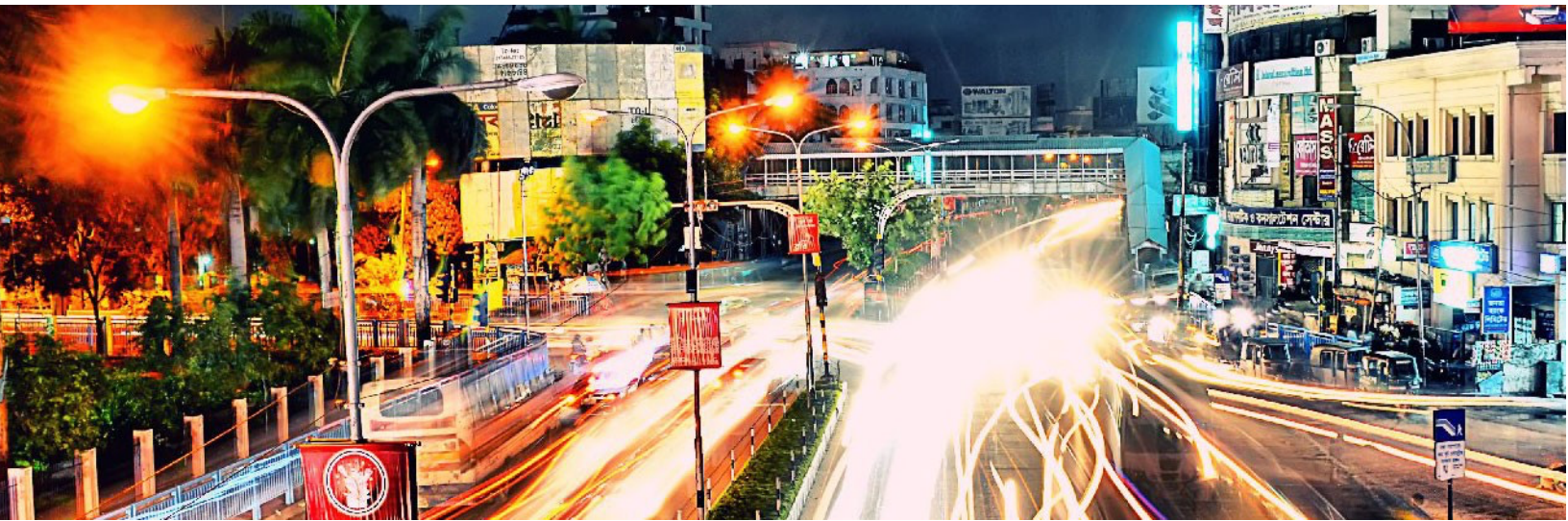


# Cybersource

## Cybersource Storefront Reference Architecture Quick Launch Cartridge



## Cybersource Contact Information

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](mailto:sales@cybersource.com) or call 650-432-7350 or 888-330-2300 (toll free in the United States).

For support information about any Cybersource Service, visit the Support Center: <http://www.cybersource.com/support>

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## 1. Introduction

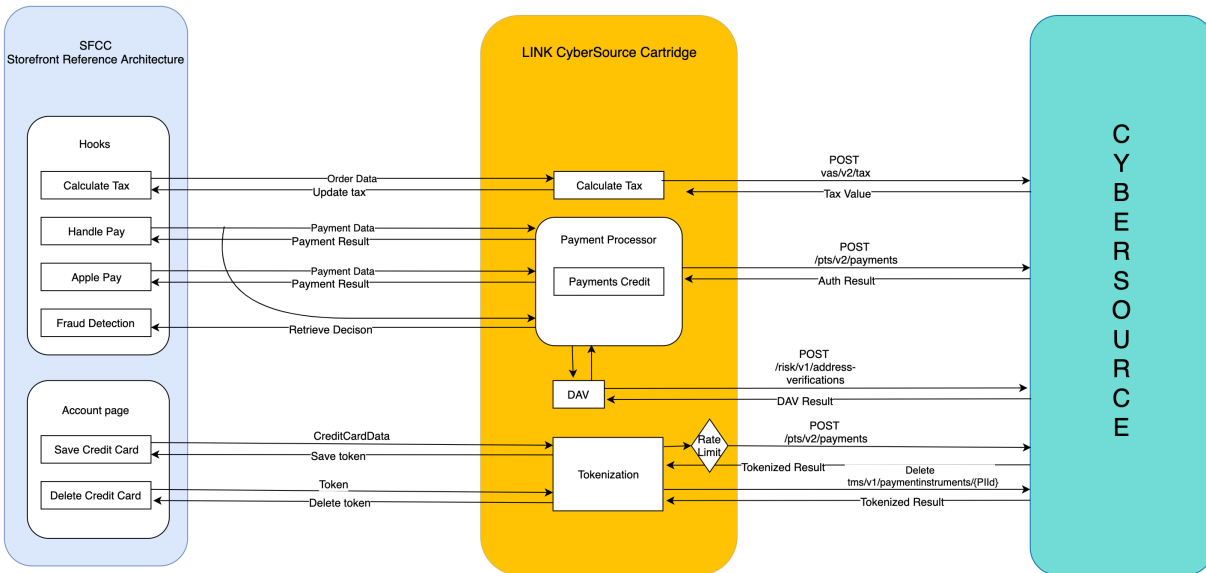
- **Description:** Cybersource, a Visa solution, is the only global, modular payment management platform built on secure Visa infrastructure with the payment reach and fraud insights of a massive \$500B+ global processing network. You can find out more about what Cybersource does [here](#).
- **Categories:** Payment Processing, Fraud Detection, Address Validation, Tax Computation

- **Version:** 21.1.0
- **Last Certification Date:** July-2021
- **Supports SFRA v5.3.0**
- **JavaScript Controllers Friendly:** YES

#### Contact

- Lindsey Rodgers: [SFCC@cybersource.com](mailto:SFCC@cybersource.com)
-

## 2. CyberSource SFRA Cartridge Architecture



## 3. Install the Cartridge and Setup Workspace

### Step 1: Install the Cartridge

Cybersource's Storefront Reference Architecture Cartridge can be installed from Salesforce Commerce Cloud's marketplace [link](#).

### Step 2: Setup workspace

1. Create a folder "Cybersource" in your workspace and place the cartridge (**int\_cybs\_sfra** and **int\_cybs\_sfra\_base**) downloaded from Marketplace.
2. If project setup is different, you will need to open the file '/package.json' and modify the paths.base value to point to your 'app\_storefront\_base' cartridge. This path is used by the JS and SCSS build scripts.
3. If using VSCode install the extension Prophet Debugger [link](#) or any other SFCC extension and include below in dw.json ().

```
{
  "hostname": "your-sandbox-hostname.demandware.net",
  "username": "yourlogin",
  "password": "yourpwd",
  "version": "version_to_upload_to",
  "cartridge": [
    "int_cybs_sfra",
    "int_cybs_sfra_base",
    "app_storefront_base",
    "modules"
  ]
}
```

```
} ]
```

**NOTE:** If you are using different IDE, refer respective developer guide to setup the workspace.

### Step 3: Build and Upload the code

Prerequisite: install node under “Cybersource” folder.

*Install sgmf-scripts and copy-webpack-plugin*

Install sgmf-scripts and copy-webpack-plugin with following command

```
npm install sgmf-scripts && npm install copy-webpack-plugin
```

*Compile the Code*

Compile JS and SCSS with following command

```
npm run compile:js && npm run compile:scss
```

*Upload the code*

Upload the code to Salesforce Commerce Cloud instance

```
npm run uploadCartridge
```

Next Step: Configure the Cartridge

---

## 4. Configure the Cartridge

### Prerequisite

If you are new to Cybersource, and would like to start using Cybersource Cartridge quickly, begin by [signing up for a Sandbox Account](#).

You will also need to create an [API Key and API Shared Secret Key](#) that you can use to authenticate requests to our sandbox server. Follow same steps to generate Production key and shared secret.

### Step 1: Setup Cartridge Path

To set up the cartridge path:

1. In the Business Manager, go to **Administration > Sites > Manage Sites > [yourSite] > Settings**

2. For the Cartridges, enter **int\_cybs\_sfra:int\_cybs\_sfra\_base:app\_storefront\_base** and select **Apply**

## Step 2: Upload metadata

Cybersource cartridge installed from Market place comes with metadata to import.

1. Go to **Cybersource/metadata/payments\_metadata/sites/** folder.
2. Rename **yourSiteID** folder name with your site ID in Business Manager (this can be found by looking up **Administration->Sites->Manage Sites**)
3. Zip **payments\_metadata** folder.
4. Go to **Administration->Site Development->Site Import & Export** and upload **payments\_metadata.zip** file.
5. Import the uploaded zip file.

On successful import, it creates following metadata.

- Site Preferences (Cybersource\_Core, Cybersource\_\_DeliveryAddressVerification, Cybersource\_DeviceFingerprint, Cybersource\_FlexMicroform, Cybersource\_PayerAuthentication, Cybersource\_TaxConfiguration, Cybersource\_Tokenization, Cybersource\_DecisionManager)
- Service (PaymentHttpService)
- Payment Processor (Payments\_Credit)
- Payment Method
- Job (Payment: Decision Manager Order Update)

## Cybersource Core (Required)

Step 1: Upload Cybersource metadata in Business Manager. If not follow "[Step 2: Upload metadata](#)" or import "**metadata/payment\_metadata/meta/Core.xml**" in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > Cybersource Core** and set values for the following parameters:

Field	Description
Enable Cybersource Cartridge	Enable or disable Cybersource Cartridge. If disabled none of the Cybersource services are invoked
Cybersource MerchantID	Cybersource Merchant ID

Cybersource REST KeyId	Cybersource REST Key ID
Cybersource REST Secret Key	Cybersource REST Secret Key
Developer ID	Unique identifier generated by Cybersource for System Integrator

---

#### *Services (Required)*

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/meta/Payment-Services.xml**” in Business Manager (**Administration > Operations > Import & Export**).

Step 2: Go to **Administration > Operations > Services** and click on the **Payment Credentials** of the service.

Setp 3: Make sure the URL are appropriate

Test URL “**https://apitest.cybersource.com**”

PRODUCTION URL “**https://api.cybersource.com**”.

#### *Payment Processor (Required)*

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/sites/yourSiteID/payment-processors.xml**” in Business Manager (**Merchant Tools > Ordering > Import & Export**).

Next Step: Configure the Payment method

---

## 5. Configure the Payment method

### **Payment Methods**

1. Credit Card
  2. Apple Pay
  3. Google Pay
  4. VISA SRC
- 

#### *1. Credit Card*

In the Business Manager, go to **Merchant Tools > Ordering > Payment Methods** and select **CREDIT\_CARD**. And in **CREDIT\_CARD details**, double check if **Payment Processor = “PAYMENTS\_CREDIT”**



Cybersource Cartridge supports the following ways of processing Credit Card a. Flex Microform 0.11 b. Direct Cybersource Payment API

#### **a. To Setup Flex Microform 0.11**

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/meta/FlexMicroform.xml**” in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > Cybersource\_FlexMicroform** and set values for the parameter:

Field	Description	Value to Set
Enable Secure Acceptance - Flex Microform	Enable or Disable Cybersource Flex Microform Service	<b>Yes</b>

#### **b. To Setup Direct Cybersource Payment API**

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/meta/FlexMicroform.xml**” in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > Cybersource\_FlexMicroform** and set the value for following parameter:

Field	Description	Value to Set
Enable Secure Acceptance - Flex Microform	Enable or Disable Cybersource Flex Microform Service	<b>No</b>

#### **Payer Authentication (3D Secure)**

**Prerequisite** Please contact your Cybersource Representative to sign up and receive your Payer Authentication credentials.

**Important:** For Payer authentication to work properly, [Device fingerprint](#) needs to be enabled.

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/meta/PayerAuthentication.xml**” in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > Cybersource\_PayerAuthentication** and set values for the following parameters:

Field	Description
-------	-------------

Enable Payer Authentication	Enable or Disable Payer Authentication service
Cruise Org Unit Id	GUID to identify the merchant organization within Payer Authentication systems
Cruise API Key	A shared secret value between the merchant and Payer Authentication systems. This value should never be exposed to the public
Cruise API Identifier	GUID used to identify the specific API Key
Cruise End Point	Environment details of Cruise API

---

## 2. *Apple Pay*

### **Step 1: Create a merchant identifier in Apple portal:**

A merchant identifier uniquely identifies you to Apple Pay as a merchant who is able to accept payments. You can use the same merchant identifier for multiple native and web apps. It never expires.

1. Go to Apple portal : <https://help.apple.com/developer-account/#devb2e62b839?sub=dev103e030bb>
2. In Certificates, Identifiers & Profiles, select Identifiers from the sidebar, then click the Add button (+) in the upper-left corner.
3. Select Merchant IDs, then click Continue.
4. Enter the merchant description and identifier name, then click Continue.
5. Review the settings, then click Register.

### **Step 2: Enrolling in Apple Pay in Cybersource**

To enroll in Apple Pay:

1. Log in to the Business Center:
  - Test: <https://ebctest.cybersource.com/ebc2/>
  - Live: <https://ebc2.cybersource.com/ebc2/>
2. On the left navigation pane, click the **Payment Configuration** icon.
3. Click **Digital Payment Solutions**. The Digital Payments page appears.
4. Click **Configure**. The Apple Pay Registration panel opens.
5. Enter your Apple Merchant ID. (Created in Step 1.4)
6. Click **Generate New CSR**.
7. To download your CSR, click the **Download** icon next to the key.

8. Follow your browser's instructions to save and open the file.

### **Step 3 : Complete the enrollment process by submitting your CSR to Apple**

Create a payment processing certificate: A payment processing certificate is associated with your merchant identifier and used to encrypt payment information. The payment processing certificate expires every 25 months. If the certificate is revoked, you can recreate it.

1. In Certificates, Identifiers & Profiles, select Identifiers from the sidebar.
2. Under Identifiers, select Merchant IDs using the filter in the top-right.
3. On the right, select your merchant identifier. Note: If a banner appears at the top of the page saying that you need to accept an agreement, click the Review Agreement button and follow the instructions before continuing.
4. Under Apple Pay Payment Processing Certificate, click Create Certificate.
5. Click Choose File.
6. In the dialog that appears, select the CSR file downloaded from Step 2.7, then click Choose.
7. Click Continue.

### **Step 4: Configure Apple Pay in SFCC Business Manager**

Business Manager Configuration

1. Go to: **“Merchant Tools > Site Preferences > Apple pay**
2. Check “Apple Pay Enabled?”
3. Fill in the “Onboarding” form:
  - Ensure “Apple Merchant ID” and “Apple Merchant Name” match settings in your Apple account
  - Ensure all other fields match the your supported Cybersource settings
4. Fill in the “Storefront Injection” form:
  - Selects where Apple Pay buttons should be displayed on your site.
5. Fill in “Payment Integration” form:
  - Leave all form fields blank
  - Ensure “Use Basic Authorization” is checked
6. Click “Submit”

### **Step 5: Domain Registration in SFCC Business Manager**

4. Go to: **“Merchant Tools > Site Preferences > Apple Pay**
5. Under **Domain Registration** section
  - a. Click on **Register Apple Sandbox** under Apple Sandbox section for registering SFCC to Apple Sandbox account.
  - b. Click on **Register Apple Production** under Apple Production section for registering SFCC to Apple Production account.

### **Step 6: Payment Processor**

1. In the Business Manager, go to **Merchant Tools > Ordering > Payment Methods** and select **DW\_APPLE\_PAY**. And in **DW\_APPLE\_PAY** details, double check if **Payment Processor = “PAYMENTS\_CREDIT”**

---

## **6. Google Pay**

### **Step 1: Create custom preference for google pay**

1. Upload Cybersource metadata in Business Manager. If not follow [“Step 2: Upload metadata”](#) or import **“metadata/payment\_metadata/meta/GooglePay.xml”** in Business Manager (**Administration > Site Development > Import & Export**)
2. Go to **Merchant Tools > Custom Preferences > Google Pay** and set values for the following parameters:

Field	Description
Enable Google Pay	Enable/Disable Google Pay on checkout page
Enable Google Pay on Mini Cart	Enable/Disable google pay on mini cart
Enable Google Pay on Cart	Enable/Disable google pay on cart page
Google Pay Merchant Id	Merchant Id required for Live Environments
Google Pay Environment	Environment details of Google Pay. Possible values are Test or Production

### **Step 2: Payment Processor**

1. In the Business Manager, go to **Merchant Tools > Ordering > Payment Methods** and select **DW\_GOOGLE\_PAY**. And in **DW\_GOOGLE\_PAY** details, double check if **Payment Processor = “PAYMENTS\_CREDIT”**

### **Step 3: Request Production Access**

If you want to use google pay in **LIVE Environment**, then navigate to this link <https://pay.google.com/business/console/> in order to get google pay merchant Id.

---

## 7. Visa SRC

### **Step 1: Create custom preference for Visa SRC**

1. Upload Cybersource metadata in Business Manager. If not follow "[Step 2: Upload metadata](#)" or import "**metadata/payment\_metadata/meta/VisaSRC.xml**" in Business Manager (**Administration > Site Development > Import & Export**)
2. Go to Merchant Tools > Custom Preferences > Visa SRC and set values for the following parameters:

Field	Description
Enable Visa SRC	Enable/Disable Enable Visa SRC on checkout page
Visa SRC Key	Visa SRC Key Id obtained through EBC Digital payments
True for production	Set to Yes for Production

### **Step 2: Payment Processor**

1. In the Business Manager, go to **Merchant Tools > Ordering > Payment Methods** and select **VISA\_SRC**. And in **VISA\_SRC details**, double check if **Payment Processor** = "**PAYMENTS\_VISA\_SRC**"

#### **Notes:**

Currently Visa SRC is only available in checkout view.

Next Step: Configure Features

---

## 6. Configure Features (OPTIONAL)

### *1. Token Management Service*

Refer to this [link](#) to learn about Cybersource's Token Management service

Step 1: Upload Cybersource metadata in Business Manager. If not follow "[Step 2: Upload metadata](#)" or import "**metadata/payment\_metadata/meta/Tokenization.xml**" in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > Cybersource\_Tokenization** and set values for the following parameters:

Field Name	Description
------------	-------------

Enable Tokenization Services	Enable or Disable the Tokenization Service saving Credit Card on “My Account” page
Enable limiting Saved Card	Enable or Disable limiting Saved Card on My Account page
Saved Card Allowed	Number of Cards that can be added in a defined interval on My Account page
Reset Interval (in Hours)	Number of hours that saved card attempts are counted

**NOTE:** If you want to utilize “**save card to account**” feature through “Payment flow/Checkout flow”, make sure to set “**Enable tokenization Services**” to “**Yes**”

## 2. Delivery Address Verification

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/meta/DeliveryAddressVerification.xml**” in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > Cybersource\_DeliveryAddressVerification** and set values for the parameter:

Field	Description
Enable Delivery Address Verification Services	Enable or Disable Delivery Address Verification for Cybersource Cartridge

## 3. Tax Calculation

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/meta/TaxConfiguration.xml**” in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > cybersource\_TaxConfiguration** and set values for the following parameters:

Field	Description
Enable Tax calculation Services	Enable or disable Cybersource tax service for Cybersource Cartridge
List of nexus states	When your company has nexus in the U.S. or Canada, you might be required to collect sales tax or seller’s use tax in those countries
List of nexus states to exclude	List of nexus states to exclude
Merchant’s VAT Registration Number	A VAT seller registration number is required in order to calculate international taxes and might be required for some Canadian

	transactions. International/VAT calculation is supported in specific countries
Default Product Tax Code	Default tax code used when tax code is not set on a product
Purchase Order Acceptance City	Purchase order acceptance city
Purchase Order Acceptance State Code	Purchase Order Acceptance State Code. Use the <a href="#">State, Province, and Territory Codes</a> for the United States and Canada
Purchase Order Acceptance zip code	Purchase Order Acceptance zip code
Purchase Order Acceptance Country Code	Purchase Order Acceptance Country Code. Use the two-character <a href="#">ISO Standard Country Codes</a>
Purchase Order Origin City	Purchase Order Origin City
Purchase Order Origin State Code	Purchase Order Origin State Code. Use the <a href="#">State, Province, and Territory Codes</a> for the United States and Canada
Purchase Order Origin Zip Code	Purchase Order Origin Zip Code
Purchase Order Origin Country Code	Purchase Order Origin Country Code. Use the two-character <a href="#">ISO Standard Country Codes</a>
Ship From City	Ship From City
Ship From State Code	Ship From State Code
Ship From Zip Code	Ship From Zip Code
Ship From Country Code	Ship From Country Code

---

#### 4. *Fraud Management Solutions*

Refer to this [link](#) to learn about Cybersource’s Decision Manager and Fraud Management Essentials. Both services use the same cartridge settings and fields, to access the service a retailer has signed up for with Cybersource.

Step 1: Upload Cybersource metadata in Business Manager. If not follow “[Step 2: Upload metadata](#)” or import “**metadata/payment\_metadata/meta/DecisionManager.xml**” in Business Manager (**Administration > Site Development > Import & Export**)

Step 2: Go to **Merchant Tools > Custom Preferences > cybersource\_DecisionManager** and set values for the following parameter:

Field	Description
Enable Decision Manager Services	Enable or Disable Decision Manager for Cybersource Cartridge

Step 3: To enable **Decision Manager Order Update Job**: Decision Manager Order Update Job uses a REST API to retrieve order decisions from Cybersource and update the order confirmation status in SFCC.

To Integrate this job into your site, follow the below steps:

Step 3.1: Upload Cybersource metadata in Business Manager. If not follow "[Step 2: Upload metadata](#)" or import "**metadata/payment\_metadata/jobs.xml**" in Business Manager (**Administration > Operations > Import & Export**)

Step 3.2: Open Business Manager. Go to **Administration > Operations > Jobs** and select **Payment: Decision Manager Order Update**. Make sure following values are filled in:

Field	Description
ID	ID
Description	Description
ExecuteScriptModule.Module	int_cybs_sfra_base/cartridge/scripts/jobs/DMOrderStatusUpdate.js
ExecuteScriptModule.FunctionName	orderStatusUpdate
ExecuteScriptModule.Transactional	Indicates if the script module's function requires transaction handling.
ExecuteScriptModule.TimeoutInSeconds	The timeout in seconds for the script module's function

Step 3.3: Go to **Merchant Tools > Custom Preferences > cybersource\_DecisionManager** and set values for the following parameter:

Field	Description
Conversion Detail Report Lookback time	Number of hours the job will look back for new decisions. CS does not support lookbacks over 24 hours. Do not set above 24.

## 5. Device FingerPrint

Device FingerPrint is a powerful feature of Decision Manager and Fraud Management Essentials. It is always recommended to send a Device Fingerprint when using a Cybersource fraud management service.

Step 1: Upload Cybersource metadata in Business Manager. If not follow "[Step 2: Upload metadata](#)" or import "**metadata/payment\_metadata/meta/DeviceFingerprint.xml**" in Business Manager (**Administration > Site Development > Import & Export**)



Step 2: Go to **Merchant Tools > Custom Preferences > Cybersource\_DeviceFingerprint** and set values for the following parameters:

Field	Description
Enable DeviceFingerprint Service	Enable or Disable the Device Fingerprint Service.
Organization Id	Organization ID for the device fingerprint check
Thread Matrix URL	Thread Matrix URL pointing to JS that generates and retrieves the fingerprint.
TTL (Time To Live)	Time, in milliseconds between generating a new fingerprint for any given customer session

## 6. Capture Service

The interface you will use to make capture requests is in the form of a single function:

```
httpCapturePayment(requestID, merchantRefCode, purchaseTotal, currency)
```

This function can be found in the script **'scripts/http/capture.js'**. A working example of how to use this function can be found in the **ServiceFrameworkTest-TestCaptureService** controller. You will first get an instance of the capture.js object, and make the call as follows:

```
var captureObj = require("~/cartridge/scripts/http/capture.js");  
var serviceResponse = captureObj.httpCapturePayment(requestID, merchantRefCode, paymentTotal, currency);
```

The resulting serviceResponse object will contain the full response object generated by the request. The contents of this object will determine your logic in handling errors and successes. For detailed explanations of all possible fields and values, refer this [link](#).

### Capture Request Parameters

Parameter Name	Description
requestID	Transaction ID obtained from the initial Authorization
merchantRefCode	SFCC Order Number
purchaseTotal	Order Total
currency	Currency code (ex. 'USD')

## 7. Auth Reversal Service

Ensure you have followed all steps in the **"Cartridge Installation"** guide above. A Cybersource Merchant ID, Cybersource Merchant Key are required for this service. Enter these values in the

corresponding site preferences under the “**Cybersource: Core**” group. The interface you will use to make auth reversal requests is in the form of a single function:

```
httpAuthReversal(requestID, merchantRefCode, amount, currency)
```

This function can be found in the script ‘**scripts/http/authReversal.js**’. A working example of how to use this function can be found in the **ServiceFrameworkTest- TestAuthReversal** controller. You will first get an instance of the AuthReversal.js object, and make the call as follows:

```
var reversalObj = require("~/cartridge/scripts/http/authReversal.js");
var serviceResponse = reversalObj.httpAuthReversal(requestID, merchantRefCode
, paymentTotal, currency);
```

The resulting serviceResponse object will contain the full response object generated by the request. The contents of this object will determine your logic in handling errors and successes. For detailed explanations of all possible fields and values, refer this [link](#)

### Authorization Reversal Request Parameter

Parameter Name	Description
requestID	Transaction ID obtained from the initial Authorization
merchantRefCode	SFCC Order Number
amount	Order Total
currency	Currency code (ex. ‘USD’)

## 8. *Advanced Customization*

The Cybersource SFRA cartridge has built-in custom hooks that can be utilized to customize request data being sent to each Service. This can be utilized to send additional custom data that the core cartridge cannot account for. For example, if you want to include Merchant Defined Data in your Credit Card Authorization Requests, you can use these hooks to achieve this.

The hooks are called in the ‘**scripts/http/capture.js**’ and ‘**scripts/http/AuthReversal.js**’ scripts. After a request for a particular service is built, but before it is sent to CS, a check for any code registering to the hook ‘app.payment.modifyrequest’ is done. If present, the hook will be called for that specific request. The request object is passed into the hook and the return value of the hook is sent to CS as the final request object. Through this process, you can inject your own data into the request object from custom code you write in a separate cartridge.

### Implementation:

To customize request objects, register the hook ‘**app.payment.modifyrequest**’ in your cartridges ‘**hooks.json**’ file. An example would look like this, replacing the script path with your own script :

```
{
  "name": "app.payment.modifyrequest",
  "script": "./cartridge/scripts/hooks/modifyRequestExample"
}
```

You can copy the **'scripts/hooks/modifyRequestExample'** script from this cartridge into your own to use as a template for extending and modifying service request objects. Note, every hook must return a valid request object for the given service. It is recommended that you reference the CybserSource documentation for details on the exact nature of any fields you wish to customize or add. The following hooks are available for you to define in this file:

### Modify Request hooks

Hook Name	Service Request to modify
AuthReversal	Credit Card Authorization Reversal
Capture	Credit Card Capture

### 9. Failover/Recovery Process

Visa has dedicated data centers in Virginia and Colorado. There are no single points of failure. Visa Data Centers implement redundant, dual-powered equipment, multiple data and power feeds, and fault tolerance at all levels with 99.995% uptime. In case of any failover, please open support case @ <https://support.cybersource.com>

Disable Cartridge - Go to **Merchant Tools > Custom Preferences > Cybersource Core** and set values for the following parameters:

Field	Description	Value to Set
Enable Cybersource Cartridge	Enable or disable Cybersource Cartridge. If disabled none of the Cybersource services are invoked	<b>No</b>

### 10. Supported Locales

Out of box cartridge supports most of the locales like English (United States), English (United Kingdom), French (FRANCE), English (Austria), German (GERMANY), Dutch (NETHERLANDS) and more.

Next Step: Test and Go Live

## 7. Test and Go Live

Test your integration, and configure your live account, so you can start processing live transactions.

### *Test your integration*

Before you start accepting payments, test your integration in Test sandbox:

The sandbox simulates the live payment gateway. The sandbox never processes an actual payment. We do not submit sandbox transactions to financial institutions for processing. The sandbox environment is completely separate from the live production environment, and it requires separate credentials. If you use your production credentials in the sandbox or visa versa, you get a 401 HTTP error.

Sign up for a [sandbox account](#) if you have not yet.

Use our test card numbers to make test payments: > The following test credit card numbers work only in the sandbox. If no expiration date is provided, use any expiration date after today's date. If the card verification code is required and is not provided, use any 3-digit combination for Visa, Mastercard, Discover, Diners Club and JCB; use a 4-digit combination for American Express.

Test Card Brand	Number	CVV	Expires
Visa	4111 1111 1111 1111		
Visa	4622 9431 2701 3705	838	12/22
Visa	4622 9431 2701 3713	043	12/22
Visa	4622 9431 2701 3721	258	12/22
Visa	4622 9431 2701 3739	942	12/22
Visa	4622 9431 2701 3747	370	12/22
MasterCard	2222 4200 0000 1113		
	2222 6300 0000 1125		
	5555 5555 5555 4444		
American Express	3782 8224 6310 005		
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
UATP	1354 1234 5678 911

Register SFCC sandbox to Apple Sandbox Account.

1. Go to: **“Merchant Tools > Site Preferences > Apple pay**
2. Under **Domain Registration** section
  - a. Click on **Register Apple Sandbox** under Apple Sandbox section for registering SFCC to Apple Sandbox account.

To manage your evaluation account, log in to the [Test Business Center](#) and do the following: - View test transactions. - Access administrator users and access privileges. - Create roles with predefined access permissions. - View reports.

**Important** Cybersource recommends that you submit all banking information and required integration services in advance of going live. Doing so will speed up your merchant account configuration.

#### *Configure your live account*

Once you have the credentials for the live environment:

3. Configure cartridge using your live account settings.
4. Test your integration.

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## 8. Release Notes

### **Version 21.1.0 (July 2021)**

#### New Features

- Improved Payer authentication screen (modal).

#### Bug Fixes

- Added descriptive error messages on certain fail cases and invalid inputs.
- Reloading on final confirmation page does not result on failed authorization.

## **Version 20.2.0 (Feb 2021)**

### New Features

- Support Google Pay payment method.
- Support Visa SRC payment method.
- Improved security on “My Account” page by adding Flex Microform approach to tokenize credit card.

### Bug Fixes

- Improved security of keys by changing data type of password fields from “String” to “password”.
- We added more security to exposed parameters of device fingerprint.

## **Version 20.1.1 (Nov 2020)**

### Bug Fixes

- Improved security on accessing and modifying sensitive fulfillment-related actions on an order (e.g., order acceptance, canceling etc.).

## **Version 20.1.0 (Aug 2020)**

### Initial Features

- Support Credit Card payment using Cybersource REST Payment API and Flex Microform v0.11.
- Support Apple Pay.
- Support PayerAuth/3D Secure using Cardinal Cruise API.
- Support Tokenization on “My Account” and “Payment Page”.
- Support Delivery Address Verification service.
- Support Tax Service. 6. Support Capture and Auth Reversal services.