

Transaction Detail Report

Developer Guide

May 2012



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Recent Revisions to this Document

The following table lists changes made in the last six releases of this document:

Release Date	Changes
September 2011	■ Added DTD version 1.9.
January 2011	■ Added DTD version 1.8.
May 2010	■ Added DTD version 1.7.
August 2009	■ Added DTD versions 1.2 through 1.6. Versions 1.0 through 1.5 are located in DTDs and Examples of Previous XML Versions on page 79. Version 1.6 is located in page 84. ■ Added these elements to version 1.6 of the "XML Format," page 22: <BinAccountType>, <BinCountry>, <BinIssuer>, <BinScheme>, <GrandTotal>, <InfoCodes>, <IPCity>, <IPCountry>, <IPRoutingMethod>, <IPState>, and <TravelData>. ■ Added the list of Score Information Codes on page 109. These information codes can appear in the new <InfoCodes> element.
October 2007	■ Added a note about the difference between versions 1.0 and 1.1 of the DTD. For more information, see "DTD," page 84.
July 2007	■ Changed throughout the names of two third-party providers: Vital Processing Services is now <i>TSYS Acquiring Solutions</i>, and Paymentech is now <i>Chase Paymentech Solutions</i>. ■ Changed the length of the merchantProductSKU from 20 to 30 characters. See the XML version of the report.
April 2007	■ Added merchant-defined fields 5 through 20 to the XML version of the report. For more information, see "<MerchantDefinedData>," page 60.

Release Date	Changes
January 2007	■ Added the option to download a single transaction by using a POST query API. For more information, see "Requesting the Single Transaction Report With a Query API," page 13. ■ Updated the report with a DOCTYPE declaration that refers to the location of the DTD. For more information, see "Report Declaration Syntax," page 18.
November 2006	■ Updated the DTD.

Introduction

The Transaction Detail Report contains the complete information about your transactions:

- Summary information about your payment transactions: credit card, electronic check, Bill Me Later, China processing, and bank transfers.
- ACH Verification results
- Detailed information about Decision Manager and the score or Advanced Fraud Screen service.

The report is available in XML and CSV formats. You can receive the report in only one format. To see specific information, such as the offers in a transaction, Decision Manager, and Payer Authentication, you must use the XML format. You can obtain this report by using one of these methods:

- Daily in the Business Center
- Downloaded daily by using a client application
- On demand as the Single Transaction report by using a query API

To view information for an entire week, month, or year, you must combine the daily reports.

This chapter describes the available reporting permissions and the methods for requesting the Single Transaction report automatically. The rest of the guide describes the XML and CSV syntax.

User Permissions

Administrators can subscribe to, configure, view, and download reports for all their merchant IDs. You must set the permissions for all users in the User Administration and Role Administration sections of the Business Center As shown below.

User Administration

[I need help with this page.](#)

Users currently authorized to access your account are listed below. To add a new user, click **Add User**. To modify or delete a user, click a user name in the table.

User Name	Role	Name	Email Address
ubcwp1_3	admin	James	
ubcp3user1	reportdownload	ubc p3user1	
ubcp3user2	custom	ubcp3 user2	
ubcp3user4	custom	ubcp3 user4	
ubcp3user5	custom	ubcp3 user5	
ubcp3user6	custom	ubcp3 user6	
akuma	custom	ashok	
hmoham	custom	Haneef	
vdddza	custom	Vin	

Role Management

[I need help with this page.](#)

Roles associated with your organization are listed below. To add a new role, click **Add New Role**. To modify or delete an existing role, click a role name in the table.

Role	Description
Administrator	This role has all permissions.
Report Download	This role has only the report download permission.
xxxxxxxxxx	
xxxxxxxxxx	
xxxxxxxxxx	
xxxxxxxxxx	
xxxxxxxxxx	

The table below describes the reports permissions.

Table 1 Report Permissions

Permission	Description
Report Settings View	Can see the report settings and subscriptions.
Report Settings Management	Can modify report settings and subscriptions.
Report View	Can search for and view reports in the Business Center.
Report Download	Can request on-demand reports but cannot log into the Business Center . You cannot use an administrator account to download reports.

Requesting the Report With a Client Application

The client uses a GET method and does not use search parameters. You can obtain the complete daily report in XML or CSV format as follows:

- XML: Because you cannot specify a DTD version, the most current version of the report is used.
- CSV: The basic version of the report is used.

Client Application Requirements

To connect to the report server, your client application must support HTTPS connections. An HTTPS connection is similar to an HTTP connection, but it is encrypted by using Secure Sockets Layer (SSL). Your client application must support HTTP/1.0 or HTTP/1.1 and SSL v2 or SSL v3 connections.

HTTPS libraries are available for many programming languages, including Java, C/C++, Perl, and Visual Basic. You can implement a client in any language that allows you to use HTTPS to communicate with the report server.

Your client application must use Basic Access Authentication to send the user name and password. Many HTTPS client libraries implement this authentication method. For information about Basic Access Authentication, see <http://www.ietf.org/rfc/rfc2617.txt>.



Important

Although you may be able to use a third-party client application to download CyberSource reports, CyberSource does not recommend or support third-party client applications or client libraries that may interfere with CyberSource applications.

Format Requirements

This section describes the appropriate format for a request and a reply.

Request

To request a report, your client application must send an HTTP GET message to the report server. The URL that you specify in your message indicates which report you want to download. Format the URL as follows:

```
https://<server_name>/DownloadReport/YYYY/MM/DD/<merchant_ID>/
<report_name>.<report_format>
```

For example, if your merchant ID were `sample`, you would use the following URL to download the XML version of the August 1, 2009 report from the production system:

`https://ebc.cybersource.com/ebc/DownloadReport/2009/08/01/sample/TransactionDetailReport.xml`

The table below describes each value in the URL.

Value	Description
<code><server_name></code>	Name of the server from which to download the report. Use one of these values: ■ Test server: <code>ebctest.cybersource.com/ebctest</code> ■ Production server: <code>ebc.cybersource.com/ebc</code> ■ Test reports server: <code>downloadreportstest.cybersource.com</code> ■ Production reports server: <code>downloadreports.cybersource.com</code>
<code>YYYY</code>	Four-digit year
<code>MM</code>	Two-digit month. For example, use <code>08</code> for August.
<code>DD</code>	Two-digit day. For example, use <code>01</code> for the first day of the month.
<code><merchant_id></code>	CyberSource merchant ID
<code><report_name></code>	Name of the report to download: <code>TransactionDetailReport</code>
<code><report_format></code>	Report format to download. Use one of these values: ■ <code>csv</code>: Comma-separated values ■ <code>xml</code>: Extensible Markup Language

You can add Basic Access Authentication parameters to the URL as follows:

`https://<username>:<password>@<server_name>/DownloadReport/YYYY/MM/DD/<merchant_ID>/<report_name>.<report_format>`

Reply

If the request is successful, the server responds by sending an HTTPS reply message. The body of this message contains the report that you requested.

If the request fails, the server sends an HTTP reply message that describes the error. Use this information to determine why the request failed and to debug your client application.

Requesting the Single Transaction Report With a Query API

If you want to see the complete information that applies to an order, you can use a query API to request the information relevant to a request ID. The query uses a POST method with search parameters to obtain the details of a single transaction. The request can be automated by a computer or viewed by a human. As with the client application, this application uses Basic Access Authentication to send the user name and password. This report is available in XML format only.

Formulating the Query

You can request this report as many times as you wish during the day. The following table describes the request information

Parameter	Value	Required /Optional
merchantID	Your CyberSource ID	Required
type	transaction	Required
subtype	transactionDetail	Required
requestID	Number of the transaction that you want to see	Required
versionNumber	Version number that contains the information that you want. Each higher version contains all the elements and attributes of the lower version in addition to the elements and attributes introduced in the new version. If your report does not contain the data specific to the version, the elements and attributes specific to that version do not appear in your report. Note Although you can specify any of the versions, versions 1.4 and 1.5 are specific to the on-demand Single Transaction Report With a Query API whereas all other versions are specific to the daily report. If you do not specify a version, version 1.1 is used. 1.8 CookiesEnabled, FlashEnabled, ImagesEnabled, JavascriptEnabled, ProxyIPAddress, ProxyIPAddressActivities, ProxyIPAddressAttributes, ProxyServerType, TrueIPAddress, TrueIPAddressActivities, TrueIPAddressAttributes 1.7 BalanceAmount, BalanceCurrencyCode, RequestedAmount, RequestedAmountCurrencyCode	Optional

Parameter	Value	Required /Optional
	1.6 BinAccountType, BinCountry, BinIssuer, BinScheme, GrandTotal, InfoCodes, IPCity, IPCountry, IPRoutingMethod, IPState, TravelData	
	1.5 ACHVerificationResult, ACHVerificationResultMapped	
	1.3 PredecessorRequestID, User	
	1.2 EventType, TransactionReferenceNumber	
	1.1 Comments, CustomerID, MerchantDefinedData	
	1.0 Default version	

Send the information in the above table to one of these URLs

:

Production	https://ebc.cybersource.com/ebc/Query
Test	https://ebctest.cybersource.com/ebctest/Query

XML format

To use the XML format, write a program that can send the required fields in a POST request.

HTML format

To use the HTML format, write an HTML form that uses one of the above URLs. The sample below shows the `form` tag with the `action` attribute to send a query request to the production URL. The form includes the required fields and a Submit button.

```

<form action="https://ebc.cybersource.com/ebc/Query" method="POST">
  <table>
    <tr>
      <td>merchantID</td>
      <td><input type="text" name="merchantID" value="example"></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="1613577572210174065732"></td>
    </tr>
    <tr>
      <td>versionNumber</td>
      <td><input type="text" name="versionNumber" value="1.5"></td>
    </tr>
    <tr>
      <td></td>
      <td><input type="reset"> <input type="submit" value="Submit"></input></
td>
    </tr>
  </table>
</form>

```


Viewing and Saving the Report

You receive a response immediately.

XML format

If the query is successful, the results appear as a document of mime type `application/xml`. To use this report, you need to write a program to save or process the XML data of the report.

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

<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/
reports/dtd/tdr_1_5.dtd">

<Report xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_
1_5.dtd"

    Name="Transaction Detail"

    Version="1.5"

    MerchantID="example"

    ReportStartDate="2009-08-20T04:22:37-11:00"

    ReportEndDate="2009-08-20T04:22:37-11:00">

    <Requests>

        <Request>

            Complete details of a single transaction here

        </Request>

    </Requests>

</Report>
```

HTML format

The XML file that you receive is converted to HTML and formatted into a table that you can see in any browser that supports XSLT, such as Microsoft Internet Explorer 6.0 or Mozilla Firefox 3. Save the report as follows:

Step 1 Right-click the report.

Step 2 Select **View Source**.

If you do not save the source, only the URL for the request will be saved. The report appears in Notepad or in your default text editor.

Step 3 Save the text file as an XML file.

The table representation is restored when you view the report again in the browser.

Interpreting Result Messages

All requests return the status code 200. If your query contains an error, the body mime type is text/plain, and the body of the message contains one of these lines:

Error	Message
400	Please check the user name and password Missing input parameter: type Missing input parameter: merchantID Invalid input parameter: type or subtype
401	Requires authentication
403	You are not authorized to access it
500	Invalid Missing input data Unable to find the request System error. Please try again later
501	GET is not supported by this URL

Report Formats

Although the report is available in XML and in CSV format, you can receive the report in only one format.

XML Conventions

To understand how a report in XML format is constructed, you need to be familiar with the syntax and the data types used for XML reports.

Report Declaration Syntax

The report is described as follows:

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

```

<!DOCTYPE Report SYSTEM URIreference>

<Report Name= CDATA

    Version=NMTOKEN

    xmlns=CDATA

    MerchantID=CDATA

    ReportStartDate=CDATA

    ReportEndDate=CDATA>

```

**Note**

The value of URIreference is the same as that for xmlns. In addition, whether you are operating in test or live mode, the namespace always refers to ebctest instead of ebc.

Element Declaration Syntax

Elements are described as follows:

```

<Sample Attribute=CDATA>

    (Element)

    (ChoiceOne) | (ChoiceTwo)

    (ComplexElement)

    (RequiredRecurringElement)+

    (OptionalElement)?

    (OptionalRecurringElement)*

</Sample>

```

**Note**

In the DTDs, the ?, +, and * characters may be inside or outside the parentheses. Either syntax is acceptable.

Table 2 Element Declaration

Convention	Description
<Sample>	Parent of the following 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)	Either the element <ChoiceOne> or the element <ChoiceTwo>, but not both.
(ComplexElement)	Element with one or more child elements.
(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.

CSV Conventions

The report is described as follows:

- The first and second records in the report describe the report format and indicate the dates included in the report.
- If the value of a field contains a comma, the contents of the field are surrounded by double quotes ("). For example, the value A, B, C is represented by "A, B, C".
- If the value of a field contains a double quote ("), the contents of the field are surrounded by double quotes, and the double quote is represented as two double quotes. For example, the value Sample "value" is represented by "Sample ""value"""
- Records are separated with a carriage return followed by a line feed.

Data Types and Lengths

These terms are used to refer to the data type of each field:

- Amount: Amount, including a decimal point if necessary.
- Boolean: Single character; T for true or F for false.
- Date and time:

- Date: *YYYY-MM-DD*, with *YYYY* (four-digit year), *MM* (two-digit month), and *DD* (two-digit day).
- Time: *<date>THH:MM:SS[+ | -]HH:MM* where:

THH:MM:SS is the time, with *HH* (hours), *MM* (minutes), and *SS* (seconds).

[+ | -]HH:MM is the time zone's offset from Greenwich Mean Time (UTC or GMT), with *HH* representing hours and *MM* representing minutes. The number is prefixed by either a plus (+) or minus (-) to indicate whether the offset adds to or subtracts from UTC. For example, the offset for Pacific Daylight Time is *-07:00*.

Example 2009-04-13T07:00:00-07:00 represents April 4, 2009 at 7 AM PDT.

- Numeric: String containing numbers.
- String: Letters, numbers, and special characters (for example, @, #, and %). All text uses UTF-8 character encoding.

The data lengths indicate the maximum length of each field. Fields shorter than the maximum length are not padded.

XML Format

This chapter describes the Transaction Detail Report in XML format:

This report comes in several versions. Each version, which is based on the previous version, introduces new elements:

Table 3 XML Versions

Version	Usage	New Elements and Attributes
1.9	On demand	EVEmail, EVEmailRaw, EVName, EVNameRaw, EVPhoneNumber, EVPhoneNumberRaw, EVStreet, EVStreetRaw, EVPostalCode, EVPostalCodeRaw
1.8	On demand	CookiesEnabled, FlashEnabled, ImagesEnabled, JavascriptEnabled, ProxyIPAddress, ProxyIPAddressActivities, ProxyIPAddressAttributes, ProxyServerType, TrueIPAddress, TrueIPAddressActivities, TrueIPAddressAttributes
1.7	On demand	BalanceAmount, BalanceCurrencyCode, RequestedAmount, RequestedAmountCurrencyCode
1.6	Daily	BinAccountType, BinCountry, BinIssuer, BinScheme, GrandTotal, InfoCodes, IPCity, IPCountry, IPRoutingMethod, IPState, TravelData
1.5	On demand	ACHVerificationResult, ACHVerificationResultMapped
1.3	Daily	PredecessorRequestID, User
1.2	Daily	EventType, TransactionReferenceNumber
1.1	Daily	Comments, CustomerID, MerchantDefinedData
1.0	Daily	Default version

Report Description

All the elements and attributes of the report are described below.

<Report>

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

Syntax

```
<Report MerchantID=CDATA
    Name=CDATA
    ReportStartDate=CDATA
    ReportEndDate=CDATA
    Version=CDATA
    xmlns=CDATA>
```

(Requests)

```
</Report>
```

Table 4 Attributes of <Report>

Attribute Name	Description	Data Type and Length
MerchantID	CyberSource merchant ID used for the transaction.	String (30)
Name	Name of the report, which is always Transaction Detail.	String (100)
ReportStartDate	First date included in the report.	DateTime (25)
ReportEndDate	Last date included in the report.	DateTime (25)
Version	Version number of the report from 1.0 to 1.6.	Numeric (10)

Table 4 Attributes of <Report> (Continued)

Attribute Name	Description	Data Type and Length
xmlns	XML namespace for the report, which is specific to the version: ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_9.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_8.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_7.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_6.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_5.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_3.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_2.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_1.dtd ■ https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_0.dtd	String (100)

Table 5 Child Elements of <Report>

Element Name	Description
<Requests>	Contains all the requests in the report. For a list of child elements, see <Requests> .

Example <Report> Element

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

<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/reports/dtd/
tdr_1_1.dtd">

<Report MerchantID="CyberSource"

    Name="Transaction Detail"

    ReportStartDate="2001-08-16T08:00:00-08:00"

    ReportEndDate="2001-08-17T08:00:00-08:00"

    Version="1.1"

    xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_
1.dtd">

    <Requests>...</Requests>

</Report>
```

<Requests>

The <Requests> element contains all the requests in the report.

Syntax

```
<Requests>

    (Request)*

</Requests>
```

Table 6 Child Elements of <Requests>

Element Name	Description
<Request>	Information about a single request. For a list of child elements and attributes, see <Request>.

Example <Requests> Element

```

<Requests>

  <Request MerchantReferenceNumber="3C515C71D48F631"

    RequestDate="2009-08-16T09:42:03-08:00"

    RequestID="0004223530000167905139">

    ...

  </Request>
</Requests>

```

<Request>

The <Request> element contains information about a single request. A request can include multiple CyberSource applications. The TransactionReferenceNumber attribute is available only in versions 1.2 and greater. The User and PredecessorRequestID attributes are available only in versions 1.3 and greater. The <TravelData> element is available only in versions 1.6 and greater.

Syntax

```

<Request MerchantReferenceNumber=CDATA

  RequestDate=CDATA

  RequestID=CDATA

  SubscriptionID=CDATA

  Source=CDATA

  User=CDATA
  Comments=CDATA
  TransactionReferenceNumber=CDATA
  PredecessorRequestID=CDATA>

```

(BillTo)

(ShipTo)?

(Shipping)?

(PaymentMethod)

(LineItems)?

(ApplicationReplies)

(PaymentData)?

```

    (MerchantDefinedData)?
    (RiskData)?
    (ProfileList)?
    (TravelData)?>
</Request>

```

Table 7 Attributes of <Request>

Attribute Name	Description	Data Type and Length
MerchantReferenceNumber	Merchant-generated order reference or tracking number.	String (50)
RequestDate	Date on which the transaction was processed.	DateTime (25)
RequestID	Unique identifier generated by CyberSource for the transaction.	Numeric (26)
SubscriptionID	Unique identifier that is returned to you when a subscription is created.	String (26)
Source	Client application used to send the transaction. This field can contain one of these values: ■ HOP ■ PIN-less Debit Validation ■ SCMP API ■ SOP ■ Subscription Add ■ UBC ■ UBC List Manager ■ UBC One Time Payment	String (50)
	■ UBC Subscription ■ UBC Subscription Edit ■ UBC Virtual Terminal	
User	User name in the Business Center of the person who performed the transaction. This attribute is included only in versions 1.3 and greater.	String (36)
Comments	If present, brief description of the order or comment that was added to the order.	String (255)

Table 7 Attributes of <Request> (Continued)

Attribute Name	Description	Data Type and Length
TransactionReference Number	CyberSource-generated reference or tracking number for the transaction. You can use this element to reconcile your CyberSource reports with your processor reports. This attribute is included only in versions 1.2 and greater.	String (60)
PredecessorRequestID	Unique identifier generated by CyberSource for the transaction against which the current request was applied. This attribute is included only in versions 1.3 and greater.	Numeric (26)

Table 8 Child Elements of <Request>

Element Name	Description
<BillTo>	Information about the billing address and purchaser for the order. For a list of child elements, see <BillTo> .
<ShipTo>	Information about the shipping address and recipient for the order. For a list of child elements, see <ShipTo> .
<Shipping>	Information about the shipping method and shipping carrier for the order. For a list of child elements, see <Shipping> .
<PaymentMethod>	Information about the payment method for the order. For a list of child elements, see <PaymentMethod> .
<LineItems>	Line items for the order. For a list of child elements, see <LineItems> .
<ApplicationReplies>	Reply information for all applications in the request. For a list of child elements, see <ApplicationReplies> .
<PaymentData>	Detailed information about the result of a payment transaction. For a list of child elements, see <PaymentData> .
<MerchantDefinedData>	Optional information that you added to the order. For a list of child elements, see <MerchantDefinedData> .
<RiskData>	Detailed information about the result of a risk transaction. For a list of child elements, see <RiskData> .
<ProfileList>	Information about the profile used for the order. For a list of child elements, see <ProfileList> .
<TravelData>	Detailed information about the travel data in the order. For a list of child elements, see <TravelData> .

Example <Request> Element

```

<Request MerchantReferenceNumber="3C515C71D48F631"
  RequestDate="2009-08-16T09:42:03-08:00"
  RequestID="0004223530000167905139"
  SubscriptionID=""
  Source=SCMP API
  User=""
  Comments=""
  TransactionReferenceNumber=""
  PredecessorRequestID="">
  <BillTo>...</BillTo>
  <ShipTo>...</ShipTo>
  <Shipping>...</Shipping>
  <PaymentMethod>...</PaymentMethod>
  <LineItems>...</LineItems>
  <ApplicationReplies>...</ApplicationReplies>
  <PaymentData>...</PaymentData>
  <MerchantDefinedData>...</MerchantDefinedData>
  <RiskData>...</RiskData>
  <ProfileList>...</ProfileList>
  <TravelData>...</TravelData>
</Request>

```

<BillTo>

The <BillTo> element contains information about the billing address and purchaser for the order.

Syntax

```
<BillTo>
```

```
  (FirstName)
```

```

      (LastName)
      (MiddleName)?
      (NameSuffix)?
      (Address1)?
      (Address2)?
      (City)
      (State)?
      (Zip)?
      (CompanyName)?
      (Email)
      (Country)
      (Title)?
      (Phone)
      (IPAddress)?
      (HostName)?
      (UserName)?
      (CustomerID)?
    </BillTo>

```

Table 9 Child Elements of <BillTo>

Element Name	Description	Data Type and Length
<FirstName>	First name of the billed customer.	String (60)
<LastName>	Last name of the billed customer.	String (60)
<MiddleName>	Middle name of the billed customer.	String (60)
<NameSuffix>	Suffix of the billed customer's name.	String (60)
<Address1>	First line of the billing address.	String (60)
<Address2>	Second line of the billing address.	String (60)
<City>	City of the billing address.	String (50)
<State>	State, province, or territory of the billing address.	String (20)
<Zip>	Postal code of the billing address.	String (10)

Table 9 Child Elements of <BillTo> (Continued)

Element Name	Description	Data Type and Length
<CompanyName>	Company name of the billing address.	String (60)
<Email>	Email address of the bill-to customer.	String (255)
<Country>	ISO country code of the billing address.	String (2)
<Title>	Title of the billed customer.	String (30)
<Phone>	Phone number of the billed customer.	String (15)
<IPAddress>	IP address of the billed customer.	String (15)
<HostName>	DNS-resolved host name from the customer's IP address.	String (255)
<UserName>	Reserved for future use.	String (50)
<CustomerID>	Optional customer's account ID, tracking number, reward number, or other unique number.	String (50)

Example <BillTo> Element

```

<BillTo>

  <FirstName>John</FirstName>

  <LastName>Doe</LastName>

  <Address1>1295 Charleston Rd.</Address1>

  <City>Mountain View</City>

  <State>CA</State>

  <Zip>94043</Zip>

  <Email>sample@example.com</Email>

  <Country>US</Country>

  <Phone>9995551212</Phone>

  <IPAddress>xxx.xxx.xxx.xxx</IPAddress>

  <CustomerID>jdoe99999</CustomerID>

</BillTo>

```

<ShipTo>

The <ShipTo> element contains information about the shipping address and recipient for the order.

Syntax

```

<ShipTo>

  (FirstName)?

  (LastName)?

  (Address1)?

  (Address2)?

  (City)?

  (State)?

  (Zip)?

  (CompanyName)?

  (Country)?

  (Phone)?

</ShipTo>

```

Table 10 Child Elements of <ShipTo>

Element Name	Description	Data Type and Length
<FirstName>	First name of the customer to whom the order is shipped.	String (60)
<LastName>	Last name of the customer to whom the order is shipped.	String (60)
<Address1>	First line of the shipping address.	String (60)
<Address2>	Second line of the shipping address.	String (60)
<City>	City of the shipping address.	String (60)
<State>	State, province, or territory of the shipping address.	String (50)
<Zip>	Postal code of the shipping address.	String (10)
<CompanyName>	Company name of the shipping address.	String (60)
<Country>	ISO country code of the shipping address.	String (2)
<Phone>	Phone number of the customer to whom the order is shipped.	String (15)

Example <ShipTo> Element

```

<ShipTo>
  <Address1>12 Main Street</Address1>
  <City>Mountain View</City>
  <State>CA</State>
  <Zip>94043</Zip>
  <Country>US</Country>
</ShipTo>

```

<Shipping>

The <Shipping> element contains information about the shipping method and shipping carrier for the order.

Syntax

```

<Shipping>
  (Method)
  (Carrier)
</Shipping>

```

Table 11 Child Elements of <Shipping>

Element Name	Description	Data Type and Length
<Method>	Reserved for future use.	String (10)
<Carrier>	Reserved for future use.	String (12)

Example <Shipping> Element

```

<Shipping>
  <Method />
  <Carrier />
</Shipping>

```

<PaymentMethod>

The <PaymentMethod> element contains information about the payment for the order.

If a credit card was used for the order, or if no payment method was specified, the <PaymentMethod> element contains a <Card> element. If an electronic check was used for the order, the <PaymentMethod> element contains a <Check> element.

Syntax

```
<PaymentMethod>
```

```
    (Card) | (Check)
```

```
</PaymentMethod>
```

Table 12 Child Elements of <PaymentMethod>

Element Name	Description
<Card>	Information used to process a credit card. For a list of child elements, see " <Card> ".
<Check>	Information used to process an electronic check. For a list of child elements, see " <Check> ".

Example <PaymentMethod> Element

```
<PaymentMethod>
  <Card>
    ...
  </Card>
</PaymentMethod>
```

<Card>

The <Card> element contains information used to process a credit card, China payment, or . For requests that do not include payment information, all child elements of <Card> will be empty.

Syntax

```
<Card>
```

```

(AccountSuffix)
(ExpirationMonth)
(ExpirationYear)
(StartMonth)?
(StartYear)?
(IssueNumber)?
(CardType)?
</Card>

```

Table 13 Child Elements of <Card>

Element Name	Description	Data Type and Length
<AccountSuffix>	Last four digits of the customer's credit card number.	String (4)
<ExpirationMonth>	Expiration month (<i>MM</i>) of the credit card.	String (2)
<ExpirationYear>	Expiration year (<i>YYYY</i>) of the credit card.	String (4)
<StartMonth>	Start month (<i>MM</i>) of Maestro (UK Domestic) cards.	String (2)
<StartYear>	Start year (<i>YYYY</i>) of Maestro (UK Domestic) cards.	String (4)
<IssueNumber>	Issue number of the Maestro (UK Domestic) cards.	String (5)

Table 13 Child Elements of <Card> (Continued)

Element Name	Description	Data Type and Length
<CardType>	Type of card or bank account. This field can contain one of these values: ■ American Express ■ Bank Transfer ■ Carta Si ■ Carte Blanche ■ Carte Bleue ■ Checking ■ Corporate Checking ■ Dankort ■ Delta ■ Diners Club ■ Direct Debit ■ Discover ■ EnRoute ■ GE Money ■ JAL ■ JCB ■ Laser ■ Maestro ■ MasterCard ■ MBNA-LOAN ■ Paymentech Bill Me Later ■ PayPal ■ Savings ■ Solo ■ Maestro (UK Domestic) ■ UATP ■ UNKNOWN card ■ Visa ■ Visa Electron	String (50)

Example <Card> Element

```

<Card>
  <AccountSuffix>1111</AccountSuffix>
  <ExpirationMonth>12</ExpirationMonth>
  <ExpirationYear>2015</ExpirationYear>
  <CardType>Visa</CardType>
</Card>

```

<Check>

The <Check> element contains information used to process an electronic check.

Syntax

```
<Check>

    (AccountSuffix)

    (CheckNumber)

</Check>
```

Table 14 Child Elements of <Check>

Element Name	Description	Data Type and Length
<AccountSuffix>	Last four digits of the customer's bank account number.	String (4)
<CheckNumber>	Reserved for future use.	String (10)

Example <Check> Element

```
<Check>

    <AccountSuffix>1111</AccountSuffix>

</Check>
```

<LineItems>

The <LineItems> element contains all the line items for the order.



Note

In the SCMP API, line items are referred to as offers.

Syntax

```
<LineItems>

    (LineItem)*

</LineItems>
```

Table 15 Child Elements of <LineItems>

Element Name	Description
<LineItem>	Information about a single line item in an order. For a list of child elements and attributes, see <LineItem> .

Example <LineItems> Element. This example includes two separate line items.

```
<LineItems>
  <LineItem Number="0">...</LineItem>
  <LineItem Number="1">...</LineItem>
</LineItems>
```

<LineItem>

The <LineItem> element contains information about a single line item in an order. In the SCMP API, line items are referred to as offers.

Syntax

```
<LineItem Number=CDATA>
  (FulfillmentType)
  (Quantity)?
  (UnitPrice)
  (TaxAmount)?
  (MerchantProductSKU)?
  (ProductName)?
  (ProductCode)?
</LineItem>
```

Table 16 Attributes of <LineItem>

Attribute Name	Description	Data Type and Length
Number	Number of the line item, starting with 0.	Numeric (10)

Table 17 Child Elements of <LineItem>

Element Name	Description	Data Type and Length
<FulfillmentType>	Information about the product code used for the line item. This element can contain one of these values: ■ E: The product code is <code>electronic_</code> software. ■ P: The product code is not <code>electronic_</code> software.	String (2)
<Quantity>	Quantity of the product being purchased.	Numeric (10)
<UnitPrice>	Per-item price of the product.	Amount (19)
<TaxAmount>	Tax amount associated with this item.	Amount (19)
<MerchantProductSKU>	Product identifier code.	String (30)
<ProductName>	Name of the product.	String (20)
<ProductCode>	Type of product that the offer contains. For detailed information about this field, see the Credit Card Services Implementation Guide . For a list of product codes used by the tax service, see the Product Code User Guide .	String (30)

Example <LineItem> Element

```
<LineItem Number="0">
  <FulfillmentType>P</FulfillmentType>
  <Quantity>1</Quantity>
  <UnitPrice>20.00</UnitPrice>
</LineItem>
```

<ApplicationReplies>

The <ApplicationReplies> element contains reply information for all applications in the request.

Syntax

```
<ApplicationReplies>
```

```
(ApplicationReply)+
```

```
</ApplicationReplies>
```

Table 18 Child Elements of <ApplicationReplies>

Element Name	Description
<ApplicationReply>	Reply information for a single CyberSource application. For a list of child elements and attributes, see <ApplicationReply> .

Example <ApplicationReplies> Element. This example shows replies for a request that contained the card authorization and score applications.

```
<ApplicationReplies>
  <ApplicationReply Name="ics_auth">...</ApplicationReply>
  <ApplicationReply Name="ics_score">...</ApplicationReply>
</ApplicationReplies>
```

<ApplicationReply>

The <ApplicationReply> element contains reply information for a single CyberSource application. The report includes an <ApplicationReply> element for each application in your request.

If one application in a request is declined, it can prevent other applications in the request from being run. You receive an <ApplicationReply> element for each application that does not run; however, its child elements are empty.

Syntax

```
<ApplicationReply Name=CDATA>
```

```
  (RCode)
```

```
  (RFlag)
```

```
  (RMsg)
```

```
</ApplicationReply>
```


Table 19 Attributes of <ApplicationReply>

Attribute Name	Description	Data Type and Length
Name	Name of the CyberSource application whose reply is described in this element.	String (30)

Table 20 Child Elements of <ApplicationReply>

Element Name	Description	Data Type and Length
<RCode>	One-digit code that indicates whether the application was successful.	Numeric (1)
<RFlag>	One-word description of the result of the application.	String (50)
<RMsg>	Message that explains the reply flag for the application.	String (255)

Example <ApplicationReply> Element of a successful reply

```
<ApplicationReply Name="ics_score">
  <RCode>1</RCode>
  <RFlag>SOK</RFlag>
  <RMsg>score service was successful</RMsg>
</ApplicationReply>
```

Example <ApplicationReply> Element for an application that did not run because another application in the request failed. For more information, see "[<ApplicationReply>](#)," [page 40](#).

```
<ApplicationReply Name="ics_auth">
  <RCode />
  <RFlag />
  <RMsg />
</ApplicationReply>
```

<PaymentData>

The <PaymentData> element contains detailed information about the result of a payment transaction. The <EventType> element is available in versions 1.2 and greater. The

<ACHVerificationResult> and <ACHVerificationResultMapped> elements are available in versions 1.5 and greater. The <GrandTotal> element is available in version 1.6 and greater.

Syntax

<PaymentData>

```
(PaymentRequestID)
(PaymentProcessor)
(Amount)
(CurrencyCode)
(TotalTaxAmount)?
(AuthorizationType)?
(AuthorizationCode)?
(AVSResult)?
(AVSResultMapped)?
(CVResult)?
(ProcessorResponseCode)?
(PayerAuthenticationInfo)?
(EventType)?
(ACHVerificationResult)?
(ACHVerificationResultMapped)?
(GrandTotal)?
(EVEmail)?
(EVEmailRaw)?
(EVName)?
(EVNameRaw)?
(EVPhoneNumber)?
(EVPhoneNumberRaw)?
(EVStreet)?
(EVStreetRaw)?
```

```

(EVPostalCode)?
(EVPostalCodeRaw)?
(BalanceAmount)?
(BalanceCurrencyCode)?
(RequestedAmount)?
(RequestedAmountCurrencyCode)?
</PaymentData>

```

Table 21 Child Elements of <PaymentData>

Element Name	Description	Data Type and Length
<PaymentRequestID>	Original request ID for the purchase. ■ For authorizations and stand-alone credits, this element contains the request ID of the transaction. ■ For captures, this element contains the request ID of the corresponding authorization.	Numeric (26)

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<PaymentProcessor>	Payment processor used for the transaction. This element can contain one of these values: ■ amexbrighton: American Express Brighton ■ amexbrighton2: American Express Brighton ■ amexphoenix: American Express Phoenix ■ barclays: Barclays ■ barclays2: Barclays ■ citiglobal: Citibank Global ■ citimb: Citibank Meerbusch ■ CyberSource ■ efsnet: Concord EFS ■ fdcsouth: FDMS South ■ globalcollect: Global Collect ■ natwest: Streamline ■ smartfdc: FDMS Nashville ■ smartpay: Chase Paymentech Solutions ■ streamline2: Streamline ■ telecheck: TeleCheck ■ vital: TSYS Acquiring Solutions	String (40)
<Amount>	Total amount of the authorization, capture, debit, or credit if CyberSource processed the payment request. For requests that do not contain payment information, such as when Decision Manager is requested alone, you may see an amount in the <GrandTotal> element instead.	Amount (19)
<CurrencyCode>	Currency used for the transaction.	String (5)
<TotalTaxAmount>	Total tax amount for all of the line items in the transaction.	Amount (19)

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<AuthorizationType>	Type of authorization. If the authorization was not successful, or if the processor did not return an authorization code, this element is empty. This element can contain one of these values: ■ O: Online authorization. Successful authorization that was captured normally or was not captured at all. ■ V: Verbal authorization. Authorization captured with a verbal authorization code.	String (1)
<AuthorizationCode>	Authorization code.	String (15)
<AVSResult>	Address verification result code returned directly from the processor.	String (10)
<AVSResultMapped>	CyberSource standardized result of address verification. For a list of possible values, see the Credit Card Services Implementation Guide .	String (5)
<CVResult>	Results of processing the card verification number. For a list of possible values, see the Credit Card Services Implementation Guide .	String (1)
<ProcessorResponseCode>	Response code returned directly from the processor.	String (60)
<PayerAuthenticationInfo>	Results of the Payer Authentication service. For more information, see the PayerAuthenticationInfo element.	

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<EventType>	Type of event that occurred for the transaction. This element is included in versions 1.2 and greater. China Payments and China Refunds ■ Chargeback: The original payment transaction is being disputed by the cardholder or the cardholder's bank. ■ Payment Abnormal: The payment has been held up for regulatory or legal reasons. ■ Payment Declined: The processor has refused the payment request. ■ Payment Failed: The payment request failed. The reason is not specified. ■ Payment Funded: The processor has submitted a transfer to the merchant's bank account as a result of a settled payment. ■ Payment Initiated: The payment request was received from the merchant. ■ Payment Lost: The processor does not acknowledge receiving the payment request. ■ Payment Pending Proc: The payment has not been completed. It is awaiting settlement by the processor. ■ Payment Settled: The payment has been confirmed by the processor and is expected to be funded. ■ Refund Abnormal: The refund has been held up for regulatory or legal reasons. ■ Refund Declined: The processor has refused the refund request.	String (20)

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
	■ Refund Failed: The refund request failed. The reason is not specified. ■ Refund Funded: The processor has submitted a transfer to the merchant's bank account as a result of a settled refund. ■ Refund Pending Cyb: The refund has not been completed. It is awaiting transmission by CyberSource. ■ Refund Pending Proc: The refund has not been completed. It is awaiting settlement by the processor. ■ Refund Settled: The refund has been confirmed by the processor and is expected to be funded. ■ Unknown: The processor does not acknowledge receiving the request.	
	Successful Events for Electronic Check Transactions These values vary with the processor. ■ Payment: Payment has been received. The value is always positive. ■ Refund: A refund (credit) occurred. The value is always negative. ■ Completed: The transaction was completed: ■ CyberSource ACH Service—The event type is Payment after a debit request is received by the bank. CyberSource waits for three days. If the bank does not inform CyberSource about any problems with the funds transfer, the bank considers the check cleared. The event type listed in the report is Completed when the check clears. CyberSource does not guarantee that the check has truly cleared.	

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
	<i>Failed Events for Electronic Check Transactions</i> These values vary with the processor. ■ Correction: A positive or negative correction occurred to a payment or refund. ■ Declined: The account was invalid or disabled. ■ Error: An error occurred. ■ Failed: The account was invalid or disabled. ■ Final NSF: The final instance of insufficient funds occurred. ■ First NSF: The bank will attempt to re-deposit the funds. ■ NSF: The bank returned the check because of insufficient funds. ■ Other: The processor reported an unanticipated event. ■ Second NSF: The bank will attempt to re-deposit the funds for the second time. ■ Stop Payment: The customer stopped the payment. ■ Void: The check was successfully voided. ■ FUNDED: The direct debit reversal is complete.	

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
	<i>Other Types of Transactions</i>	
	■ BATCH_ERROR: The batch file was rejected by the processor because of transaction errors. After the file is reset, the invalid transactions will be marked as TRXN ERROR. ■ BATCH_RESET: Either the complete batch or specific transactions were reset after the problems with the merchant, connections, or processor were resolved. ■ CANCELLED: The transaction was cancelled. ■ CANCELED_REVERS: The reversal was cancelled. ■ ERROR: An error occurred in your follow-on request. ■ FAILED: The credit card (authorization, capture, or credit) or check debit request failed. The reason is not specified.	

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
	■ MIPS : The PayPal billing agreement was created or modified. ■ PAYMENT : The payment has been received. ■ PENDING : The authorization was captured by CyberSource, or the credit request was successful, or the credit card transaction was captured, and the request was sent to the payment processor. The reply from the payment processor is pending. ■ REFUNDED : You initiated a refund of the payment. ■ REVERSAL : The direct debit was reversed at the request of the customer. ■ REVERSAL FAILED : The PIN-less debit reversal request failed. ■ REVERSED : The PIN-less debit reversal request was successful. ■ REVERSING : The initial PIN-less debit request timed out. The subsequent reversal request is pending. ■ TRANSMITTED : The check debit request was processed successfully. ■ VOIDED : The request for the credit card capture, credit card credit, check debit, or check credit was successfully deleted. The authorization has not been deleted. You can see the transaction only on the search results page and in the exported search results.	

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<ACHVerificationResult>	Raw result of the ACH Verification service. This element can contain one of these values: ■ 1: Accepted: Routing number is valid. Account number is valid. ■ 2: Accepted: Routing number is valid. Account number is invalid. Use corrected account number. ■ 3: Accepted: Routing number is valid. Account number is valid. ■ 4: Accepted: Routing number is valid. Account number structure not recognized; account may be valid. ■ 5: Accepted: Routing number is not usable for ACH; use corrected routing number. Account number is valid.	String (2)
	■ 6: Accepted: Routing number is not usable for ACH; use corrected routing number. Account number is invalid; use corrected account number. ■ 7: Accepted: Routing number is not usable for ACH; use corrected routing number. Account number is valid. ■ 8: Accepted: Routing number is not usable for ACH; use corrected routing number. Account number structure not recognized; account may be valid. ■ 9: Declined: Routing number is not usable for ACH; no corrected routing number available. ■ 10: Declined: Routing number not found. ■ 11: Declined: Invalid routing number.	

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<ACHVerificationResult Mapped>	Mapped result of the ACH Verification service. This element can contain one of these values: ■ 00: Success: Account number and routing number are OK. ■ 01: Success: Account number is corrected; routing number is OK. ■ 02: Success: Routing number is corrected; account number is OK. ■ 03: Success: Account number and routing number are corrected. ■ 04: Declined: Routing number does not pass verification. ■ 98: Unavailable: Unable to perform ACH verification. ■ 99: Invalid: Response from ACH verification is invalid.	String (2)
<GrandTotal>	Grand total amount for the order, including tax, for requests that do not contain payment information, such as when Decision Manager is requested alone. This element contains the value of the purchaseTotals.grandTotalAmount (Simple Order API) or grand_total_amount (SCMP API) field. If this field is absent, the grand total is calculated from the total of the line item amounts.	Amount (19)

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<EVEmail>	Electronic Verification response code of customer's email address. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)
<EvEmailRaw>	Raw Electronic Verification response code from the processor for the customer's email address. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)v

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<EVName>	Electronic Verification response code of customer's name. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)
<EVNameRaw>	Raw Electronic Verification response code from the processor for the customer's name. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<EVPhoneNumber>	Electronic Verification response code of customer's phone number. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)
<EVPhoneNumberRaw>	Raw Electronic Verification from the processor for the customer's phone number. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<EVStreet>	Electronic Verification response code of customer's street address. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)
<EVStreetRaw>	Raw Electronic Verification response code from the processor for the customer's street address. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)

Table 21 Child Elements of <PaymentData> (Continued)

Element Name	Description	Data Type and Length
<EVPostalCode>	Electronic Verification of customer's postal code. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)
<EVPostalCodeRaw>	Raw Electronic Verification from the processor for the customer's postal code. This element can contain one of these values: ■ N: No, the data does not match. ■ P: The processor did not return verification information. ■ R: The system is unavailable, so retry. ■ S: The verification service is not available. ■ U: Verification information is not available. ■ Y: Yes, the data matches. ■ 2: The processor returned an unrecognized value.	Alphanumeric (12)
<BalanceAmount>	Remaining balance on the prepaid card.	Amount (19)
<BalanceCurrencyCode>	Currency of the remaining balance on the prepaid card.	String (5)
<RequestedAmount>		
<RequestedAmountCurrencyCode>		

Example <PaymentData> Element

```

<PaymentData>

  <PaymentRequestID>9935369793074590426287</PaymentRequestID>

  <PaymentProcessor>sample</PaymentProcessor>

  <Amount>20.00</Amount>

  <CurrencyCode>USD</CurrencyCode>

  <AuthorizationType>0</AuthorizationType>

  <AuthorizationCode>123456</AuthorizationCode>

  <AVSResult>YYY</AVSResult>

  <AVSResultMapped>Y</AVSResultMapped>

  <CVResult>M</CVResult>

  <ProcessorResponseCode>A</ProcessorResponseCode>

  <PayerAuthenticationInfo></PayerAuthenticationInfo>

  <EventType></EventType>

  <ACHVerificationResult></ACHVerificationResult>

  <ACHVerificationResultMapped><ACHVerificationResultMapped>

  <GrandTotal>20.00</GrandTotal>

  <EVEmail>Y</EvEmail>

  <EVEmailRaw>Y</EvEmailRaw>

  <EVName>Y</EVName>

  <EVNameRaw>Y</EVNameRaw>

  <EVPhoneNumber>P</EVPhoneNumber>

  <EVPhoneNumberRaw>P</EvPhoneNumberRaw>

  <EVStreet>Y</EVStreet>

  <EVStreetRaw>Y</EVStreetRaw>

  <EVPostalCode>2</EVPostalCode>

  <EVPostalCodeRaw>2</EVPostalCodeRaw>

</PaymentData>

```

<PayerAuthenticationInfo>

The <PayerAuthenticationInfo> element contains optional information about the Payer Authentication service. For detailed information about the possible values and their usage, see the [Payer Authentication Developer's Guide](#).

Syntax

```
<PayerAuthenticationInfo>

    (ECI)?

    (AAV_CAVV)?

    (XID)?

</PayerAuthenticationInfo>
```

Table 22 Child Elements of <PayerAuthenticationInfo>

Element Name	Description	Data Type and Length
<ECI>	Optional information that you can receive if you use the Payer Authentication service.	String (64)
<AAV_CAVV>	Optional authentication data that you can receive after the customer is authenticated.	String (32) (in base 64)
<XID>	Optional transaction identifier generated by Payer Authentication that you can receive when the customer is enrolled and when validation is successful.	String (28) (in base 64)

Example <PayerAuthenticationInfo> Element for a MasterCard card.

```
<PayerAuthenticationInfo>

    <ECI>2</ECI>

    <AAV_CAVV>jLw9xEMqcxPMABEAAADH1UG0/7k=</AAV_CAVV>

    <XID>7DDCrSDjEdqNhsAc0xvLjwAHBwE=</XID>

</PayerAuthenticationInfo>
```

<MerchantDefinedData>

The <MerchantDefinedData> element contains optional information that you add to the order, such as an order number, additional customer information, or a special comment or request from the customer.

Syntax

```
<MerchantDefinedData Name=CDATA>

    (field1)?

    ...

    (field20)?

</MerchantDefinedData>
```

Table 23 Attribute of <MerchantDefinedData>

Attribute Name	Description	Data Type and Length
Name	Optional name of the custom field. The name appears only if the field was given a name in the Business Center before being added to the request. No name appears if the field was added to the API request.	String (30)

Table 24 Child Elements of <MerchantDefinedData>

Element Name	Description	Data Type and Length
<field1> through <field20>	Optional information that was added to the order, such as an order number, additional customer information, or a special comment or request from the customer.	String (255)

Example <MerchantDefinedData> Element

```
<MerchantDefinedData>

    <field1>order number=1234</field1>

    <field4 name=shipping>see shipping address</field4>

</MerchantDefinedData>
```

<RiskData>

The <RiskData> element contains detailed information about the result of a risk transaction. If you use Smart Authorization, some reply fields for the card authorization service are returned as children of the <RiskData> element.

Syntax

<RiskData>

```

  (Factors)?
  (HostSeverity)?
  (Score)?
  (TimeLocal)?
  (ConsumerPasswordProvided)?
  (LostPassword)?
  (RepeatCustomer)?
  (CookiesAccepted)?
  (ConsumerLoyalty)?
  (ConsumerPromotions)?
  (GiftWrap)?
  (ReturnsAccepted)?
  (ProductRisk)?
  (AppliedThreshold)?
  (AppliedTimeHedge)
  (AppliedVelocityHedge)
  (AppliedHostHedge)
  (AppliedCategoryGift)
  (AppliedCategoryTime)
  (AppliedAVS)?
  (AppliedCV)?
  (BinAccountType)?
  (BinScheme)?

```

```

(BinIssuer)?
(BinCountry)?
(IPCity)?
(IPCountry)?
(IPRoutingMethod)?
(IPState)?
(InfoCodes)?
(CookiesEnabled)?
(FlashEnabled)
(ImagesEnabled)
(JavascriptEnabled)
(ProxyIPAddress)
(ProxyIPAddressActivities)
(ProxyIPAddressAttributes)
(ProxyServerType)
(TrueIPAddress)
(TrueIPAddressActivities)
(TrueIPAddressAttributes)
</RiskData>

```

Table 25 Child Elements of <RiskData>

Element Name	Description	Data Type and Length
<Factors>	Comma-separated list of codes that indicate what factors affected the score of the order. For a list of factor codes, see the Decision Manager Developer's Guide . Note If you use Smart Authorization, the value of the reply field auth_factor_code is returned in this field.	String (100)
<HostSeverity>	Indicates the risk associated with the customer's email domain.	Numeric (5)
<Score>	Total score calculated for the order.	Numeric (5)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<TimeLocal>	The customer's local time, which is calculated from the transaction request time and the customer's billing address.	DateTime (25)
<ConsumerPasswordProvided>	Reserved for future use.	Boolean (1)
<LostPassword>	Reserved for future use.	Boolean (1)
<RepeatCustomer>	Reserved for future use.	Boolean (1)
<CookiesAccepted>	Reserved for future use.	Boolean (1)
<ConsumerLoyalty>	Reserved for future use.	Boolean (1)
<ConsumerPromotions>	Reserved for future use.	Boolean (1)
<GiftWrap>	Reserved for future use.	Boolean (1)
<ReturnsAccepted>	Reserved for future use.	Boolean (1)
<ProductRisk>	Reserved for future use.	String (6)
<AppliedThreshold>	Score threshold applied to the order. For information about how ics_score selects a threshold, see the Decision Manager Developer's Guide .	Numeric (5)
<AppliedTimeHedge>	Importance of time of day in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)
<AppliedVelocityHedge>	Importance of the number of orders from the customer in a specific time period in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)
<AppliedHostHedge>	Importance of email and IP addresses of the customer in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)
<AppliedCategoryGift>	Importance of billing and shipping addresses in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (1)
<AppliedCategoryTime>	Importance of time of day in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<AppliedAVS>	Reserved for future use.	String (5)
<AppliedCV>	Reserved for future use.	String (1)
<BinAccountType>	Type of customer. This field can contain one of these values: ■ CN: (Consumer) private customer ■ CP: (Corporate) business customer	String (2)
<BinScheme>	Subtype of card account. This field can contain one of these values: ■ Maestro International ■ Maestro UK Domestic ■ MasterCard Credit ■ MasterCard Debit ■ Solo ■ Visa Credit ■ Visa Debit ■ Visa Electron	String (32)
<BinIssuer>	Name of the bank or entity that issued the card account.	String (128)
<BinCountry>	Country (two-digit country code) associated with the BIN of the customer's card used for the payment. Returned if the information is available. Use this field for additional information when reviewing orders. This information is also displayed in the details page of the Business Center.	String (2)
<IPCity>	Name of the city decoded from the IP address used directly or indirectly by the customer to send the order.	String (50)
<IPCountry>	Name of the country decoded from the IP address used directly or indirectly by the customer to send the order.	String (2)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<IPRoutingMethod>	Routing method decoded from the IP address used directly or indirectly by the customer to send the order. Routing method decoded from the IP address used directly or indirectly by the customer to send the order. This field can contain one of these values: ■ Anonymizer ■ AOL, AOL dial-up, AOL POP, and AOL proxy ■ Cache proxy ■ Fixed ■ International proxy ■ Mobile gateway ■ POP ■ Regional proxy ■ Satellite ■ SuperPOP	String (25)
<IPState>	Name of the state decoded from the IP address used directly or indirectly by the customer to send the order.	String (2)
<InfoCodes>	Information codes returned for the order. For a list of child elements, see <InfoCodes> .	
<CookiesEnabled>	Whether cookies are enabled in the customer's browser. This field can contain one of these values: ■ true ■ false	String (5)
<FlashEnabled>	Whether Flash is enabled in the customer's browser. This field can contain one of these values: ■ true ■ false	String (5)
<ImagesEnabled>	Whether images are enabled in the customer's browser. This field can contain one of these values: ■ true ■ false	String (5)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<JavascriptEnabled>	Whether JavaScript is enabled in the customer's browser. This field can contain one of these values: ■ true ■ false	String (5)
<ProxyIPAddress>	IP address of the proxy if it is available.	String (45)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<ProxyIPAddressActivities>	Actions associated with the proxy IP Address. This field can contain one or more of these values, separated by carets (^): ■ BANK: IP address belongs to a financial organization. ■ CLICK_FRAUD: IP address has been used for click fraud. ■ CONNECTING_TO_BOTNET: IP address has been connected to a botnet. ■ CONNECTING_TO_MALWARE_SITE: IP address has been connected to a malware site. ■ DNS_CONNECTION_ANOMALY: IP address has had DNS connection anomaly. ■ INSTANT_MSG: IP address has been used for instant messaging. ■ IRC_CONNECTION_ANOMALY: IP address has been connected to a suspicious IRC server. ■ LEGITIMATE: IP address has been legitimate. ■ MALWARE: IP address has been used for malware. ■ NIGERIAN: IP address has been used for Nigerian email or spam. ■ OTHER: IP has been involved in other activities. ■ P2P: IP address has been used for peer-to-peer communication. ■ PHISH: IP address has been used for phishing. ■ SPAM: IP address has been used to send spam. ■ TCP_SCAN_FLAG: IP address has been used as TCP port scanner. ■ UDP_SCAN_FLAG: IP address has been used as UDP port scanner	String (255)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<ProxyIPAddressAttributes>	Characteristics associated with the proxy IP Address. This field can contain one or more of these values, separated by carets (^): ■ DYNAMIC: IP address has been dynamic. ■ STATIC: IP address has been static. ■ BOGON: IP address has been part of the bogon ranges. ■ HIJACKED: IP address has been part of the hijacked ranges. ■ BOTNET_ZOMBIE: IP address has been either a zombie or a botnet. ■ OPEN_RELAY: IP address has been an open relay. ■ OPEN_PROXY: IP address has been an open proxy. ■ PROXY: IP address has been a proxy. ■ NAME_SERVER: IP address has been a name server. ■ RANGE: IP address has been part of an IP range. ■ PORTAL: IP address has been a portal.	String (255)
<ProxyServerType>	Type of proxy server matched to the HTTP headers. This field can contain one of these values: ■ Anonymous: presence of HTTP header indicates the presence of a proxy but does not disclose the client IP address. ■ Hidden: absence of an HTTP header indicates the presence of a proxy. ■ Transparent: presence of an HTTP header indicates the presence of a proxy and discloses the client IP address. This value is the safest.	String (12)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<TrueIPAddress>	True customer's IP address detected by the application.	String (45)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<TrueIPAddressActivities>	Actions associated with the true IP Address. This field can contain one or more of these values, separated by carets (^): ■ BANK: IP address belongs to a financial organization. ■ CLICK_FRAUD: IP address has been used for click fraud. ■ CONNECTING_TO_BOTNET: IP address has been connected to a botnet. ■ CONNECTING_TO_MALWARE_SITE: IP address has been connected to a malware site. ■ DNS_CONNECTION_ANOMALY: IP address has had DNS connection anomaly. ■ INSTANT_MSG: IP address has been used for instant messaging. ■ IRC_CONNECTION_ANOMALY: IP address has been connected to a suspicious IRC server. ■ LEGITIMATE: IP address has been legitimate. ■ MALWARE: IP address has been used for malware. ■ NIGERIAN: IP address has been used for Nigerian email or spam. ■ OTHER: IP has been involved in other activities. ■ P2P: IP address has been used for peer-to-peer communication. ■ PHISH: IP address has been used for phishing. ■ SPAM: IP address has been used to send spam. ■ TCP_SCAN_FLAG: IP address has been used as TCP port scanner. ■ UDP_SCAN_FLAG: IP address has been used as UDP port scanner.	String (255)

Table 25 Child Elements of <RiskData> (Continued)

Element Name	Description	Data Type and Length
<TrueIPAddressAttributes>	Characteristics associated with the true IP Address. This field can contain one or more information codes, separated by carets (^). This field can contain one of these values: ■ DYNAMIC: IP address has been dynamic. ■ STATIC: IP address has been static. ■ BOGON: IP address has been part of the bogon ranges. ■ HIJACKED: IP address has been part of the hijacked ranges. ■ BOTNET_ZOMBIE: IP address has been either a zombie or a botnet. ■ OPEN_RELAY: IP address has been an open relay. ■ OPEN_PROXY: IP address has been an open proxy. ■ PROXY: IP address has been a proxy. ■ NAME_SERVER: IP address has been a name server. ■ RANGE: IP address has been part of an IP range. ■ PORTAL: IP address has been a portal.	String (255)

Example <RiskData> Element


```

<RiskData>
  <Factors>G,U</Factors>
  <HostSeverity>3</HostSeverity>
  <Score>17</Score>
  <AppliedThreshold>50</AppliedThreshold>
  <AppliedTimeHedge>Normal</AppliedTimeHedge>
  <AppliedVelocityHedge>Normal</AppliedVelocityHedge>
  <AppliedCategoryTime>Normal</AppliedCategoryTime>
  <BinAccountType>CN<BinAccountType>
  <BinScheme>Visa Credit</BinScheme>
  <BinIssuer>sample card issuer</BinIssuer>
  <BinCountry>US</BinCountry>
  <IPCity>Sample Town</IPCity>
  <IPCountry>US</IPCountry>
  <IPRoutingMethod>Fixed</IPRoutingMethod>
  <IPState>MI</IPState>
  <InfoCodes>...</InfoCodes>
  <CookiesEnabled>y</CookiesEnabled>
  <FlashEnabled>y</FlashEnabled>
  <ImagesEnabled>n</ImagesEnabled>
  <JavascriptEnabled>y</JavascriptEnabled>
  <ProxyIPAddress />
  <ProxyIPAddressActivities />
  <ProxyIPAddressAttributes />
  <ProxyServerType />
  <TrueIPAddress>xxx.xxx.xxx.xxx</TrueIPAddress>
  <TrueIPAddressActivities />
  <TrueIPAddressAttributes />
</RiskData>

```

<InfoCodes>

The <InfoCodes> contain all the information codes that can be returned for an order.

Syntax

```
<InfoCodes>
  (InfoCode)+
</InfoCodes>
```

Table 26 Child Elements of <InfoCodes>

Element Name	Description	Data Type and Length
<InfoCode>	Specific information code returned for an order. For a list of child elements, see <InfoCode> .	

Example <InfoCodes> Element

```
<InfoCodes>
  <InfoCode>...</InfoCode>
</InfoCodes>
```

<InfoCode>

The <InfoCodes> contain all the information codes that can be returned for an order.

Syntax

```
<InfoCode Name=CDATA>
  (CodeValue)
  (CodeType)
</InfoCode>
```

Table 27 Child Elements of <InfoCode>

Element Name	Description	Data Type and Length
<CodeType>	Category of information code returned for an order. This element can contain one of these values: ■ address ■ hotlist ■ identity ■ internet ■ merchant_velocity ■ phone ■ suspicious ■ velocity	String (20)
<CodeValue>	Description of the information code returned in the <CodeType> element. For a description of the values, see “Score Information Codes” on page 109. For merchant_velocity, see the custom merchant velocity order and product rules and the corresponding information codes created for your implementation.	String (255)

Example <InfoCodes> Element

```

<InfoCode>
  <CodeType>velocity</CodeType>
  <CodeValue>VEL-CC</CodeValue>
</InfoCode>

```

<ProfileList>

The <ProfileList> element contains detailed information about the evaluation of an order by Decision Manager.

Syntax

```

<ProfileList>

  (Profile)+>

</ProfileList>

```

Table 28 Child Elements of <ProfileList>

Element Name	Description	Data Type and Length
<Profile>	Profile used to evaluate an order. See <Profile> for a list of child elements.	String (255)

Example <ProfileList> Element

```
<ProfileList>
```

```
  <Profile> </Profile>
```

```
</ProfileList>
```

<Profile>

The <Profile> element contains detailed information about the profile used to evaluate an order.

Syntax

```
<Profile Name=CDATA>
```

```
  (ProfileMode)
```

```
  (ProfileDecision)
```

```
  (RuleList)?
```

```
</Profile>
```

Table 29 Attributes of <Profile>

Attribute Name	Description	Data Type and Length
Name	Name of the profile.	String (255)

Table 30 Child Elements of <Profile>

Element Name	Description	Data Type and Length
<ProfileMode>	Activity mode of the profile; this field contains one of these values: ■ Active ■ Passive	String (10)
<ProfileDecision>	Decision returned by the profile; this field contains one of these values: ■ ACCEPT ■ REJECT ■ REVIEW	String (6)
<RuleList>	List of rules used to evaluate an order. For a list of child elements, see <RuleList> .	

Example <Profile> Element

```
<Profile Name="Default Profile">
  <ProfileMode>Active</ProfileMode>
  <ProfileDecision>ACCEPT</ProfileDecision>
  <RuleList> ... </RuleList>
</Profile>
```

<RuleList>

The <RuleList> element lists all the rules in the profile.

Syntax

```
<RuleList>
  (Rule)*
</RuleList>
```

Table 31 Child Elements of <RuleList>

Element Name	Description	Data Type and Length
<Rule>	List of all the rules in the profile. For a list of child elements, see <Rule> .	String (255)

Example <RuleList> Element

```
<RuleList>
  <Rule>...</Rule>
  <Rule>...</Rule>
  ...
</RuleList>
```

<Rule>

The <Rule> element contains information about the rules of the profile used to evaluate an order and the decision returned by each rule.

Syntax

```
<Rule>
  (RuleName)
  (RuleDecision)
</Rule>
```

Table 32 Child Elements of <Rule>

Element Name	Description	Data Type and Length
<RuleName>	Name of the rule	String (255)

Table 32 Child Elements of <Rule> (Continued)

Element Name	Description	Data Type and Length
<RuleDecision>	Decision returned by the rule. This field can contain one of these values: ■ Accept ■ Reject ■ Review ■ Ignore	String (6)

Example <Rule> Element

```

<Rule>

  <RuleName>Card Verification Number was not submitted.</RuleName>

  <RuleDecision>IGNORE</RuleDecision>

  <RuleName>Card issued outside of US (AVS indicator)</RuleName>

  <RuleDecision>Ignore</RuleDecision>

  ...

</Rule>

```

<TravelData>

The <TravelData> element contains all the information about the purchased trip and the passengers.

Syntax

```

<TravelData>

  (TripInfo)

  (PassengerInfo)?

</TravelData>

```

Table 33 Child Elements of <TravelData>

Element Name	Description	Data Type and Length
<TripInfo>	Information about the itinerary. For a list of the child elements, see <TripInfo> .	
<PassengerInfo>	Information about the passengers. For a list of the child elements, see <PassengerInfo> .	

Example <TravelData> Element

```
<TravelData>
  <TripInfo>...</TripInfo>
  <PassengerInfo>...</PassengerInfo>
</TravelData>
```

<TripInfo>

The <TripInfo> element contains all the information about the itinerary.

Syntax

```
<TripInfo>

  (CompleteRoute)?

  (JourneyType)?

  (DepartureDateTime)?

</TripInfo>
```

Table 34 Child Elements of <TripInfo>

Element Name	Description	Data Type and Length
<CompleteRoute>	Concatenation of individual travel legs in the format ORIG1-DEST1[:ORIG2-DEST2...:ORIGn-DESTn], for example: SFO-JFK:JFK-LHR:LHR-CDG. For a complete list of airport codes, see IATA's City Code Directory .	String (255)

Table 34 Child Elements of <TripInfo> (Continued)

Element Name	Description	Data Type and Length
<JourneyType>	Type of travel. For example, you can use values such as one way or round trip.	String (32)
<DepartureDateTime>	Departure date and time of the first leg of the trip in one of these formats: ■ yyyy-MM-dd HH:mm z ■ yyyy-MM-dd hh:mm a z ■ yyyy-MM-dd hh:mma z HH = hour in 24-hour format hh = hour in 12-hour format a = am or pm (case insensitive) z = your time zone	DateTime (25)

Example <TripInfo> Element

```

<TripInfo>
  <CompleteRoute>AB-CD:EF-GH</CompleteRoute>
  <JourneyType>round trip</JourneyType>
  <DepartureDateTime>2009-03-20 11:30 PM PDT</DepartureDateTime>
</TripInfo>

```

<PassengerInfo>

The <PassengerInfo> element contains all the passengers' reference information.

Syntax

```

<PassengerInfo>
  (Passenger)*
</PassengerInfo>

```

Table 35 Child Elements of <PassengerInfo>

Element Name	Description	Data Type and Length
<Passenger>	Complete information about a passenger. For a list of the child elements, see <Passenger> .	

Example <PassengerInfo> Element

```
<PassengerInfo>
  <Passenger>...</Passenger>
</PassengerInfo>
```

<Passenger>

The <Passenger> element contains the complete information about a passenger.

Syntax

```
<Passenger Number=CDATA>

  (PassengerFirstName)?
  (PassengerLastName)?
  (PassengerID)?
  (PassengerStatus)?
  (PassengerType)?
  (PassengerPhone)?
  (PassengerEmail)?

</Passenger>
```

Table 36 Attribute of <Passenger>

Attribute Name	Description	Data Type and Length
Number	Offer level or rank of the passenger in the order.	Numeric (no limit)

Table 37 Child Elements of <TravelData>

Element Name	Description	Data Type and Length
<PassengerFirstName>	Passenger's first name.	String (60)
<PassengerLastName>	Passenger's last name.	String (60)

Table 37 Child Elements of <TravelData> (Continued)

Element Name	Description	Data Type and Length
<PassengerID>	ID of the passenger to whom the ticket was issued. For example, you can use this field for the frequent flyer number.	String (32)
<PassengerStatus>	Your company's passenger classification, such as with a frequent flyer program. In this case, you might use values such as standard, gold, or platinum.	String (32)
<PassengerType>	Passenger classification associated with the price of the ticket. This element can contain one of these values: ■ ADT: Adult ■ CNN: Child ■ INF: Infant ■ YTH: Youth ■ STU: Student ■ SCR: Senior Citizen ■ MIL: Military	String (32)
<PassengerPhone>	Passenger's phone number. If the order is from outside the U.S., CyberSource recommends that you include the country code.	String (15)
<PassengerEmail>	Passenger's email address, including the complete domain name, such as jdoe@example.com.	String (255)

Example <Passenger> Element

```

<Passenger Number="1">

  <PassengerFirstName>john</PassengerFirstName>

  <PassengerLastName>doe</PassengerLastName>

  <PassengerID>sing-002</PassengerID>

  <PassengerStatus>Adult</PassengerStatus>

  <PassengerType>Gold</PassengerType>

  <PassengerPhone>9995551212</PassengerPhone>

  <PassengerEmail>jdoe@example.com</PassengerEmail>

</Passenger>

```

DTD

The new elements are highlighted in red.

```
<!ELEMENT Report (Requests)>

<!--
  Name
  ReportStartDate
  ReportEndDate
  Version
  xmlns
-->
<!--
  Name CDATA #REQUIRED
  ReportStartDate CDATA #REQUIRED
  ReportEndDate CDATA #REQUIRED
  Version NMTOKEN #REQUIRED
  xmlns CDATA #REQUIRED
-->

<!ELEMENT Requests (Request)*>

<!--
  BillTo
  ShipTo?
  Shipping?
  PaymentMethod
  LineItems?
  ApplicationReplies
  PaymentData?
  MerchantDefinedData?
  RiskData?
  ProfileList?
  TravelData?
-->
<!--
  MerchantReferenceNumber
  RequestDate
  RequestID
  SubscriptionID
  Source
  User
  Comments
  TransactionReferenceNumber
  PredecessorRequestID
-->
<!--
  BillTo (FirstName, LastName, MiddleName?, NameSuffix?,
  Address1?, Address2?, City, State?, Zip?, CompanyName?, Email, Country,
  Title?, Phone, IPAddress?, Hostname?, Username?, CustomerID?)
-->
<!--
  FirstName
  LastName
  MiddleName
  NameSuffix
  Address1
  Address2
-->
<!--
  FirstName (#PCDATA)
  LastName (#PCDATA)
  MiddleName (#PCDATA)
  NameSuffix (#PCDATA)
  Address1 (#PCDATA)
  Address2 (#PCDATA)
-->
```

```

<!ELEMENT City (#PCDATA)>

<!ELEMENT State (#PCDATA)>

<!ELEMENT Zip (#PCDATA)>

<!ELEMENT CompanyName (#PCDATA)>

<!ELEMENT Email (#PCDATA)>

<!ELEMENT Country (#PCDATA)>

<!ELEMENT Title (#PCDATA)>

<!ELEMENT Phone (#PCDATA)>

<!ELEMENT IPAddress (#PCDATA)>

<!ELEMENT Hostname (#PCDATA)>

<!ELEMENT UserName (#PCDATA)>

<!ELEMENT CustomerID (#PCDATA)>

<!ELEMENT ShipTo (FirstName?, LastName?, Address1?, Address2?, City?,
State?, Zip?, CompanyName?, Country?, Phone?)>

<!ELEMENT Shipping (Method, Carrier)>

<!ELEMENT Method (#PCDATA)>

<!ELEMENT Carrier (#PCDATA)>

<!ELEMENT PaymentMethod (Card | Check)>

<!ELEMENT Card (AccountSuffix, ExpirationMonth, ExpirationYear,
StartMonth?, StartYear?, IssueNumber?, CardType, BoletoNumber?)>

<!ELEMENT AccountSuffix (#PCDATA)>

<!ELEMENT ExpirationMonth (#PCDATA)>

<!ELEMENT ExpirationYear (#PCDATA)>

<!ELEMENT StartMonth (#PCDATA)>

<!ELEMENT StartYear (#PCDATA)>

<!ELEMENT IssueNumber (#PCDATA)>

<!ELEMENT CardType (#PCDATA)>

<!ELEMENT BoletoNumber (#PCDATA)>

<!ELEMENT Check (AccountSuffix, CheckNumber)>

<!ELEMENT CheckNumber (#PCDATA)>

```

```

<!ELEMENT LineItems (LineItem)*>

<!ELEMENT LineItem (FulfillmentType, Quantity?, UnitPrice, TaxAmount?,
MerchantProductSKU?, ProductName?, ProductCode?)>

<!ATTLIST LineItem Number CDATA #REQUIRED>

<!ELEMENT FulfillmentType (#PCDATA)>

<!ELEMENT Quantity (#PCDATA)>

<!ELEMENT UnitPrice (#PCDATA)>

<!ELEMENT TaxAmount (#PCDATA)>

<!ELEMENT MerchantProductSKU (#PCDATA)>

<!ELEMENT ProductCode (#PCDATA)>

<!ELEMENT ProductName (#PCDATA)>

<!ELEMENT ApplicationReplies (ApplicationReply)*>

<!ELEMENT ApplicationReply (RCode, RFlag, RMsg?)>

<!ATTLIST ApplicationReply Name CDATA #REQUIRED>

<!ELEMENT RCode (#PCDATA)>

<!ELEMENT RFlag (#PCDATA)>

<!ELEMENT RMsg (#PCDATA)>

<!ELEMENT PaymentData (PaymentRequestID?, PaymentProcessor?, Amount?,
CurrencyCode?, TotalTaxAmount?, AuthorizationType?, AuthorizationCode?,
AVSResult?, AVSResultMapped?, CVResult?, ProcessorResponseCode?,
PayerAuthenticationInfo?, EventType?, NumberOfInstallments?,
ACHVerificationResult?, ACHVerificationResultMapped?, GrandTotal?,
EVEmail?, EVEmailRaw?, EVName?, EVNameRaw?, EVPhoneNumber?,
EVPhoneNumberRaw?, EVStreet?, EVStreetRaw?, EVPostalCode?,
EVPostalCodeRaw?)>

<!ELEMENT PaymentRequestID (#PCDATA)>

<!ELEMENT PaymentProcessor (#PCDATA)>

<!ELEMENT Amount (#PCDATA)>

<!ELEMENT CurrencyCode (#PCDATA)>

<!ELEMENT TotalTaxAmount (#PCDATA)>

<!ELEMENT AuthorizationType (#PCDATA)>

<!ELEMENT AuthorizationCode (#PCDATA)>

<!ELEMENT AVSResult (#PCDATA)>

```

```

<!ELEMENT AVSResultMapped (#PCDATA)>

<!ELEMENT CVResult (#PCDATA)>

<!ELEMENT ProcessorResponseCode (#PCDATA)>

<!ELEMENT PayerAuthenticationInfo (ECI?, AAV_CAVV?, XID?)>

<!ELEMENT ECI (#PCDATA)>

<!ELEMENT AAV_CAVV (#PCDATA)>

<!ELEMENT XID (#PCDATA)>

<!ELEMENT EventType (#PCDATA)>

<!ELEMENT NumberOfInstallments (#PCDATA)>

<!ELEMENT ACHVerificationResult (#PCDATA)>

<!ELEMENT ACHVerificationResultMapped (#PCDATA)>

<!ELEMENT GrandTotal (#PCDATA)>

<!ELEMENT MerchantDefinedData (field1?, field2?, field3?, field4?,
field5?, field6?, field7?, field8?, field9?, field10?, field11?, field12?,
field13?, field14?, field15?, field16?, field17?, field18?, field19?,
field20?)>

<!ELEMENT field1 (#PCDATA)>

<!ATTLIST field1 name CDATA #IMPLIED>

<!ELEMENT field2 (#PCDATA)>

<!ATTLIST field2 name CDATA #IMPLIED>

<!ELEMENT field3 (#PCDATA)>

<!ATTLIST field3 name CDATA #IMPLIED>

<!ELEMENT field4 (#PCDATA)>

<!ATTLIST field4 name CDATA #IMPLIED>

<!ELEMENT field5 (#PCDATA)>

<!ATTLIST field5 name CDATA #IMPLIED>

<!ELEMENT field6 (#PCDATA)>

<!ATTLIST field6 name CDATA #IMPLIED>

<!ELEMENT field7 (#PCDATA)>

<!ATTLIST field7 name CDATA #IMPLIED>

```

```

<!ELEMENT field8 (#PCDATA)>
<!ATTLIST field8 name CDATA #IMPLIED>
<!ELEMENT field9 (#PCDATA)>
<!ATTLIST field9 name CDATA #IMPLIED>
<!ELEMENT field10 (#PCDATA)>
<!ATTLIST field10 name CDATA #IMPLIED>
<!ELEMENT field11 (#PCDATA)>
<!ATTLIST field11 name CDATA #IMPLIED>
<!ELEMENT field12 (#PCDATA)>
<!ATTLIST field12 name CDATA #IMPLIED>
<!ELEMENT field13 (#PCDATA)>
<!ATTLIST field13 name CDATA #IMPLIED>
<!ELEMENT field14 (#PCDATA)>
<!ATTLIST field14 name CDATA #IMPLIED>
<!ELEMENT field15 (#PCDATA)>
<!ATTLIST field15 name CDATA #IMPLIED>
<!ELEMENT field16 (#PCDATA)>
<!ATTLIST field16 name CDATA #IMPLIED>
<!ELEMENT field17 (#PCDATA)>
<!ATTLIST field17 name CDATA #IMPLIED>
<!ELEMENT field18 (#PCDATA)>
<!ATTLIST field18 name CDATA #IMPLIED>
<!ELEMENT field19 (#PCDATA)>
<!ATTLIST field19 name CDATA #IMPLIED>
<!ELEMENT field20 (#PCDATA)>
<!ATTLIST field20 name CDATA #IMPLIED>
<!ELEMENT RiskData (Factors?, HostSeverity?, Score?, TimeLocal?,
ConsumerPasswordProvided?, LostPassword?, RepeatCustomer?,
CookiesAccepted?, ConsumerLoyalty?, ConsumerPromotions?, GiftWrap?,
ReturnsAccepted?, ProductRisk?, AppliedThreshold?, AppliedTimeHedge,
AppliedVelocityHedge, AppliedHostHedge, AppliedCategoryGift,
AppliedCategoryTime, AppliedAVS?, AppliedCV?, BinAccountType?, BinScheme?,

```



```

BinIssuer?, BinCountry?, IPCity?, IPCountry?, IPRoutingMethod?, IPState?,
InfoCodes?, CookiesEnabled, FlashEnabled, ImagesEnabled,
JavascriptEnabled, ProxyIPAddress, ProxyIPAddressActivities,
ProxyIPAddressAttributes, ProxyServerType, TrueIPAddress,
TrueIPAddressActivities, TrueIPAddressAttributes)>

<!ELEMENT Factors (#PCDATA)>

<!ELEMENT HostSeverity (#PCDATA)>

<!ELEMENT Score (#PCDATA)>

<!ELEMENT TimeLocal (#PCDATA)>

<!ELEMENT ConsumerPasswordProvided (#PCDATA)>

<!ELEMENT LostPassword (#PCDATA)>

<!ELEMENT RepeatCustomer (#PCDATA)>

<!ELEMENT CookiesAccepted (#PCDATA)>

<!ELEMENT ConsumerLoyalty (#PCDATA)>

<!ELEMENT ConsumerPromotions (#PCDATA)>

<!ELEMENT GiftWrap (#PCDATA)>

<!ELEMENT ReturnsAccepted (#PCDATA)>

<!ELEMENT ProductRisk (#PCDATA)>

<!ELEMENT AppliedThreshold (#PCDATA)>

<!ELEMENT AppliedTimeHedge (#PCDATA)>

<!ELEMENT AppliedVelocityHedge (#PCDATA)>

<!ELEMENT AppliedHostHedge (#PCDATA)>

<!ELEMENT AppliedCategoryGift (#PCDATA)>

<!ELEMENT AppliedCategoryTime (#PCDATA)>

<!ELEMENT AppliedAVS (#PCDATA)>

<!ELEMENT AppliedCV (#PCDATA)>

<!ELEMENT BinAccountType (#PCDATA)>

<!ELEMENT BinScheme (#PCDATA)>

<!ELEMENT BinIssuer (#PCDATA)>

<!ELEMENT BinCountry (#PCDATA)>

<!ELEMENT IPCity (#PCDATA)>

```

```

<!ELEMENT IPCountry (#PCDATA)>

<!ELEMENT IPRoutingMethod (#PCDATA)>

<!ELEMENT IPState (#PCDATA)>

<!ELEMENT InfoCodes (InfoCode)+>

<!ELEMENT InfoCode (CodeType, CodeValue)>

<!ELEMENT CodeValue (#PCDATA)>

<!ELEMENT CodeType (#PCDATA)>

<!ELEMENT ProfileList (Profile)+>

<!ELEMENT Profile (ProfileMode, ProfileDecision, RuleList)>

<!ATTLIST Profile Name CDATA #REQUIRED>

<!ELEMENT ProfileMode (#PCDATA)>

<!ELEMENT ProfileDecision (#PCDATA)>

<!ELEMENT RuleList (Rule)*>

<!ELEMENT Rule (RuleName, RuleDecision)>

<!ELEMENT RuleName (#PCDATA)>

<!ELEMENT RuleDecision (#PCDATA)>

<!ELEMENT TravelData (TripInfo, PassengerInfo?)>

<!ELEMENT TripInfo (CompleteRoute?, JourneyType?, DepartureDateTime?)>

<!ELEMENT CompleteRoute (#PCDATA)>

<!ELEMENT JourneyType (#PCDATA)>

<!ELEMENT DepartureDateTime (#PCDATA)>

<!ELEMENT PassengerInfo (Passenger)*>

<!ELEMENT Passenger (PassengerFirstName?, PassengerLastName?,
PassengerID?, PassengerStatus?, PassengerType?, PassengerPhone?,
PassengerEmail?)>

<!ATTLIST Passenger Number CDATA #REQUIRED>

<!ELEMENT PassengerFirstName (#PCDATA)>

<!ELEMENT PassengerLastName (#PCDATA)>

<!ELEMENT PassengerID (#PCDATA)>

<!ELEMENT PassengerStatus (#PCDATA)>

```

```

<!ELEMENT PassengerType (#PCDATA)>

<!ELEMENT PassengerPhone (#PCDATA)>

<!ELEMENT PassengerEmail (#PCDATA)>

```

Sample Report

```

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/reports/
dtd/tdr_1_6.dtd">

<Report xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_
6.dtd"

    Name="Transaction Detail"

    Version="1.6"

    MerchantID="ok_go"

    ReportStartDate="2009-05-26T18:30:00-08:00"

    ReportEndDate="2009-05-27T18:30:00-08:00">

    <Requests>

        <Request RequestID="2434465504100167904567"

            RequestDate="2009-05-27T17:49:10+05:30"

            MerchantReferenceNumber="1234"

            Source="SCMP API"

            User=""

            SubscriptionID=""

            TransactionReferenceNumber="00013791KV8BZF3P">

            <BillTo>

                <FirstName>sample</FirstName>

                <LastName>merchant</LastName>

                <Address1>11 Lico Ave</Address1>

                <City>Big City</City>

                <State>CA</State>

                <Zip>99999</Zip>

```

```

    <Email>smerchant@example.com</Email>

    <Country>US</Country>

    <Phone></Phone>
</BillTo>

<ShipTo>
    <City>xyz</City>

    <Zip>95117</Zip>
</ShipTo>

<PaymentMethod>
    <Card>

        <AccountSuffix>7392</AccountSuffix>

        <ExpirationMonth>12</ExpirationMonth>

        <ExpirationYear>2009</ExpirationYear>

        <CardType>Visa</CardType>
    </Card>
</PaymentMethod>

<LineItems>
    <LineItem Number="0">

        <FulfillmentType>P</FulfillmentType>

        <Quantity>1</Quantity>

        <UnitPrice>2.00</UnitPrice>

        <TaxAmount>0.00</TaxAmount>

        <ProductCode>default</ProductCode>
    </LineItem>
</LineItems>

<ApplicationReplies>
    <ApplicationReply Name="ics_auth">

        <RCode>1</RCode>

        <RFlag>S0K</RFlag>

```

```

    <RMsg>Request was processed successfully.</RMsg>
  </ApplicationReply>
  <ApplicationReply Name="ics_decision">
    <RCode>0</RCode>
    <RFlag>DREVIEW</RFlag>
    <RMsg>Decision is REVIEW.</RMsg>
  </ApplicationReply>
  <ApplicationReply Name="ics_decision_early">
    <RCode>1</RCode>
    <RFlag />
  </ApplicationReply>
  <ApplicationReply Name="ics_score">
    <RCode>1</RCode>
    <RFlag>DSCORE</RFlag>
    <RMsg>Score exceeds threshold. Score = 84</RMsg>
  </ApplicationReply>
</ApplicationReplies>
<PaymentData>
  <PaymentRequestID>2434465504100167904567</PaymentRequestID>
  <PaymentProcessor>smartpay</PaymentProcessor>
  <Amount>2.00</Amount>
  <CurrencyCode>USD</CurrencyCode>
  <TotalTaxAmount>0.00</TotalTaxAmount>
  <AuthorizationType>0</AuthorizationType>
  <AuthorizationCode>888888</AuthorizationCode>
  <AVSResult>I1</AVSResult>
  <AVSResultMapped>X</AVSResultMapped>
  <GrandTotal>2.00</GrandTotal>
  <EVEmail>Y</EvEmail>

```

```

<EVEmailRaw>Y</EVEmailRaw>

<EVName>Y</EVName>

<EVNameRaw>Y</EVNameRaw>

<EVPhoneNumber>P</EVPhoneNumber>

<EVPhoneNumberRaw>P</EVPhoneNumberRaw>

<EVStreet>Y</EVStreet>

<EVStreetRaw>Y</EVStreetRaw>

<EVPostalCode>2</EVPostalCode>

<EVPostalCodeRaw>2</EVPostalCodeRaw>

<ACHVerificationResult>100</ACHVerificationResult>

</PaymentData>

<MerchantDefinedData>

  <field1 name="mdd1">ca</field1>

</MerchantDefinedData>

<RiskData>

  <Factors>C,Y,Z</Factors>

  <HostSeverity>1</HostSeverity>

  <Score>84</Score>

  <TimeLocal>2009-05-27T10:49:10</TimeLocal>

  <AppliedThreshold>20</AppliedThreshold>

  <AppliedTimeHedge>normal</AppliedTimeHedge>

  <AppliedVelocityHedge>high</AppliedVelocityHedge>

  <AppliedHostHedge>normal</AppliedHostHedge>

  <AppliedCategoryGift>n</AppliedCategoryGift>

  <AppliedCategoryTime></AppliedCategoryTime>

  <AppliedAVS>X</AppliedAVS>

  <BinAccountType>CN</BinAccountType>

  <BinScheme>Visa Credit</BinScheme>

  <BinIssuer>Sample issuer</BinIssuer>

```

```

<BinCountry>us</BinCountry>

<InfoCodes>
  <InfoCode>
    <CodeType>address</CodeType>
    <CodeValue>MM-C,MM-Z</CodeValue>
  </InfoCode>
  <InfoCode>
    <CodeType>velocity</CodeType>
    <CodeValue>VEL-CC</CodeValue>
  </InfoCode>
</InfoCodes>
</RiskData>
<ProfileList>
  <Profile Name="Default Profile">
    <ProfileMode>Active</ProfileMode>
    <ProfileDecision>ACCEPT</ProfileDecision>
    <RuleList>
      <Rule>
        <RuleName>sample rule name</RuleName>
        <RuleDecision>IGNORE</RuleDecision>
      </Rule>
    </RuleList>
  </Profile>
</ProfileList>
<TravelData>
  <TripInfo>
    <CompleteRoute>AB-CD:EF-GH</CompleteRoute>
    <JourneyType>round trip</JourneyType>
    <DepartureDateTime>sample date & time</DepartureDateTime>
  </TripInfo>
</TravelData>

```

```

</TripInfo>

<PassengerInfo>
  <Passenger Number="0">
    <PassengerFirstName>jane</PassengerFirstName>
    <PassengerLastName>doe</PassengerLastName>
    <PassengerID>Sing-001</PassengerID>
  </Passenger>
  <Passenger Number="1">
    <PassengerFirstName>john</PassengerFirstName>
    <PassengerLastName>doe</PassengerLastName>
    <PassengerID>sing-002</PassengerID>
    <PassengerStatus>Adult</PassengerStatus>
    <PassengerType>Gold</PassengerType>
    <PassengerPhone>9995551212</PassengerPhone>
    <PassengerEmail>jdoe@example.com</PassengerEmail>
  </Passenger>
</PassengerInfo>
</TravelData>
</Request>

</Requests>

</Report>

```


CSV Format

This chapter describes the comma-separated values (CSV) [Report](#) and an [Example](#).



Note

The CSV-format report is the equivalent of the XML report with the 1.0 DTD.

Report

This report contains summary information about your card and check transactions, including Bill Me Later transactions, and detailed information about the Advanced Fraud Screen service.



Important

The CSV version of the Transaction Detail Report does not include information about the offers in a transaction. If you need this information, you must use the XML version of the report.

First Header Record

The first header record describes the name and version of the report and indicates which dates are included in the report.

Example First Header Record

```
Transaction Detail Report,1.0,2003-09-01 to 2003-09-
01,
//
//
```

Table 38 Fields in the First Header Record

Position	Field Name	Description	Data Type and Length
1	report_name	Name of the report. This field always contains the text Transaction Detail Report.	String (100)

Table 38 Fields in the First Header Record (Continued)

Position	Field Name	Description	Data Type and Length
2	version_number	Version number of the report. The current version number is 1.0.	Numeric (10)
3	date_range	Dates that are included in the report. This field uses the format <i>YYYY-MM-DD</i> to <i>YYYY-MM-DD</i> . The first date is the start date; the second date is the end date.	String (100)
4-124	Empty	n/a	n/a

Second Header Record

The second header record indicates the name of each field in the report. The fields in the second header record follow these rules:

- The content of each field is the same as the field name.
- The data type and length of each field is String (100).

For a list of field names in the second header record, see ["Transaction Record," page 99](#).

Example Second Header

```
row_descriptor,request_id,transaction_date,merchant_ref_number,merchant_id,ics_
applications,auth_rcode,auth_rflag,auth_rmsg,auth_reversal_rcode,auth_reversal_
rflag,auth_reversal_rmsg,bill_rcode,bill_rflag,bill_rmsg,credit_rcode,credit_
rflag,credit_rmsg,ecp_debit_rcode,ecp_debit_rflag,ecp_debit_rmsg,ecp_credit_
rcode,ecp_credit_rflag,ecp_credit_rmsg,score_rcode,score_rflag,score_rmsg,tax_
rcode,tax_rflag,tax_rmsg,dav_rcode,dav_rflag,dav_rmsg,export_rcode,export_
rflag,export_rmsg,elc_rcode,elc_rflag,elc_rmsg,elc_revoke_rcode,elc_revoke_rflag,elc_
revoke_rmsg,download_rcode,download_rflag,download_rmsg,create_isv_rcode,create_isv_
rflag,create_isv_rmsg,add_value_to_isv_rcode,add_value_to_isv_rflag,add_value_to_isv_
rmsg,get_isv_history_rcode,get_isv_history_rflag,get_isv_history_rmsg,get_isv_info_
rcode,get_isv_info_rflag,get_isv_info_rmsg,get_isv_profiles_rcode,get_isv_profiles_
rflag,get_isv_profiles_rmsg,modify_isv_rcode,modify_isv_rflag,modify_isv_rmsg,redeem_
isv_rcode,redeem_isv_rflag,redeem_isv_rmsg,customer_firstname,customer_
lastname,customer_middlename,bill_address1,bill_address2,bill_city,bill_state,bill_
zip,bill_country,company_name,customer_email,customer_title,customer_phone,ship_to_
address1,ship_to_address2,ship_to_city,ship_to_state,ship_to_zip,ship_to_
country,ship_to_phone,customer_ipaddress,account_suffix,customer_cc_expmo,customer_
cc_expyr,customer_cc_startmo,customer_cc_startyr,customer_cc_issue_number,payment_
method,amount,currency,auth_auth_avs,auth_auth_code,auth_cv_result,shipping_
method,score_factors,score_host_severity,score_score_result,score_time_
local,customer_hostname,shipping_carrier,customer_password_provided,lost_
password,repeat_customer,cookies_accepted,customer_loyalty,customer_promotions,gift_
wrap,returns_accepted,customer_id,product_risk,applied_score_threshold,applied_time_
hedge,applied_velocity_hedge,applied_host_hedge,applied_categ
ory_gift,applied_category_time,avs,cv,payment_processor,source, subscription_id
```

Transaction Record

Each transaction record includes information about a CyberSource payment transaction.

For information about possible values for each field, see the Implementation Guide for the services you use. These guides are available on the [Support Center](#).

Example Transaction Record

```
Request,0004223530000167905139,2003-05-01T07:42:03-
07:00,3C515C71D48F631,CyberSource,"ics_auth,ics_dav,ics_score,ics_
tax",1,SOK,ok,,,,,,,,,,,,,1,SOK,score service was successful,1,SOK,Tax service was
successful.,1,SOK,dav service was successful,,,,,,,,,,,,,,,,,,,,,John,
Doe,A,1295 Charleston Rd.,Mountain View,CA,94043,US,CyberSource,
icsinfo@cybersource.com,,650-965-6000,1295 Charleston Rd.,Mountain View, CA,94043,US,
650-965-6000,xxx.xxx.xxx.xxx,1111,12,2009,,,Visa,88.96,USD,X,123456,M,,U,1,7,2003-
05-01T07:42:03-07:00,hostname.cybersource.com,,,,,
,,,,,40,Normal,Low,Normal,N,Off,,,smartfdc,,,,
```

Table 39 Fields in the Transaction Record

Position	Field Name	Description	Data Type and Length
1	row_descriptor	Description of the data in this record. This field always contains the value Request.	String (20)
2	request_id	Identifier for the transaction.	Numeric (26)
3	transaction_date	Date on which the transaction was processed.	DateTime (25)
4	merchant_ref_number	Merchant-generated order reference or tracking number, such as a purchase order number.	String (50)
5	merchant_id	CyberSource merchant ID used for the transaction.	String (30)
6	ics_applications	Comma-separated list of applications that were included in the request.	String (255)
7	auth_rcode	One-digit code that indicates whether the ics_auth request was successful.	Numeric (1)
8	auth_rflag	One-word description of the result of the ics_auth request.	String (50)
9	auth_rmsg	Message that explains the reply flag for ics_auth .	String (255)
10	auth_reversal_rcode	One-digit code that indicates whether the ics_auth_reversal request was successful.	Numeric (1)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
11	auth_reversal_rflag	One-word description of the result of the ics_auth_reversal request.	String (50)
12	auth_reversal_rmsg	Message that explains the reply flag for ics_auth_reversal .	String (255)
13	bill_rcode	One-digit code that indicates whether the ics_bill request was successful.	Numeric (1)
14	bill_rflag	One-word description of the result of the ics_bill request.	String (50)
15	bill_rmsg	Message that explains the reply flag for ics_bill .	String (255)
16	credit_rcode	One-digit code that indicates whether the ics_credit request was successful.	Numeric (1)
17	credit_rflag	One-word description of the result of the ics_credit request.	String (50)
18	credit_rmsg	Message that explains the reply flag for ics_credit .	String (255)
19	ecp_debit_rcode	One-digit code that indicates whether the ics_ecp_debit request was successful.	Numeric (1)
20	ecp_debit_rflag	One-word description of the result of the ics_ecp_debit request.	String (50)
21	ecp_debit_rmsg	Message that explains the reply flag for ics_ecp_debit .	String (255)
22	ecp_credit_rcode	One-digit code that indicates whether the ics_ecp_credit request was successful.	Numeric (1)
23	ecp_credit_rflag	One-word description of the result of the ics_ecp_credit request.	String (50)
24	ecp_credit_rmsg	Message that explains the reply flag for ics_ecp_credit .	String (255)
25	score_rcode	One-digit code that indicates whether the ics_score request was successful.	Numeric (1)
26	score_rflag	One-word description of the result of the ics_score request.	String (50)
27	score_rmsg	Message that explains the reply flag for ics_score .	Alpha-numeric (255)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
28	tax_rcode	One-digit code that indicates whether the ics_tax request was successful.	Numeric (1)
29	tax_rflag	One-word description of the result of the ics_tax request.	String (50)
30	tax_rmsg	Message that explains the reply flag for ics_tax .	String (255)
31	dav_rcode	One-digit code that indicates whether the ics_dav request was successful.	Numeric (1)
32	dav_rflag	One-word description of the result of the ics_dav request.	String (50)
33	dav_rmsg	Message that explains the reply flag for ics_dav .	String (255)
34	export_rcode	One-digit code that indicates whether the ics_export request was successful.	Numeric (1)
35	export_rflag	One-word description of the result of the ics_export request.	String (50)
36	export_rmsg	Message that explains the reply flag for ics_export .	String (255)
37	elc_rcode	One-digit code that indicates whether the ics_elc request was successful.	Numeric (1)
38	elc_rflag	One-word description of the result of the ics_elc request.	String (50)
39	elc_rmsg	Message that explains the reply flag for ics_elc .	String (255)
40	elc_revoke_rcode	One-digit code that indicates whether the ics_elc_revoke request was successful.	Numeric (1)
41	elc_revoke_rflag	One-word description of the result of the ics_elc_revoke request.	String (50)
42	elc_revoke_rmsg	Message that explains the reply flag for ics_elc_revoke .	String (255)
43	download_rcode	One-digit code that indicates whether the ics_download request was successful.	Numeric (1)
44	download_rflag	One-word description of the result of the ics_download request.	String (50)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
45	download_rmsg	Message that explains the reply flag for ics_download .	String (255)
46	create_isv_rcode	One-digit code that indicates whether the ics_create_isv request was successful.	Numeric (1)
47	create_isv_rflag	One-word description of the result of the ics_create_isv request.	String (50)
48	create_isv_rmsg	Message that explains the reply flag for ics_create_isv .	String (255)
49	add_value_to_isv_rcode	One-digit code that indicates whether the ics_add_value_to_isv request was successful.	Numeric (1)
50	add_value_to_isv_rflag	One-word description of the result of the ics_add_value_to_isv request.	String (50)
51	add_value_to_isv_rmsg	Message that explains the reply flag for ics_add_value_to_isv .	String (255)
52	get_isv_history_rcode	One-digit code that indicates whether the ics_get_isv_history request was successful.	Numeric (1)
53	get_isv_history_rflag	One-word description of the result of the ics_get_isv_history request.	String (50)
54	get_isv_history_rmsg	Message that explains the reply flag for ics_get_isv_history .	String (255)
55	get_isv_info_rcode	One-digit code that indicates whether the ics_get_isv_info request was successful.	Numeric (1)
56	get_isv_info_rflag	One-word description of the result of the ics_get_isv_info request.	String (50)
57	get_isv_info_rmsg	Message that explains the reply flag for ics_get_isv_info .	String (255)
58	get_isv_profiles_rcode	One-digit code that indicates whether the ics_get_isv_profiles request was successful.	Numeric (1)
59	get_isv_profiles_rflag	One-word description of the result of the ics_get_isv_profiles request.	String (50)
60	get_isv_profiles_rmsg	Message that explains the reply flag for ics_get_isv_profiles .	String (255)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
61	modify_isv_rcode	One-digit code that indicates whether the ics_modify_isv request was successful.	Numeric (1)
62	modify_isv_rflag	One-word description of the result of the ics_modify_isv request.	String (50)
63	modify_isv_rmsg	Message that explains the reply flag for ics_modify_isv .	String (255)
64	redeem_isv_rcode	One-digit code that indicates whether the ics_redeem_isv request was successful.	Numeric (1)
65	redeem_isv_rflag	One-word description of the result of the ics_redeem_isv request.	String (50)
66	redeem_isv_rmsg	Message that explains the reply flag for ics_redeem_isv .	String (255)
67	customer_firstname	First name of the bill-to customer.	String (60)
68	customer_lastname	Last name of the bill-to customer.	String (60)
69	customer_middlename	Middle name of the billed customer.	String (60)
70	bill_address1	First line of the billing address.	String (60)
71	bill_address2	Second line of the billing address.	String (60)
72	bill_city	City of the billing address.	String (50)
73	bill_state	State, province, or territory of the billing address.	String (20)
74	bill_zip	Postal code of the billing address.	String (10)
75	bill_country	ISO country code of the billing address. For a list of ISO country codes, see the Support Center .	String (2)
76	company_name	Company name of the billing address.	String (60)
77	customer_email	Email address of the billed customer.	String (255)
78	customer_title	Title of the billed customer.	String (30)
79	customer_phone	Phone number of the billed customer.	String (15)
80	ship_to_address1	First line of the shipping address.	String (60)
81	ship_to_address2	Second line of the shipping address.	String (60)
82	ship_to_city	City of the shipping address.	String (50)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
83	ship_to_state	State, province, or territory of the shipping address.	String (20)
84	ship_to_zip	Postal code of the shipping address.	String (10)
85	ship_to_country	ISO country code of the shipping address. For a list of ISO country codes, see the Support Center .	String (2)
86	ship_to_phone	Phone number of the ship-to customer.	String (15)
87	customer_ipaddress	IP address of the customer.	String (15)
88	account_suffix	Last four digits of the customer's credit card or bank account number.	String (4)
89	customer_cc_expmo	Expiration month (<i>MM</i>) of the credit card.	String (2)
90	customer_cc_expyr	Expiration year (<i>YYYY</i>) of the credit card.	String (4)
91	customer_cc_startmo	Start month (<i>MM</i>) of the credit card. Used for Maestro (UK Domestic) cards.	String (2)
92	customer_cc_startyr	Start year (<i>YYYY</i>) of the credit card. Used for Maestro (UK Domestic) cards.	String (4)
93	customer_cc_issue_number	Issue number of Maestro (UK Domestic) credit cards.	String (5)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
94	payment_method	Type of card or bank account used for the transaction. This field can contain one of these values: ■ American Express ■ Bank Transfer ■ Carta Si ■ Carte Blanche ■ Carte Bleue ■ Checking ■ Corporate Checking ■ Dankort ■ Delta ■ Diners Club ■ Direct Debit ■ Discover ■ EnRoute ■ JAL ■ JCB ■ Laser ■ Maestro ■ MasterCard ■ MBNA-LOAN ■ Paymentech Bill Me Later ■ PayPal ■ Savings ■ Solo ■ Maestro (UK Domestic) ■ UATP ■ UNKNOWN card ■ Visa ■ Visa Electron If your company uses CyberSource to process a private label card, this field can contain the name of your private label card.	String (50)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
95	amount	Total amount of the transaction. For ics_credit and ics_ecp_credit transactions, the amount is negative.	Amount (19)
96	currency	ISO country code used for the transaction.	String (5)
97	auth_auth_avs	Results of address verification. For a list of possible values, see the Credit Card Services Implementation Guide .	String (5)
98	auth_auth_code	Authorization code.	String (15)
99	auth_cv_result	Results of processing the card verification number. For a list of possible values, see the Credit Card Services Implementation Guide .	String (1)
100	shipping_method	Reserved for future use.	String (10)
101	score_factors	Comma-separated list of codes that indicate what factors affected the score of the order. For a list of factor codes, see the Decision Manager Developer's Guide . If you use Smart Authorization, the value of the reply field auth_factor_code is returned in score_factors .	String (100)
102	score_host_severity	Indicates the risk associated with the customer's email domain.	Numeric (5)
103	score_score_result	Total score calculated for the order.	Numeric (5)
104	score_time_local	The customer's local time, which is calculated from the transaction request time and the customer's billing address.	DateTime (25)
105	customer_hostname	DNS-resolved hostname of the customer.	String (255)
106	shipping_carrier	Reserved for future use.	String (12)
107	customer_password_provided	Reserved for future use.	Boolean (1)
108	lost_password	Reserved for future use.	Boolean (1)
109	repeat_customer	Reserved for future use.	Boolean (1)
110	cookies_accepted	Reserved for future use.	Boolean (1)
111	customer_loyalty	Reserved for future use.	Boolean (1)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
112	customer_promotions	Reserved for future use.	Boolean (1)
113	gift_wrap	Reserved for future use.	Boolean (1)
114	returns_accepted	Reserved for future use.	Boolean (1)
115	customer_id	Reserved for future use.	String (50)
116	product_risk	Reserved for future use.	String (6)
117	applied_score_threshold	Score threshold applied to the order. For information about how ics_score selects a threshold, see the Decision Manager Developer's Guide .	Numeric (5)
118	applied_time_hedge	Importance of time of day in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)
119	applied_velocity_hedge	Importance of the number of orders from the customer in a specific time period in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)
120	applied_host_hedge	Importance of email and IP addresses of the customer in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)
121	applied_category_gift	Importance of billing and shipping addresses in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (1)
122	applied_category_time	Importance of time of day in assessing the order. If you do not specify a value in your request, the server uses the default value for your merchant ID.	String (6)
123	avs	Reserved for future use.	String (5)
124	cv	Reserved for future use.	String (1)

Table 39 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type and Length
125	payment_processor	Payment processor used for the transaction: ■ amexbrighton: American Express Brighton ■ amexbrighton2: American Express Brighton ■ amexphoenix: American Express Phoenix ■ barclays: Barclays ■ barclays2: Barclays ■ citiglobal: Citibank Global ■ citimb: Citibank Meerbusch ■ CyberSource ■ efsnet: Concord EFS ■ fdcsouth: FDMS South ■ globalcollect: Global Collect ■ natwest: Streamline ■ paypal: PayPal ■ smartfdc: FDMS Nashville ■ smartpay: Chase Paymentech Solutions ■ streamline2: Streamline ■ telecheck: TeleCheck ■ vital: TSYS Acquiring Solutions	String (40)
126	source	Source of the transaction. This element can contain one of the following values: ■ HOP ■ Virtual Terminal	String (30)
127	subscription_id	Unique identifier that is returned to you when a subscription is created.	String (26)

Example

This sample report shows a transaction that includes three services: export, card authorization, and Advanced Fraud Screen (or score).

```
Transaction Detail Report,1.0,2004-05-12 to 2004-05-12,
//
//
row_descriptor,request_id,transaction_date,merchant_ref_number,merchant_id,ics_
applications,auth_rcode,auth_rflag,auth_rmsg,auth_reversal_rcode,auth_reversal_
rflag,auth_reversal_rmsg,bill_rcode,bill_rflag,bill_rmsg,credit_rcode,credit_
rflag,credit_rmsg,ecp_debit_rcode,ecp_debit_rflag,ecp_debit_rmsg,ecp_credit_
rcode,ecp_credit_rflag,ecp_credit_rmsg,score_rcode,score_rflag,score_rmsg,tax_
rcode,tax_rflag,tax_rmsg,dav_rcode,dav_rflag,dav_rmsg,export_rcode,export_
rflag,export_rmsg,elc_rcode,elc_rflag,elc_rmsg,elc_revoke_rcode,elc_revoke_rflag,elc_
revoke_rmsg,download_rcode,download_rflag,download_rmsg,create_isv_rcode,create_isv_
rflag,create_isv_rmsg,add_value_to_isv_rcode,add_value_to_isv_rflag,add_value_to_isv_
rmsg,get_isv_history_rcode,get_isv_history_rflag,get_isv_history_rmsg,get_isv_info_
rcode,get_isv_info_rflag,get_isv_info_rmsg,get_isv_profiles_rcode,get_isv_profiles_
rflag,get_isv_profiles_rmsg,modify_isv_rcode,modify_isv_rflag,modify_isv_rmsg,redeem_
isv_rcode,redeem_isv_rflag,redeem_isv_rmsg,customer_firstname,customer_
lastname,customer_middlename,bill_address1,bill_address2,bill_city,bill_state,bill_
zip,bill_country,company_name,customer_email,customer_title,customer_phone,ship_to_
address1,ship_to_address2,ship_to_city,ship_to_state,ship_to_zip,ship_to_
country,ship_to_phone,customer_ipaddress,account_suffix,customer_cc_expmo,customer_
cc_expyr,customer_cc_startmo,customer_cc_startyr,customer_cc_issue_number,payment_
method,amount,currency,auth_auth_avs,auth_auth_code,auth_cv_result,shipping_
method,score_factors,score_host_severity,score_score_result,score_time_
local,customer_hostname,shipping_carrier,customer_password_provided,lost_
password,repeat_customer,cookies_accepted,customer_loyalty,customer_promotions,gift_
wrap,returns_accepted,customer_id,product_risk,applied_score_threshold,applied_time_
hedge,applied_velocity_hedge,applied_host_hedge,applied_category_gift,applied_
category_time,avs,cv,payment_processor,source,subscription_id,

Request,0843813580000167904565,2004-05-12T17:02:38-07:00,0,dfrankd05,"ics_export,
ics_auth,ics_score",1,SOK,Request was processed successfully,,,,,,,,,,,,,1,
DSCORE,Score exceeds threshold; Score = 78,,,,,,,,, 1,SOK,export service was successful
,,,,,,,,,,,,,John,Doe,A,1295 Charleston Rd.,Mountain View,CA,
94043,US,CyberSource,info@example.com,,650-965-6000,1295 Charleston Rd.,Mountain
View,CA,94043,US,650-965-6000,xxx.xxx.xxx.xxx,1111,12,2009,,,Visa,88.96,USD,
X,123456,M,,U,1,7,2003-05-01T07:42:03-07:00,hostname.cybersource.com,,,,,,,,,40,
Normal,Low, Normal,N,Off,,,Smartfdc,,,
```

DTDs and Examples of Previous XML Versions

Version 1.5

The new elements are ACHVerificationResult and ACHVerificationResultMapped.

DTD

```
<!ELEMENT Report (Requests)>
<!ATTLIST Report MerchantID CDATA #REQUIRED
                  Name CDATA #REQUIRED
                  ReportStartDate CDATA #REQUIRED
                  ReportEndDate CDATA #REQUIRED
                  Version NMTOKEN #REQUIRED
                  xmlns CDATA #REQUIRED>
<!ELEMENT Requests (Request)*>
<!ELEMENT Request (BillTo, ShipTo?, Shipping?, PaymentMethod,
                  LineItems?, ApplicationReplies, PaymentData?,
                  MerchantDefinedData?, RiskData?, ProfileList?)>
<!ATTLIST Request MerchantReferenceNumber CDATA #REQUIRED
                  RequestDate CDATA #REQUIRED
                  RequestID CDATA #REQUIRED
                  SubscriptionID CDATA #IMPLIED
                  Source CDATA #IMPLIED
                  User CDATA #IMPLIED
                  Comments CDATA #IMPLIED
                  TransactionReferenceNumber CDATA #IMPLIED
                  PredecessorRequestID CDATA #IMPLIED>
<!ELEMENT BillTo (FirstName, LastName, MiddleName?, NameSuffix?,
                  Address1?, Address2?, City, State?, Zip?, CompanyName?, Email,
                  Country, Title?, Phone, IPAddress?, Hostname?, Username?,
                  CustomerID?)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT MiddleName (#PCDATA)>
<!ELEMENT NameSuffix (#PCDATA)>
<!ELEMENT Address1 (#PCDATA)>
<!ELEMENT Address2 (#PCDATA)>
```

```

<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT CompanyName (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT Title (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT IPAddress (#PCDATA)>
<!ELEMENT Hostname (#PCDATA)>
<!ELEMENT UserName (#PCDATA)>
<!ELEMENT CustomerID (#PCDATA)>
<!ELEMENT ShipTo (FirstName?, LastName?, Address1?, Address2?,
City?, State?, Zip?, CompanyName?, Country?, Phone?)>
<!ELEMENT Shipping (Method, Carrier)>
<!ELEMENT Method (#PCDATA)>
<!ELEMENT Carrier (#PCDATA)>
<!ELEMENT PaymentMethod (Card | Check)>
<!ELEMENT Card (AccountSuffix, ExpirationMonth, ExpirationYear,
StartMonth?, StartYear?, IssueNumber?, CardType, BolettoNumber?)>
<!ELEMENT AccountSuffix (#PCDATA)>
<!ELEMENT ExpirationMonth (#PCDATA)>
<!ELEMENT ExpirationYear (#PCDATA)>
<!ELEMENT StartMonth (#PCDATA)>
<!ELEMENT StartYear (#PCDATA)>
<!ELEMENT IssueNumber (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT BolettoNumber (#PCDATA)>
<!ELEMENT Check (AccountSuffix, CheckNumber)>
<!ELEMENT CheckNumber (#PCDATA)>
<!ELEMENT LineItems (LineItem)*>
<!ELEMENT LineItem (FulfillmentType, Quantity?, UnitPrice,
TaxAmount?, MerchantProductSKU?, ProductName?, ProductCode?)>
<!ATTLIST LineItem Number CDATA #REQUIRED>
<!ELEMENT FulfillmentType (#PCDATA)>
<!ELEMENT Quantity (#PCDATA)>
<!ELEMENT UnitPrice (#PCDATA)>
<!ELEMENT TaxAmount (#PCDATA)>
<!ELEMENT MerchantProductSKU (#PCDATA)>
<!ELEMENT ProductCode (#PCDATA)>
<!ELEMENT ProductName (#PCDATA)>
<!ELEMENT ApplicationReplies (ApplicationReply)*>
<!ELEMENT ApplicationReply (RCode, RFlag, RMsg?)>
<!ATTLIST ApplicationReply Name CDATA #REQUIRED>
<!ELEMENT RCode (#PCDATA)>
<!ELEMENT RFlag (#PCDATA)>
<!ELEMENT RMsg (#PCDATA)>
<!ELEMENT PaymentData (PaymentRequestID?, PaymentProcessor?,
Amount?, CurrencyCode?, TotalTaxAmount?, AuthorizationType?,

```

```

AuthorizationCode?, AVSResult?, AVSResultMapped?, CVResult?,
ProcessorResponseCode?, PayerAuthenticationInfo?, EventType?,
NumberOfInstallments?, ACHVerificationResult?,
ACHVerificationResultMapped?)>
<!ELEMENT PaymentRequestID (#PCDATA)>
<!ELEMENT PaymentProcessor (#PCDATA)>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT CurrencyCode (#PCDATA)>
<!ELEMENT TotalTaxAmount (#PCDATA)>
<!ELEMENT AuthorizationType (#PCDATA)>
<!ELEMENT AuthorizationCode (#PCDATA)>
<!ELEMENT AVSResult (#PCDATA)>
<!ELEMENT AVSResultMapped (#PCDATA)>
<!ELEMENT CVResult (#PCDATA)>
<!ELEMENT ProcessorResponseCode (#PCDATA)>
<!ELEMENT PayerAuthenticationInfo (ECI?, AAV_CAVV?, XID?)>
<!ELEMENT ECI (#PCDATA)>
<!ELEMENT AAV_CAVV (#PCDATA)>
<!ELEMENT XID (#PCDATA)>
<!ELEMENT EventType (#PCDATA)>
<!ELEMENT NumberOfInstallments (#PCDATA)>
<!ELEMENT ACHVerificationResult (#PCDATA)>
<!ELEMENT ACHVerificationResultMapped (#PCDATA)>
<!ELEMENT MerchantDefinedData (field1?, field2?, field3?, field4?,
field5?, field6?, field7?, field8?, field9?, field10?, field11?,
field12?, field13?, field14?, field15?, field16?, field17?,
field18?, field19?, field20?)>
<!ELEMENT field1 (#PCDATA)>
<!ATTLIST field1 name CDATA #IMPLIED>
<!ELEMENT field2 (#PCDATA)>
<!ATTLIST field2 name CDATA #IMPLIED>
<!ELEMENT field3 (#PCDATA)>
<!ATTLIST field3 name CDATA #IMPLIED>
<!ELEMENT field4 (#PCDATA)>
<!ATTLIST field4 name CDATA #IMPLIED>
<!ELEMENT field5 (#PCDATA)>
<!ATTLIST field5 name CDATA #IMPLIED>
<!ELEMENT field6 (#PCDATA)>
<!ATTLIST field6 name CDATA #IMPLIED>
<!ELEMENT field7 (#PCDATA)>
<!ATTLIST field7 name CDATA #IMPLIED>
<!ELEMENT field8 (#PCDATA)>
<!ATTLIST field8 name CDATA #IMPLIED>
<!ELEMENT field9 (#PCDATA)>
<!ATTLIST field9 name CDATA #IMPLIED>
<!ELEMENT field10 (#PCDATA)>
<!ATTLIST field10 name CDATA #IMPLIED>
<!ELEMENT field11 (#PCDATA)>
<!ATTLIST field11 name CDATA #IMPLIED>

```



```

<!ELEMENT field12 (#PCDATA)>
<!ATTLIST field12 name CDATA #IMPLIED>
<!ELEMENT field13 (#PCDATA)>
<!ATTLIST field13 name CDATA #IMPLIED>
<!ELEMENT field14 (#PCDATA)>
<!ATTLIST field14 name CDATA #IMPLIED>
<!ELEMENT field15 (#PCDATA)>
<!ATTLIST field15 name CDATA #IMPLIED>
<!ELEMENT field16 (#PCDATA)>
<!ATTLIST field16 name CDATA #IMPLIED>
<!ELEMENT field17 (#PCDATA)>
<!ATTLIST field17 name CDATA #IMPLIED>
<!ELEMENT field18 (#PCDATA)>
<!ATTLIST field18 name CDATA #IMPLIED>
<!ELEMENT field19 (#PCDATA)>
<!ATTLIST field19 name CDATA #IMPLIED>
<!ELEMENT field20 (#PCDATA)>
<!ATTLIST field20 name CDATA #IMPLIED>
<!ELEMENT RiskData (Factors?, HostSeverity?, Score?, TimeLocal?,
ConsumerPasswordProvided?, LostPassword?, RepeatCustomer?,
CookiesAccepted?, ConsumerLoyalty?, ConsumerPromotions?,
GiftWrap?, ReturnsAccepted?, ProductRisk?, AppliedThreshold?,
AppliedTimeHedge, AppliedVelocityHedge, AppliedHostHedge,
AppliedCategoryGift, AppliedCategoryTime, AppliedAVS?,
AppliedCV?)>
<!ELEMENT Factors (#PCDATA)>
<!ELEMENT HostSeverity (#PCDATA)>
<!ELEMENT Score (#PCDATA)>
<!ELEMENT TimeLocal (#PCDATA)>
<!ELEMENT ConsumerPasswordProvided (#PCDATA)>
<!ELEMENT LostPassword (#PCDATA)>
<!ELEMENT RepeatCustomer (#PCDATA)>
<!ELEMENT CookiesAccepted (#PCDATA)>
<!ELEMENT ConsumerLoyalty (#PCDATA)>
<!ELEMENT ConsumerPromotions (#PCDATA)>
<!ELEMENT GiftWrap (#PCDATA)>
<!ELEMENT ReturnsAccepted (#PCDATA)>
<!ELEMENT ProductRisk (#PCDATA)>
<!ELEMENT AppliedThreshold (#PCDATA)>
<!ELEMENT AppliedTimeHedge (#PCDATA)>
<!ELEMENT AppliedVelocityHedge (#PCDATA)>
<!ELEMENT AppliedHostHedge (#PCDATA)>
<!ELEMENT AppliedCategoryGift (#PCDATA)>
<!ELEMENT AppliedCategoryTime (#PCDATA)>
<!ELEMENT AppliedAVS (#PCDATA)>
<!ELEMENT AppliedCV (#PCDATA)>
<!ELEMENT ProfileList (Profile)+>
<!ELEMENT Profile (ProfileMode, ProfileDecision, RuleList)>
<!ATTLIST Profile Name CDATA #REQUIRED>

```

```

<!ELEMENT ProfileMode (#PCDATA)>
<!ELEMENT ProfileDecision (#PCDATA)>
<!ELEMENT RuleList (Rule)*>
<!ELEMENT Rule (RuleName,RuleDecision)>
<!ELEMENT RuleName (#PCDATA)>
<!ELEMENT RuleDecision (#PCDATA)>

```

Example

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/reports/
dtd/tdr_1_5.dtd">
<Report xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_
5.dtd"
    Name="Transaction Detail"
    Version="1.5"
    MerchantID="ok_go"
    ReportStartDate="2009-01-27 23:00:39.536-08:00"
    ReportEndDate="2009-01-27 23:00:39.536-08:00">
  <Requests>
    <Request MerchantReferenceNumber="ok_go_ecp_1"
      RequestDate="2009-01-20T17:27:58-08:00"
      RequestID="2325012771670170394202"
      SubscriptionID=""
      Source="Case Management API"
      User="test_merchant_1"
      TransactionReferenceNumber="2031800">
      <BillTo>
        <FirstName>Jane</FirstName>
        <LastName>Doe</LastName>
        <Address1>1295 Charleston Rd.</Address1>
        <City>Mountain View</City>
        <State>CA</State>
        <Zip>94043</Zip>
        <CompanyName>OK Go</CompanyName>
        <Email>jdoe@example.com</Email>
        <Country>US</Country>
        <Phone>6509656000</Phone>
      </BillTo>
      <ShipTo>
        <Phone>6509656000</Phone>
      </ShipTo>
      <PaymentMethod>
        <Check>
          <AccountSuffix>1234</AccountSuffix>
          <CheckNumber>99000</CheckNumber>
        </Check>
      </PaymentMethod>
      <LineItems>
        <LineItem Number="0">
          <FulfillmentType />

```

```

        <Quantity>1</Quantity>
        <UnitPrice>1.00</UnitPrice>
        <TaxAmount>0.00</TaxAmount>
        <ProductCode>default</ProductCode>
    </LineItem>
</LineItems>
<ApplicationReplies>
    <ApplicationReply Name="ics_ecp_debit">
        <RCode>1</RCode>
        <RFlag>SOK</RFlag>
        <RMsg>Request was processed successfully.</RMsg>
    </ApplicationReply>
</ApplicationReplies>
<PaymentData>
    <PaymentProcessor>wellsfargoach</PaymentProcessor>
    <Amount>1.00</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <TotalTaxAmount>0.00</TotalTaxAmount>
    <EventType>PENDING</EventType>
    <ACHVerificationResult>06</ACHVerificationResult>
    <ACHVerificationResultMapped>03</ACHVerificationResultMapped>
</PaymentData>
</Request>
</Requests>
</Report>

```

Version 1.4

The new elements are BoletoNumber and NumberOfInstallments.

DTD

```

<!ELEMENT Report (Requests)>
<!--ATTLIST Report MerchantID CDATA #REQUIRED
      Name CDATA #REQUIRED
      ReportStartDate CDATA #REQUIRED
      ReportEndDate CDATA #REQUIRED
      Version NMTOKEN #REQUIRED
      xmlns CDATA #REQUIRED-->
<!ELEMENT Requests (Request)*>
<!--ELEMENT Request (BillTo?, ShipTo?, Shipping?, PaymentMethod, LineItems?,
ApplicationReplies, PaymentData?, MerchantDefinedData?, RiskData?,
ProfileList?)>
<!--ATTLIST Request MerchantReferenceNumber CDATA #REQUIRED
      RequestDate CDATA #REQUIRED
      RequestID CDATA #REQUIRED
      SubscriptionID CDATA #IMPLIED
      Source CDATA #IMPLIED
      User CDATA #IMPLIED

```

```

Comments CDATA #IMPLIED
TransactionReferenceNumber CDATA #IMPLIED
PredecessorRequestID CDATA #IMPLIED>
<!ELEMENT BillTo (FirstName, LastName, MiddleName?, NameSuffix?,
Address1?, Address2?, City, State?, Zip?, CompanyName?, Email, Country,
Title?, Phone, IPAddress?, Hostname?, UserName?, CustomerID?)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT MiddleName (#PCDATA)>
<!ELEMENT NameSuffix (#PCDATA)>
<!ELEMENT Address1 (#PCDATA)>
<!ELEMENT Address2 (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT CompanyName (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT Title (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT IPAddress (#PCDATA)>
<!ELEMENT Hostname (#PCDATA)>
<!ELEMENT UserName (#PCDATA)>
<!ELEMENT CustomerID (#PCDATA)>
<!ELEMENT ShipTo (FirstName?, LastName?, Address1?, Address2?, City?,
State?, Zip?, CompanyName?, Country?, Phone?)>
<!ELEMENT Shipping (Method, Carrier)>
<!ELEMENT Method (#PCDATA)>
<!ELEMENT Carrier (#PCDATA)>
<!ELEMENT PaymentMethod (Card | Check)>
<!ELEMENT Card (AccountSuffix, ExpirationMonth, ExpirationYear,
StartMonth?, StartYear?, IssueNumber?, CardType, BoletoNumber?)>
<!ELEMENT AccountSuffix (#PCDATA)>
<!ELEMENT ExpirationMonth (#PCDATA)>
<!ELEMENT ExpirationYear (#PCDATA)>
<!ELEMENT StartMonth (#PCDATA)>
<!ELEMENT StartYear (#PCDATA)>
<!ELEMENT IssueNumber (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT BoletoNumber (#PCDATA)>
<!ELEMENT Check (AccountSuffix, CheckNumber)>
<!ELEMENT CheckNumber (#PCDATA)>
<!ELEMENT LineItems (LineItem)*>
<!ELEMENT LineItem (FulfillmentType, Quantity?, UnitPrice, TaxAmount?,
MerchantProductSKU?, ProductName?, ProductCode?)>
<!ATTLIST LineItem Number CDATA #REQUIRED>
<!ELEMENT FulfillmentType (#PCDATA)>
<!ELEMENT Quantity (#PCDATA)>
<!ELEMENT UnitPrice (#PCDATA)>
<!ELEMENT TaxAmount (#PCDATA)>
<!ELEMENT MerchantProductSKU (#PCDATA)>
<!ELEMENT ProductCode (#PCDATA)>
<!ELEMENT ProductName (#PCDATA)>

```

```

<!ELEMENT ApplicationReplies (ApplicationReply)*>
<!ELEMENT ApplicationReply (RCode, RFlag, RMsg?)>
<!ATTLIST ApplicationReply Name CDATA #REQUIRED>
<!ELEMENT RCode (#PCDATA)>
<!ELEMENT RFlag (#PCDATA)>
<!ELEMENT RMsg (#PCDATA)>
<!ELEMENT PaymentData (PaymentRequestID?, PaymentProcessor?, Amount?,
CurrencyCode?, TotalTaxAmount?, AuthorizationType?, AuthorizationCode?,
AVSResult?, AVSResultMapped?, CVResult?, ProcessorResponseCode?,
PayerAuthenticationInfo?, EventType?, NumberOfInstallments?)>
<!ELEMENT PaymentRequestID (#PCDATA)>
<!ELEMENT PaymentProcessor (#PCDATA)>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT CurrencyCode (#PCDATA)>
<!ELEMENT TotalTaxAmount (#PCDATA)>
<!ELEMENT AuthorizationType (#PCDATA)>
<!ELEMENT AuthorizationCode (#PCDATA)>
<!ELEMENT AVSResult (#PCDATA)>
<!ELEMENT AVSResultMapped (#PCDATA)>
<!ELEMENT CVResult (#PCDATA)>
<!ELEMENT ProcessorResponseCode (#PCDATA)>
<!ELEMENT PayerAuthenticationInfo (ECI?, AAV_CAVV?, XID?)>
<!ELEMENT ECI (#PCDATA)>
<!ELEMENT AAV_CAVV (#PCDATA)>
<!ELEMENT XID (#PCDATA)>
<!ELEMENT EventType (#PCDATA)>
<!ELEMENT NumberOfInstallments (#PCDATA)>
<!ELEMENT MerchantDefinedData (field1?, field2?, field3?, field4?,
field5?, field6?, field7?, field8?, field9?, field10?, field11?, field12?,
field13?, field14?, field15?, field16?, field17?, field18?, field19?,
field20?)>
<!ELEMENT field1 (#PCDATA)>
<!ATTLIST field1 name CDATA #IMPLIED>
<!ELEMENT field2 (#PCDATA)>
<!ATTLIST field2 name CDATA #IMPLIED>
<!ELEMENT field3 (#PCDATA)>
<!ATTLIST field3 name CDATA #IMPLIED>
<!ELEMENT field4 (#PCDATA)>
<!ATTLIST field4 name CDATA #IMPLIED>
<!ELEMENT field5 (#PCDATA)>
<!ATTLIST field5 name CDATA #IMPLIED>
<!ELEMENT field6 (#PCDATA)>
<!ATTLIST field6 name CDATA #IMPLIED>
<!ELEMENT field7 (#PCDATA)>
<!ATTLIST field7 name CDATA #IMPLIED>
<!ELEMENT field8 (#PCDATA)>
<!ATTLIST field8 name CDATA #IMPLIED>
<!ELEMENT field9 (#PCDATA)>
<!ATTLIST field9 name CDATA #IMPLIED>
<!ELEMENT field10 (#PCDATA)>
<!ATTLIST field10 name CDATA #IMPLIED>
<!ELEMENT field11 (#PCDATA)>
<!ATTLIST field11 name CDATA #IMPLIED>
<!ELEMENT field12 (#PCDATA)>

```

```

<!ATTLIST field12 name CDATA #IMPLIED>
<!ELEMENT field13 (#PCDATA)>
<!ATTLIST field13 name CDATA #IMPLIED>
<!ELEMENT field14 (#PCDATA)>
<!ATTLIST field14 name CDATA #IMPLIED>
<!ELEMENT field15 (#PCDATA)>
<!ATTLIST field15 name CDATA #IMPLIED>
<!ELEMENT field16 (#PCDATA)>
<!ATTLIST field16 name CDATA #IMPLIED>
<!ELEMENT field17 (#PCDATA)>
<!ATTLIST field17 name CDATA #IMPLIED>
<!ELEMENT field18 (#PCDATA)>
<!ATTLIST field18 name CDATA #IMPLIED>
<!ELEMENT field19 (#PCDATA)>
<!ATTLIST field19 name CDATA #IMPLIED>
<!ELEMENT field20 (#PCDATA)>
<!ATTLIST field20 name CDATA #IMPLIED>
<!ELEMENT RiskData (Factors?, HostSeverity?, Score?, TimeLocal?,
ConsumerPasswordProvided?, LostPassword?, RepeatCustomer?,
CookiesAccepted?, ConsumerLoyalty?, ConsumerPromotions?, GiftWrap?,
ReturnsAccepted?, ProductRisk?, AppliedThreshold?, AppliedTimeHedge,
AppliedVelocityHedge, AppliedHostHedge, AppliedCategoryGift,
AppliedCategoryTime, AppliedAVS?, AppliedCV?)>
<!ELEMENT Factors (#PCDATA)>
<!ELEMENT HostSeverity (#PCDATA)>
<!ELEMENT Score (#PCDATA)>
<!ELEMENT TimeLocal (#PCDATA)>
<!ELEMENT ConsumerPasswordProvided (#PCDATA)>
<!ELEMENT LostPassword (#PCDATA)>
<!ELEMENT RepeatCustomer (#PCDATA)>
<!ELEMENT CookiesAccepted (#PCDATA)>
<!ELEMENT ConsumerLoyalty (#PCDATA)>
<!ELEMENT ConsumerPromotions (#PCDATA)>
<!ELEMENT GiftWrap (#PCDATA)>
<!ELEMENT ReturnsAccepted (#PCDATA)>
<!ELEMENT ProductRisk (#PCDATA)>
<!ELEMENT AppliedThreshold (#PCDATA)>
<!ELEMENT AppliedTimeHedge (#PCDATA)>
<!ELEMENT AppliedVelocityHedge (#PCDATA)>
<!ELEMENT AppliedHostHedge (#PCDATA)>
<!ELEMENT AppliedCategoryGift (#PCDATA)>
<!ELEMENT AppliedCategoryTime (#PCDATA)>
<!ELEMENT AppliedAVS (#PCDATA)>
<!ELEMENT AppliedCV (#PCDATA)>
<!ELEMENT ProfileList (Profile)+>
<!ELEMENT Profile (ProfileMode, ProfileDecision, RuleList)>
<!ATTLIST Profile Name CDATA #REQUIRED>
<!ELEMENT ProfileMode (#PCDATA)>
<!ELEMENT ProfileDecision (#PCDATA)>
<!ELEMENT RuleList (Rule)*>
<!ELEMENT Rule (RuleName,RuleDecision)>
<!ELEMENT RuleName (#PCDATA)>
<!ELEMENT RuleDecision (#PCDATA)>

```

Examples

This section contains a credit card example and a Boletó Bancário example.

Credit Card

This sample contains a successful credit card payment with CyberSource Latin American Processing with the <NumberOfInstallments> element.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/reports/
dtd/tdr_1_4.dtd">
<Report xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_
4.dtd"
    Name="Transaction Detail"
    Version="1.4" MerchantID="testMerchant"
    ReportStartDate="2008-09-10 21:46:41.765-08:00"
    ReportEndDate="2008-09-10 21:46:41.765-08:00">
  <Requests>
    <Request MerchantReferenceNumber="33038191"
      RequestDate="2008-09-10T14:00:08-08:00"
      RequestID="2210804330010167904567"
      SubscriptionID=""
      Source="SCMP API"
      User="merchant123"
      TransactionReferenceNumber="0001094522">
      <BillTo>
        <FirstName>JANE</FirstName>
        <LastName>Smith</LastName>
        <Address1>1295 Charleston Rd</Address1>
        <Address2>Suite 2</Address2>
        <City>Mountain View</City>
        <State>CA</State>
        <Zip>06513</Zip>
        <Email>null@cybersource.com</Email>
        <Country>US</Country>
      </BillTo>
      <ShipTo>
        <FirstName>JANE</FirstName>
        <LastName>SMITH</LastName>
        <Address1>1295 Charleston Rd</Address1>
        <Address2>Suite 2</Address2>
        <City>Mountain View</City>
        <State>CA</State>
        <Zip>94043</Zip>
        <Country>US</Country>
      </ShipTo>
      <PaymentMethod>
        <Card>
          <AccountSuffix>1111</AccountSuffix>
          <ExpirationMonth>11</ExpirationMonth>
          <ExpirationYear>2011</ExpirationYear>
```

```

        <CardType>Visa</CardType>
    </Card>
</PaymentMethod>
<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_bill">
        <RCode>1</RCode>
        <RFlag>SOK</RFlag>
        <RMsg>Request was processed successfully.</RMsg>
    </ApplicationReply>
</ApplicationReplies>
<PaymentData>
    <PaymentProcessor>braspag</PaymentProcessor>
    <Amount>1.81</Amount>
    <CurrencyCode>BRL</CurrencyCode>
    <TotalTaxAmount>0.25</TotalTaxAmount>
    <EventType>TRANSMITTED</EventType>
    <NumberOfInstallments>3</NumberOfInstallments>
</PaymentData>
</Request>
</Requests>
</Report>

```

Boleto Bancário

This sample contains a successful payment with the <BoLetoNumber> element.

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/reports/
dtd/tdr_1_4.dtd">
<Report xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_
4.dtd"
    Name="Transaction Detail"
    Version="1.4" MerchantID="testMerchant"
    ReportStartDate="2008-09-10 21:46:41.765-08:00"
    ReportEndDate="2008-09-10 21:46:41.765-08:00">
    <Requests>
        <Request MerchantReferenceNumber="33038191"
            RequestDate="2008-09-10T14:00:08-08:00"
            RequestID="2210804330010167904567"
            SubscriptionID=""
            Source="SCMP API"

```



```

        User="merchant123"
        TransactionReferenceNumber="0001094522">
<BillTo>
  <FirstName>JANE</FirstName>
  <LastName>Smith</LastName>
  <Address1>1295 Charleston Rd</Address1>
  <Address2>Suite 2</Address2>
  <City>Mountain View</City>
  <State>CA</State>
  <Zip>06513</Zip>
  <Email>null@cybersource.com</Email>
  <Country>US</Country>
</BillTo>
<ShipTo>
  <FirstName>JANE</FirstName>
  <LastName>SMITH</LastName>
  <Address1>1295 Charleston Rd</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>
<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>braspag</PaymentProcessor>
  <Amount>1.81</Amount>

```

```

        <CurrencyCode>BRL</CurrencyCode>
        <TotalTaxAmount>0.25</TotalTaxAmount>
        <EventType>Fulfilled</EventType>
    </PaymentData>
</Request>
</Requests>
</Report>

```

Version 1.3

The new attributes are PredecessorRequestID and User .

DTD

```

<!ELEMENT Report (Requests)>
<!--ATTLIST Report MerchantID CDATA #REQUIRED
      Name CDATA #REQUIRED
      ReportStartDate CDATA #REQUIRED
      ReportEndDate CDATA #REQUIRED
      Version NMTOKEN #REQUIRED
      xmlns CDATA #REQUIRED-->
<!ELEMENT Requests (Request)*>
<!--ELEMENT Request (BillTo, ShipTo?, Shipping?, PaymentMethod, LineItems?,
ApplicationReplies, PaymentData?, MerchantDefinedData?, RiskData?,
ProfileList?)>
<!--ATTLIST Request MerchantReferenceNumber CDATA #REQUIRED
      RequestDate CDATA #REQUIRED
      RequestID CDATA #REQUIRED
      SubscriptionID CDATA #IMPLIED
      Source CDATA #IMPLIED
      User CDATA #IMPLIED
      Comments CDATA #IMPLIED
      TransactionReferenceNumber CDATA #IMPLIED
      PredecessorRequestID CDATA #IMPLIED-->
<!--ELEMENT BillTo (FirstName, LastName, MiddleName?, NameSuffix?,
Address1?, Address2?, City, State?, Zip?, CompanyName?, Email, Country,
Title?, Phone, IPAddress?, Hostname?, UserName?, CustomerID?)>
<!--ELEMENT FirstName (#PCDATA)>
<!--ELEMENT LastName (#PCDATA)>
<!--ELEMENT MiddleName (#PCDATA)>
<!--ELEMENT NameSuffix (#PCDATA)>
<!--ELEMENT Address1 (#PCDATA)>
<!--ELEMENT Address2 (#PCDATA)>
<!--ELEMENT City (#PCDATA)>
<!--ELEMENT State (#PCDATA)>
<!--ELEMENT Zip (#PCDATA)>
<!--ELEMENT CompanyName (#PCDATA)>
<!--ELEMENT Email (#PCDATA)>
<!--ELEMENT Country (#PCDATA)>

```

```

<!ELEMENT Title (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT IPAddress (#PCDATA)>
<!ELEMENT Hostname (#PCDATA)>
<!ELEMENT UserName (#PCDATA)>
<!ELEMENT CustomerID (#PCDATA)>
<!ELEMENT ShipTo (FirstName?, LastName?, Address1?, Address2?, City?,
State?, Zip?, CompanyName?, Country?, Phone?)>
<!ELEMENT Shipping (Method, Carrier)>
<!ELEMENT Method (#PCDATA)>
<!ELEMENT Carrier (#PCDATA)>
<!ELEMENT PaymentMethod (Card | Check)>
<!ELEMENT Card (AccountSuffix, ExpirationMonth, ExpirationYear,
StartMonth?, StartYear?, IssueNumber?, CardType)>
<!ELEMENT AccountSuffix (#PCDATA)>
<!ELEMENT ExpirationMonth (#PCDATA)>
<!ELEMENT ExpirationYear (#PCDATA)>
<!ELEMENT StartMonth (#PCDATA)>
<!ELEMENT StartYear (#PCDATA)>
<!ELEMENT IssueNumber (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT Check (AccountSuffix, CheckNumber)>
<!ELEMENT CheckNumber (#PCDATA)>
<!ELEMENT LineItems (LineItem)*>
<!ELEMENT LineItem (FulfillmentType, Quantity?, UnitPrice, TaxAmount?,
MerchantProductSKU?, ProductName?, ProductCode?)>
<!ATTLIST LineItem Number CDATA #REQUIRED>
<!ELEMENT FulfillmentType (#PCDATA)>
<!ELEMENT Quantity (#PCDATA)>
<!ELEMENT UnitPrice (#PCDATA)>
<!ELEMENT TaxAmount (#PCDATA)>
<!ELEMENT MerchantProductSKU (#PCDATA)>
<!ELEMENT ProductCode (#PCDATA)>
<!ELEMENT ProductName (#PCDATA)>
<!ELEMENT ApplicationReplies (ApplicationReply)*>
<!ELEMENT ApplicationReply (RCode, RFlag, RMsg?)>
<!ATTLIST ApplicationReply Name CDATA #REQUIRED>
<!ELEMENT RCode (#PCDATA)>
<!ELEMENT RFlag (#PCDATA)>
<!ELEMENT RMsg (#PCDATA)>
<!ELEMENT PaymentData (PaymentRequestID?, PaymentProcessor?, Amount?,
CurrencyCode?, TotalTaxAmount?, AuthorizationType?, AuthorizationCode?,
AVSResult?, AVSResultMapped?, CVResult?, ProcessorResponseCode?,
PayerAuthenticationInfo?, EventType?)>
<!ELEMENT PaymentRequestID (#PCDATA)>
<!ELEMENT PaymentProcessor (#PCDATA)>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT CurrencyCode (#PCDATA)>
<!ELEMENT TotalTaxAmount (#PCDATA)>
<!ELEMENT AuthorizationType (#PCDATA)>
<!ELEMENT AuthorizationCode (#PCDATA)>
<!ELEMENT AVSResult (#PCDATA)>
<!ELEMENT AVSResultMapped (#PCDATA)>
<!ELEMENT CVResult (#PCDATA)>

```

```

<!ELEMENT ProcessorResponseCode (#PCDATA)>
<!ELEMENT PayerAuthenticationInfo (ECI?, AAV_CAVV?, XID?)>
<!ELEMENT ECI (#PCDATA)>
<!ELEMENT AAV_CAVV (#PCDATA)>
<!ELEMENT XID (#PCDATA)>
<!ELEMENT EventType (#PCDATA)>
<!ELEMENT MerchantDefinedData (field1?, field2?, field3?, field4?,
field5?, field6?, field7?, field8?, field9?, field10?, field11?, field12?,
field13?, field14?, field15?, field16?, field17?, field18?, field19?,
field20?)>
<!ELEMENT field1 (#PCDATA)>
<!ATTLIST field1 name CDATA #IMPLIED>
<!ELEMENT field2 (#PCDATA)>
<!ATTLIST field2 name CDATA #IMPLIED>
<!ELEMENT field3 (#PCDATA)>
<!ATTLIST field3 name CDATA #IMPLIED>
<!ELEMENT field4 (#PCDATA)>
<!ATTLIST field4 name CDATA #IMPLIED>
<!ELEMENT field5 (#PCDATA)>
<!ATTLIST field5 name CDATA #IMPLIED>
<!ELEMENT field6 (#PCDATA)>
<!ATTLIST field6 name CDATA #IMPLIED>
<!ELEMENT field7 (#PCDATA)>
<!ATTLIST field7 name CDATA #IMPLIED>
<!ELEMENT field8 (#PCDATA)>
<!ATTLIST field8 name CDATA #IMPLIED>
<!ELEMENT field9 (#PCDATA)>
<!ATTLIST field9 name CDATA #IMPLIED>
<!ELEMENT field10 (#PCDATA)>
<!ATTLIST field10 name CDATA #IMPLIED>
<!ELEMENT field11 (#PCDATA)>
<!ATTLIST field11 name CDATA #IMPLIED>
<!ELEMENT field12 (#PCDATA)>
<!ATTLIST field12 name CDATA #IMPLIED>
<!ELEMENT field13 (#PCDATA)>
<!ATTLIST field13 name CDATA #IMPLIED>
<!ELEMENT field14 (#PCDATA)>
<!ATTLIST field14 name CDATA #IMPLIED>
<!ELEMENT field15 (#PCDATA)>
<!ATTLIST field15 name CDATA #IMPLIED>
<!ELEMENT field16 (#PCDATA)>
<!ATTLIST field16 name CDATA #IMPLIED>
<!ELEMENT field17 (#PCDATA)>
<!ATTLIST field17 name CDATA #IMPLIED>
<!ELEMENT field18 (#PCDATA)>
<!ATTLIST field18 name CDATA #IMPLIED>
<!ELEMENT field19 (#PCDATA)>
<!ATTLIST field19 name CDATA #IMPLIED>
<!ELEMENT field20 (#PCDATA)>
<!ATTLIST field20 name CDATA #IMPLIED>
<!ELEMENT RiskData (Factors?, HostSeverity?, Score?, TimeLocal?,
ConsumerPasswordProvided?, LostPassword?, RepeatCustomer?,
CookiesAccepted?, ConsumerLoyalty?, ConsumerPromotions?, GiftWrap?,
ReturnsAccepted?, ProductRisk?, AppliedThreshold?, AppliedTimeHedge,

```

```

AppliedVelocityHedge, AppliedHostHedge, AppliedCategoryGift,
AppliedCategoryTime, AppliedAVS?, AppliedCV?)>
<!ELEMENT Factors (#PCDATA)>
<!ELEMENT HostSeverity (#PCDATA)>
<!ELEMENT Score (#PCDATA)>
<!ELEMENT TimeLocal (#PCDATA)>
<!ELEMENT ConsumerPasswordProvided (#PCDATA)>
<!ELEMENT LostPassword (#PCDATA)>
<!ELEMENT RepeatCustomer (#PCDATA)>
<!ELEMENT CookiesAccepted (#PCDATA)>
<!ELEMENT ConsumerLoyalty (#PCDATA)>
<!ELEMENT ConsumerPromotions (#PCDATA)>
<!ELEMENT GiftWrap (#PCDATA)>
<!ELEMENT ReturnsAccepted (#PCDATA)>
<!ELEMENT ProductRisk (#PCDATA)>
<!ELEMENT AppliedThreshold (#PCDATA)>
<!ELEMENT AppliedTimeHedge (#PCDATA)>
<!ELEMENT AppliedVelocityHedge (#PCDATA)>
<!ELEMENT AppliedHostHedge (#PCDATA)>
<!ELEMENT AppliedCategoryGift (#PCDATA)>
<!ELEMENT AppliedCategoryTime (#PCDATA)>
<!ELEMENT AppliedAVS (#PCDATA)>
<!ELEMENT AppliedCV (#PCDATA)>
<!ELEMENT ProfileList (Profile)+>
<!ELEMENT Profile (ProfileMode, ProfileDecision, RuleList)>
<!ATTLIST Profile Name CDATA #REQUIRED>
<!ELEMENT ProfileMode (#PCDATA)>
<!ELEMENT ProfileDecision (#PCDATA)>
<!ELEMENT RuleList (Rule)*>
<!ELEMENT Rule (RuleName, RuleDecision)>
<!ELEMENT RuleName (#PCDATA)>
<!ELEMENT RuleDecision (#PCDATA)>

```

Example

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE Report SYSTEM "https://ebctest.cybersource.com/ebctest/reports/
dtd/tdr_1_3.dtd">
<Report xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/tdr_1_
3.dtd"
    Name="Transaction Detail"
    Version="1.3" MerchantID="testMerchant"
    ReportStartDate="2008-09-10 21:46:41.765-08:00"
    ReportEndDate="2008-09-10 21:46:41.765-08:00">
  <Requests>
    <Request MerchantReferenceNumber="33038191"
      RequestDate="2008-09-10T14:00:08-08:00"
      RequestID="2210804330010167904567"
      SubscriptionID=""
      Source="SCMP API"
      User="merchant123"
      TransactionReferenceNumber="0001094522"
    >

```

```

        PredecessorRequestID="7904567221330010160804">
<BillTo>
  <FirstName>JANE</FirstName>
  <LastName>Smith</LastName>
  <Address1>1295 Charleston Rd</Address1>
  <Address2>Suite 2</Address2>
  <City>Mountain View</City>
  <State>CA</State>
  <Zip>06513</Zip>
  <Email>null@cybersource.com</Email>
  <Country>US</Country>
</BillTo>
<ShipTo>
  <FirstName>JANE</FirstName>
  <LastName>SMITH</LastName>
  <Address1>1295 Charleston Rd</Address1>
  <Address2>Suite 2</Address2>
  <City>Mountain View</City>
  <State>CA</State>
  <Zip>94043</Zip>
  <Country>US</Country>
</ShipTo>
<PaymentMethod>
  <Card>
    <AccountSuffix>1111</AccountSuffix>
    <ExpirationMonth>11</ExpirationMonth>
    <ExpirationYear>2011</ExpirationYear>
    <CardType>Visa</CardType>
  </Card>
</PaymentMethod>
<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_bill">
    <RCode>1</RCode>
    <RFlag>SOK</RFlag>
    <RMsg>Request was processed successfully.</RMsg>
  </ApplicationReply>
</ApplicationReplies>
<PaymentData>
  <PaymentProcessor>vital</PaymentProcessor>
  <Amount>1.81</Amount>
  <CurrencyCode>eur</CurrencyCode>
  <TotalTaxAmount>0.25</TotalTaxAmount>

```

```

        <EventType>TRANSMITTED</EventType>
    </PaymentData>
</Request>
</Requests>
</Report>

```

Version 1.2

The new element is <EventType>; the new attribute is TransactionReferenceNumber.

DTD

```

<!ELEMENT Report (Requests)>
<!ATTLIST Report MerchantID CDATA #REQUIRED
                  Name CDATA #REQUIRED
                  ReportStartDate CDATA #REQUIRED
                  ReportEndDate CDATA #REQUIRED
                  Version NMTOKEN #REQUIRED
                  xmlns CDATA #REQUIRED>
<!ELEMENT Requests (Request)*>
<!ELEMENT Request (BillTo, ShipTo?, Shipping?, PaymentMethod, LineItems?,
ApplicationReplies, PaymentData?, MerchantDefinedData?, RiskData?,
ProfileList?)>
<!ATTLIST Request MerchantReferenceNumber CDATA #REQUIRED
                  RequestDate CDATA #REQUIRED
                  RequestID CDATA #REQUIRED
                  SubscriptionID CDATA #IMPLIED
                  Source CDATA #IMPLIED
                  Comments CDATA #IMPLIED
                  TransactionReferenceNumber CDATA #IMPLIED>
<!ELEMENT BillTo (FirstName, LastName, MiddleName?, NameSuffix?,
Address1?, Address2?, City, State?, Zip?, CompanyName?, Email, Country,
Title?, Phone, IPAddress?, Hostname?, UserName?, CustomerID?)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT MiddleName (#PCDATA)>
<!ELEMENT NameSuffix (#PCDATA)>
<!ELEMENT Address1 (#PCDATA)>
<!ELEMENT Address2 (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT CompanyName (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT Title (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT IPAddress (#PCDATA)>

```

```

<!ELEMENT Hostname (#PCDATA)>
<!ELEMENT UserName (#PCDATA)>
<!ELEMENT CustomerID (#PCDATA)>
<!ELEMENT ShipTo (FirstName?, LastName?, Address1?, Address2?, City?,
State?, Zip?, CompanyName?, Country?, Phone?)>
<!ELEMENT Shipping (Method, Carrier)>
<!ELEMENT Method (#PCDATA)>
<!ELEMENT Carrier (#PCDATA)>
<!ELEMENT PaymentMethod (Card | Check)>
<!ELEMENT Card (AccountSuffix, ExpirationMonth, ExpirationYear,
StartMonth?, StartYear?, IssueNumber?, CardType)>
<!ELEMENT AccountSuffix (#PCDATA)>
<!ELEMENT ExpirationMonth (#PCDATA)>
<!ELEMENT ExpirationYear (#PCDATA)>
<!ELEMENT StartMonth (#PCDATA)>
<!ELEMENT StartYear (#PCDATA)>
<!ELEMENT IssueNumber (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT Check (AccountSuffix, CheckNumber)>
<!ELEMENT CheckNumber (#PCDATA)>
<!ELEMENT LineItems (LineItem)*>
<!ELEMENT LineItem (FulfillmentType, Quantity?, UnitPrice, TaxAmount?,
MerchantProductSKU?, ProductName?, ProductCode?)>
<!ATTLIST LineItem Number CDATA #REQUIRED>
<!ELEMENT FulfillmentType (#PCDATA)>
<!ELEMENT Quantity (#PCDATA)>
<!ELEMENT UnitPrice (#PCDATA)>
<!ELEMENT TaxAmount (#PCDATA)>
<!ELEMENT MerchantProductSKU (#PCDATA)>
<!ELEMENT ProductCode (#PCDATA)>
<!ELEMENT ProductName (#PCDATA)>
<!ELEMENT ApplicationReplies (ApplicationReply)*>
<!ELEMENT ApplicationReply (RCode, RFlag, RMsg?)>
<!ATTLIST ApplicationReply Name CDATA #REQUIRED>
<!ELEMENT RCode (#PCDATA)>
<!ELEMENT RFlag (#PCDATA)>
<!ELEMENT RMsg (#PCDATA)>
<!ELEMENT PaymentData (PaymentRequestID?, PaymentProcessor?, Amount?,
CurrencyCode?, TotalTaxAmount?, AuthorizationType?, AuthorizationCode?,
AVSResult?, AVSResultMapped?, CVResult?, ProcessorResponseCode?,
PayerAuthenticationInfo?, EventType?)>
<!ELEMENT PaymentRequestID (#PCDATA)>
<!ELEMENT PaymentProcessor (#PCDATA)>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT CurrencyCode (#PCDATA)>
<!ELEMENT TotalTaxAmount (#PCDATA)>
<!ELEMENT AuthorizationType (#PCDATA)>
<!ELEMENT AuthorizationCode (#PCDATA)>
<!ELEMENT AVSResult (#PCDATA)>
<!ELEMENT AVSResultMapped (#PCDATA)>
<!ELEMENT CVResult (#PCDATA)>
<!ELEMENT ProcessorResponseCode (#PCDATA)>
<!ELEMENT PayerAuthenticationInfo (ECI?, AAV_CAVV?, XID?)>
<!ELEMENT ECI (#PCDATA)>

```



```

<!ELEMENT AAV_CAVV (#PCDATA)>
<!ELEMENT XID (#PCDATA)>
<!ELEMENT EventType (#PCDATA)>
<!ELEMENT MerchantDefinedData (field1?, field2?, field3?, field4?,
field5?, field6?, field7?, field8?, field9?, field10?, field11?, field12?,
field13?, field14?, field15?, field16?, field17?, field18?, field19?,
field20?)>
<!ELEMENT field1 (#PCDATA)>
<!ATTLIST field1 name CDATA #IMPLIED>
<!ELEMENT field2 (#PCDATA)>
<!ATTLIST field2 name CDATA #IMPLIED>
<!ELEMENT field3 (#PCDATA)>
<!ATTLIST field3 name CDATA #IMPLIED>
<!ELEMENT field4 (#PCDATA)>
<!ATTLIST field4 name CDATA #IMPLIED>
<!ELEMENT field5 (#PCDATA)>
<!ATTLIST field5 name CDATA #IMPLIED>
<!ELEMENT field6 (#PCDATA)>
<!ATTLIST field6 name CDATA #IMPLIED>
<!ELEMENT field7 (#PCDATA)>
<!ATTLIST field7 name CDATA #IMPLIED>
<!ELEMENT field8 (#PCDATA)>
<!ATTLIST field8 name CDATA #IMPLIED>
<!ELEMENT field9 (#PCDATA)>
<!ATTLIST field9 name CDATA #IMPLIED>
<!ELEMENT field10 (#PCDATA)>
<!ATTLIST field10 name CDATA #IMPLIED>
<!ELEMENT field11 (#PCDATA)>
<!ATTLIST field11 name CDATA #IMPLIED>
<!ELEMENT field12 (#PCDATA)>
<!ATTLIST field12 name CDATA #IMPLIED>
<!ELEMENT field13 (#PCDATA)>
<!ATTLIST field13 name CDATA #IMPLIED>
<!ELEMENT field14 (#PCDATA)>
<!ATTLIST field14 name CDATA #IMPLIED>
<!ELEMENT field15 (#PCDATA)>
<!ATTLIST field15 name CDATA #IMPLIED>
<!ELEMENT field16 (#PCDATA)>
<!ATTLIST field16 name CDATA #IMPLIED>
<!ELEMENT field17 (#PCDATA)>
<!ATTLIST field17 name CDATA #IMPLIED>
<!ELEMENT field18 (#PCDATA)>
<!ATTLIST field18 name CDATA #IMPLIED>
<!ELEMENT field19 (#PCDATA)>
<!ATTLIST field19 name CDATA #IMPLIED>
<!ELEMENT field20 (#PCDATA)>
<!ATTLIST field20 name CDATA #IMPLIED>
<!ELEMENT RiskData (Factors?, HostSeverity?, Score?, TimeLocal?,
ConsumerPasswordProvided?, LostPassword?, RepeatCustomer?,
CookiesAccepted?, ConsumerLoyalty?, ConsumerPromotions?, GiftWrap?,
ReturnsAccepted?, ProductRisk?, AppliedThreshold?, AppliedTimeHedge,
AppliedVelocityHedge, AppliedHostHedge, AppliedCategoryGift,
AppliedCategoryTime, AppliedAVS?, AppliedCV?)>
<!ELEMENT Factors (#PCDATA)>

```

```

<!ELEMENT HostSeverity (#PCDATA)>
<!ELEMENT Score (#PCDATA)>
<!ELEMENT TimeLocal (#PCDATA)>
<!ELEMENT ConsumerPasswordProvided (#PCDATA)>
<!ELEMENT LostPassword (#PCDATA)>
<!ELEMENT RepeatCustomer (#PCDATA)>
<!ELEMENT CookiesAccepted (#PCDATA)>
<!ELEMENT ConsumerLoyalty (#PCDATA)>
<!ELEMENT ConsumerPromotions (#PCDATA)>
<!ELEMENT GiftWrap (#PCDATA)>
<!ELEMENT ReturnsAccepted (#PCDATA)>
<!ELEMENT ProductRisk (#PCDATA)>
<!ELEMENT AppliedThreshold (#PCDATA)>
<!ELEMENT AppliedTimeHedge (#PCDATA)>
<!ELEMENT AppliedVelocityHedge (#PCDATA)>
<!ELEMENT AppliedHostHedge (#PCDATA)>
<!ELEMENT AppliedCategoryGift (#PCDATA)>
<!ELEMENT AppliedCategoryTime (#PCDATA)>
<!ELEMENT AppliedAVS (#PCDATA)>
<!ELEMENT AppliedCV (#PCDATA)>
<!ELEMENT ProfileList (Profile)+>
<!ELEMENT Profile (ProfileMode, ProfileDecision, RuleList)>
<!ATTLIST Profile Name CDATA #REQUIRED>
<!ELEMENT ProfileMode (#PCDATA)>
<!ELEMENT ProfileDecision (#PCDATA)>
<!ELEMENT RuleList (Rule)*>
<!ELEMENT Rule (RuleName,RuleDecision)>
<!ELEMENT RuleName (#PCDATA)>
<!ELEMENT RuleDecision (#PCDATA)>

```

Example with China Payment

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE Report SYSTEM "https://ebc.cybersource.com/ebc/reports/dtd/tdr_1_2.dtd">
<Report Name="Transaction Detail"
  Version="1.2"
  xmlns="https://ebc.cybersource.com/ebc/reports/dtd/tdr_1_2.dtd"
  MerchantID="CyberSource"
  ReportStartDate="2008-04-01T07:00:00-07:00"
  ReportEndDate="2008-04-02T07:00:00-07:00">
  <Requests>
    <Request RequestID="0004223530000167905139"
      RequestDate="2008-05-01T07:42:03-07:00"
      MerchantReferenceNumber="3C515C71D48F631"
      Comments="rush order"
      TransactionReferenceNumber="20080110_1684_370597149">
    <BillTo>
      <FirstName>John</FirstName>
      <LastName>Doe</LastName>
      <MiddleName>A</MiddleName>
      <Address1>1295 Charleston Rd.</Address1>
    </BillTo>
  </Request>
</Requests>
</Report>

```

```

<City>Mountain View</City>
<State>CA</State>
<Zip>94043</Zip>
<CompanyName>CyberSource</CompanyName>
<Email>example@example.com</Email>
<Country>US</Country>
<Phone>650-965-6000</Phone>
<IPAddress>xxx.xxx.xxx.xxx</IPAddress>
<HostName>hostname.cybersource.com</HostName>
<UserName>jdoe</UserName>
<CustomerID>jdoe94043</CustomerID>
</BillTo>
<ShipTo>
  <FirstName>John</FirstName>
  <LastName>Doe</LastName>
  <MiddleName>A</MiddleName>
  <Address1>1295 Charleston Rd.</Address1>
  <City>Mountain View</City>
  <State>CA</State>
  <Zip>94043</Zip>
  <CompanyName>CyberSource</CompanyName>
  <Email>example@example.com</Email>
  <Country>US</Country>
  <Phone>650-965-6000</Phone>
</ShipTo>
<PaymentMethod>
  <Card>
    <AccountSuffix>1111</AccountSuffix>
    <ExpirationMonth>12</ExpirationMonth>
    <ExpirationYear>2009</ExpirationYear>
    <CardType>Visa</CardType>
  </Card>
</PaymentMethod>
<LineItems>
  <LineItem Number="0">
    <FulfillmentType>PH</FulfillmentType>
    <Quantity>1</Quantity>
    <UnitPrice>50.00</UnitPrice>
    <TaxAmount>1.86</TaxAmount>
    <MerchantProductSKU>PROD001</MerchantProductSKU>
    <ProductName>Sample Product One</ProductName>
  </LineItem>
  <LineItem Number="1">
    <FulfillmentType>DI</FulfillmentType>
    <Quantity>1</Quantity>
    <UnitPrice>35.81</UnitPrice>
    <TaxAmount>1.29</TaxAmount>
    <MerchantProductSKU>PROD002</MerchantProductSKU>
    <ProductName>Sample Product Two</ProductName>
    <ProductCode>electronic_software</ProductCode>
  </LineItem>
</LineItems>
<ApplicationReplies>

```

```

    <ApplicationReply Name="ics_china_payment">
      <RCode>1</RCode>
      <RFlag>SOK</RFlag>
      <RMsg>ok</RMsg>
    </ApplicationReply>
  </ApplicationReplies>
  <PaymentData>
    <PaymentRequestID>0004899920000167905139</PaymentRequestID>
    <PaymentProcessor>payeasecn</PaymentProcessor>
    <Amount>88.96</Amount>
    <CurrencyCode>USD</CurrencyCode>
    <TotalTaxAmount>3.15</TotalTaxAmount>
    <ProcessorResponseCode>100</ProcessorResponseCode>
    <EventType>Payment Settled</EventType>
  </PaymentData>
</Request>
</Requests>
</Report>

```

Version 1.1

The new elements are <CustomerID> and <MerchantDefinedData>; the new attribute is Comments.

DTD

```

<!ELEMENT Report (Requests)>
<!ATTLIST Report MerchantID CDATA #REQUIRED
                  Name CDATA #REQUIRED
                  ReportStartDate CDATA #REQUIRED
                  ReportEndDate CDATA #REQUIRED
                  Version NMTOKEN #REQUIRED
                  xmlns CDATA #REQUIRED>
<!ELEMENT Requests (Request)*>
<!ELEMENT Request (BillTo, ShipTo?, Shipping?, PaymentMethod, LineItems?,
ApplicationReplies, PaymentData?, MerchantDefinedData?, RiskData?,
ProfileList?)>
<!ATTLIST Request MerchantReferenceNumber CDATA #REQUIRED
                  RequestDate CDATA #REQUIRED
                  RequestID CDATA #REQUIRED
                  SubscriptionID CDATA #IMPLIED
                  Source CDATA #IMPLIED
                  Comments CDATA #IMPLIED>
<!ELEMENT BillTo (FirstName, LastName, MiddleName?, NameSuffix?,
Address1?, Address2?, City, State?, Zip?, CompanyName?, Email, Country,
Title?, Phone, IPAddress?, Hostname?, UserName?, CustomerID?)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT MiddleName (#PCDATA)>

```

```

<!ELEMENT NameSuffix (#PCDATA)>
<!ELEMENT Address1 (#PCDATA)>
<!ELEMENT Address2 (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT CompanyName (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT Title (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT IPAddress (#PCDATA)>
<!ELEMENT Hostname (#PCDATA)>
<!ELEMENT UserName (#PCDATA)>
<!ELEMENT CustomerID (#PCDATA)>
<!ELEMENT ShipTo (FirstName?, LastName?, Address1?, Address2?, City?,
State?, Zip?, CompanyName?, Country?, Phone?)>
<!ELEMENT Shipping (Method, Carrier)>
<!ELEMENT Method (#PCDATA)>
<!ELEMENT Carrier (#PCDATA)>
<!ELEMENT PaymentMethod (Card | Check)>
<!ELEMENT Card (AccountSuffix, ExpirationMonth, ExpirationYear,
StartMonth?, StartYear?, IssueNumber?, CardType)>
<!ELEMENT AccountSuffix (#PCDATA)>
<!ELEMENT ExpirationMonth (#PCDATA)>
<!ELEMENT ExpirationYear (#PCDATA)>
<!ELEMENT StartMonth (#PCDATA)>
<!ELEMENT StartYear (#PCDATA)>
<!ELEMENT IssueNumber (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT Check (AccountSuffix, CheckNumber)>
<!ELEMENT CheckNumber (#PCDATA)>
<!ELEMENT LineItems (LineItem)*>
<!ELEMENT LineItem (FulfillmentType, Quantity?, UnitPrice, TaxAmount?,
MerchantProductSKU?, ProductName?, ProductCode?)>
<!ATTLIST LineItem Number CDATA #REQUIRED>
<!ELEMENT FulfillmentType (#PCDATA)>
<!ELEMENT Quantity (#PCDATA)>
<!ELEMENT UnitPrice (#PCDATA)>
<!ELEMENT TaxAmount (#PCDATA)>
<!ELEMENT MerchantProductSKU (#PCDATA)>
<!ELEMENT ProductCode (#PCDATA)>
<!ELEMENT ProductName (#PCDATA)>
<!ELEMENT ApplicationReplies (ApplicationReply)*>
<!ELEMENT ApplicationReply (RCode, RFlag, RMsg?)>
<!ATTLIST ApplicationReply Name CDATA #REQUIRED>
<!ELEMENT RCode (#PCDATA)>
<!ELEMENT RFlag (#PCDATA)>
<!ELEMENT RMsg (#PCDATA)>
<!ELEMENT PaymentData (PaymentRequestID, PaymentProcessor, Amount,
CurrencyCode, TotalTaxAmount?, AuthorizationType?, AuthorizationCode?,
AVSResult?, AVSResultMapped?, CVResult?, ProcessorResponseCode?),
PayerAuthenticationInfo?)>
<!ELEMENT PaymentRequestID (#PCDATA)>

```

```

<!ELEMENT PaymentProcessor (#PCDATA)>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT CurrencyCode (#PCDATA)>
<!ELEMENT TotalTaxAmount (#PCDATA)>
<!ELEMENT AuthorizationType (#PCDATA)>
<!ELEMENT AuthorizationCode (#PCDATA)>
<!ELEMENT AVSResult (#PCDATA)>
<!ELEMENT AVSResultMapped (#PCDATA)>
<!ELEMENT CVResult (#PCDATA)>
<!ELEMENT ProcessorResponseCode (#PCDATA)>
<!ELEMENT PayerAuthenticationInfo (ECI?, AAV_CAVV?, XID?)>
<!ELEMENT ECI (#PCDATA)>
<!ELEMENT AAV_CAVV (#PCDATA)>
<!ELEMENT XID (#PCDATA)>
<!ELEMENT MerchantDefinedData (field1?, field2?, field3?, field4?,
field5?, field6?, field7?, field8?, field9?, field10?, field11?, field12?,
field13?, field14?, field15?, field16?, field17?, field18?, field19?,
field20?)>
<!ELEMENT field1 (#PCDATA)>
<!ATTLIST field1 name CDATA #IMPLIED>
<!ELEMENT field2 (#PCDATA)>
<!ATTLIST field2 name CDATA #IMPLIED>
<!ELEMENT field3 (#PCDATA)>
<!ATTLIST field3 name CDATA #IMPLIED>
<!ELEMENT field4 (#PCDATA)>
<!ATTLIST field4 name CDATA #IMPLIED>
<!ELEMENT field5 (#PCDATA)>
<!ATTLIST field5 name CDATA #IMPLIED>
<!ELEMENT field6 (#PCDATA)>
<!ATTLIST field6 name CDATA #IMPLIED>
<!ELEMENT field7 (#PCDATA)>
<!ATTLIST field7 name CDATA #IMPLIED>
<!ELEMENT field8 (#PCDATA)>
<!ATTLIST field8 name CDATA #IMPLIED>
<!ELEMENT field9 (#PCDATA)>
<!ATTLIST field9 name CDATA #IMPLIED>
<!ELEMENT field10 (#PCDATA)>
<!ATTLIST field10 name CDATA #IMPLIED>
<!ELEMENT field11 (#PCDATA)>
<!ATTLIST field11 name CDATA #IMPLIED>
<!ELEMENT field12 (#PCDATA)>
<!ATTLIST field12 name CDATA #IMPLIED>
<!ELEMENT field13 (#PCDATA)>
<!ATTLIST field13 name CDATA #IMPLIED>
<!ELEMENT field14 (#PCDATA)>
<!ATTLIST field14 name CDATA #IMPLIED>
<!ELEMENT field15 (#PCDATA)>
<!ATTLIST field15 name CDATA #IMPLIED>
<!ELEMENT field16 (#PCDATA)>
<!ATTLIST field16 name CDATA #IMPLIED>
<!ELEMENT field17 (#PCDATA)>
<!ATTLIST field17 name CDATA #IMPLIED>
<!ELEMENT field18 (#PCDATA)>

```

```

<!ATTLIST field18 name CDATA #IMPLIED>
<!ELEMENT field19 (#PCDATA)>
<!ATTLIST field19 name CDATA #IMPLIED>
<!ELEMENT field20 (#PCDATA)>
<!ATTLIST field20 name CDATA #IMPLIED>
<!ELEMENT RiskData (Factors?, HostSeverity?, Score?, TimeLocal?,
ConsumerPasswordProvided?, LostPassword?, RepeatCustomer?,
CookiesAccepted?, ConsumerLoyalty?, ConsumerPromotions?, GiftWrap?,
ReturnsAccepted?, ProductRisk?, AppliedThreshold?, AppliedTimeHedge,
AppliedVelocityHedge, AppliedHostHedge, AppliedCategoryGift,
AppliedCategoryTime, AppliedAVS?, AppliedCV?)>
<!ELEMENT Factors (#PCDATA)>
<!ELEMENT HostSeverity (#PCDATA)>
<!ELEMENT Score (#PCDATA)>
<!ELEMENT TimeLocal (#PCDATA)>
<!ELEMENT ConsumerPasswordProvided (#PCDATA)>
<!ELEMENT LostPassword (#PCDATA)>
<!ELEMENT RepeatCustomer (#PCDATA)>
<!ELEMENT CookiesAccepted (#PCDATA)>
<!ELEMENT ConsumerLoyalty (#PCDATA)>
<!ELEMENT ConsumerPromotions (#PCDATA)>
<!ELEMENT GiftWrap (#PCDATA)>
<!ELEMENT ReturnsAccepted (#PCDATA)>
<!ELEMENT ProductRisk (#PCDATA)>
<!ELEMENT AppliedThreshold (#PCDATA)>
<!ELEMENT AppliedTimeHedge (#PCDATA)>
<!ELEMENT AppliedVelocityHedge (#PCDATA)>
<!ELEMENT AppliedHostHedge (#PCDATA)>
<!ELEMENT AppliedCategoryGift (#PCDATA)>
<!ELEMENT AppliedCategoryTime (#PCDATA)>
<!ELEMENT AppliedAVS (#PCDATA)>
<!ELEMENT AppliedCV (#PCDATA)>
<!ELEMENT ProfileList (Profile)+>
<!ELEMENT Profile (ProfileMode, ProfileDecision, RuleList)>
<!ATTLIST Profile Name CDATA #REQUIRED>
<!ELEMENT ProfileMode (#PCDATA)>
<!ELEMENT ProfileDecision (#PCDATA)>
<!ELEMENT RuleList (Rule)*>
<!ELEMENT Rule (RuleName, RuleDecision)>
<!ELEMENT RuleName (#PCDATA)>
<!ELEMENT RuleDecision (#PCDATA)>

```

Version 1.0

This is the default version.

DTD

```

<!ELEMENT Report (Requests)>

```

```

<!ATTLIST Report MerchantID CDATA #REQUIRED
                  Name CDATA #REQUIRED
                  ReportStartDate CDATA #REQUIRED
                  ReportEndDate CDATA #REQUIRED
                  Version NMTOKEN #REQUIRED
                  xmlns CDATA #REQUIRED>
<!ELEMENT Requests (Request)*>
<!ELEMENT Request (BillTo?, ShipTo?, Shipping?, PaymentMethod, LineItems?,
ApplicationReplies, PaymentData?, RiskData?, ProfileList?)>
<!ATTLIST Request MerchantReferenceNumber CDATA #REQUIRED
                  RequestDate CDATA #REQUIRED
                  RequestID CDATA #REQUIRED
                  SubscriptionID CDATA #IMPLIED
                  Source CDATA #IMPLIED>
<!ELEMENT BillTo (FirstName, LastName, MiddleName?, NameSuffix?,
Address1?, Address2?, City, State?, Zip?, CompanyName?, Email, Country,
Title?, Phone, IPAddress?, Hostname?, UserName?)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT MiddleName (#PCDATA)>
<!ELEMENT NameSuffix (#PCDATA)>
<!ELEMENT Address1 (#PCDATA)>
<!ELEMENT Address2 (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT CompanyName (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT Title (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT IPAddress (#PCDATA)>
<!ELEMENT Hostname (#PCDATA)>
<!ELEMENT UserName (#PCDATA)>
<!ELEMENT ShipTo (FirstName?, LastName?, Address1?, Address2?, City?,
State?, Zip?, CompanyName?, Country?, Phone?)>
<!ELEMENT Shipping (Method, Carrier)>
<!ELEMENT Method (#PCDATA)>
<!ELEMENT Carrier (#PCDATA)>
<!ELEMENT PaymentMethod (Card | Check)>
<!ELEMENT Card (AccountSuffix, ExpirationMonth, ExpirationYear,
StartMonth?, StartYear?, IssueNumber?, CardType)>
<!ELEMENT AccountSuffix (#PCDATA)>
<!ELEMENT ExpirationMonth (#PCDATA)>
<!ELEMENT ExpirationYear (#PCDATA)>
<!ELEMENT StartMonth (#PCDATA)>
<!ELEMENT StartYear (#PCDATA)>
<!ELEMENT IssueNumber (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT Check (AccountSuffix, CheckNumber)>
<!ELEMENT CheckNumber (#PCDATA)>
<!ELEMENT LineItems (LineItem)*>
<!ELEMENT LineItem (FulfillmentType, Quantity?, UnitPrice, TaxAmount?,
MerchantProductSKU?, ProductName?, ProductCode?)>

```



```

<!ATTLIST LineItem Number CDATA #REQUIRED>
<!ELEMENT FulfillmentType (#PCDATA)>
<!ELEMENT Quantity (#PCDATA)>
<!ELEMENT UnitPrice (#PCDATA)>
<!ELEMENT TaxAmount (#PCDATA)>
<!ELEMENT MerchantProductSKU (#PCDATA)>
<!ELEMENT ProductCode (#PCDATA)>
<!ELEMENT ProductName (#PCDATA)>
<!ELEMENT ApplicationReplies (ApplicationReply)*>
<!ELEMENT ApplicationReply (RCode, RFlag, RMsg?)>
<!ATTLIST ApplicationReply Name CDATA #REQUIRED>
<!ELEMENT RCode (#PCDATA)>
<!ELEMENT RFlag (#PCDATA)>
<!ELEMENT RMsg (#PCDATA)>
<!ELEMENT PaymentData (PaymentRequestID, PaymentProcessor, Amount,
CurrencyCode, TotalTaxAmount?, AuthorizationType?, AuthorizationCode?,
AVSResult?, AVSResultMapped?, CVResult?, ProcessorResponseCode?),
PayerAuthenticationInfo?)>
<!ELEMENT PaymentRequestID (#PCDATA)>
<!ELEMENT PaymentProcessor (#PCDATA)>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT CurrencyCode (#PCDATA)>
<!ELEMENT TotalTaxAmount (#PCDATA)>
<!ELEMENT AuthorizationType (#PCDATA)>
<!ELEMENT AuthorizationCode (#PCDATA)>
<!ELEMENT AVSResult (#PCDATA)>
<!ELEMENT AVSResultMapped (#PCDATA)>
<!ELEMENT CVResult (#PCDATA)>
<!ELEMENT ProcessorResponseCode (#PCDATA)>
<!ELEMENT PayerAuthenticationInfo (ECI?, AAV_CAVV?, XID?)>
<!ELEMENT ECI (#PCDATA)>
<!ELEMENT AAV_CAVV (#PCDATA)>
<!ELEMENT XID (#PCDATA)>
<!ELEMENT RiskData (Factors?, HostSeverity?, Score?, TimeLocal?,
ConsumerPasswordProvided?, LostPassword?, RepeatCustomer?,
CookiesAccepted?, ConsumerLoyalty?, ConsumerPromotions?, GiftWrap?,
ReturnsAccepted?, ProductRisk?, AppliedThreshold?, AppliedTimeHedge,
AppliedVelocityHedge, AppliedHostHedge, AppliedCategoryGift,
AppliedCategoryTime, AppliedAVS?, AppliedCV?)>
<!ELEMENT Factors (#PCDATA)>
<!ELEMENT HostSeverity (#PCDATA)>
<!ELEMENT Score (#PCDATA)>
<!ELEMENT TimeLocal (#PCDATA)>
<!ELEMENT ConsumerPasswordProvided (#PCDATA)>
<!ELEMENT LostPassword (#PCDATA)>
<!ELEMENT RepeatCustomer (#PCDATA)>
<!ELEMENT CookiesAccepted (#PCDATA)>
<!ELEMENT ConsumerLoyalty (#PCDATA)>
<!ELEMENT ConsumerPromotions (#PCDATA)>
<!ELEMENT GiftWrap (#PCDATA)>
<!ELEMENT ReturnsAccepted (#PCDATA)>
<!ELEMENT ProductRisk (#PCDATA)>
<!ELEMENT AppliedThreshold (#PCDATA)>
<!ELEMENT AppliedTimeHedge (#PCDATA)>

```

```
<!ELEMENT AppliedVelocityHedge (#PCDATA)>
<!ELEMENT AppliedHostHedge (#PCDATA)>
<!ELEMENT AppliedCategoryGift (#PCDATA)>
<!ELEMENT AppliedCategoryTime (#PCDATA)>
<!ELEMENT AppliedAVS (#PCDATA)>
<!ELEMENT AppliedCV (#PCDATA)>
<!ELEMENT ProfileList (Profile)+>
<!ELEMENT Profile (ProfileMode, ProfileDecision, RuleList)>
<!ATTLIST Profile Name CDATA #REQUIRED>
<!ELEMENT ProfileMode (#PCDATA)>
<!ELEMENT ProfileDecision (#PCDATA)>
<!ELEMENT RuleList (Rule)*>
<!ELEMENT Rule (RuleName, RuleDecision)>
<!ELEMENT RuleName (#PCDATA)>
<!ELEMENT RuleDecision (#PCDATA)>
```

Score Information Codes

The following tables list the possible values for the information codes. The value of the <CodeType> element is in parentheses.

Address Information Codes (address)

Codes	Description
COR-BA	The billing address has corrected elements or can be normalized.
COR-SA	The shipping address has corrected elements or can be normalized.
INTL-BA	The billing country is outside of the U.S.
INTL-SA	The shipping country is outside of the U.S.
MIL-USA	The address is a U.S. military address.
MM-A	The billing and shipping addresses use different street addresses.
MM-BIN	The card BIN (the first six digits of the number) does not match the country.
MM-C	The billing and shipping addresses use different cities.
MM-CO	The billing and shipping addresses use different countries.
MM-ST	The billing and shipping addresses use different states.
MM-Z	The billing and shipping addresses use different postal codes.
UNV-ADDR	The address is unverifiable.

Internet Information Codes (internet)

Codes	Description
FREE-EM	The customer's email address is from a free email provider.
INTL-IPCO	The country of the customer's IP address is outside of the U.S.
INV-EM	The customer's email address is invalid.
MM-EMBCO	The domain in the customer's email address is not consistent with the country in the billing address.
MM-IPBC	The customer's IP address is not consistent with the city in the billing address.
MM-IPBCO	The customer's IP address is not consistent with the country in the billing address.
MM-IPBST	The customer's IP address is not consistent with the state in the billing address. However, this information code may not be returned when the inconsistency is between immediately adjacent states.
MM-IPEM	The customer's email address is not consistent with the customer's IP address.
RISK-EM	The customer's email domain (for example, mail.example.com) is associated with higher risk.
UNV-NID	The customer's IP address is from an anonymous proxy. These entities completely hide the IP information.
UNV-RISK	The customer's physical location cannot be verified.
UNV-EMBCO	The country of the customer's email address does not match the country in the billing address.

Customer Lists Information Codes (hotlist)

Codes	Description
CON-POSNEG	The order triggered both a positive and negative list match. The result of the positive list match overrides that of the negative list match.
NEG-BA	The billing address is on the negative list.
NEG-BCO	The billing country is on the negative list.
NEG-BIN	The credit card BIN (the first six digits of the number) is on the negative list.
NEG-BINCO	The country in which the credit card was issued is on the negative list.
NEG-BZC	The billing postal code is on the negative list.
NEG-CC	The credit card number is on the negative list.
NEG-EM	The email address is on the negative list.
NEG-EMCO	The country in which the email address is located is on the negative list.
NEG-EMDOM	The email domain (for example, mail.example.com) is on the negative list.
NEG-HIST	A transaction was found on the negative list.
NEG-ID	The customer's account ID is on the negative list.
NEG-IP	The IP address (for example, xxx.xxx.xxx.xxx) is on the negative list.
NEG-IP3	The network IP address (for example, xxx.xxx.xxx) is on the negative list. A network IP address includes up to 256 IP addresses.
NEG-IPCO	The country in which the IP address is located is on the negative list.
NEG-PEM	A passenger's email address is on the negative list.
NEG-PH	The phone number is on the negative list.
NEG-PID	A passenger's account ID is on the negative list.
NEG-PPH	A passenger's phone number is on the negative list.
NEG-SA	The shipping address is on the negative list.
NEG-SCO	The shipping country is on the negative list.
NEG-SZC	The shipping postal code is on the negative list.
POS-TEMP	The customer is on the temporary positive list.
POS-PERM	The customer is on the permanent positive list.

Phone Information Codes (phone)

Codes	Description
MM-ACBST	The customer's phone number is not consistent with the state in the billing address.
RISK-AC	The customer's area code is associated with higher risk.
RISK-PH	The U.S. or Canadian phone number is incomplete, or one or more parts of the phone number are risky.
TF-AC	The phone number uses a toll-free area code.
UNV-AC	The area code is invalid.
UNV-OC	The area code and/or the telephone prefix are/is invalid.
UNV-PH	The phone number is invalid.

Global Velocity Information Codes (velocity)

Transaction Detail Report Developer Guide



The velocity information codes with the suffix -CC refer not only to credit cards but also to direct debit account numbers.

Codes	Description
VEL-ADDR	Different billing and/or shipping states (U.S. and Canada only) have been used several times with the credit card number and/or email address.
VEL-CC	Different account numbers have been used several times with the same name or email address.
VEL-NAME	Different names have been used several times with the credit card number and/or email address.
VELS-CC	The account number has been used several times during the short tracking interval.
VELI-CC	The account number has been used several times during the medium tracking interval.
VELL-CC	The account number has been used several times during the long tracking interval.

Codes	Description
VELV-CC	The account number has been used several times during the very long tracking interval.
VELS-EM	The customer's email address has been used several times during the short tracking interval.
VELI-EM	The customer's email address has been used several times during the medium tracking interval.
VELL-EM	The customer's email address has been used several times during the long tracking interval.
VELV-EM	The customer's email address has been used several times during the very long tracking interval.
VELS-IP	The IP address has been used several times during the short tracking interval.
VELI-IP	The IP address has been used several times during the medium tracking interval.
VELL-IP	The IP address has been used several times during the long tracking interval.
VELV-IP	The IP address has been used several times during the very long tracking interval.
VELS-SA	The shipping address has been used several times during the short tracking interval.
VELI-SA	The shipping address has been used several times during the medium tracking interval.
VELL-SA	The shipping address has been used several times during the long tracking interval.
VELV-SA	The shipping address has been used several times during the very long tracking interval.

Suspicious Data Information Codes (suspicious)

Codes	Description
INTL-BIN	The credit card was issued outside of the U.S.
MUL-EM	The customer has used more than four different email addresses.
NON-BC	The billing city is nonsensical.
NON-FN	The customer's first name is nonsensical.
NON-LN	The customer's last name is nonsensical.
OBS-BC	The billing city contains obscenities.
OBS-EM	The email address contains obscenities.
RISK-AVS	The combined AVS test result and normalized billing address are risky, such as if the AVS result indicates an exact match, but the normalized billing address is not deliverable.
RISK-BC	The billing city has repeated characters.
RISK-BIN	In the past, this payment card BIN has shown a high incidence of fraud.
RISK-FN	The customer's first and last names contain unlikely letter combinations.
RISK-LN	The customer's middle or last name contains unlikely letter combinations.
RISK-SD	The inconsistency in billing and shipping countries is risky.
RISK-TB	The day and time of the order associated with the billing address is risky.
RISK-TS	The day and time of the order associated with the shipping address is risky.

Excessive Identity Changes (identity)

These codes represent excessive identity changes. You receive an information code when more than two identity changes occur. You can see the information codes in the risk services section of the details page.

Same Digital Fingerprint

Codes	Description
MORPH-FB	The same device fingerprint has been used several times with multiple billing addresses.
MORPH-FC	The same device fingerprint has been used several times with multiple account numbers.
MORPH-FE	The same device fingerprint has been used several times with multiple email addresses.
MORPH-FI	The same device fingerprint has been used several times with multiple IP addresses.
MORPH-FP	The same device fingerprint has been used several times with multiple phone numbers.
MORPH-FS	The same device fingerprint has been used several times with multiple shipping addresses.
NEG-FP	The device fingerprint is on the negative list.
VELS-FP	The same device fingerprint has been used several times during the short tracking interval.
VELI-FP	The same device fingerprint has been used several times during the medium tracking interval.
VELL-FP	The same device fingerprint has been used several times during the long tracking interval.
VELV-FP	The same device fingerprint has been used several times during the very long tracking interval.

Multiple Customer Identities

Customer identity refers to one or more of these elements: account and phone numbers, and billing, shipping, fingerprint, email, and IP addresses.

Codes	Description
MORPH-B	The same billing address has been used several times with multiple customer identities.
MORPH-C	The same account number has been used several times with multiple customer identities.
MORPH-E	The same email address has been used several times with multiple customer identities.
MORPH-I	The same IP address has been used several times with multiple customer identities.

Codes	Description
MORPH-P	The same phone number has been used several times with multiple customer identities.
MORPH-S	The same shipping address has been used several times with multiple customer identities.

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