Firework

Version 1.0.0

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1. Summary

Firework is the world's fastest growing short-video platform for publishers and businesses on the open web. Firework is the short-form web story video platform that lets you integrate Live Streams and Shoppable Videos on your website.

Firework cartridge allows for a simple integration of the Firework Shoppable video Platform with the Salesforce Commerce Cloud site. This Integration would enable the Firework admin features embedded into your Salesforce Commerce Cloud Store. The major features are:

- **Embedded Business Portal:**
  Allows to embed the Firework Business Portal inside the Salesforce Commerce Cloud where you can manage the Firework Videos, Playlist, Channels, Products

- **Product Importer:**
  This Integration would enable an easy way to import products into your Firework Account.

- **Drag and Drop Widgets:**
  Using the Page Designer you can add a video player component / Widgets on your store pages.

The intention of this document is to describe the cartridge and how it can be integrated with a Salesforce Commerce Cloud site. It assumes that the reader is familiar with the Firework platform. For an overview of the Firework service see the Firework website here. The Firework platform developer guide can be found here.

2. Component Overview

Functional Overview

Firework cartridges provide a set of Salesforce Commerce Cloud modules that can be used to accelerate the integration of the Firework Services. The following sections detail the modules and their corresponding Salesforce Commerce Cloud site custom preferences configuration and details for each module components.

Modules

1.1 bm_firework_dashboard

Overview:

This cartridge is used for to display firework dashboard on BM site and configure all firework related setting

Components

Controllers

firework.js : This controller is used for generating the firework dashboard and configured all firework settings for display dashboard and Contains to get Video, play list and reset all configuration settings related to Firework Oauth Process.

firework-dashboard : Method called for display firework dashboard

firework-callback : Method called after Verify credential to retrieve access token and store to custom object for loading dashboard

firework-reset : Method called in reset custom object for firework and oauth custom object

firework-getplaylist : Method called for to retrieve get firework playlist

firework-fireworkwidget : Method called to load video,playlist and channel

oauth.js : This controller is used for generate the oauth token to get Product details and search product details

oauth-show : Method called to show oauth form for configure oauth setting

oauth-callback : Method called to get access token and code for display product on firework dashboard

oauth-success : Method called to display success message after successfully configured oauth

Salesforce Commerce Cloud Scripts

General Scripts

firework/createGraphQLAPI.js : For create record using graph QL API
firework/getBusinessStoreAPI.js : Contains business store API for creating new stores.
firework/getChannelList.js : Used for to get channel list using API
firework/getChannelPlaylist.js : Used for to get channel playlist using API
firework/getChannelVideo.js : Used for to get channel video list using API
firework/oauthRegisterAPI.js : Used for authorization to call firework API
firework/oauthTokenAPI.js : Used for get token API after authorization
firework/updateGraphQLAPI.js : Used for to update all details into Firework db

init/FireWorkInit.js : Used for call firework service API
init/oauthInit.js : Used for call Oauth services API
jobsteps/refreshToken.js : For updating token API to refresh token API on firework side.
oauth/authorizeGuestAPI.js : Used for authorization purpose
oauth/codeChallengeAPI.js : Used for to create code challenge
oauth/getAccessTokenAPI.js : Used to get access token
oauth/getRefreshTokenAPI.js : Used to get refresh token.
oauth/privateClientidRegistrationAPI.js : Used for to get status code to pass tenant registration api
oauth/tenantRegistrationAPI.js : Used for get tenant API
oauth/tokenAPI.js : Used for to get access token
oauth/updateGraphQLAPI.js : Update all details to firework db
oauth/updateGraphQLForTokenDataAPI.js : Used for to update data in firework DB using API

Static

css\firework.css : Firework specific styles used to style the cartridge modules
css\oauthfrm.css : Oauth form specific styles used to style the cartridge *modules*
css\widget.css : Firework widget specific styles used to style the cartridge modules
images\fw.png : Image used for the share module button.

js\carouselwd.js : Firework widget specific for carousel widget config setting
js\firework.js : Used for to redirect firework url
js\fireworkfrm.js : Used for to append tenant Id
js\floatingbuttonwd.js : Firework widget specific for floating button config setting
js\floatingplayerwd.js : Firework widget specific for floating player config setting
js\gridlayoutwd.js : Firework widget specific for grid layout config setting
js\storyblockwd.js : Firework widget specific for story block config setting

Templates

dashboard/dashboard.isml : Used for to display firework dashboard
dashboard/errorMsg.isml : Used for to display error message
dashboard/reset.isml : Used for to display reset configuration setting
dashboard/resetsuccess.isml : Used for to display message after reset firework and Oauth config
oauth/configDashboard.isml : Used for to validate Oauth config data
oauth/errorMsg.isml : Used for to display error message
oauth/oauthForm.isml : Used for to display Oauth related config setting form
oauth/success.isml : Used for to display message after configure Oauth
widget/carosuelwidget.isml : Used for to display carousel widget of firework
widget/floatingButton.isml : Used for to display floating widget of firework
widget/floatingPlayer.isml : Used for to display floating player of firework
widget/gridlayout.isml : Used for to display grid player of firework
widget/storyBlock.isml : Used for to display story block of firework

Properties

templates\resources\bm_firework_dashboard.properties : Text resources used by the cartridge.

Metadata and Custom Objects

firework-sys-custom-obj-defs.xml : Contains the importation schema for the custom site preferences and custom objects. An xml import file containing a sample set of FireworkCO and OauthCO objects

jobs.xml : Contains the importation schema for the Firework refresh token.

services.xml : Contains the importation schema for the Web Services configuration.

2.1 bm_firework_pd

Overview:

The Firework Page Designer cartridge contains the firework image,playlist and video components
for Page Designer. The firework image,playlist and video components enable you to access your
Firework library to select assets to embed in pages created using the Page Designer.
Apply Firework transformations to your assets, either globally to all assets, or individually to
specific assets, to achieve the exact image,playlist and video experience that you desire

Components

Salesforce Commerce Cloud Scripts:

Experience

editor/firework/carosuelwidget.js : Used for to pass dynamic url to call Iframe Url for display component and load iframe based on widget type

editor/firework/carosuelwidget.json : Used for to create carousel widget config setting

editor/firework/floatingButton.js : Used for to pass dynamic url to call Iframe Url for display component and load iframe based on widget type

editor/firework/floatingButton.json : Used for to create floating button widget config setting

editor/firework/floatingPlayer.js : Used for to pass dynamic url to call Iframe Url for display component and load iframe based on widget type

editor/firework/floatingPlayer.json : Used for to create floating player widget config setting

editor/firework/gridlayout.js : Used for to pass dynamic url to call Iframe Url for display component and load iframe based on widget type

editor/firework/gridlayout.json : Used for to create grid widget config setting

editor/firework/storyBlock.js : Used for to pass dynamic url to call Iframe Url for display component and load iframe based on widget type

editor/firework/storyBlock.json : Used for to create story block widget config setting

Static

Editors:

firework/form.css : *Used for to manage Iframe css*

firework/sfwidgetform.js : *Used for to Load iframe using different widget type*

firework/iframeResizer.min.js : *Used for to resize iframe based on widget type*

Properties

templates\resources\bm_firework_pd.properties : text resources used by the cartridge.

3.1 int_firework_pd

Overview:

The Firework Page Designer cartridge contains the firework image,playlist and video components
for Page Designer. The firework image,playlist and video components enable you to access your
Firework library to select assets to embed in pages created using the Page Designer.

Components

Controllers

productDetail.js : This controller is used for to get product list

productDetail-show : Method called for display product on firework dashboard

Salesforce Commerce Cloud Scripts

Experience

components/firework/carosuelwidget.js : Used to render ISML templates and pass dynamic parameters to the ISML page.

components/firework/carosuelwidget.json : Contains to define custom attribute and attribute group

components/firework/floatingButton.js : Used to render ISML templates and pass dynamic parameters to the ISML page.

components/firework/floatingButton.json : Contains to define custom attribute and attribute group

components/firework/floatingPlayer.js : Used to render ISML templates and pass dynamic parameters to the ISML page.

components/firework/floatingPlayer.json : Contains to define custom attribute and attribute group

components/firework/gridlayout.js : Used to render ISML templates and pass dynamic parameters to the ISML page.

components/firework/gridlayout.json : Contains to define custom attribute and attribute group

components/firework/storyBlock.js : Used to render ISML templates and pass dynamic parameters to the ISML page.

components/firework/storyBlock.json : Contains to define custom attribute and attribute group

Templates

experience/components/firework/carosuelwidget.isml : *Used for to display firework video on ISML page based on config setting*

experience/components/firework/floatingButton.isml : *Used for to display firework video on ISML page based on config setting*

experience/components/firework/floatingPlayer.isml : *Used for to display firework video on ISML page based on config setting*

experience/components/firework/gridlayout.isml : *Used for to display firework video on ISML page based on config setting*

experience/components/firework/storyBlock.isml : *Used for to display firework video on ISML page based on config setting*

Static

css/firework.css : Contains to define firework widget CSS

Properties

int_firework_pd.properties : cartridge properties.

Compatibility

B2C Commerce Version: 20.6 (Compatibility Mode: 19.10) • SFRA 6.0

Implementation Guide

Setup

The Firework cartridge requires 4 distinct phases of set-up:

1. Configure Salesforce Commerce Cloud Business Manager Settings.
2. Import cartridge into workspace.
3. Import site preferences and custom objects into Salesforce Commerce Cloud Business Manager.

Configure Business Manager

1. Append int_firework_pd to the effective cartridge path:
   a) Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
   b) Click Administration -> Sites -> Manage Sites.
   c) Select the desired site.
   d) Click on the Settings tab.
   e) Append ":int_firework_pd" to the "Cartridges" field.
   f) Click Apply.

2. Append bm_firework_pd and bm_firework_dashboard to the effective cartridge path in Business Manager:
   a) Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
   b) Click Administration -> Sites -> Manage Sites.
   c) Click Business Manager.
   d) Click on the Settings tab.

e) Append ":bm_firework_pd:bm_firework_dashboard" to the "Cartridges" field.

f) Click Apply.

Import Cartridge

Import the firework cartridge into the Salesforce Commerce Cloud Studio Workspace:

1. Open Salesforce Commerce Cloud Studio.
2. Click File -> Import -> General -> Existing Projects into Workspace.
3. Browse to the directory where you have saved the firework cartridges.
4. Click Finish.
5. Click OK when prompted to link the cartridge to the sandbox.

Enable Firework Cartridge

Navigate to Administration -> Organization -> Roles & Permissions -> Administrator -> Business Manager Modules

Then you can select the site or organization you want to enable the Firework Cartridge.

Import Services, Custom Objects, Jobs

1. Import the Services and System Object definitions into the Salesforce Commerce Cloud Business Manager:

a) Log into the Salesforce Commerce Cloud Business Manager.
b) Click Administration -> Sites Development -> Import & Export.
c) Click the upload link or button in the "Import & Export Files" section.
d) Use the upload control to browse for the firework-sys-custom-obj-defs.xml file.
e) Click Upload.
f) Click the "<< Back" button at the bottom of the page.
g) Click Import link or button under the "Meta Data" section.
h) Select the firework-sys-custom-obj-defs.xml file that was just uploaded.
i) Click Next.
j) When validation is complete, click Import.

2. Import the Web Services definitions into the Salesforce Commerce Cloud Business Manager.

a) Log into the Salesforce Commerce Cloud Business Manager.
b) Click Administration -> Operations -> Import & Export.
c) Click the upload link or button in the "Import & Export Files" section.
d) Use the upload control to browse for the firework-sfcc-services.xml file.
e) Click Upload.
f) Click the "<< Back" button at the bottom of the page.
g) Click Import link or button under the "Services" section.
h) Select the firework-sfcc-services.xml file that was just uploaded.
i) Click Next.
j) When validation is complete, click Import.

3. Import the Job definition into the Salesforce Commerce Cloud Business Manager.

a) Log into the Salesforce Commerce Cloud Business Manager.
b) Click Administration -> Operations -> Import & Export.
c) Click the upload link or button in the "Import & Export Files" section.
d) Use the upload control to browse for the firework-job.xml file.

e) Click Upload.
f) Click the "<< Back" button at the bottom of the page.
g) Click Import link or button under the "Job schedules" section.
h) Select the firework-job.xml file that was just uploaded.
i) Click Next.
j) When validation is complete, click Import.

4. Configure Firework Custom Preferences using the Salesforce Commerce Cloud Business Manager:

a) Log into the Salesforce Commerce Cloud Business Manager.
b) Select the desired site from the tabs across the top of the page.
c) Click Merchant Tools -> Site Preferences -> Custom Preferences.
d) Click fireworkDashboardConfig
    1. Currency:
        Enter the Currency code of your site.
        Please enter the three letter code for example: for the United States it is USD. you can find the complete list of currency codes here
    2. Storefront URL:
        Enter the Storefront URL for your site.
    3. Contact Email:
        Enter the admin email address.

Setup Your API Client on Account Manager

Merchant would have to Setup API client on demandware Account Manager with following Configuration:

a) Login to Demandware Account Manager.
b) Navigate to API Client → Add API Client
c) Setup Display Name, Password and Select Your Organization → Roles

d) Select your Production / Sandbox Instance for Commerce Cloud Developer Experience and Salesforce Commerce API

e) Setup Default Scope values

```
mail
roles
tenantFilter
profile
tenant
Filter
openId
```

f) Setup Allowed Scopes Values:

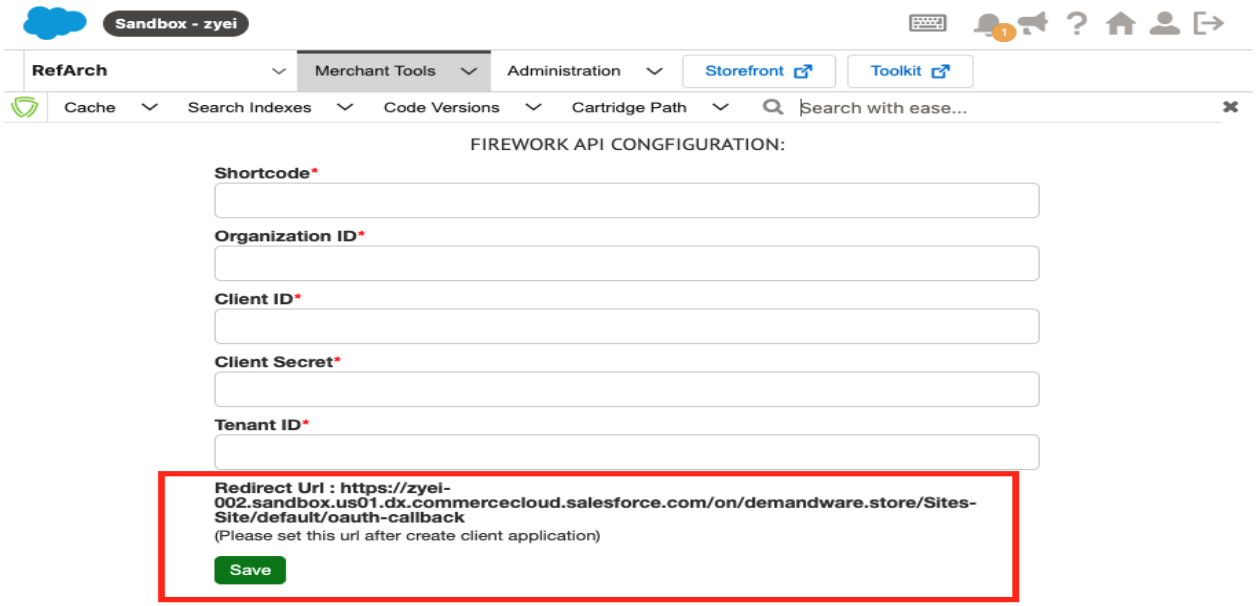
```
sfcc.shopper-customers.register
sfcc.shopper-customers.login
sfcc.products.rw
sfcc.catalogs.rw
```

g) Setup Redirect URL:

```
https://your_admin_URL/on/demandware.store/Sites-Site/default/oauth
-callback
```

How to find a Redirect URL from a Business Manager.

1. Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
2. Select the desired site.
3. Click Merchant Tools -> Manage Firework -> Settings -> OAuth Configuration.
4. Copy the Redirect URL



h) Setup Token Endpoint Auth Method: **private_key_jwt**

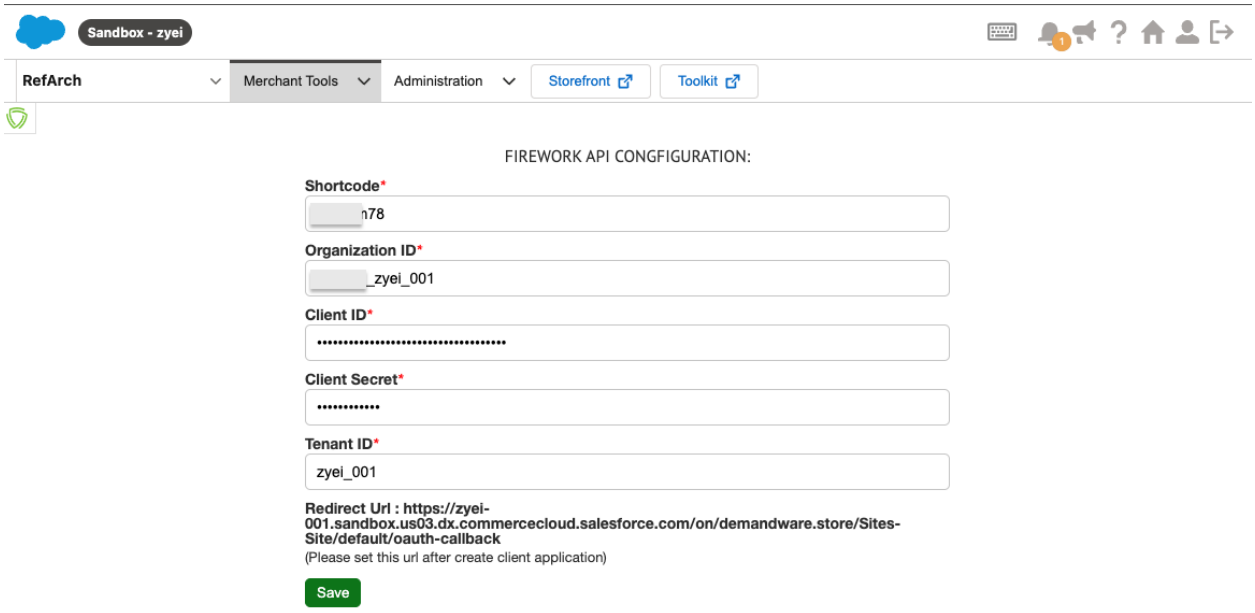
i) Setup Access Token Format: **JWT**

Once you click Save, it will generate the API Client ID and you need to remember the password you set during client Registration , we will need it to set up the Firework OAuth Configuration.

Setup Firework API Configuration

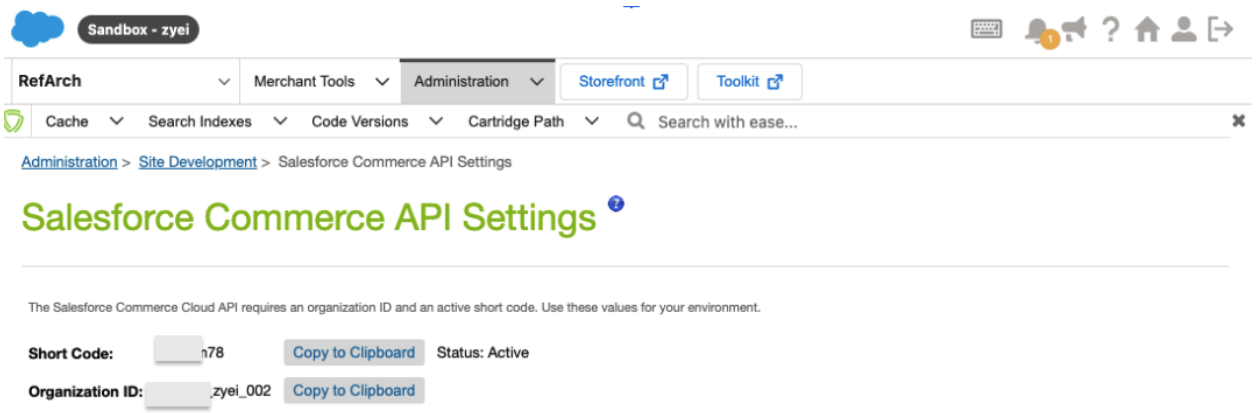
1. Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
2. Select the desired site.
3. Click Merchant Tools -> Manage Firework -> Settings -> OAuth Configuration.

You will be presented this following screen to enter the information:



How to find a Shortcode & Organization ID :

1. Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
2. Please navigate to Administration → Site Development → Salesforce Commerce API Settings



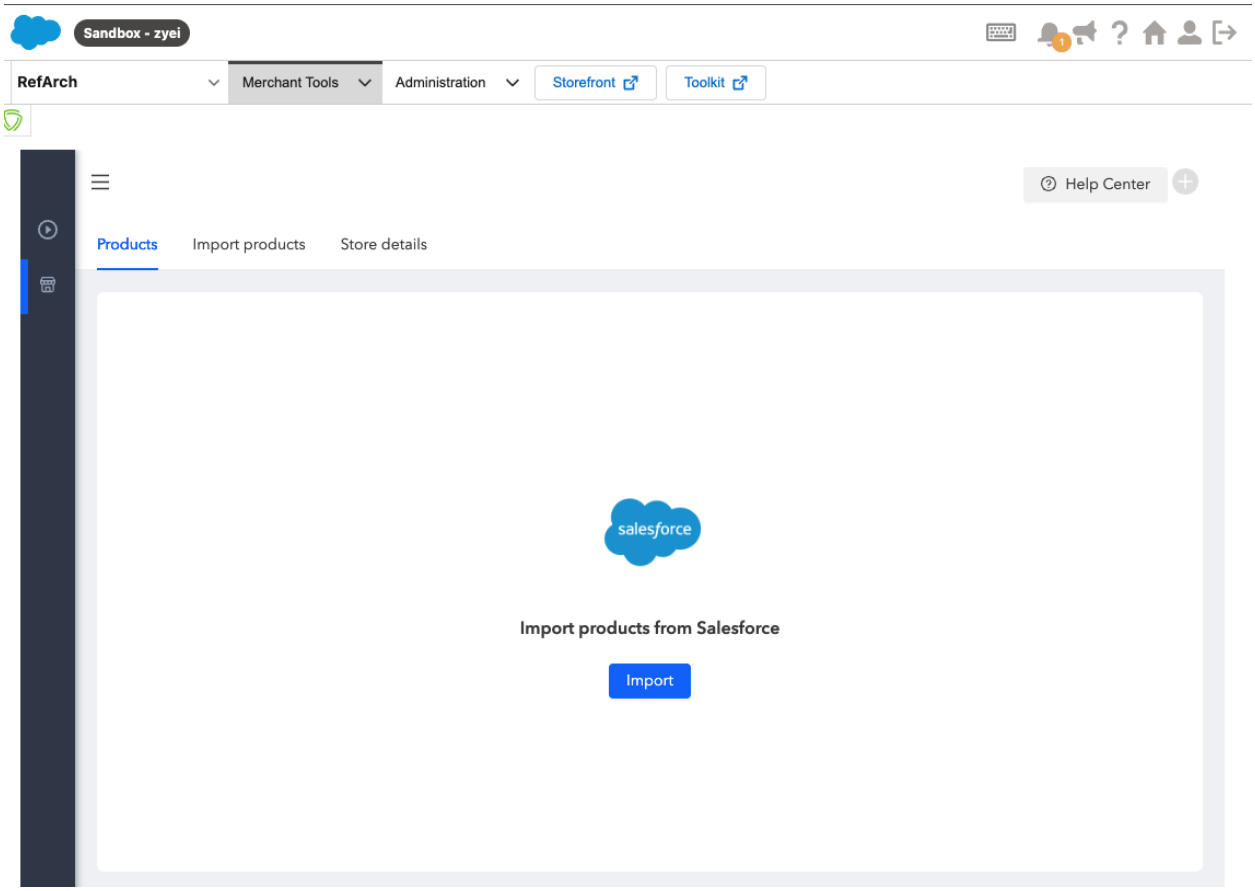
Please enter the shortcode and Organization id in the api configuration form. along with **Client ID** and **Client Secret** which we received in the previous step.

Click Save.

Initiate the Firework OAuth Flow:

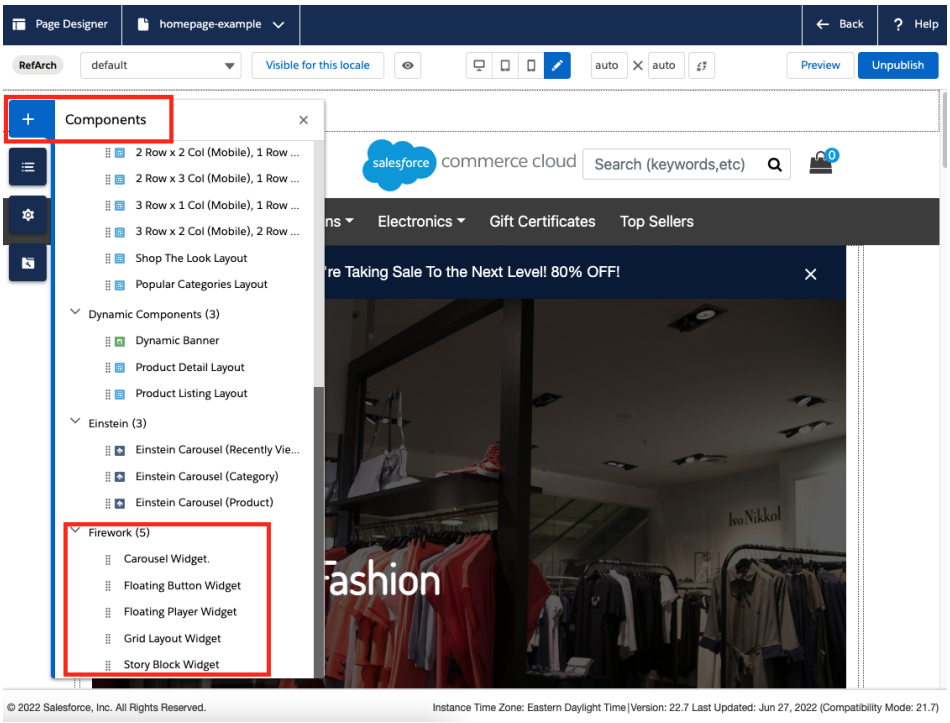
Once you Click Save the Firework API Configuration Settings, you will be redirected to Firework Login Page, please login with your Firework Admin account credentials. You will be presented an Option to select existing business or create a new business on the Firework

After selecting / Creating a new business on Firework merchant will be redirected back to the Embed Business Portal on Salesforce Commerce Cloud Business manager.


Sandbox - zyei
RefArch
Merchant Tools
Administration
Storefront
Toolkit
Help Center
Products
Import products
Store details
salesforce
Import products from Salesforce
Import

Add Widget on Page designer:

1. Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
2. Select the desired site.
3. Click Merchant Tools -> Content -> Page Designer -> Select Desire page -> Component -> Firework Widgets -> Drag and Drop widget on a page.



External Interfaces

The bm_firework_dashboard cartridge interfaces with the Firework JavaScript API.

API documentation can be found on the Firework Dev web site
https://docs.firework.tv/web/integration-guide/components/hero-unit

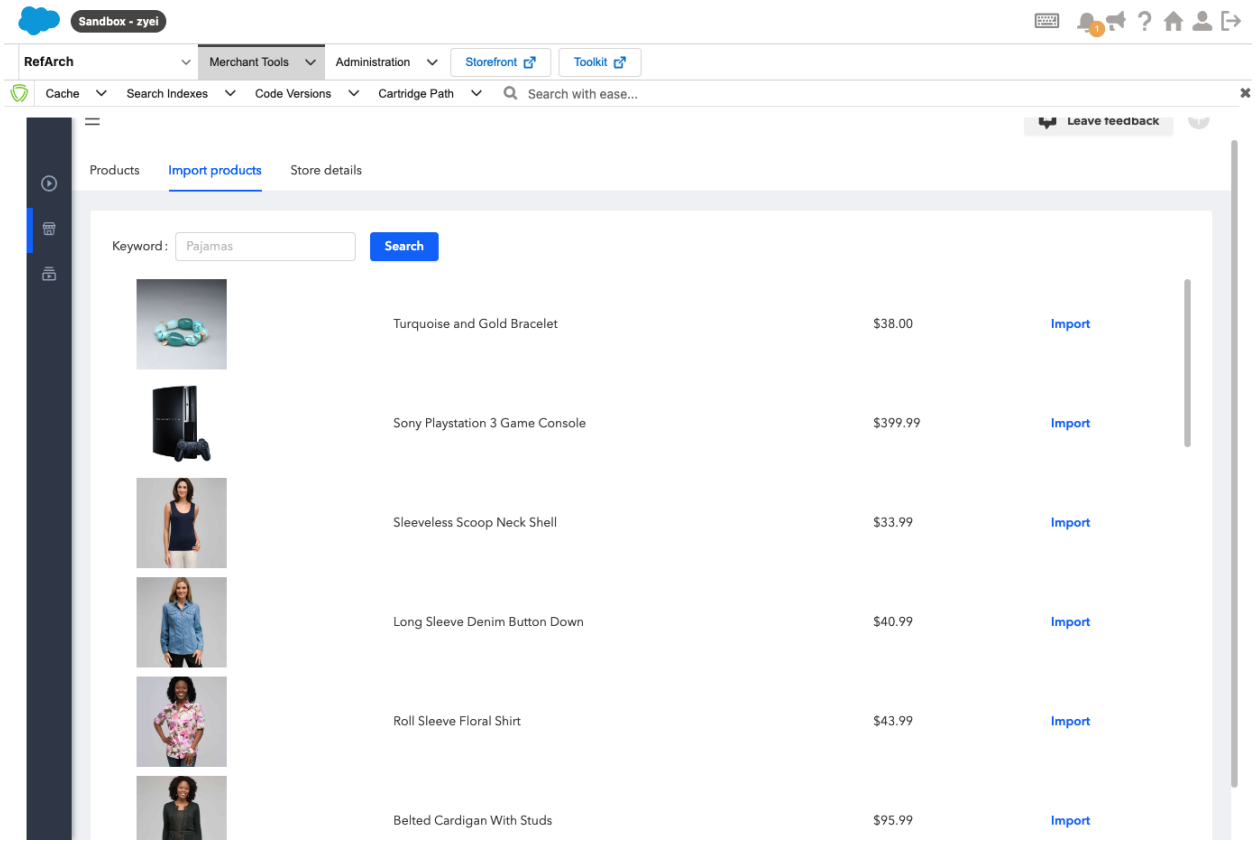
Use Cases

Firework Product Import

Scenarios:

- Merchant already have a Firework Business Account
- Merchant want to import products from Salesforce Commerce Cloud Account to Firework Business

If a merchant wants to import the products from the Salesforce Commerce Cloud store to Firework Business, Merchant needs to have Firework Business Account admin access and connect to the Store through integration.

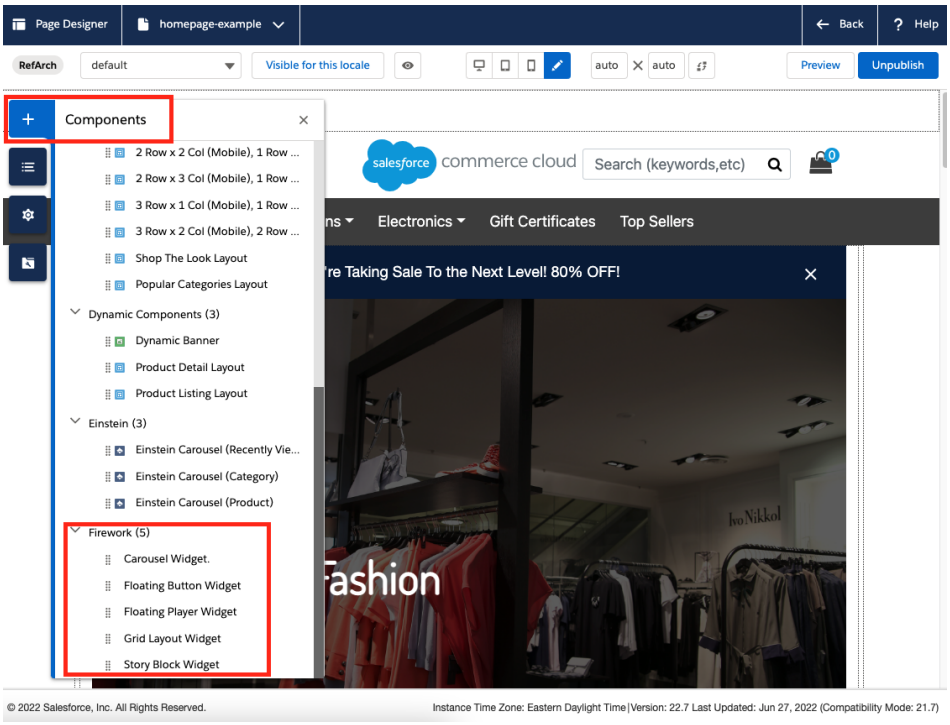


Add Firework Widget to Home Page

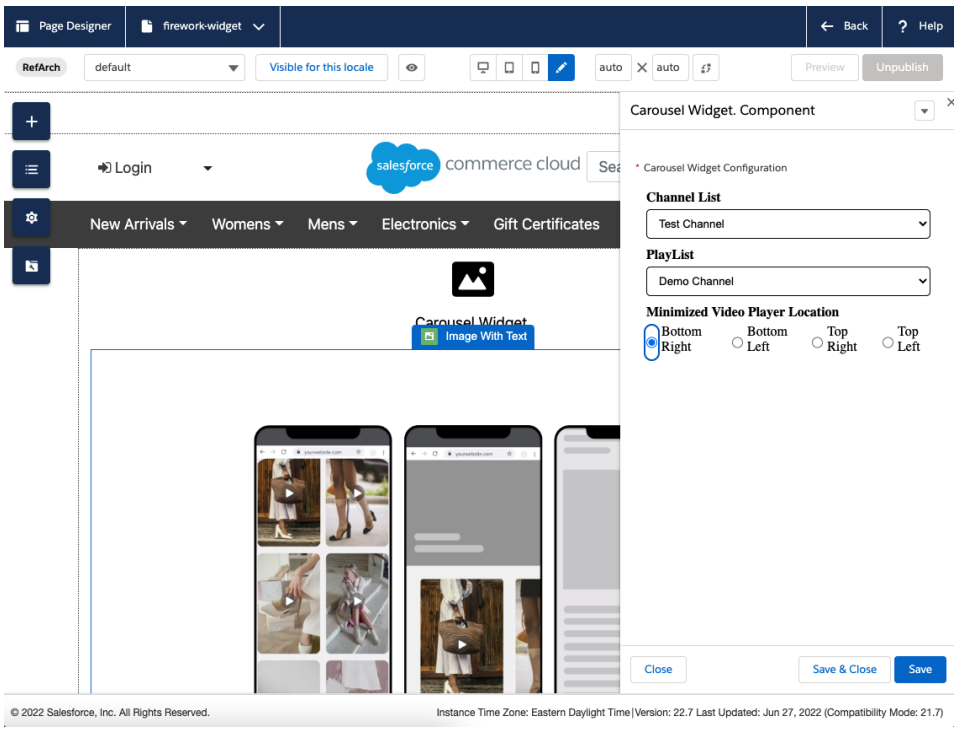
Scenarios:

- Merchants want to add a widget to the Salesforce Commerce Cloud Store using Page Designer.

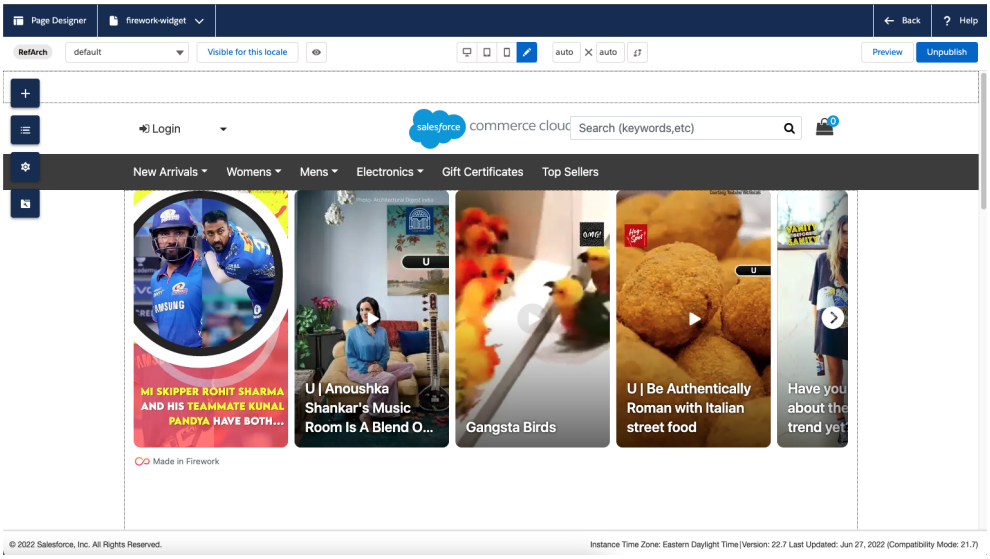
If a merchant wants to add a widget to a page using page designer, they should be able to select the page which they want to add the widget on and select the widget types from the given 5 layout option set.



After User Select the Firework Layout, user should be able to select the channel, playlist, videos from the given layout settings section



Once the user clicks save, Widget would be added to the page.



Limitations, Constraints

No known limitations for any third party integrations.

Testing

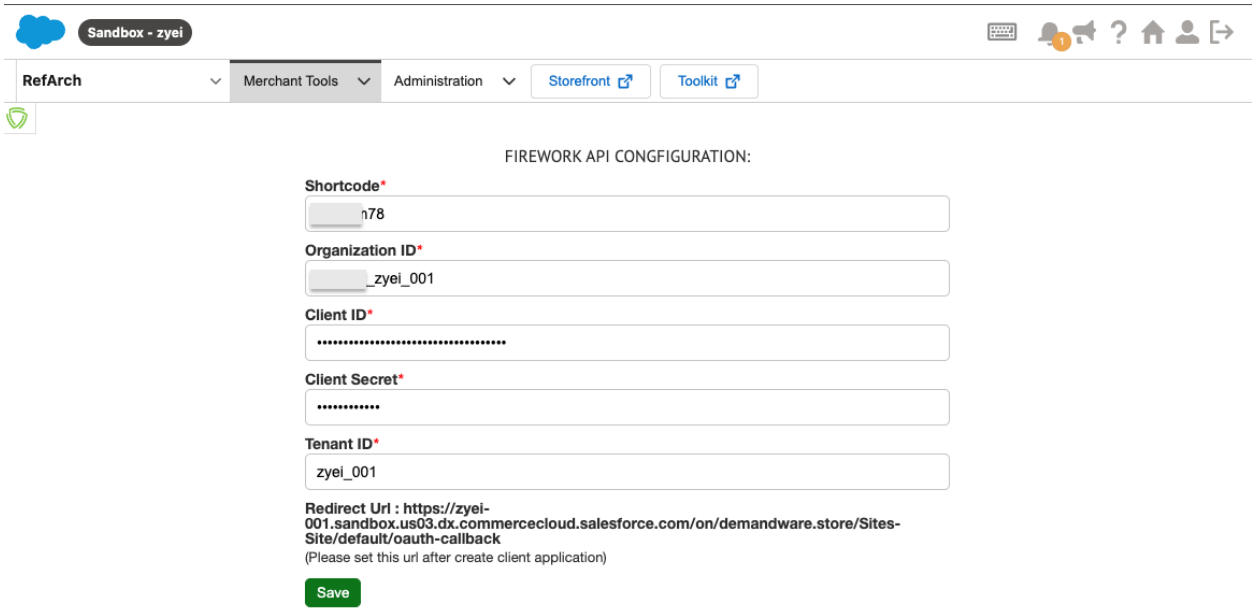
The following high level test cases ensure that the cartridge is working as expected.

Login & Connect to Firework

Test: Select the desired site from the Salesforce Business Manager and Click Click Merchant Tools -> Manage Firework -> Settings -> OAuth Configuration.

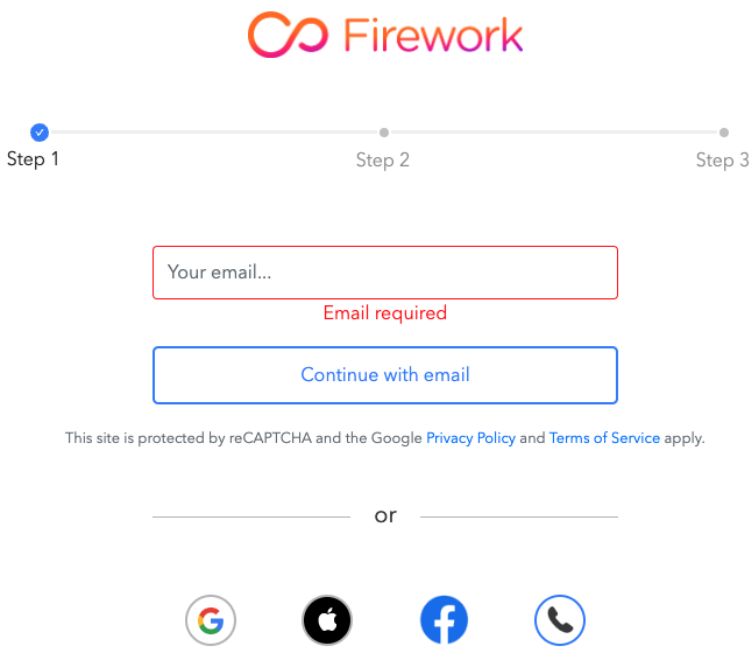
Result:

Firework API Configuration window should be presented



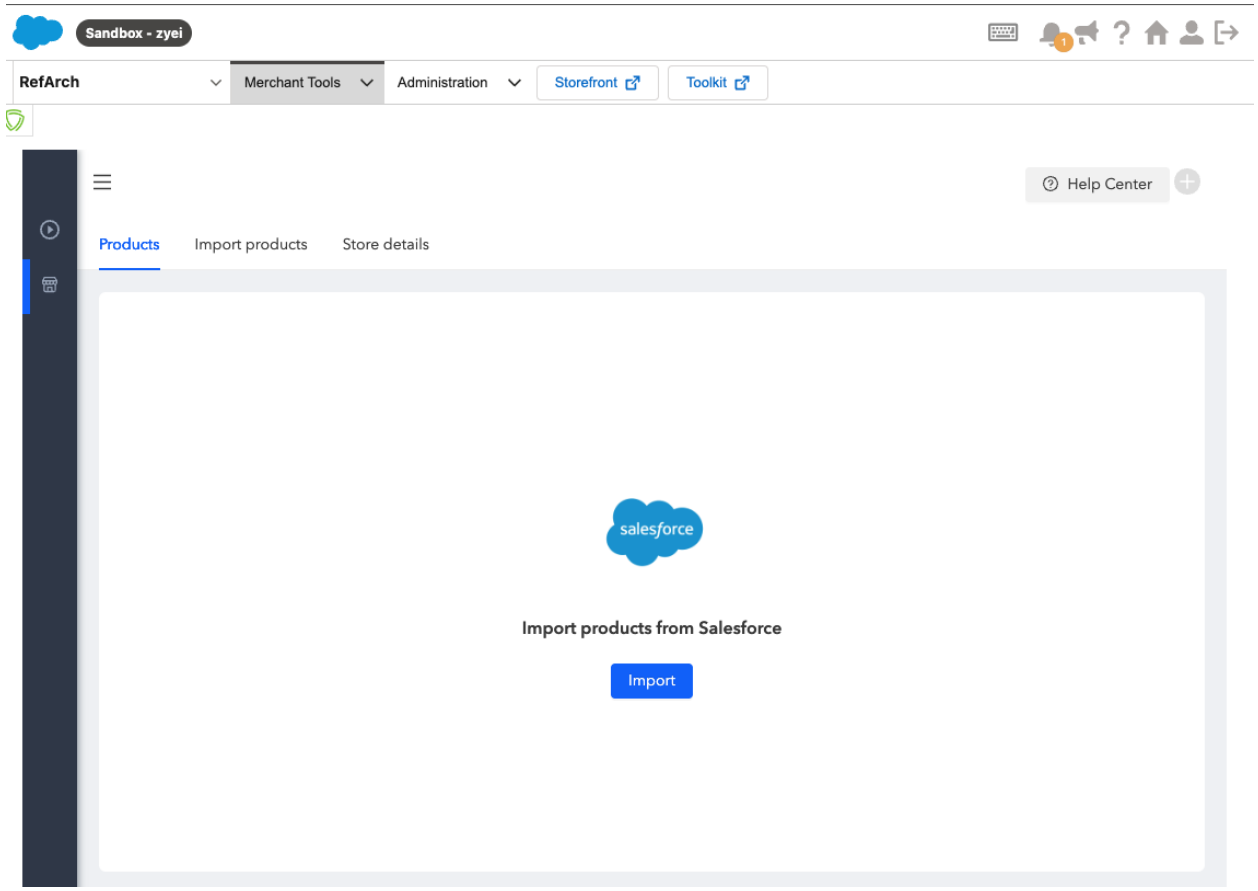
Test: Merchant fill the API Configuration form and click Save

Result: Merchant should be redirected to Firework Login Screen to Connect to Salesforce Commerce Cloud Store



Test: After Login User Create a new Business or Select Existing Business stores

Result: Merchant can select the existing business store and will be redirected back to Salesforce Commerce Cloud Admin Page and load the Firework embedded business portal

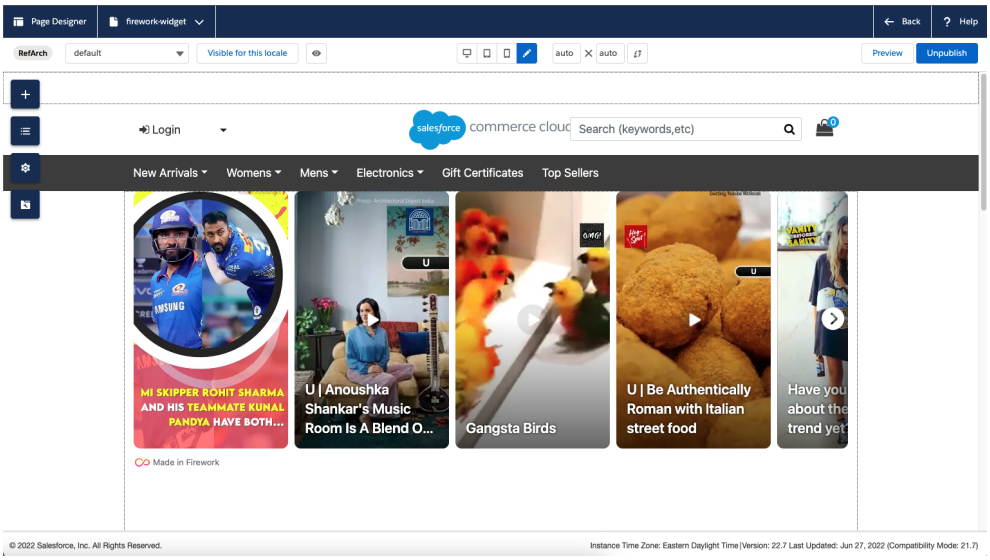


Test:
Merchant want to add a Widget to the page:

1. Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
2. Select the desired site.
3. Click Merchant Tools -> Content -> Page Designer
4. Select the desired page you want to add a widget on.
5. on Page Designer Click `+` Components
6. Select the Widget type from the Firework Widget Section
7. Select Channel and Playlist from the Widget Settings
8. Click Save

Result:

Merchant Open the storefront web page and should be able to see the player widget added on a page



Operations, Maintenance

Data Storage

For data storage we have created two custom objects for store FireworkCO and OauthCO related settings and it is used for to store business and store related data with token details and that token will update using jobs for every 10 min to maintain refresh token to validate firework API access.

Availability

Cartridge functionality will be dependent on the availability of the Firework service.

Support

In order to contact Firework support, visit https://firework.com/contact-us/ or send a support request to support@firework.com.

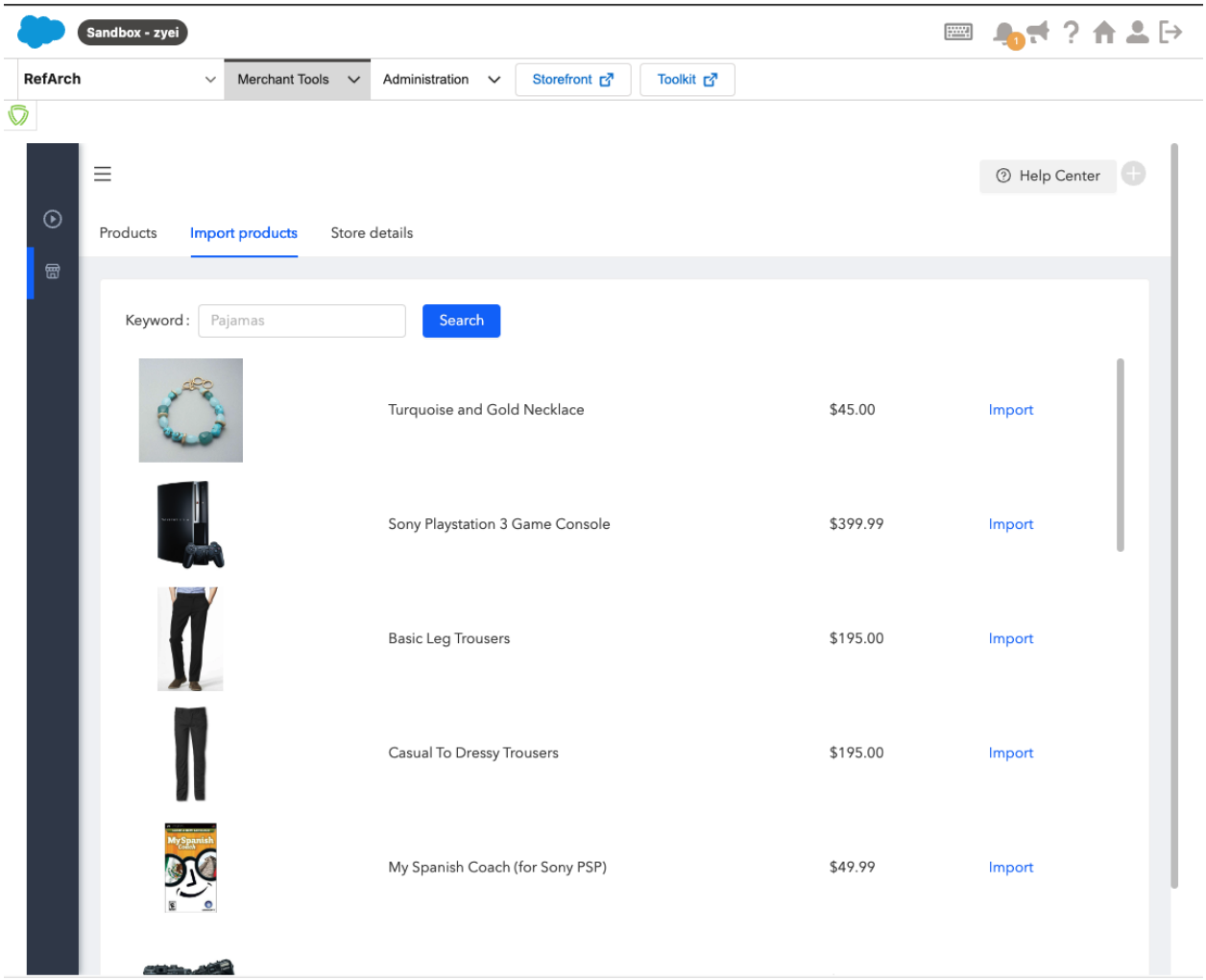
User Guide

Business Manager

This Section aims to provide a quick overview for the Firework Integration Setup. It assumes the cartridge is successfully installed (see Implementation Guide). Also feature the Firework Integration ability to import products into the Firework and Add widget to the page.

Import Products into Firework Business Account

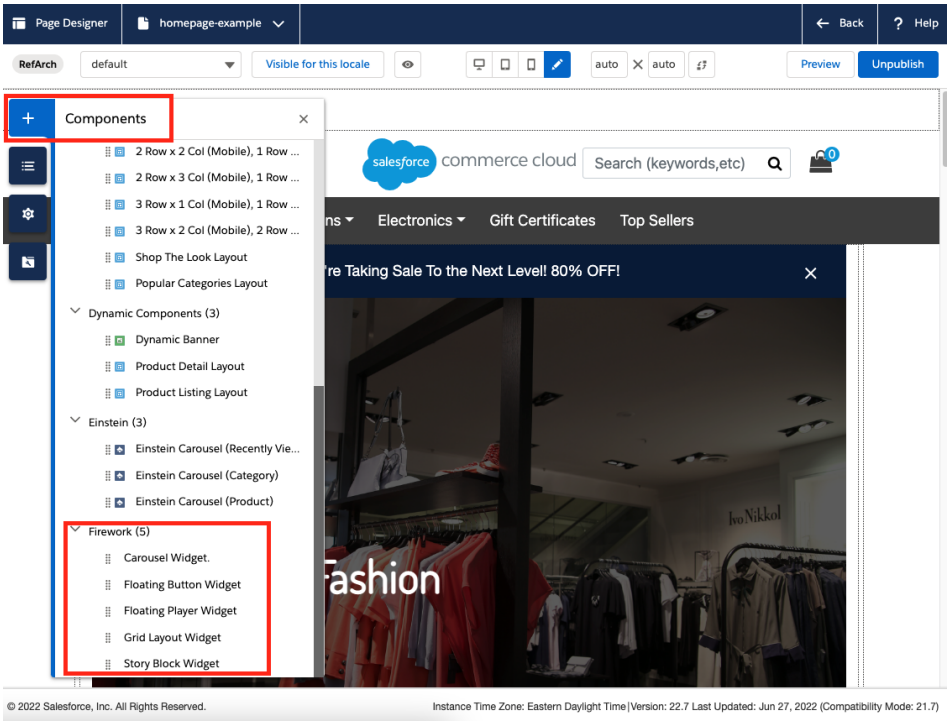
1. Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
2. Select the desired site.
3. Click Merchant Tools -> Manage Firework -> Firework Dashboard
4. Click Import Products
5. You will be presented with a List of all available products from your Salesforce Commerce Cloud Store. Please select the Products from the List which you want to Import into the Firework Account.



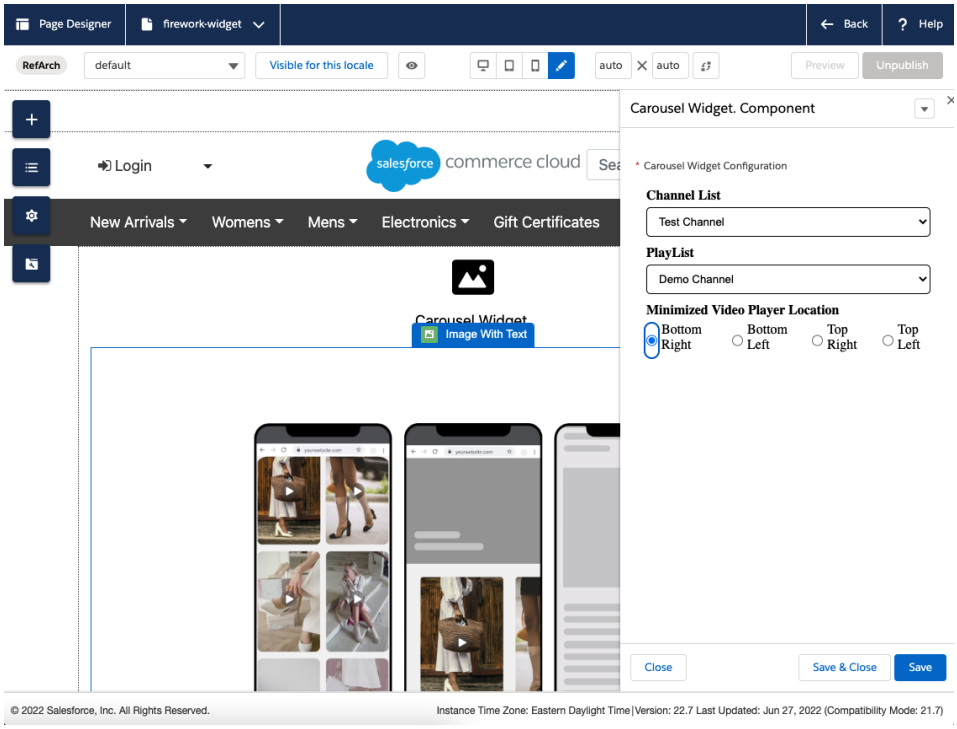
Add Firework Widget to Storefront

9. Log into the Salesforce Commerce Cloud Business Manager on the Staging Server.
10. Select the desired site.
11. Click Merchant Tools -> Content -> Page Designer

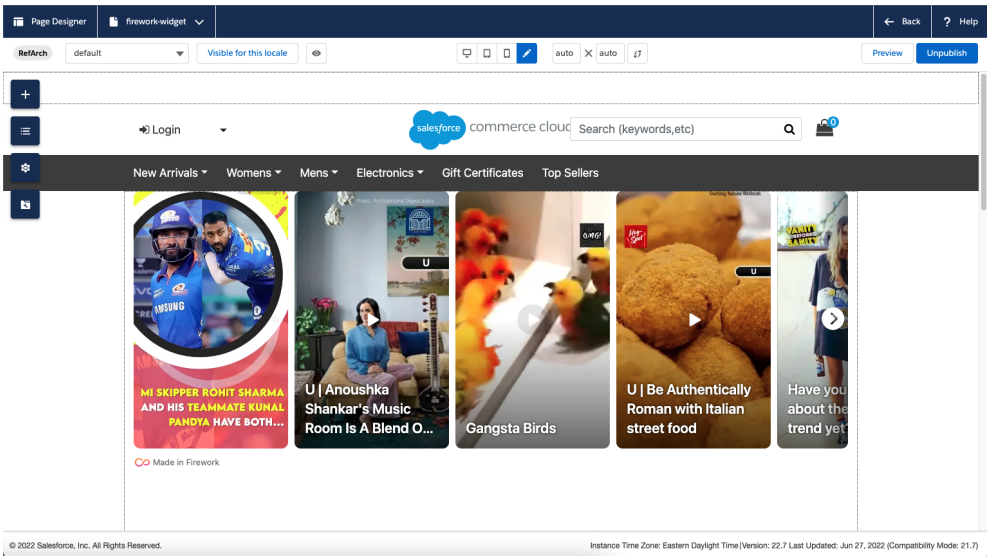
12. Select the desired page you want to add a widget on.
13. on Page Designer Click `+` Components
14. Select the Widget type from the Firework Widget Section



15. Select Channel and Playlist from the Widget Settings

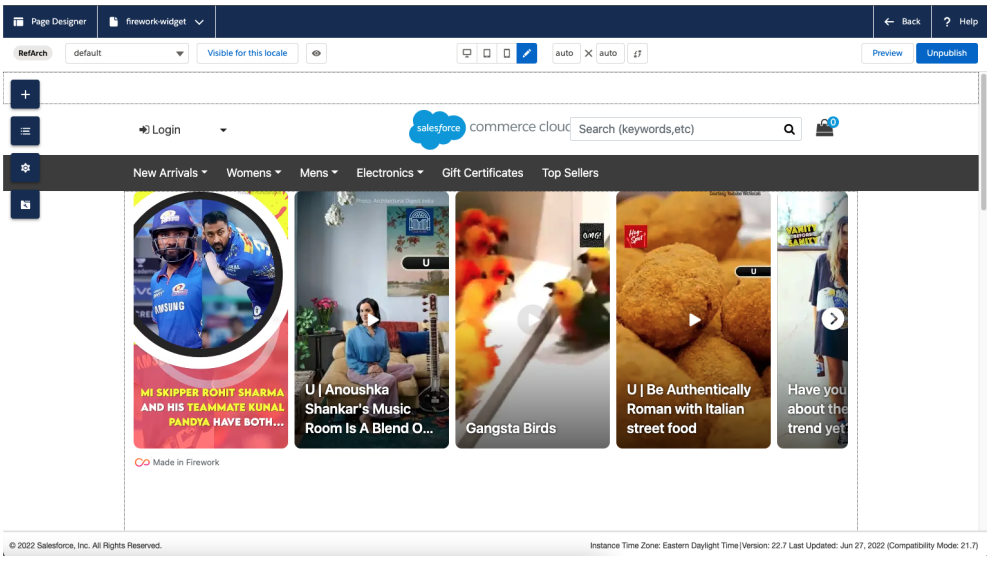


16. Click Save
17. Open the Page view in a new Tab you will find the widget you added.



Storefront Functionality

Merchants should be able to add a widget player widget on the storefront home page using the Page Designer module.



Known Issues

There are currently no known issues.

Release History

Version	Date	Changes
22.1.0	2022-12-01	Initial release