

Recurring Billing

Using the Business Center

February 2018

CyberSource[®]
the power of payment

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Recent Revisions to This Document

Release	Changes
February 2018	<ul style="list-style-type: none"> ■ FDC Nashville Global: added support for China UnionPay cards. See "Supported Processors and Payment Methods," page 12. ■ Updated the test card numbers. See "Test Card Numbers," page 17.
May 2017	This revision contains only editorial changes and no technical updates.
December 2016	Added alternate merchant descriptor information. See "eCheck Installment Subscription," page 24.
June 2016	<ul style="list-style-type: none"> ■ Added OmniPay Direct as a supported processor. See "Supported Processors and Payment Methods," page 12. ■ Renamed <i>Global Collect</i> to <i>Ingenico ePayments</i>. See "Supported Processors and Payment Methods," page 12.
March 2016	Added information about setting the first payment to recurring. See "Creating a Customer Subscription," page 19.
October 2015	<ul style="list-style-type: none"> ■ Added the "Payment Network Token" section. See "Payment Network Token," page 9. ■ Added the "Replacing a Payment Network Token with Card Information" section. See "Replacing a Payment Network Token with Card Information," page 32.

About This Guide

Audience and Purpose

This guide is written for merchants who want to create customer payment subscriptions and eliminate payment data from their network to ensure that customers' sensitive personal information is not compromised during a security breach. A customer's sensitive information is replaced with a unique identifier, known as a *subscription ID*, which you store on your network.

The purpose of this guide is to help you create, update, retrieve, and delete customer subscriptions. It also describes how to process an on-demand transaction using a customer subscription and how to update a payment event.

Conventions

Note, Important, and Warning Statements

**Note**

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

**Important**

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

**Warning**

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 customer's first name field. Items that you are instructed to act upon; for example: Click Save.
Screen text	<ul style="list-style-type: none"> Code examples and samples.

Related Documents

Refer to the Support Center for complete CyberSource technical documentation:

http://www.cybersource.com/support_center/support_documentation

Table 1 Related Documents

Subject	Description
Account Updater	<i>Account Updater User Guide</i> (PDF HTML)—describes how to automatically incorporate changes made to a customer's payment card data.
Business Center	<i>Business Center Overview</i> (PDF HTML)—describes the features and options available within the Business Center.
Offline Transaction Submission	<i>Offline Transaction File Submission Implementation Guide</i> (PDF HTML).
Payment Tokenization	<i>Payment Tokenization Using the Business Center</i> (PDF HTML)—describes how to create customer subscriptions and process installment or recurring payments.
Reporting	<i>Classic Reporting Developer Guide</i> (PDF HTML)—describes how to view and configure Business Center reports.
Reporting	<i>Classic Reporting Developer Guide</i> (PDF HTML)—describes how to view and configure Business Center reports.
Secure Acceptance Silent Order POST	<i>Secure Acceptance Silent Order POST Development Guide</i> (PDF HTML)—describes how to create a Secure Acceptance profile and integrate seamlessly with Secure Acceptance Silent Order POST.
Secure Acceptance Web Mobile	<i>Secure Acceptance Web/Mobile Configuration Guide</i> (PDF HTML)—describes how to create a Secure Acceptance profile and integrate seamlessly with Secure Acceptance Web/Mobile.

Customer Support

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

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

Introduction

Terminology

Recurring Billing

Recurring Billing subscriptions support installment payments (see "[Installment Subscription](#)," page 11) and recurring payments (see "[Recurring Subscription](#)," page 11). For information about on-demand payments see [Payment Tokenization Using the Business Center](#).

A *subscription ID*, also known as a *payment token* (see "[Secure Acceptance](#)," page 10), which you can store on your server, is a unique identifier that cannot be reverse-engineered. It is generated to replace sensitive card and billing information.

Recurring Billing protects sensitive cardholder information in order to comply with industry standards and government regulations and can prevent the theft of card information in storage. The recurring billing solution is compatible with the Visa and Mastercard Account Updater service. All payment information stored with CyberSource is automatically updated by participating banks, thereby reducing payment failures. See the [Account Updater User Guide](#) ([PDF](#) | [HTML](#)) for more information.

Payment Network Token

The payment network token replaces the primary account number (PAN) that is stored in a customer profile. If a customer profile contains a payment network token, you can use the Business Center to replace the token with an updated PAN.

Subscription ID



Important

Contact CyberSource Customer Support to have your account configured for a 16-digit subscription ID, or to update from a 22-digit subscription ID to a 16-digit subscription ID.

There are three types of subscription IDs:

- 22 digit—the default subscription ID.
- 16 digit—displays the final 4 digits of the primary account number (PAN) and passes Luhn mod-10 checks. This subscription ID is for card customer subscriptions.
- 16 digit—displays 99 as the two leading digits and passes Luhn mod-10 checks. If your business rules prohibit using 99 as the leading digits, you must modify your system to accept the other 16-digit subscription ID.

Secure Acceptance

Payment Token

If you are using Secure Acceptance to process transactions, the payment token is the customer subscription ID (see "[Subscription ID](#)," page 10). The payment token identifies the card and retrieves the associated billing, shipping, and card information.

Customer Subscriptions



Important

For information about processing on-demand payments for a customer profile, see [Payment Tokenization Using the Business Center](#).

There are two types of subscriptions: installment subscriptions and recurring subscriptions. A customer subscription contains specific information about a customer that you store in the CyberSource database for future billing. You can also view the customer subscription in the CyberSource Business Center.

A customer subscription includes:

- Customer contact information, such as billing and shipping information.
- Customer payment information, such as card type, masked account number, and expiration date.
- Customer order information, such as the transaction reference number and merchant defined data fields.

Installment Subscription

An installment subscription (see ["Credit Card Installment Subscription," page 19](#)) allows you to charge a customer's preferred payment method on a fixed number of scheduled payments. You must specify the number of payments, the amount and frequency of each payment, and the start date for processing the payments. CyberSource creates a schedule based on this information and automatically bills the customer according to the schedule. For example, you can offer a product for 75.00 and let the customer pay in three installments of 25.00.

Recurring Subscription

A recurring subscription (see ["Credit Card Recurring Subscription," page 22](#)) allows you to charge a customer's preferred payment method on a recurring payment basis with no specific end date. You must specify the amount and frequency of each payment and the start date for processing the payments. CyberSource creates a schedule based on this information and automatically bills the customer according to the schedule. For example, you can offer an online service to which the customer subscribes and can charge a monthly fee.

Once you have created a customer subscription, the following tasks are available to you:

- Update customer subscription information (see ["Updating Customer Subscription Details," page 31](#)).
- Change the payment method of a customer subscription (see ["Updating Customer Subscription Details," page 31](#)).
- Process an on-demand transaction using the customer subscription details. You can process an authorization, credit, eCheck credit, and an eCheck debit (see ["Requesting an On-Demand Transaction," page 34](#)).
- Retrieve customer subscription information (see ["Searching for a Customer Subscription," page 36](#)).
- Cancel a customer subscription (see ["Canceling a Customer Subscription," page 33](#)).
- Delete a customer subscription (see ["Deleting a Customer Subscription," page 33](#)).

On-Demand Customer Profile

For information about processing on-demand payments for a customer profile, see [Payment Tokenization Using the Business Center](#).

Supported Processors and Payment Methods

Each customer subscription has an associated payment method: credit card, eCheck, or other.



Note

The *other* payment method enables you to store data securely in a customer subscription. This payment method is useful if you do not intend to use the customer subscription for payment transactions. See "[Optional Data Storage](#)," page 41



Important

All the processors listed in the table below support automatic preauthorizations and manual preauthorizations. Unless stated otherwise, each processor in the table below supports 1.00 preauthorizations using all credit card types.

Table 2 Supported Processors and Payment Methods

Processor	Payment Method
Chase Paymentech Solutions	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa and Mastercard cards. ■ Debit card and prepaid card—supports partial authorizations for Visa, Mastercard, American Express, Discover, and Diners Club cards. ■ Electronic check. ■ Replacement expiry dates are supported for Visa and Mastercard cards. See "Replacement Expiration Dates," page 42. ■ Visa Bill Payments—see "Replacement Expiration Dates," page 42.
CyberSource ACH Service	Electronic check.
FDC Compass	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa and Mastercard cards. ■ Debit card and prepaid card—supports partial authorizations for Visa, Mastercard, American Express, and Discover cards. ■ Replacement expiry dates are supported for Visa and Mastercard cards. See "Replacement Expiration Dates," page 42. ■ Visa Bill Payments—see "Replacement Expiration Dates," page 42.

Table 2 Supported Processors and Payment Methods (Continued)

Processor	Payment Method
FDC Nashville Global	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa, Mastercard, and China UnionPay cards. ■ Debit card and prepaid card—supports partial authorizations for Visa, Mastercard, American Express, Discover, Diners Club, JCB (US Domestic), and China UnionPay cards. ■ Visa Bill Payments—see "Replacement Expiration Dates," page 42.
FDMS Nashville	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa cards. ■ Debit card and prepaid card—supports partial authorizations for Visa, Mastercard, American Express, Discover, Diners Club, and JCB (US Domestic) cards. ■ Visa Bill Payments—see "Replacement Expiration Dates," page 42.
FDMS South	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa and Mastercard cards. ■ Debit card and prepaid card—supports partial authorizations for Visa, Mastercard, American Express, Discover, and JCB (US Domestic) cards. ■ Replacement expiry dates are supported for Visa and Mastercard cards. See "Replacement Expiration Dates," page 42.
GPN	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa and Mastercard cards. ■ Debit card and prepaid card—supports partial authorizations for Visa, Mastercard, American Express, Discover, Diners Club, and JCB cards. ■ Visa Bill Payments—see "Replacement Expiration Dates," page 42.
Moneris	Credit card—supports 0.00 preauthorizations for Visa and Mastercard cards.
RBS WorldPay Atlanta	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa and Mastercard cards. ■ Electronic check.
TeleCheck	Electronic check—supports 1.00 preauthorizations.

Table 2 Supported Processors and Payment Methods (Continued)

Processor	Payment Method
TSYS Acquiring Solutions	<ul style="list-style-type: none"> ■ Credit card—supports 0.00 preauthorizations for Visa and Mastercard cards and 1.00 preauthorizations using American Express, Discover, Diners Club, and JCB cards. ■ Debit card and prepaid card—supports partial authorizations for Visa, Mastercard, American Express, Discover, Diners Club, and JCB cards. ■ Visa Bill Payments—see "Replacement Expiration Dates," page 42.

Types of Authorizations

Table 3 Types of Authorizations

Authorization	Description
Automatic preauthorization	<p>Automatically preauthorize a credit card when you create a customer subscription, or automatically preauthorize a bank account when you create an eCheck customer subscription. See "Automatically Preauthorizing an Account," page 18.</p> <p>Depending on the payment method and if your account has been configured for automatic preauthorizations, CyberSource automatically runs several fraud checks during a preauthorization: AVS and CVN checks for cards, and Decision Manager for cards and eChecks.</p> <p>Note Partial authorizations for prepaid cards and debit cards cannot be performed for automatic preauthorizations.</p> <p>Important Contact your merchant account provider to determine whether you will be charged a fee for a preauthorization.</p>
Manual preauthorization	<p>Manually preauthorize a customer's account when you create a customer subscription. This feature is available only with the CyberSource API.</p> <p>Important Contact your merchant account provider to determine whether you will be charged a fee for a preauthorization.</p>

Table 3 Types of Authorizations (Continued)

Authorization	Description
Automatic preauthorization reversal	<p>If your processor supports full authorization reversal, you can contact CyberSource Customer Support to automatically reverse preauthorizations when you create a customer subscription. CyberSource does not charge you for reversing automatic preauthorizations. If you cannot create a customer subscription for any reason, or if the preauthorization amount is 0.00, CyberSource does not reverse the automatic preauthorization.</p> <p>Important TSYS Acquiring Solutions does not support automatic preauthorization reversals.</p>
Partial authorization	<p>When the balance on a debit card or prepaid card is lower than the requested authorization amount, the issuing bank can approve a partial amount.</p> <p>Note Partial authorizations for prepaid cards and debit cards cannot be performed for automatic preauthorizations.</p>

Authorization Consents

Authorization for Electronic Checks

To support customer subscriptions that use electronic checks, you must display a separate consent agreement accepted by the customer before you create the customer subscription. The authorization statement must:

- Be readily identifiable as an authorization.
- Clearly and conspicuously state its terms including the transaction amount and the effective date of the transfer.
- Include the routing number and bank account number to be debited.
- Specify the frequency of the debits and the period of time during which the customer's payment authorization is granted.
- Include instructions for revoking the authorization.

Reporting

Subscription Detail Report

The Subscription Detail report is available in XML and CSV formats and provides detailed information about customer subscriptions and their transactions.

You can view the report on the Business Center, or you can use a client API to programmatically download the report.

For a detailed description of the Subscription Detail Report, and for details about downloading the report, see the *Classic Reporting Developer Guide* ([PDF](#) | [HTML](#)).

Subscription Payment Exception Report

The Subscription Payment Exception Report provides information about installment and recurring customer subscriptions. The report includes two lists: retry mode and on hold. See "Subscription Payment Exception Report," page 40.

Transaction Endpoints



Important

Contact CyberSource Customer Support to configure your account for Recurring Billing.

When you use the live Business Center, the payment method you are testing determines whether you use real card numbers or real account numbers. Create customer subscriptions that use small amounts, such as 1.50. Search for and view your live customer subscriptions in the production version of the Business Center:

Search for and view your test subscriptions in the test version of the Business Center:

<https://ebctest.cybersource.com>

Test Card Numbers

Use the credit card numbers in the following table to test transactions. Do not use real credit card numbers. To test card types not listed in the table, use an account number that is within the card's bin range. For best results, try each test with a different CyberSource service request and with different test credit card numbers.

Table 4 Test Credit Card Numbers

Credit Card Type	Test Account Number (Remove spaces when sending to CyberSource.)
American Express	3782 8224 6310 005
Diners Club	3800 0000 0000 06
Discover	6011 1111 1111 1117
JCB	3566 1111 1111 1113
Maestro (International)	5033 9619 8909 17 5868 2416 0825 5333 38
Maestro (UK Domestic)	6759 4111 0000 0008 6759 5600 4500 5727 054 5641 8211 1116 6669 Note Effective May 2011, the issue number is no longer required for Maestro (UK Domestic) transactions.
Mastercard	2222 4200 0000 1113 2222 6300 0000 1125 5555 5555 5555 4444
Visa	4111 1111 1111 1111

Creating a Customer Subscription



Contact CyberSource Customer Support to configure your account for Recurring Billing.

Validating a Customer Subscription



PINless debits cannot be preauthorized. You must validate the card before you create the customer subscription. See "[PINless Debit Installment Subscription](#)," page 28.

Two validation methods available to you to validate a card or eCheck customer subscription before you create it.

Charging a Setup Fee

This fee is available only for card payments. It is a one-time optional fee that you can charge only when you are creating a customer subscription. See "[Credit Card Installment Subscription](#)," page 19.



CyberSource recommends that you do not enable partial authorizations for authorizing a setup fee. If the issuing bank approves a partial amount for the setup fee, the customer subscription is not created.

Automatically Preauthorizing an Account

Only card payments and eCheck payments can be preauthorized, and CyberSource does not charge you for this feature. Before the customer subscription is created, CyberSource authorizes a small amount against the payment method entered for the customer subscription. Each payment processor supports different preauthorization amounts; see "[Supported Processors and Payment Methods](#)," page 12.

If your account is configured for automatic preauthorizations, CyberSource automatically runs several fraud checks during a preauthorization depending on the payment method for the new customer subscription:

- AVS checks—credit card only.
- CVN checks—credit card only
- Decision Manager—credit card and electronic checks

If your payment processor supports full authorization reversals you can contact CyberSource Customer Support to automatically reverse preauthorizations. When you create a customer subscription with automatic preauthorizations and automatic preauthorization reversals enabled, the order of services is:

- 1 Credit card authorization service for the preauthorization.
- 2 Subscription create service—only if the authorization was successful.
- 3 Full authorization reverse service—only if the authorization was successful and the preauthorization amount was not 0.00.

PINless Debit Validation

PINless debits cannot be preauthorized. Instead, you must validate the card before you create the customer subscription. See "PINless Debit Installment Subscription," page 28.

Creating a Customer Subscription

Credit Card Installment Subscription

To create an installment subscription using a card:

- Step 1** Log in to the Business Center:
- Live Transactions: <https://ebc.cybersource.com>
 - Test Transactions: <https://ebctest.cybersource.com>
- Step 2** In the left navigation pane, choose **Recurring Billing > New subscription**.

Step 3 Enter the required installment subscription information:

Table 5 Required Subscription Information

Subscription Information	Description
Customer Information	First/last name
	Street Address 1
	City/State/Postal Code
	Country
	Email address
Order Information	Order/merchant reference number There are two types of data storage fields that you can include in a customer subscription. See "Optional Data Storage," page 41 .
Subscription Information	Subscription type—select Installment.
Installment Transaction	Recurring amount
	Currency
	Start date
	Billing frequency
	Number of payments
Payment Information	Payment type—credit card. If you are using the <i>other</i> payment type, you can store data securely in a customer subscription. This payment method is useful if you do not intend to use the customer subscription for payment transactions. See "Optional Data Storage," page 41 .
Card Information	Card type
	Card number
	Card Expiration date

Step 4 Check **Require approval before processing payments** to approve each payment before CyberSource processes it.



Note

If you change the amount of the subscription, all future payment statuses are reset to *unapproved* even if the payments were already approved.

Step 5 Check **Automatically renew this subscription**. The subscription is automatically renewed on the anniversary date.

- Step 6** Check **Ignore fraud checks** to disable the fraud checks CyberSource will automatically run during preauthorization of the customer subscription.

If the fraud checks are successful, the customer subscription is created and the authorization is automatically reversed. If the fraud checks fail, the customer subscription is not created and CyberSource does not charge you for the preauthorization and the reversed transactions.

- Step 7** Click **Submit**. The success message is displayed along with the subscription ID for the customer subscription.

- Step 8** Click the subscription ID to view the customer subscription details. The Subscription Details screen appears. See "[Updating Customer Subscription Details](#)," page 31.

To enable or disable automatic preauthorizations:

- Step 1** In the left navigation pane, choose **Recurring Billing > Settings**.
- Step 2** Check **Perform an automatic preauthorization before creating subscription**.
- Step 3** Click **Submit Changes**.

To add supported card types for the customer subscription:

- Step 1** In the left navigation pane, choose **Recurring Billing > Settings**.
- Step 2** Check each card type check box that your merchant account supports.
- Step 3** Click **Submit Changes**.

To set the e-commerce indicator for the first payment to recurring:

- Step 1** In the left navigation pane, choose **Recurring Billing > Settings**.
- Step 2** Check **Set e-commerce indicator for first payment to Recurring**.



All subsequent recurring payments are set to recurring regardless of this setting.

Step 3 Click **Submit Changes**.

Credit Card Recurring Subscription

To create a recurring subscription using a card:

Step 1 In the left navigation pane, choose **Recurring Billing > New subscription**.

Step 2 Enter the required recurring subscription information:

Table 6 Required Subscription Information

Subscription Information	Description
Customer Information	First/last name
	Street Address 1
	City/State/Postal Code
	Country
	Email address
Order Information	Order/merchant reference number There are two types of data storage fields that you can include in a customer subscription. See "Optional Data Storage," page 41 .
Subscription Information	Subscription type—select Recurring.
Recurring Transaction	Recurring amount
	Currency
	Start date
	Billing frequency
Payment Information	Payment type—credit card. If you are using the <i>other</i> payment type, you can store data securely in a customer subscription. This payment method is useful if you do not intend to use the customer subscription for payment transactions. See "Optional Data Storage," page 41 .
Card Information	Card type
	Card number
	Card Expiration date

- Step 3** Check **Require approval before processing payments** to approve each payment before CyberSource processes it.

**Note**

If you change the amount of the subscription, all future payment statuses are reset to *unapproved* even if the payments were already approved.

- Step 4** Check **Ignore fraud checks** to disable the fraud checks CyberSource will automatically run during preauthorization of the customer subscription.

If the fraud checks are successful, the customer subscription is created and the authorization is automatically reversed. If the fraud checks fail, the customer subscription is not created and CyberSource does not charge you for the preauthorization and the reversed transactions.

- Step 5** Click **Submit**. The success message is displayed along with the subscription ID for the customer subscription.

- Step 6** Click the subscription ID to view the customer subscription details. The Subscription Details screen appears. See "[Updating Customer Subscription Details](#)," page 31.
-

To enable or disable automatic preauthorizations:

- Step 1** In the left navigation pane, choose **Recurring Billing > Settings**.
- Step 2** Check **Perform an automatic preauthorization before creating subscription**.
- Step 3** Click **Submit Changes**.
-

To add supported card types for the customer subscription:

- Step 1** In the left navigation pane, choose **Recurring Billing > Settings**.
- Step 2** Check each card type check box that your merchant account supports.
- Step 3** Click **Submit Changes**.
-

To set the e-commerce indicator for the first payment to recurring:

Step 1 In the left navigation pane, choose **Recurring Billing > Settings**.

Step 2 Check **Set e-commerce indicator for first payment to Recurring**.



All subsequent recurring payments are set to recurring regardless of this setting.

Step 3 Click **Submit Changes**.

eCheck Installment Subscription



If your processor is TeleCheck, contact them to learn which customer subscription details are required or optional.

To create an eCheck installment subscription:

Step 1 In the left navigation pane, choose **Recurring Billing > New subscription**.

Step 2 Enter the required installment subscription information:

Table 7 Required Subscription Information

Subscription Information	Description
Customer Information	First/last name
	Street Address 1
	City/State/Postal Code
	Country
	Email address
Order Information	Order/merchant reference number
	There are two types of data storage fields that you can include in a customer subscription. See " Optional Data Storage ," page 41.
Subscription Information	Subscription type—select installment.
	Currency

Table 7 Required Subscription Information (Continued)

Subscription Information	Description
Payment Information	Payment type—select check. Alternate Merchant Descriptor. Alternate contact information for your business, such as email address or URL.
Installment Transaction	Recurring amount
	Currency
	Start date
	Billing frequency
	Number of payments
Check Information	Account number
	Account type
	Check routing number—also known as the <i>transit number</i> .

- Step 3** Check **Require approval before processing payments** to approve each payment before CyberSource processes it.

**Note**

If you change the amount of the subscription, all future payment statuses are reset to *unapproved* even if the payments were already approved.

- Step 4** Check **Automatically renew this subscription**. The subscription is automatically renewed on the anniversary date.
- Step 5** Check **Customer Check Statement** to authorize electronic debits from the checking account you have entered.
- Step 6** Click **Submit**.

The success message is displayed along with the subscription ID for the customer subscription.

- Step 7** Click the subscription ID to view the customer subscription details.

Click the subscription ID to view the customer subscription details. The Subscription Details screen appears. See "[Updating Customer Subscription Details](#)," page 31.

eCheck Recurring Subscription



If your processor is TeleCheck, contact them to learn which customer subscription details are required or optional.

To create an eCheck recurring subscription:

Step 1 In the left navigation pane, choose **Recurring Billing > New subscription**.

Step 2 Enter the recurring subscription information:

Table 8 Required Subscription Information

Subscription Information	Description
Customer Information	First/last name
	Street Address 1
	City/State/Postal Code
	Country
	Email address
Order Information	Order/merchant reference number
	Note There are two types of data storage fields that you can include in a customer subscription. See " Optional Data Storage ," page 41.
Subscription Information	Subscription type—select installment.
	Currency
Payment Information	Payment type—select check.
Installment Transaction	Recurring amount
	Currency
	Start date
	Billing frequency
Check Information	Account number
	Account type
	Check routing number—also known as the <i>transit number</i> .

- Step 3** Check **Require approval before processing payments** to approve each payment before CyberSource processes it.

**Note**

If you change the amount of the subscription, all future payment statuses are reset to *unapproved* even if the payments were already approved.

- Step 4** Check **Customer Check Statement** to authorize electronic debits from the checking account you have entered.

- Step 5** Click **Submit**.

The success message is displayed along with the subscription ID for the customer subscription.

- Step 6** Click the subscription ID to view the customer subscription details.

Click the subscription ID to view the customer subscription details. The Subscription Details screen appears. See "[Updating Customer Subscription Details](#)," page 31.

To enable automatic preauthorization before creating subscription:

- Step 1** In the left navigation pane, choose **Payment Tokenization > Settings**.

- Step 2** Check **Perform an automatic preauthorization before creating subscription**.
-

PINless Debit Installment Subscription

To create a PINless debit installment subscription:

- Step 1** In the left navigation pane, choose **Recurring Billing > New subscription**.
- Step 2** Enter the required installment subscription information:

Table 9 Required Subscription Information

Subscription Information	Description
Customer Information	First/last name
	Street Address 1
	City/State/Postal Code
	Country
	Email address
Order Information	Order/merchant reference number
	There are two types of data storage fields that you can include in a customer subscription. See " Optional Data Storage ," page 41.
Installment Transaction	Recurring amount
	Currency
	Start date
	Billing frequency
	Number of payments
Subscription Information	Currency
Payment Information	Payment type
PINless debit Information	Account number

- Step 3** Check **Require approval before processing payments** to approve each payment before CyberSource processes it.



Note

If you change the amount of the subscription, all future payment statuses are reset to *unapproved* even if the payments were already approved.

- Step 4** Check **Automatically renew this subscription**. The subscription is automatically renewed on the anniversary date.
- Step 5** Click **Validate**. This validates the PINless debit card before the customer subscription is created.

Step 6 Click **Submit**.

The success message is displayed along with the subscription ID for the customer subscription.

Step 7 Click the subscription ID to view the customer subscription details. The Subscription Details screen appears. See "[Updating Customer Subscription Details](#)," page 31.

PINless Debit Recurring Subscription

To create a PINless debit recurring subscription:

- Step 1** In the left navigation pane, choose **Recurring Billing > New subscription**.
- Step 2** Enter the required recurring subscription information:

Table 10 Required Subscription Information

Subscription Information	Description
Customer Information	First/last name
	Street Address 1
	City/State/Postal Code
	Country
	Email address
Order Information	Order/merchant reference number
	There are two types of data storage fields that you can include in a customer subscription. See " Optional Data Storage ," page 41.
Installment Transaction	Recurring amount
	Currency
	Start date
	Billing frequency
Subscription Information	Currency
Payment Information	Payment type
PINless debit Information	Account number

- Step 3** Check **Require approval before processing payments** to approve each payment before CyberSource processes it.



Note

If you change the amount of the subscription, all future payment statuses are reset to *unapproved* even if the payments were already approved.

- Step 4** Click **Validate**. This validates the PINless debit card before the customer subscription is created.
- Step 5** Click **Submit**.

The success message is displayed along with the subscription ID for the customer subscription.

- Step 6** Click the subscription ID to view the customer subscription details. The Subscription Details screen appears. See "Updating Customer Subscription Details," page 31.

Updating Customer Subscription Details



Important

Only customer subscriptions with a status of *current* can be modified. You cannot change the type of subscription.

Updating Card Information

To update a customer's card information:

- Step 1** In the left navigation pane, choose **Recurring Billing > Search**. The Subscription Search screen appears.
- Step 2** Select the scope for the search:
- All Subscriptions
 - Active Subscriptions
 - Canceled Subscriptions—select a date range.
 - Creation Date of Subscriptions—select a date range.
 - Expiration Date of Subscriptions—select a date range.
 - Field and value—select a specific field; for example subscription ID.
- Step 3** Click **Submit**. The Subscription Search Results screen appears.
- Step 4** Click the **Subscription ID Title** of the customer subscription you want to modify. The Subscription Details screen appears.



Note

If your account is configured to use a 16 digit format-preserving subscription ID, and you update the card number, you receive a new subscription ID if the last four digits of the new card number are different from the previous card number. The status of the previous subscription ID changes to *superseded*. You cannot update, delete, or cancel a customer subscription that has a status of *superseded*.

- Step 5** Click **Modify Subscription**. The Edit Subscription screen appears.

Step 6 Modify the customer subscription details and click **Submit**.

Replacing a Payment Network Token with Card Information

To update a customer's payment network token to card information:

Step 1 In the left navigation pane, choose **Recurring Billing > Search**. The Subscription Search screen appears.

Step 2 Select the scope for the search:

- All Subscriptions
- Active Subscriptions
- Canceled Subscriptions—select a date range.
- Creation Date of Subscriptions—select a date range.
- Expiration Date of Subscriptions—select a date range.
- Field and value—select a specific field; for example, subscription ID.

Step 3 Click **Submit**. The Subscription Search Results screen appears.

Step 4 Click the **Subscription ID Title** of the customer subscription you want to modify. The Subscription Details screen appears.

Step 5 Click **Modify Subscription**. The Edit Subscription screen appears.

Step 6 Under Card Information, the following payment network token fields are unavailable:

- Token Transaction Type—1: In-app transaction. An application on the customer's mobile device provided the token data.
- Requestor ID—This value is assigned by the token service provider and is unique within the token service provider's database. The value identifies your business and indicates that the cardholder's account number is tokenized.

Step 7 Enter the new card number and card expiration date. The new card number replaces the payment network token value, and the new card expiration date replaces the expiration date of the payment network token.

Step 8 Click **Submit**.

Canceling a Customer Subscription

To cancel a customer subscription:

- Step 1** In the left navigation pane, choose **Recurring Billing > Search**. The Subscription Search screen appears.
- Step 2** Select the scope for the search:
- All Subscriptions
 - Active Subscriptions
 - Canceled Subscriptions—select a date range.
 - Creation Date of Subscriptions—select a date range.
 - Expiration Date of Subscriptions—select a date range.
 - Field and value—select a specific field; for example Subscription ID.
- Step 3** Click **Submit**. The Subscription Search Results screen appears.
- Step 4** Click the **Subscription ID Title** of the customer subscription you want to modify. The Subscription Details screen appears.
- Step 5** Click **Cancel Subscription**. The Subscription Details screen appears. The cancellation message is displayed along with the Subscription ID.
-

Deleting a Customer Subscription

To delete a customer subscription:

- Step 1** In the left navigation pane, choose **Recurring Billing > Search**. The Subscription Search screen appears.
- Step 2** Select the scope for the search:
- All Subscriptions
 - Active Subscriptions
 - Canceled Subscriptions—select a date range.
 - Creation Date of Subscriptions—select a date range.
 - Expiration Date of Subscriptions—select a date range.
 - Field and value—select a specific field; for example Subscription ID.

- Step 3** Click **Submit**. The Subscription Search Results screen appears.
- Step 4** Click the **Subscription ID Title** of the customer subscription you want to modify. The Subscription Details screen appears.
- Step 5** Click **Delete Subscription**.

Requesting an On-Demand Transaction

To request an on-demand transaction:

- Step 1** In the left navigation pane, choose **Recurring Billing > Search**. The Subscription Search screen appears.
- Step 2** Select the scope for the search:
- All Subscriptions
 - Active Subscriptions
 - Canceled Subscriptions—select a date range.
 - Creation Date of Subscriptions—select a date range.
 - Expiration Date of Subscriptions—select a date range.
 - Field and value—select a specific field; for example Subscription ID.
- Step 3** Click **Submit**. The Subscription Search Results screen appears.
- Step 4** Click the **Subscription ID Title** of the customer subscription you want to modify. The Subscription Details screen appears.
- Step 5** Click **Make On-Demand Payment or Credit**. The On-Demand Payment or Credit screen appears.
- The on-demand transaction types that you can request are:
- Credit Card—authorization, sale.
 - Electronic checks—debit, credit.
 - PINless debit—debit.
- Step 6** Enter the amount for the transaction.
- Step 7** Select the transaction type.

- Step 8** Click **Submit**. The Subscription Details screen appears. The transaction result message is displayed along with the request ID for the transaction.

Converting a Transaction to a Customer Subscription

**Note**

If you are using the FDC Nashville Global processor, you can also update the customer's email address when converting a transaction to a customer subscription.

**Important**

Transaction information resides in the CyberSource database for 60 days after the transaction takes place. If your account is configured to use automatic preauthorizations, CyberSource does not perform a preauthorization when you convert a transaction to a customer subscription.

To convert a transaction to a customer subscription:

- Step 1** In the left navigation panel, choose **Transaction Search > General Search**. The General Search screen appears. The search options are:
- Field and value: search by a customer's email address, first or last name, account suffix, or specific transaction information such as the request ID and transaction reference numbers.
 - An application.
 - A reply: the response received by the transaction you are searching for. For example, searching for all successful transactions.
 - Date range: select the date and time interval for your search; for example, transactions processed during the past hour, those from the previous 1-6 months, or a custom range that you define.
- Step 2** Click **Search**. The Transaction Search Results page appears.
- Step 3** Click the **request ID** link of the transaction. The Transaction Search Details page appears.
- Step 4** Under Available Actions, click **Create Subscription**.
- Step 5** Enter the Customer Subscription details. See "[Creating a Customer Subscription](#)," page 19.

Step 6 Click **Submit**.

Searching for a Customer Subscription

To request an on-demand transaction:

Step 1 In the left navigation pane, choose **Recurring Billing > Search**. The Subscription Search screen appears.

Step 2 Select the scope for the search:

- All Subscriptions
- Active Subscriptions
- Canceled Subscriptions—select a date range.
- Creation Date of Subscriptions—select a date range.
- Expiration Date of Subscriptions—select a date range.
- Field and value—select a specific field; for example Subscription ID.

Step 3 Click **Submit**. The Subscription Search Results screen appears.

Step 4 Click the **Subscription ID Title** of the customer subscription you want to view. The Subscription Details screen appears.

Additional Features

Email Notifications



You can configure email notifications on the Subscription Settings page in the Business Center, or contact CyberSource Customer Support to configure this functionality.

CyberSource can send emails to your customers on your behalf to alert them of events related to their subscriptions. CyberSource offers the following types of email notifications:

- Pre-processing notification—informs the customer of an upcoming payment. This message can be sent seven days before CyberSource processes the payment. You can configure this setting by selecting the number of days the customer receives the notification before their transaction has been processed. When a card is to expire within 60 days, CyberSource adds a paragraph with this information to the message.
- Successful payment message—informs the customer of a successful payment. This email message is not sent if you process a one-time payment for a subscription.
- Failed payment message—informs the customer of a problem with one of the payments for the installment or recurring subscription. This email is sent only when the subscription goes on hold, not simply because one payment attempt has failed.

To configure email notifications:

- Step 1** Log in to the Business Center:
- Live Transactions: <https://ebc.cybersource.com>
 - Test Transactions: <https://ebctest.cybersource.com>
- Step 2** In the left navigation pane, choose **Recurring Billing > Settings**.
- Step 3** Configure the email notifications you would like to send to a customer.
- Step 4** Click **Submit Changes**.
-

Email Format

For each type of notification, you must enter text in each section of the message:

Header—use the header section to add information about your company appropriate for the type of email message. For example, if the email is a successful payment message, the text you might add is *Demo company thanks you for your recent purchase.*

Body—use the body section to add information about the transaction appropriate for the type of email message. Add the customer’s name, a description of the product purchased, and the total amount for the transaction.

Footer—use the footer to add a message that gives the customer contact details for your company. For example, *If you have any queries relating to your purchase, please visit us at www.democompany.com or call us at 123-123-1234.*

Email Smart Tags

You can insert email smart tags to add specific information to each email notification. If no data exists for the smart tag, no information is displayed in the email.

Table 11 Email Smart Tags

Smart Tag	Description
##AMOUNT##	Amount of the payment.
##COMMENTS##	Optional comments that you included when creating the subscription.
##CUSTOMER_ACCOUNT_ID##	Optional account ID, tracking number, reward number, or other unique number that you assign to the customer.
##CUSTOMER_FIRST_NAME##	Customer first name.
##CUSTOMER_LAST_NAME##	Customer last name.
##ACCOUNT_NUMBER_LAST_DIGITS##	Card number with all but the last four digits masked.
##MERCHANT_NAME##	Merchant name.
##ORDER_NUMBER##	Order or merchant reference number that you assigned to the customer’s subscription.
##PAYMENT_DATE##	Date that a successful payment or failed payment attempt was processed.
##SCHEDULED_DATE##	Date of an upcoming payment that is used for the pre-notification email.
##TITLE##	Title of the customer subscription.

Email Templates

CyberSource provides email templates for each type of email notification.

Successful Payment Template

Subject: Your Account Has Been Billed by ##MERCHANT_NAME##
<HEADER>
Dear ##CUSTOMER_FIRST_NAME## ##CUSTOMER_LAST_NAME##,
A payment has been charged to your account:
Order Number: ##ORDER_NUMBER##
For: ##TITLE##
On: ##PAYMENT_DATE##
Amount: ##AMOUNT##
Account: ##ACCOUNT_NUMBER_LAST_DIGITS##
<FOOTER>

Failed Payment Template

Subject: ##MERCHANT_NAME## Had a Problem Billing Your Account
<HEADER>
Dear ##CUSTOMER_FIRST_NAME## ##CUSTOMER_LAST_NAME##,
Order Number: ##ORDER_NUMBER##
For: ##TITLE##
On: ##PAYMENT_DATE##
Amount: ##AMOUNT##
Account: ##ACCOUNT_NUMBER_LAST_DIGITS##
<FOOTER>

Payment Exceptions



Important

Contact CyberSource Customer Support to set the maximum amount of payment retries before a transaction is placed *on hold*.

If a scheduled credit card payment fails, CyberSource automatically retries to collect the payment. While CyberSource is retrying to process the transaction, the customer subscription is in *retry mode*. After all possible retries are exhausted, the customer subscription changes from *retry mode* to *on hold*.

Subscription Payment Exception Report

The Subscription Payment Exception Report provides information about installment and recurring customer subscriptions. The report includes two lists: *retry mode* and *on hold*.

Retry Mode

Subscriptions in this list are in *retry mode* because CyberSource is attempting to process payments that have failed.

Corrective Action (On Hold)

Subscriptions in the *On Hold* list are on hold because they need corrective action. This situation exists because all retries have been exhausted or because a payment failed for a reason that requires your attention, such as, an expired credit card number. You cannot manually place a subscription on hold, and CyberSource does not automatically cancel a subscription that is on hold.

If the subscription went on hold for a reason that requires you to update the subscription, contact the customer to get the updated information. When you update the subscription, it is automatically taken off hold, and all past payments are automatically scheduled for collection the next day. If you want to prevent the past-due payment from being scheduled, you can skip it, see "[Updating Customer Subscription Details](#)," page 31.



Important

CyberSource recommends that you skip past-due payments before updating a subscription with the correct information. If you update the subscription first and then skip the past-due payments, you could create a timing conflict that results in the payments being executed instead of being skipped. To avoid this possibility, skip the payments before updating the subscription.

To take a subscription off hold:

- Step 1** Determine why the subscription is on hold:
- In the Subscription Payment Exception Report, look at the status column.
 - View the transaction details for the last failed payment attempt by viewing the subscription information. See ["Updating Customer Subscription Details," page 31](#).
- Step 2** Update the subscription with new or corrected information. See ["Updating Customer Subscription Details," page 31](#).

When you update the subscription, it is automatically taken off hold and all past payments are automatically scheduled for collection the next day. To prevent past-due payments from being scheduled, you can skip them as described in ["Updating Customer Subscription Details," page 31](#).

Optional Data Storage

Each payment method enables you to store data securely in a customer subscription. If you are using the *Other* payment method, you must use CyberSource API services to submit a customer subscription request. This payment method is useful if you do not intend to use the customer subscription for payment transactions.

You can include two types of data storage fields in a customer subscription:

- **Encrypted data fields 1 to 4**—CyberSource encrypts this data before storing it in the database. The validation performed on these fields is a size check. Fields 1 to 3 are string (100) and the fourth field is string (2K). You can include any data in the encrypted fields.
- **Merchant-defined data fields 1 to 4**—CyberSource does not encrypt these fields before storing them in the database. Legal limitations exist on the type of data that you can include in the unencrypted fields.



Merchant-defined data fields are not intended to and **MUST NOT** be used to capture personally identifying information. Accordingly, merchants are prohibited from capturing, obtaining, and/or transmitting any personally identifying information in or via the merchant-defined data fields. Personally identifying information includes, but is not limited to, card number, social security number, driver's license number, state-issued identification number, passport number, and card verification numbers (CVV, CVC2, CVV2, CID, CVN). In the event CyberSource discovers that a merchant is capturing and/or transmitting personally identifying information via the merchant-defined data fields, intentionally or not, CyberSource **WILL** immediately suspend the merchant's account, which will result in a rejection of any and all transaction requests submitted by the merchant after the point of suspension.



When you create a customer subscription based on an existing transaction, the merchant-defined data fields are not transferred to the new customer subscription.

Replacement Expiration Dates



Contact CyberSource Customer Support to configure your account to use replacement expiration dates. This feature is available only for installment and recurring customer subscriptions.



Effective October 17, 2014, an issuing bank can decline an authorization request for a recurring transaction with a Visa Europe card if the expiration date is incorrect, invalid, or missing. If you do not provide the correct expiration date for a recurring transaction the authorization request may be declined.

Your account can be configured so that when a credit card's expiration date passes, CyberSource automatically uses a replacement expiration date to process payments for that customer subscription. See "[Supported Processors and Payment Methods](#)," page 12, for a list of processors that support replacement expiration dates.

Customer Subscription Sharing

**Note**

Contact CyberSource Customer Support to enable your account for subscription sharing.

When you create a customer subscription, your CyberSource merchant ID is associated with that subscription. You can share customer profiles among merchant IDs, and you can access customer subscriptions that were created with other CyberSource merchant IDs.

You can:

- Create a customer subscription by converting an existing transaction that was processed with a CyberSource merchant ID other than your own.
- Retrieve customer subscription information—search by the merchant ID or the account ID of the customer subscription (see ["Searching for a Customer Subscription," page 36](#)).
- Update customer subscription information (see ["Updating Customer Subscription Details," page 31](#)).
- Perform an on-demand transaction using the customer subscription (see ["Requesting an On-Demand Transaction," page 34](#)).

You cannot delete a customer subscription that has a merchant ID other than your own.

Account Updater

CyberSource Account Updater is integrated with the Recurring Billing functionality so that your customer subscriptions can be kept up-to-date with the latest credit card data changes. These changes can include a new expiration date, a new credit card number, or a brand change such as a change from Visa to Mastercard.

You can use the Account Updater REST API to submit a batch of subscription IDs (tokens) to be processed by the Account Updater service, or CyberSource can configure your account to automatically update your customer subscriptions with updated credit card data. See the *Account Updater User Guide* ([PDF](#) | [HTML](#)).