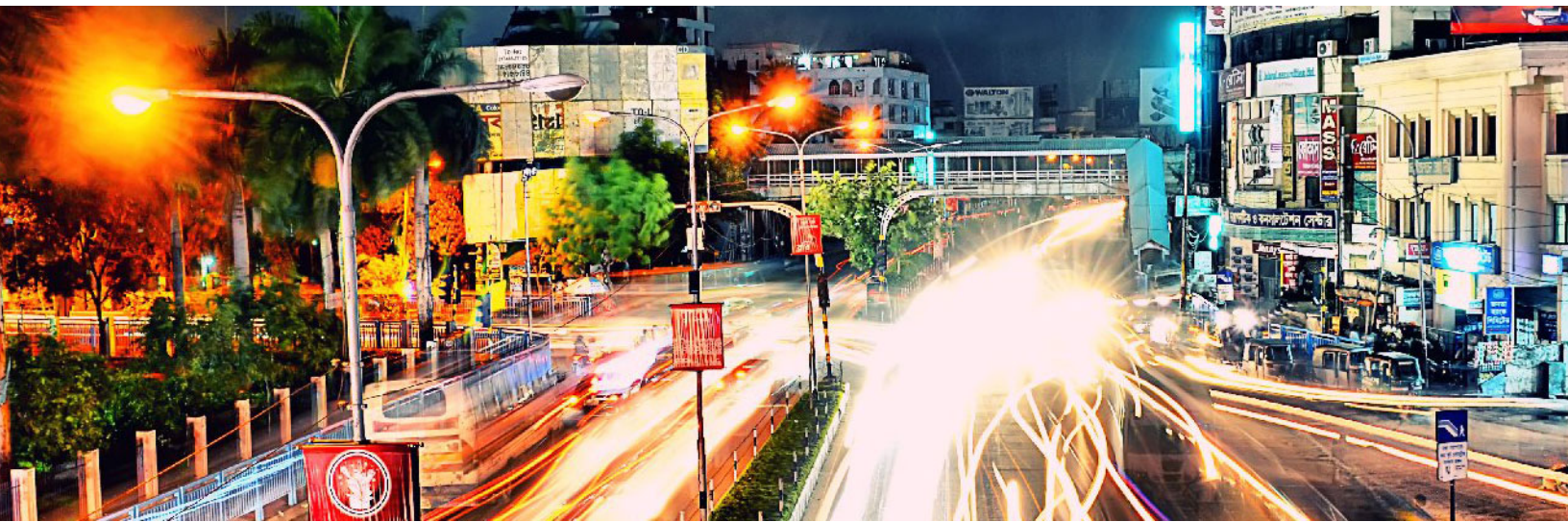


Business Center Batch Submission

Simple Order API User Guide



cybersource
A Visa Solution

Cybersource Contact Information

For technical support questions, go to the Home page in the Business Center to see the contact information appropriate for your account.

Visit the Business Center, your central location for managing your online payment transactions, at <https://businesscenter.cybersource.com>.

For general information about our company, products, and services, go to <http://www.cybersource.com>.

For sales questions about any Cybersource Service, email sales@cybersource.com or call 650-432-7350 or 888-330-2300 (toll free in the United States).

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Recent Revisions to this Document

Revision	Changes
21.01	Added two new statuses. See " Upload Batch Transaction Requests ," page 10.
20.01	Added CSV file format sample of Batch Submission Detail Report. Updated company name spelling and added Preface which wasn't in book. Added endpoints and Business Center URLs for transactions in India.
18.01	This revision contains only editorial changes and no technical updates.
17.01	Updated information about header requirements in batch files.
16.01	Updated information on creating custom batch templates.
15.01	This revision contains only editorial changes and no technical updates.

About This Guide

Audience

This guide is written for users of the Business Center who are using batch files to process order requests.

Important and Warning Statements



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



A *Warning* contains information or instructions, which, if not heeded, can result in a security risk, irreversible loss of data, or significant cost in time or revenue or both.

Text and Command Conventions

Convention	Usage
bold	<ul style="list-style-type: none"> Field and service names in text; for example: Include the ics_applications field. Items that you are instructed to act upon; for example: Click Save.
<i>italic</i>	<ul style="list-style-type: none"> Filenames and pathnames. For example: Add the filter definition and mapping to your <i>web.xml</i> file. Placeholder variables for which you supply particular values.

Convention	Usage
monospace	<ul style="list-style-type: none">■ XML elements.■ Code examples and samples.■ Text that you enter in an API environment; for example: Set the davService_run field to <code>true</code>.

Related Documents

Refer to the Support Center for complete Cybersource technical documentation:

https://www.cybersource.com/developers/getting_started/technical_documentation.html

Customer Support

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

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

Processing Transaction Batch Files

You can send a single batch file that contains a set (batch) of order requests instead of sending individual requests. The information you provide for each request in the batch file is the same information you provide for an individual service request. To use batch files in the Business Center, you must:

- 1 Download the appropriate template.
- 2 Create the batch file.
- 3 Upload the batch file.



We do not recommend this feature for TID-based processors or APACS-based processors because batch files for these kinds of processors can cause time outs and errors. For more information, contact your Cybersource Technical Account Manager.

Eligible Batch Upload Transaction Types

You must use the appropriate CSV template to upload your requests successfully. After successfully uploading a file, you can review the processing status for both the file and the transactions within it.

The following types of transactions can be uploaded in batch files. Each type has an associated template containing the appropriate fields needed to successfully upload batch files.

Table 1 Available Batch Templates

Transaction Type	Available Templates
Card Transactions	Authorizations
Sales	<ul style="list-style-type: none"> ■ Sales ■ Sales with Level III data
Captures	<ul style="list-style-type: none"> ■ Captures ■ Captures with Level III data
Credits	<ul style="list-style-type: none"> ■ Credits ■ Original credit transactions

Table 1 Available Batch Templates (Continued)

Transaction Type	Available Templates
Check Transactions	<ul style="list-style-type: none"> ■ Echeck debits ■ Echeck credits
Subscriptions	<ul style="list-style-type: none"> ■ Create subscriptions ■ Update subscriptions ■ Cancel subscriptions

Downloading Templates

To successfully process multiple transactions at once, download the template for batch files in CSV format. Add transaction data to the template, and upload to the Batch Transaction Upload page.

- Step 1** On the left navigation panel, click **Virtual Terminal**.
- Step 2** Click **Batch Transaction Upload**. The Batch Transaction Upload page appears.
- Step 3** Click **Templates**. The Download Templates panel opens.
- Step 4** In the Templates drop-down menu, select the type of template that you want to save.
- Step 5** Click **Download**.
- Step 6** Follow your browser's prompts to save and open the file.



Depending on the services you have enabled, you might not be able to successfully upload files for some transaction types. Contact Customer Support if you have questions about which templates to use.

Creating a Batch File

- Step 1** Make a copy of the template that you downloaded.
- Step 2** Open the copy, which is in CSV format. Use Excel or a similar program. If you use Excel, you must *import* the file. If you *open* the file, Excel does not process the CSV formatting correctly.
- Step 3** Enter a batch ID in the file header. This value is a file (batch) identifier that you assign. The batch ID must be unique. Format: alphanumeric with a maximum of 8 characters.



You can enter up to 10 elements in the header of the batch file.

- Step 4** Load your transaction data into the file starting in row 4.

The information that you provide for each request in the batch file is the same information that you would provide for an individual service request. The template specifies the required and optional fields for each batch file's transaction type. For a description of each field, see the template descriptions:

http://apps.cybersource.com/library/documentation/sbc/SB_Batch_Submission_UG/Batched_Template_Guides.pdf

Page through the template descriptions to find the pertinent information for your transaction type.

Step 5 You can enter the data in one of three ways:

- Enter it manually.
- Copy and paste it.
- Write a program to load it into the template.

Files that include non-ISO-8859-1 characters (letters with diacritical markings) are processed, but the characters will appear as question marks when the transaction details are viewed in the Business Center and in the reports.

Step 6 Count the number of records in the file and enter this value for the record count in the file header.

The system sets the trailer record as well as additional fields in the file header.

Step 7 Save the file.

Upload Batch Transaction Requests

Using any of the provided templates, you can upload a file containing multiple transaction requests. In one file, you can include transactions that use different services, currencies, countries, merchant IDs, and card types, thus eliminating the burden of handling these values separately.



Each file can contain only one type of transaction. For a list of available transactions, see "[Eligible Batch Upload Transaction Types](#)," page 8.

After you upload your file, you can search for and review the processing status of your file.

Step 1 On the left navigation panel, click **Virtual Terminal**.

Step 2 Click **Batch Transaction Upload**. The Batch Transaction Upload page appears.

Step 3 Click **Batch Upload**. The Batch Upload panel opens.

Step 4 Enter any notes related to this batch of transactions.

Step 5 Enter any email address to receive file upload status updates.

Step 6 Click **Browse** to attach the file that you want to upload.

Files must be in CSV format and cannot be larger than 20 MB. Use the provided templates to ensure that the file is formatted properly.

Step 7 Click **Save**. While the file is being processed, the status changes several times until processing is completed.

If the batch file contains a "Template=Custom" column, the OLP engine validates the batches.

Table 2 Status Values

Status	Description
Validating	<p>After the file is uploaded, the system displays Validating in the status grid. Cybersource usually updates the status in the grid and send a batch status alert within 30 minutes of receiving the file. However, actual timing depends on the system load and the number of files ahead of yours.</p> <p>Cybersource does not process any of the requests in the file if there is any type of syntax error. If multiple records in the file have errors, Cybersource sends only one email with the line number of the first failed record. Typical errors are:</p> <ul style="list-style-type: none"> ■ The record count you specified in the file header does not match the number of data records in the file. ■ A data record in the file does not have the correct number of fields as specified in the data header. The batch status alert indicates the line number of the problem data record.
ToBeResolved	<p>After the file is uploaded, the system displays ToBeResolved in the status grid. Cybersource usually updates the status in the grid and send a batch status alert within 30 minutes of receiving the file. This happens for multiple reasons and requires manual intervention.</p>
Rejected or OnHold	<p>If the validation fails, the system displays Rejected or OnHold in the status grid. To handle a failed validation, follow the suggested remedy in the batch status alert. If you need to resend the file, use the same batch ID that you used for the original file unless otherwise instructed in the batch status alert.</p>
Processing	<p>If the validation succeeds, the system displays Processing in the status grid and Cybersource begins processing the transactions. The transaction processing time depends on the time of day and the size of your file. Submit the batch file early enough in the day to allow plenty of time for validation and processing before your batch cut-off time.</p>
Completed	<p>When the processing is complete, the system displays Completed in the status grid, and the date in the Uploaded column becomes a link to a Batch Files Daily Summary report, which is described in Chapter 2, "Batch File Reports," on page 24.</p>

Step 8 Receive the batch status alerts.

The system sends you an email when batch file validation succeeds or fails and when batch file processing is complete.

You can also view validation files as described in "[Viewing the Status of Your Batch File Submissions](#)," page 13.

Step 9 View the reports and response files for your transaction requests:

- After all of the requests in a batch file are processed, Cybersource creates the batch reports:

Batch Files Detail Report—shows details of the batched transactions.

See [Chapter 2, "Batch File Reports,"](#) on page 24.

- **Capture Detail Report**—shows all of the transactions that were submitted to your processor for settlement. You can download the report daily. If the batch file has an error, the file is not processed, and the file's requests are not included in the report. See the *Business Center Reporting User Guide* ([PDF](#) | [HTML](#)).
- **Response files**—after Cybersource processes all of the requests in the batch file, Cybersource creates two types of CSV response files that you can use to determine the results of the requests. See "[Response Files](#)," page 22.

Creating a Custom Template

Custom templates enable you to send batch files that contain information for transaction services not included with the standard template, such as direct debit and direct debit refunds. When you create a custom template from a standard template, request fields do not have to be in a specific order.

Step 1 Follow the file formatting rules in "[Creating a Batch File](#)," page 9, to generate a batch file for upload.

Step 2 At the end of the file header, add another comma and type **Template=custom**.

Step 3 Save the file.

Example File Header

```
merchantID=infodev,batchID=12345,creationDate=2007-06-12,recordCount=3,purchaseTotals_
currency=EUR,statusEmail=nobody@example.com,targetAPIVersion=1.90,
Template=custom
```



You must generate two transaction security keys—one for the CyberSource production environment and one for the test environment. For information about generating and using security keys, see *Creating and Using Security Keys* ([PDF](#) | [HTML](#)).

Viewing the Status of Your Batch File Submissions

Before processing the requests in your batch file, the Offline Transaction File Submission service validates the batch file. After attempting to validate your batch file, Cybersource creates the following types of XML-formatted response files that indicate whether the validation succeeded or failed:

- **Successful validation file**—this file indicates that your batch file is valid.
Filename format:
`<merchantID>.<batchID>.validate.Success.xml`
Example file name:
`CyberVacations.39762.validate.Success.xml`
- **Failed validation file**—this file indicates that your batch file is invalid and provides information about why the file failed validation.
File name format:
`<merchantID>.<batchID>.validate.xml`
Example file name:
`CyberVacations.39768.validate.xml`

The response files are available in the **Reports** area on the [Business Center](#). For transactions in India, go to <https://ebc2.in.cybersource.com/ebc2/>. You can download them the same way that you download Cybersource reports, which is explained in the *Business Center Reporting User Guide* ([PDF](#) | [HTML](#)).

These validation files are an optional feature. Contact Customer Support to have your account configured for these files.

Elements

<Batch>

The <Batch> element is the root of the response file.

```

<Batch BatchID=CDATA
    MerchantID=CDATA
    Name=CDATA
    Version=NMTOKEN>
  (ValidationStatus)
  (ValidatedRecords)
  (ValidationTime)
  (ValidationErrors)
</Batch>

```

Table 3 Attributes of <Batch>

Attribute Name	Description	Data Type & Length
BatchID	Batch file identifier that you assigned.	Alphanumeric (8)
MerchantID	Your Cybersource merchant ID.	Alphanumeric (30)
Name	Name of the report. This value is always OLP Validation Report.	Alphanumeric (25)
Version	Version number of the report. The current version number is 1.0.	Numeric (10)

Table 4 Child Elements of <Batch>

Element Name	Description	Data Type & Length
ValidationStatus	Status of the attempted validation. Possible values: <ul style="list-style-type: none"> ■ Failed ■ Success ■ OnHold ■ ToBeResolved 	Alphanumeric (10)
ValidatedRecords	Number of records validated. This value is present only when the validation is successful.	Numeric (10)
ValidationTime	Timestamp for the validation process. Format: yyyy-MM-ddTHH:mm:ss	DateTime (25)
ValidationErrors	List of the errors in the batch file. This element is present only if the validation failed. See " <ValidationErrors> ," page 15.	Element

<ValidationErrors>

The <ValidationErrors> element contains the errors associated with the batch file.

```
<ValidationErrors>
  (Error) *
</ValidationErrors>
```

Table 5 Child Element of <ValidationErrors>

Element Name	Description	Data Type & Length
Error	Information about an error. See " <Error> ," page 16.	Element

<Error>

The <Error> element contains information about an error.

```

<Error>

    (RecordNumber)

    (ErrorCode)

    (ErrorMessage)

    (ErrorRemedy)

</Error>

```

Table 6 Child Elements of <Error>

Element Name	Description	Data Type & Length
RecordNumber	Number of the record that has an error.	Numeric (10)
ErrorCode	Code that identifies the error. See " Error Codes ," page 16.	Numeric (10)
ErrorMessage	Message that describes the error.	Alphanumeric (250)
ErrorRemedy	Message that describes the remedy for the error.	Alphanumeric (250)

Error Codes

These error codes, messages, and remedies are included in the <Error> element. In the following table, the %s in the error messages will be replaced with dynamic values, such as batch IDs and record numbers, in the actual error messages.

Table 7 Error Codes, Messages, and Remedies

Error Code	Error Message	Remedy
101	Missing required field in File Header record: %s.	Include the required field in the file and try again.
102	MerchantID (%s) is not in our database.	Ensure that the merchant ID is valid.
103	MerchantID (%s) does not match with the ID used to log in for uploading the file.	Verify the merchantID and try again.
104	batchID exceeds max length of %s.	Generate a shorter batch ID and try again.

Table 7 Error Codes, Messages, and Remedies (Continued)

Error Code	Error Message	Remedy
105	%s had already passed validation stage.	The batch ID has previously been submitted. If this is a new batch, generate a new batch ID and send the file again.
106	Invalid recordCount value: %s.	Check record count to make sure it is numeric and try again.
107	The file does not contain any data records.	The file must contain at least one data record. Correct and try again.
108	The recordCount exceeds the maximum number of records allowed per batch (%s).	Generate a smaller batch file and try again.
109	Invalid creationDate format: %s.	Correct the date format and try again (use yyyy-mm-dd).
110	Unsupported service: %s.	The service is not supported through batching. You may only request that service directly online.
111	Missing required field in Data Header record: %s.	Include the missing required field in the file and try again.
112	Missing required field in Data Record: %s.	Include the required field in the file and try again.
113	merchantID %s is not valid or has not been configured correctly.	Contact Cybersource to confirm that the merchant ID you are using is valid or is configured to be submitted by another merchant ID.
114	SUM in Trailer record (%s) does not match with actual total (%s).	Make sure the sum in the Trailer record matches with the actual sum of all data records.
115	SUM in Trailer record is invalid (%s).	Check to make sure the sum value is numeric.
116	Missing required field in File Trailer record: %s.	Pass in required field and try again.
117	Duplicate file (batchID: %s).	Make sure that the batch ID is unique.
118	Duplicate file. The data content in this file seems to have been submitted in batchID=%s.	Make sure the content of the file has not been previously submitted.
119	File Trailer record is missing.	Correct file format and try again.
120	There was a problem reading the input file.	Contact Cybersource to verify that file %s was received and is readable.
121	Found Data Header record but missing File Header record.	Correct file format and try again.

Table 7 Error Codes, Messages, and Remedies (Continued)

Error Code	Error Message	Remedy
122	Found Data record but missing Data Header record.	Correct file format and try again.
123	Number of fields (%) does not match with number of field names (%s).	Correct file format and try again.
124	Found trailer record but missing File/Data Header record.	Correct file format and try again.
201	There was a problem inserting the batch status in the database.	Contact Cybersource.
202	Problem updating: batchID: %s, status: %s"	Contact Cybersource.
203	There was a problem retrieving the merchant configuration from the database.	Contact Cybersource.
204	There was a problem validating the batchID against the database.	Contact Cybersource.
205	There was a database problem while doing the checksum.	Contact Cybersource.
301	There was an internal error while validating the file.	Contact Cybersource.

DTD

```

<!ELEMENT Batch (ValidationStatus, ValidatedRecords, ValidationTime,
                ValidationErrors)>

<!ATTLIST Batch BatchID CDATA #REQUIRED
                MerchantID CDATA #REQUIRED
                Name CDATA #REQUIRED
                Version NMTOKEN #REQUIRED>

<!ELEMENT ValidationStatus (#PCDATA)>
<!ELEMENT ValidatedRecords (#PCDATA)>
<!ELEMENT ValidationTime (#PCDATA)>
<!ELEMENT ValidationErrors (Error)*>
<!ELEMENT Error (RecordNumber, ErrorCode, ErrorMessage, ErrorRemedy)>
<!ELEMENT RecordNumber (#PCDATA)>
<!ELEMENT ErrorCode (#PCDATA)>
<!ELEMENT ErrorMessage (#PCDATA)>
<!ELEMENT ErrorRemedy (#PCDATA)>

```

Examples

Example Success

```

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

<!DOCTYPE Batch SYSTEM "olp_validation_report_1_0.dtd">

<Batch BatchID="11111" MerchantID="gpntest" Name="OLP Validation
Report" Version="1.0">

    <ValidationStatus>Success</ValidationStatus>

    <ValidatedRecords>15</ValidatedRecords>

    <ValidationTime>2009-07-31T14:41:12</ValidationTime>

</Batch>

```

Example Failure Scenario 1

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

<!DOCTYPE Batch SYSTEM "olp_validation_report_1_0.dtd">

<Batch BatchID="22222" MerchantID="gpntest" Name="OLP Validation
Report" Version="1.0">

  <ValidationStatus>Failed</ValidationStatus>

  <ValidationTime>2009-07-31T14:40:14</ValidationTime>

  <ValidationErrors>

    <Error>

      <RecordNumber>3</RecordNumber>

      <ErrorCode>123</ErrorCode>

      <ErrorMessage>Number of fields (17) does not match with
        number of field names (18).</ErrorMessage>

      <ErrorRemedy>Correct file format and try again.
        </ErrorRemedy>

    </Error>

  </ValidationErrors>

</Batch>
```

Example Failure Scenario 2

```

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

<!DOCTYPE Batch SYSTEM "olp_validation_report_1_0.dtd">

<Batch BatchID="33333" MerchantID="gpntest" Name="OLP Validation Report"
Version="1.0">

    <ValidationStatus>Failed</ValidationStatus>

    <ValidationTime>2009-07-31T14:40:36</ValidationTime>

    <ValidationErrors>

        <Error>

            <RecordNumber>0</RecordNumber>

            <ErrorCode>114</ErrorCode>

            <ErrorMessage>SUM in Trailer record (14.00) does not match
                with actual total (15.00).</ErrorMessage>

            <ErrorRemedy>Make sure the SUM in the Trailer record matches
                with the actual sum of all data records.</ErrorRemedy>

        </Error>

    </ValidationErrors>

</Batch>

```

Viewing the Results of Your Batch File Requests

Reports and response files provide information about the requests in your batch files.

Reports

The following reports provide information about your batch file requests:

- **Transaction Request Report**—replaces the Batch File Detail Report. Provides details about the transactions that were batched using the upload process. See ["Transaction Request Report," page 24](#).
- **Capture Detail Report**—shows all of the transactions that were submitted to your processor for settlement. You can download the report daily. If the batch file has an error, the file is not processed, and the file's requests are not included in the report. See the *Business Center Reporting User Guide* ([PDF](#) | [HTML](#)).

Response Files

After Cybersource processes all of the requests in the batch file, Cybersource creates the following types of CSV-formatted response files that you can use to determine the results of the requests in the file:

- **Full file**—this file includes the results for all the requests in the batch file.

Filename format:

```
<merchantID>.<batchID>.reply.all
```

File name example: CyberVacations.12345.reply.all

- **Exception file**—this file includes the results for the failed requests.

File name format:

```
<merchantID>.<batchID>.reply.rejected
```

File name example: CyberVacations.12345.reply.rejected

The response files are available in the **Reports** area on the [Business Center](#). For transactions in India, go to <https://ebc2.in.cybersource.com/ebc2/>. You can download them the same way that you download Cybersource reports, which is explained in the *Business Center Reporting User Guide* ([PDF](#) | [HTML](#)).

The format for these files is:

- A [File Header](#) followed by a blank line
- One or more [Data Records](#), each on a separate line

File Header

The file header consists of a list of comma-separated name-value pairs, including:

- merchantID
- batchID

Example Response File Header

```
merchantID=infodev,batchID=12345
```

Data Records

The data records provide the API reply information for the requests in the batch file. Each data record consists of a comma-separated list of name-value pairs containing the API response information for a single request. The name-value pairs can be in any order.

The order of the data records in the response file might not correspond to the order of the requests in your file. Use the value of the **merchantReferenceCode** field to link the result in the response file to the corresponding request from the batch file.

Example Response File

This example shows a full file, including two successful requests and one failed request. The failed request is the second data record in the example.

```
merchantID=infodev,batchID=12345
```

```
merchantReferenceCode=ABC12320398,ccCaptureReply_reasonCode=100,
reasonCode=100,decision=ACCEPT,ccCaptureReply_reconciliationID=
1018546244150167904178,requestID=1018546244150167904178,ccCaptureReply_
amount=327.49,ccCaptureReply_requestDateTime=2007-06-13T22:43:53Z,
purchaseTotals_currency=EUR
```

```
merchantReferenceCode=ABC141854,ccCaptureReply_reasonCode=241,
reasonCode=241,decision=REJECT,requestID=1018546227570167904150
```

```
merchantReferenceCode=ABC39882097,ccCreditReply_reasonCode=100,
reasonCode=100,decision=ACCEPT,ccCreditReply_reconciliationID=
1018546230720167904150,requestID=1018546230720167904150,ccCreditReply_
amount=14.99,ccCreditReply_requestDateTime=2005-09-23T22:44:33Z,
purchaseTotals_currency=CAD
```

Batch File Reports

There are two reports for batch files. The Transaction Request Report with the Batch Upload connection filter shows details of the transactions that were batched using the upload process, and the Batch Submission Detail Report returns a real-time response with details about the transactions that were batched using the upload process.

If you request a report too soon after submitting a batch, you might receive an error because the batch has not finished processing. Try the report request again later.

Transaction Request Report

The Transaction Request Report (previously called the Batch File Detail Report) provides detailed information about the transactions that are batched when you filter by the Batch Upload connection method. See the *Business Center Reporting User Guide* ([PDF](#) | [HTML](#)) for information about creating and downloading this report.

XML Format

Elements

<Report>

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

```

<Report Name=CDATA
    Version=NMTOKEN
    xmlns=CDATA
    MerchantID=CDATA
    ReportStartDate=CDATA
    ReportEndDate=CDATA>
    (BatchFiles)
</Report>

```

Table 8 Attributes of <Report>

Attribute Name	Description	Data Type & Length
Name	Name of the report. This element always contains the text <code>Batch Files Detail Report</code> .	Alphanumeric (100)
Version	Version number of the report. The current version number is 1.0.	Numeric (10)
xmlns	XML namespace for the report. The namespace for the current version is <code>http://reports.cybersource.com/reports/bfdr/1.0</code> . For transactions in India, <code>http://reports.in.cybersource.com/reports/bfdr/1.0</code> .	Alphanumeric (100)
MerchantID	Cybersource merchant ID used for the transactions in the report.	Alphanumeric (30)
ReportStartDate	First date included in the report.	DateTime (25)
ReportEndDate	Last date included in the report.	DateTime (25)

Table 9 Child Elements of <Report>

Element Name	Description
<BatchFiles>	Batch files that are included in the report. See " <BatchFiles> ," page 26, for a list of child elements.

Example <Report> Element

```
<Report Name="Batch Files Detail Report"
  Version="1.0"
  xmlns="http://reports.cybersource.com/reports/bfdr/1.0"
  MerchantID="pcpawnshop"
  ReportStartDate="2006-09-29T05:00:00-05:00"
  ReportEndDate="2006-09-30T05:00:00-05:00">
  <BatchFiles>
    ...
  </BatchFiles>
</Report>
```

<BatchFiles>

The <BatchFiles> element contains all of the batch files that are included in the report.

```
<BatchFiles>
  (BatchFile)*
</BatchFiles>
```

Table 10 Child Elements of <BatchFiles>

Element Name	Description
<BatchFile>	Payment processors for the transactions in the batch file. See " <BatchFile> ," page 27, for a list of attributes and child elements.

Example <BatchFiles> Element

```

<BatchFiles>

    <BatchFile BatchFileID="123">

        ...

    </BatchFile>

</BatchFiles>

```

<BatchFile>

The <BatchFile> element contains the payment processors for the transactions in the batch file.

```

<BatchFile BatchFileID=CDATA>

    (PaymentProcessor)*

</BatchFile>

```

Table 11 Attributes of <BatchFile>

Attribute Name	Description	Data Type & Length
BatchFileID	Cybersource batch file in which the transactions were sent.	Numeric (39)

Table 12 Child Elements of <BatchFile>

Element Name	Description
<PaymentProcessor>	Requests associated with the payment processor. See " <PaymentProcessor> ," page 28, for a list of attributes and child elements.

Example <BatchFile> Element

```

<BatchFile BatchFileID="10101">

    <PaymentProcessor PaymentProcessorName="vital">

        ...

    </PaymentProcessor>

</BatchFile>

```

<PaymentProcessor>

The <PaymentProcessor> element contains the requests associated with a payment processor.

```

<PaymentProcessor PaymentProcessorName=CDATA>

    (Request)*

</PaymentProcessor>

```

Table 13 Attributes of <PaymentProcessor>

Attribute Name	Description	Data Type & Length
PaymentProcessorName	Name of a payment processor.	Alphanumeric (30)

Table 14 Child Elements of <PaymentProcessor>

Element Name	Description
<Request>	Information about a payment transaction. See " <Request> ," page 29 , for a list of attributes.

Example <PaymentProcessor> Element

```

<PaymentProcessor PaymentProcessorName="vital">

    <Request>

        ...

    </Request>

</PaymentProcessor>

```

<Request>

The <Request> element contains information about a payment transaction.

```

<Request RequestID=CDATA>

    (TransactionReferenceNumber)

    (MerchantReferenceNumber)

    (TransactionStatus)

    (Amount)

    (CurrencyCode)

    (PaymentStatus)

</Request>

```

Table 15 Attributes of <Request>

Attribute Name	Description	Data Type & Length
RequestID	Unique identifier generated by Cybersource for the transaction.	Numeric (26)

Table 16 Child Elements of <Request>

Element Name	Description	Data Type & Length
Transaction Reference Number	Reference number that you use to reconcile your Cybersource reports with your processor reports. This field corresponds to the <service>_reconciliationID (Simple Order API) and to the <service>_trans_ref_no (SCMP API) reply fields.	Alphanumeric (60)

Table 16 Child Elements of <Request> (Continued)

Element Name	Description	Data Type & Length
Merchant Reference Number	Merchant-generated order reference or tracking number.	Alphanumeric (50)
Transaction Status	One-word description of the result of the transaction request.	Alphanumeric (50)
Amount	Amount of the transaction.	Amount (19)
CurrencyCode	ISO currency code used for the transaction.	Alphanumeric (5)
PaymentStatus	One-word description of the current status of the transaction. Possible values: <ul style="list-style-type: none"> ■ BATCH_ERROR ■ BATCH_RESET ■ BATCHED ■ CANCELED_REVERS ■ CANCELLED ■ DENIED ■ FAILED ■ PENDING ■ REFUNDED ■ REVERSED ■ TRXN_ERROR ■ VOIDED 	Alphanumeric (50)

Example <Request> Element

```
<Request RequestID="1580782287420174065733">  
  
    <TransactionReferenceNumber>5533830406</  
TransactionReferenceNumber>  
  
    <MerchantReferenceNumber>1158078228539</MerchantReferenceNumber>  
  
    <TransactionStatus>SOK</TransactionStatus>  
  
    <Amount>25.00</Amount>  
  
    <CurrencyCode>USD</CurrencyCode>  
  
    <PaymentStatus>PENDING</PaymentStatus>  
  
</Request>
```

DTD

```

<!ELEMENT Report (BatchFiles)>

<!ATTLIST Report Name CDATA #REQUIRED

                Version NMTOKEN #REQUIRED

                xmlns CDATA #REQUIRED

                MerchantID CDATA #REQUIRED

                ReportStartDate CDATA #REQUIRED

                ReportEndDate CDATA #REQUIRED>

<!ELEMENT BatchFiles (BatchFile)*>

<!ELEMENT BatchFile (PaymentProcessor)*>

<!ATTLIST BatchFile BatchFileID CDATA #REQUIRED>

<!ELEMENT PaymentProcessor (Request)*>

<!ATTLIST PaymentProcessor PaymentProcessorName CDATA #REQUIRED>

<!ELEMENT Request (TransactionReferenceNumber, MerchantReferenceNumber,
                TransactionStatus, Amount, CurrencyCode, PaymentStatus)>

<!ATTLIST Request RequestID CDATA #REQUIRED>

<!ELEMENT TransactionReferenceNumber (#PCDATA)>

<!ELEMENT MerchantReferenceNumber (#PCDATA)>

<!ELEMENT TransactionStatus (#PCDATA)>

<!ELEMENT Amount (#PCDATA)>

<!ELEMENT CurrencyCode (#PCDATA)>

<!ELEMENT PaymentStatus (#PCDATA)>

```

Example

The following example shows a report that contains two batch files. The first batch file contains three requests, and the second batch file contains one request.

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

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

<Report Name="Batch Files Detail Report"

    Version="1.0"

    xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/
bfdr.dtd"

    MerchantID="pcpawnshop"

    ReportStartDate="2006-09-29T05:00:00-05:00"

    ReportEndDate="2006-09-30T05:00:00-05:00">

  <BatchFiles>

    <BatchFile BatchFileID="127788">

      <PaymentProcessor PaymentProcessorName="vital">

        <Request RequestID="1595558344253232243215">

          <TransactionReferenceNumber>7242635150</
TransactionReferenceNumber>

          <MerchantReferenceNumber>1158078228539</
MerchantReferenceNumber>

          <TransactionStatus>SOK</TransactionStatus>

          <Amount>25.00</Amount>

          <CurrencyCode>USD</CurrencyCode>

          <PaymentStatus>PENDING</PaymentStatus>

        </Request>

        <Request RequestID="1595558354743232243215">

          <TransactionReferenceNumber>7242636613</
TransactionReferenceNumber>

          <MerchantReferenceNumber>1158078892610</
MerchantReferenceNumber>

          <TransactionStatus>SOK</TransactionStatus>

          <Amount>100.00</Amount>

```

```
<CurrencyCode>USD</CurrencyCode>

  <PaymentStatus>PENDING</PaymentStatus>

</Request>

  <Request RequestID="1595558364563232243215">

    <TransactionReferenceNumber>7242637653</
TransactionReferenceNumber>

    <MerchantReferenceNumber>1158079157035</
MerchantReferenceNumber>

    <TransactionStatus>SOK</TransactionStatus>

    <Amount>99.00</Amount>

    <CurrencyCode>USD</CurrencyCode>

    <PaymentStatus>VOIDED</PaymentStatus>

  </Request>

</PaymentProcessor>

</BatchFile>

<BatchFile BatchFileID="123987">

  <PaymentProcessor PaymentProcessorName="smartfdc">

    <Request RequestID="1595564779663232243215">

      <TransactionReferenceNumber>7243278653
      </TransactionReferenceNumber>

      <MerchantReferenceNumber>1159429157035
      </MerchantReferenceNumber>

      <TransactionStatus>SOK</TransactionStatus>

      <Amount>4.00</Amount>

      <CurrencyCode>USD</CurrencyCode>

      <PaymentStatus>PENDING</PaymentStatus>

    </Request>

  </PaymentProcessor>

</BatchFile>

</BatchFiles>

</Report>
```

CSV Format

Records

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

```
Batch Files Detail Report,1,2006-09-29 to 2006-09-30,,,,,,,,
```

Table 17 Fields in the First Header Record

Position	Field Name	Description	Data Type & Length
1 (A)	report_name	Name of the report. This field always contains the text <code>Batch Files Detail Report</code> .	Alphanumeric (100)
2 (B)	version_number	Version number of the report. The current version number is 1.	Numeric (10)
3 (C)	date_range	Dates included in the report in the format YYYY-MM-DD to YYYY-MM-DD. The first date is the start date; the second date is the end date.	Alphanumeric (100)

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 alphanumeric (100).

Example Second Header Record

```
merchant_id,txn_batch_id,payment_processor,request_id,trans_ref_
no,merchant_ref_number,ics_rflag,amount,currency,action
```

Transaction Record

Each transaction record contains information about a Cybersource payment transaction.

Example Transaction Record

```
pcpawshop,127788,vital,9979040000003515181891,7242635150,1158078228539
,SOK,25.00,USD,PENDING
```

Table 18 Fields in the Transaction Record

Position	Field Name	Description	Data Type & Length
1	merchant_id	Cybersource merchant ID used for the transaction.	Alphanumeric (30)
2	txn_batch_id	Cybersource batch file in which the transactions were sent.	Numeric (39)
3	payment_processor	Name of a payment processor.	Alphanumeric (30)
4	request_id	Identifier for the transaction.	Numeric (26)
5	trans_ref_no	Reference number that you use to reconcile your Cybersource reports with your processor reports. This field corresponds to the <service>_reconciliationID (Simple Order API) and to the <service>_trans_ref_no (SCMP API) reply fields.	Alphanumeric (60)
6	merchant_ref_number	Merchant-generated order reference or tracking number.	Alphanumeric (50)
7	ics_rflag	One-word description of the result of the transaction request.	Alphanumeric (50)
8	amount	Amount of the transaction.	Amount (19)
9	currency	ISO currency code used for the transaction.	Alphanumeric (5)

Table 18 Fields in the Transaction Record (Continued)

Position	Field Name	Description	Data Type & Length
10	action	One-word description of the current status of the transaction. Possible values: <ul style="list-style-type: none"> ■ BATCH_ERROR ■ BATCH_RESET ■ BATCHED ■ CANCELED_REVERS ■ CANCELLED ■ DENIED ■ FAILED ■ PENDING ■ REFUNDED ■ REVERSED ■ TRXN_ERROR ■ VOIDED 	Alphanumeric (50)

Example

The following example shows a report that contains two batch files. The first batch file contains three requests, and the second batch file contains one request.

```

Batch Files Detail Report,1,2006-09-29 to 2006-09-30,,,,,,,,
merchant_id,txn_batch_id,payment_processor,request_id,trans_ref_no,
merchant_ref_number,ics_rflag,amount,currency,action
pcpawshop,127788,vital,1598344253232243215,7242635150,1158078228539,SO
K,25.00,USD,PENDING
pcpawshop,127788,vital,1598354743232243226,7242636613,1158078892610,SO
K,100.00,USD,PENDING
pcpawshop,127788,vital,1598364563232243237,7242637653,1158079157035,SO
K,99.00,USD,VOIDED
pcpawshop,123987,smartfdc,1594779663232243248,7243278653,1159429157035
,SOK,4.00,USD,PENDING

```

Batch Submission Detail Report

The Batch Submission Detail Report provides real-time detailed status information about the transactions that you previously uploaded in the Business Center or processed with the Offline Transaction File Submission service.

This report can be downloaded from the Business Center. See the *Business Center Reporting User Guide* ([PDF](#) | [HTML](#)) for more information about downloading this report.

DTD

```
<!ELEMENT Report (Transaction)*>

<!ATTLIST Report MerchantID CDATA #REQUIRED

                Name CDATA #REQUIRED

                SubmissionFileID CDATA #REQUIRED

                SubmissionDateTime CDATA #REQUIRED

                Version NMTOKEN #REQUIRED>

<!ELEMENT Transaction (LinkToRequest?, RequestID, TransactionDate,
CybsMID, ProcessorMID?, HierarchyID?, TransRefNumber?, MerchantRefNumber?,
TransactionType?, Amount?, TransactionAmountCurrency?, PaymentMethod?,
PaymentType?, AccountSuffix?, Decision?, ReasonCode?, Auth?,
MerchantDefinedData1?, MerchantDefinedData2?, MerchantDefinedData3?,
MerchantDefinedData4?)>

<!ELEMENT LinkToRequest (#PCDATA)>

<!ELEMENT RequestID (#PCDATA)>

<!ELEMENT TransactionDate (#PCDATA)>

<!ELEMENT CybsMID (#PCDATA)>

<!ELEMENT ProcessorMID (#PCDATA)>

<!ELEMENT HierarchyID (#PCDATA)>

<!ELEMENT TransRefNumber (#PCDATA)>

<!ELEMENT MerchantRefNumber (#PCDATA)>

<!ELEMENT TransactionType (#PCDATA)>

<!ELEMENT Amount (#PCDATA)>

<!ELEMENT TransactionAmountCurrency (#PCDATA)>
```

```
<!ELEMENT PaymentMethod (#PCDATA)>
<!ELEMENT PaymentType (#PCDATA)>
<!ELEMENT AccountSuffix (#PCDATA)>
<!ELEMENT Decision (#PCDATA)>
<!ELEMENT ReasonCode (#PCDATA)>
<!ELEMENT Auth (TransRefNumber?, TransactionDate?, RequestID?, Amount?,
Currency?, AuthCode?, ReasonCode?, RCode?)>
<!ELEMENT TransRefNumber (#PCDATA)>
<!ELEMENT TransactionDate (#PCDATA)>
<!ELEMENT RequestID (#PCDATA)>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT Currency (#PCDATA)>
<!ELEMENT AuthCode (#PCDATA)>
<!ELEMENT ReasonCode (#PCDATA)>
<!ELEMENT RCode (#PCDATA)>
<!ELEMENT MerchantDefinedData1 (#PCDATA)>
<!ELEMENT MerchantDefinedData2 (#PCDATA)>
<!ELEMENT MerchantDefinedData3 (#PCDATA)>
<!ELEMENT MerchantDefinedData4 (#PCDATA)>
```

Example

The following example shows a report in XML format that contains one batch file.

```

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

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

<Report Name="Batch Submission Detail Report"

    Version="1.0"

    xmlns="https://ebctest.cybersource.com/ebctest/reports/dtd/
bsd.dtd"

    Name="Batch Submission Detail Report"

    SubmissionFileID="12345678"

    SubmissionDateTime="2010-03-18 15:15:40 GMT"

    Version="1.0">

  <Transaction>

    <LinkToRequest>2689254011060008415089</LinkToRequest>

    <RequestID>2689254011060008415089</RequestID>

    <TransactionDate>2010-03-18 15:16:41 GMT</TransactionDate>

    <CybsMID>examplemerchantid</CybsMID>

    <TransRefNumber>81389795F6RU7QH0</TransRefNumber>

    <MerchantRefNumber>12345-8569-8794654</MerchantRefNumber>

    <TransactionType>ics_bill,ics_auth</TransactionType>

    <Amount>1.00</Amount>

    <TransactionAmountCurrency>USD</TransactionAmountCurrency>

    <PaymentMethod>credit card</PaymentMethod>

    <PaymentType>MasterCard</PaymentType>

    <AccountSuffix>1234</AccountSuffix>

    <ReasonCode>231</ReasonCode>

    <Auth>

      <RequestID>2689254011060008415089</RequestID>

    </Auth>

  </Transaction>

</Report>

```

This example shows a report in CSV format that contains one batch file consisting of four transaction files.

```
Submission Date/Time,Submission File ID,link_to_request,request_
id,transaction_date,cybs_mid,processor_mid,hierarchy_id,trans_ref_
number,merchant_ref_number,transaction_type,amount,transaction,amount_
currency,payment_method,payment_type,account_suffix,decision,reason_
code,reserved,auth_trans_ref_number,auth_date,auth_request_id,auth_
amount,auth_currency,auth_code,auth_reason_code,auth_rcode,merchant_
defined_data1,merchant_defined_data2,merchant_defined_data3,merchant_
defined_data4 2020-02-06 23:50:41 GMT,10100019,9.99E+21,5.81E+21,2020-02-
06 23:50:56 GMT,example_
renewal,exampleCYBS,CS000000196682612120020707470300001,"ics_bill,ics_
auth",684.18,SGD,credit card,Visa,1625,100,2CYBS,2020-02-06 23:50:56
GMT,9.99E+21,684.18,SGD,34521,1 2020-02-06 23:50:41
GMT,10100019,9.99E+21,5.81E+21,2020-02-06 23:50:56 GMT,example_
renewal,exampleCYBS,CS000000197045901520020707470300005,"ics_bill,ics_
auth",111.37,SGD,credit card,Visa,5246,100,2CYBS,2020-02-06 23:50:56
GMT,9.99E+21,111.37,SGD,698141,1 2020-02-06 23:50:41
GMT,10100019,9.99E+21,5.81E+21,2020-02-06 23:50:56 GMT,example_
renewal,exampleCYBS,CS000000197194803220020707470300006,"ics_auth,ics_
bill",140.02,SGD,credit card,Visa,7315,100,2CYBS,2020-02-06 23:50:56
GMT,9.99E+21,140.02,SGD,42372,1 2020-02-06 23:50:41
GMT,10100019,9.99E+21,5.81E+21,2020-02-06 23:50:56 GMT,example_
renewal,exampleCYBS,CS000000194267014620020707470300007,"ics_bill,ics_
auth",74.13SGD,credit card,MasterCard,782,100,2CYBS,2020-02-06 23:50:56
GMT,9.99E+21,74.13,SGD,T87562,1
```
