_4.dtd"
        Name="Transaction Detail"
        Version="1.4"
        MerchantID="nwtest1"
        ReportStartDate="2008-01-09T19:50:59-08:00"
        ReportEndDate="2008-01-09T19:50:59-08:00">
  <Requests>
    <Request MerchantReferenceNumber="1234567890"
             RequestDate="2008-09-10T14:00:08-08:00"
             RequestID="1999370597170167905049"
             SubscriptionID=""
             Source="SCMP API"
             TransactionReferenceNumber="0001094522"
             PredecessorRequestID="7904567221330010160804">
      <BillTo>
        <FirstName>Jane</FirstName>
        <LastName>Smith</LastName>
        <Address1>1295 Charleston Road</Address1>
        <Address2>Suite 2</Address2>
        <City>Mountain View</City>
        <State>CA</State>
        <Zip>94043</Zip>
        <Email />
        <Country>US</Country>
      </BillTo>
      <ShipTo>
        <LastName>Smith</LastName>
        <Address1>1295 Charleston Road</Address1>
        <Address2>Suite 2</Address2>
        <City>Mountain View</City>
        <State>CA</State>
        <Zip>94043</Zip>
        <Country>US</Country>
      </ShipTo>
      <PaymentMethod>
        <Card>
          <AccountSuffix />
          <ExpirationMonth />
          <ExpirationYear />
          <CardType>Brazil Bank Transfer</CardType>
          <BoletoNumber>12345</BoletoNumber>
        </Card>
      </PaymentMethod>
```

Example 20   Single Transaction Report (Continued)

```
      <LineItems>
        <LineItem Number="0">
          <FulfillmentType />
          <Quantity>1</Quantity>
          <UnitPrice>1.56</UnitPrice>
          <TaxAmount>0.25</TaxAmount>
          <MerchantProductSKU>testdl</MerchantProductSKU>
          <ProductName>PName1</ProductName>
          <ProductCode>electronic_software</ProductCode>
        </LineItem>
      </LineItems>
      <ApplicationReplies>
        <ApplicationReply Name="ics_boleto_payment">
          <RCode>1</RCode>
          <RFlag>SOK</RFlag>
          <RMsg>Request was processed successfully.</RMsg>
        </ApplicationReply>
      </ApplicationReplies>
      <PaymentData>
        <PaymentProcessor>payeasecn</PaymentProcessor>
        <Amount>1.81</Amount>
        <CurrencyCode>BRL</CurrencyCode>
        <TotalTaxAmount>0.25</TotalTaxAmount>
        <EventType>Fulfilled</EventType>
        <NumberOfInstallments>5</NumberOfInstallments>
      </PaymentData>
    </Request>
  </Requests>
</Report>
```