

Save For Later

Version 22.1.0
SFRA version 6.0.0
Compatibility Mode: 21.2



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1. Summary

This custom cartridge is an implementation of the save for later functionality which handles out of stock products added to cart by a customer. This document provides technical instructions for installing Save For Later custom cartridge, step-by-step instructions, and user guide for using this cartridge to save out of stock cart products automatically and manually, moving them back to cart from saved once back in stock automatically and manually. Other custom features are detailed in this document below.

2. Component Overview

Functional Overview

The cartridge is developed to manage out of stock products added to a customer's cart. It saves out of stock products in a separate list also shown on the cart page so customers can proceed with checkout without the out-of-stock products. It also allows customers to order partial cart by saving products other than the desired ones manually.

Use Cases

Following are the use cases implemented in the save for later cartridge:

- As an authenticated customer, storefront user can see out of stock products he/she added in the cart previously in a separate section "saved for later" on cart page
- As an authenticated customer, storefront user can see out of stock products he/she added in the cart previously in a separate section "saved for later" on cart-itemdetails page
- As an authenticated customer, storefront user can see out of stock products he/she added in the cart previously in a separate section "saved for later" in mini cart
- As an authenticated customer, storefront user can see out of stock products he/she added in the cart previously in a separate section "saved for later" on account page
- As an authenticated customer, storefront user can remove products from save for later section on cart page
- As an authenticated customer, storefront user can remove products from save for later section on cart-itemdetails page
- As an authenticated customer, storefront user can remove products from save for later section in mini cart
- As an authenticated customer, storefront user can remove products from save for later section on account page
- For authenticated customers, out of stock products will automatically move to save for later section on cart page
- For authenticated customers, a product will be moved to cart automatically when it is back-in-stock
- As a registered customer, storefront user will get back-in-stock email notification
- As an authenticated customer, storefront user will be able to move any item from cart to save for later section (this feature is configurable from business manager)
- As an authenticated customer, storefront user will be able to move any item (in stock) from save for later section to cart (this feature is configurable from business manager)
- The cartridge is configurable from business manager, merchants can turn the functionality on/off
- As an authenticated customer, storefront user will be able to add any item from save for later to wishlist (this feature is configurable from business manager)

Limitations, Constraints

- The functionality of this cartridge is only available for authenticated or registered customers as mentioned in the use cases above.
- The current version supports for the default locale en_US.

Compatibility

The custom cartridge is designed for Salesforce Commerce Cloud API Version 21.9 (Compatibility Mode: 21.2) with controllers for extended functionality. The cartridge is tested for SFRA 6.0.0.

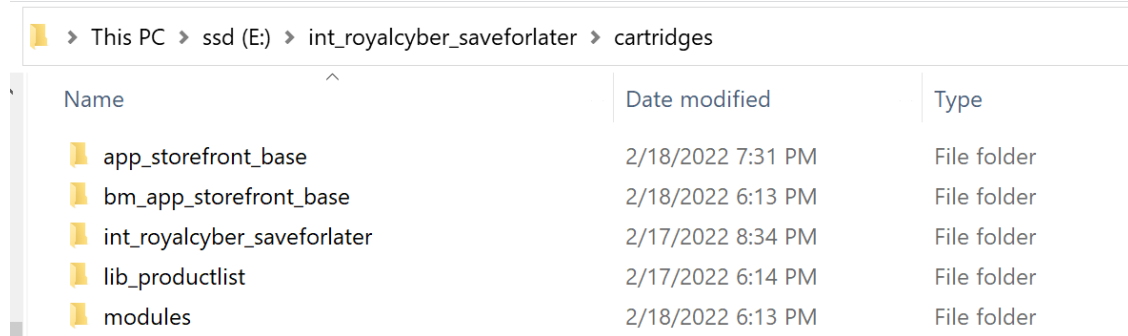
Privacy

The customer's profile information (registered email) is accessed when sending back-in-stock email notification.

3. Implementation Guide

Setup of Business Manager

1. Extract the zip file.
2. Place the folder “int_royalcyber_saveforlater” and “lib_productlist(dependencies)” inside the folder “cartridges” of storefront-reference-architecture.

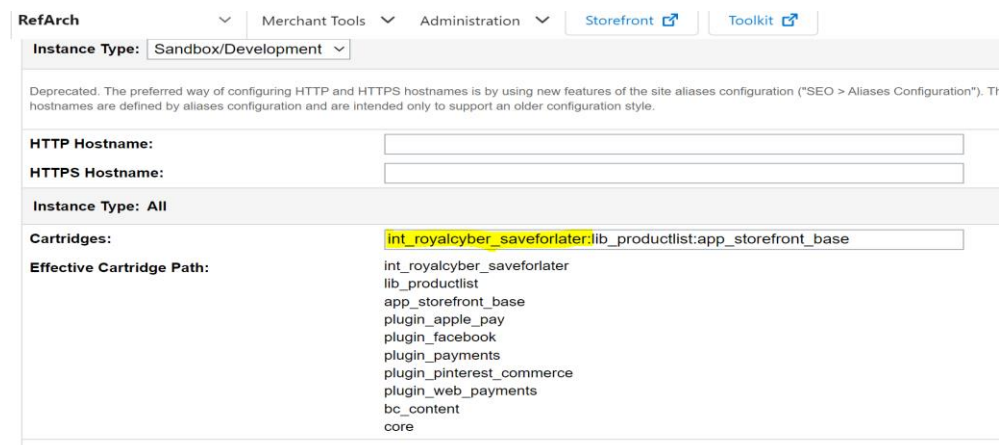


Name	Date modified	Type
app_storefront_base	2/18/2022 7:31 PM	File folder
bm_app_storefront_base	2/18/2022 6:13 PM	File folder
int_royalcyber_saveforlater	2/17/2022 8:34 PM	File folder
lib_productlist	2/17/2022 6:14 PM	File folder
modules	2/18/2022 6:13 PM	File folder

3. Open the file “webpack.config.js” present in the root folder of storefront-reference-architecture and replace “app_storefront_base” with “int_royalcyber_saveforlater” throughout the file.
4. Open the file “package.json” present in the root folder of storefront-reference-architecture and set the following two variables:

```
"packageName": "int_royalcyber_saveforlater",  
"paths": {  
  "base": "./cartridges/app_storefront_base/"  
}
```

5. Compile js and scss for this custom cartridge, execute the following at root folder of storefront-reference-architecture:
npm run compile:js && npm run compile:scss
6. Upload cartridge to the Salesforce Commerce Cloud instance.
7. Login to Business Manager and activate the code version with the uploaded cartridges.
8. Add int_royalcyber_saveforlater in the cartridge path for the target site as show below in the screenshot.



RefArch Merchant Tools Administration Storefront Toolkit

Instance Type: Sandbox/Development

Deprecated. The preferred way of configuring HTTP and HTTPS hostnames is by using new features of the site aliases configuration ("SEO > Aliases Configuration"). If hostnames are defined by aliases configuration and are intended only to support an older configuration style.

HTTP Hostname:

HTTPS Hostname:

Instance Type: All

Cartridges:

Effective Cartridge Path:

- int_royalcyber_saveforlater
- lib_productlist
- app_storefront_base
- plugin_apple_pay
- plugin_facebook
- plugin_payments
- plugin_pinterest_commerce
- plugin_web_payments
- bc_content
- core

9. Apply changes.

Configuration

1. Navigate to Administration -> Site Development -> Site Import & Export.
2. Upload metadata.zip from meta directory.
3. Import metadata.zip.

Custom Code

The cartridge uses Product List system object to save products. Since Product Lists are represented by an attribute “type”, it needs to be unique for “save for later” list. If any other cartridge on path uses Product Lists, make sure that the types being used are different for both cartridges. You can change the Product List type used in the Save For Later cartridge in line 9 of “Cart.js” controller:

```
6 var csrfProtection = require('*/cartridge/scripts/middleware/csrf');
7 var consentTracking = require('*/cartridge/scripts/middleware/consentTracking');
8 var productListHelper = require('*/cartridge/scripts/productListHelpers');
9 var saveForLaterProductlistType = dw.customer.ProductList.TYPE_CUSTOM_1;
10
11 ✓ server.prepend(
12 |   'Show',
```

External Interfaces

This is not applicable as no external interfaces are being used in save for later cartridge.

Firewall Requirements

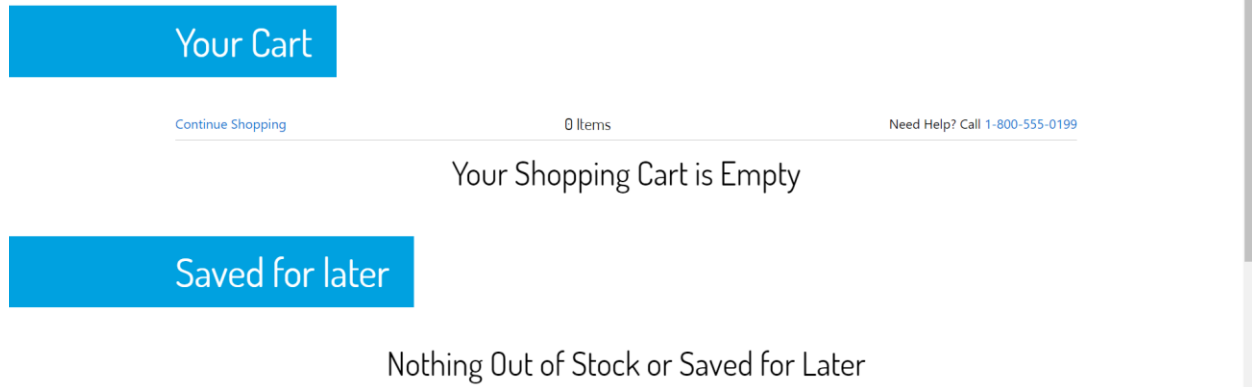
This is not applicable as no firewall requirements are being used in save for later cartridge.

4. Testing

Below are the major use cases and steps to test them:

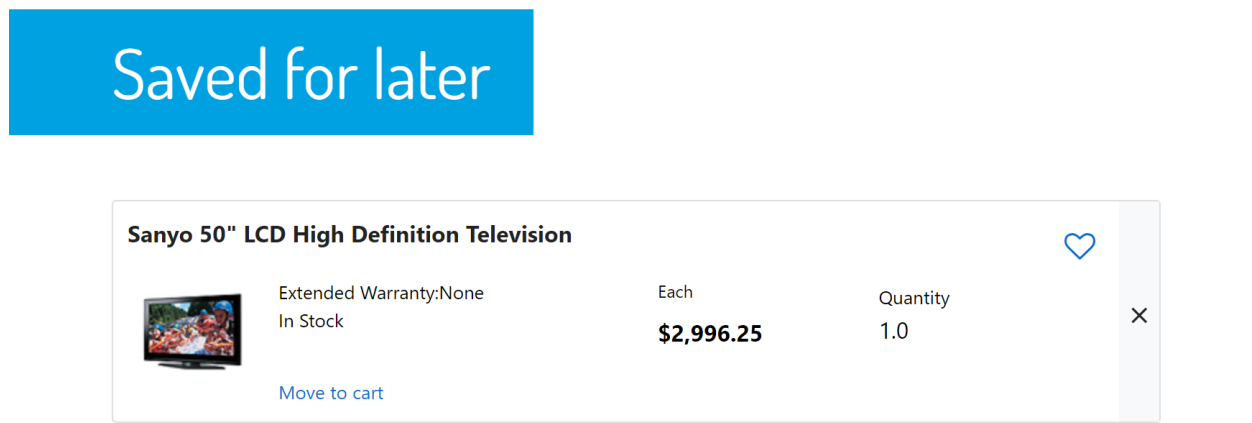
Separate section for saved products

1. Open the storefront and login.
2. Access your cart page.
3. You should see a separate section below your cart labelled Saved for later:




Separate page for saved products

1. Click on view all on a separate section below your cart labelled Saved for later:



Save cart products for later manually

1. Add a few products to your cart. You should be able to see "Save for later" button right next to the edit button on the product card in the cart:

Cotton Straight Shorts


Color: White
Size: 29
In Stock

[Edit](#)
[Save for later](#)

Each
\$145.00

Quantity

1


Total
\$145.00

×

- Click the “Save for later” button, the product will move to Saved for later section below.

Move saved product to cart manually

- You should now see “Move to Cart” button on the product card in Saved for later section:

Cotton Straight Shorts


Color: White
Size: 29
In Stock

[Move to cart](#)

Each
\$145.00

Quantity

1

×

- Click it and the product moves back to cart.

Save out of stock products automatically

- Navigate to PDP of a product added to your cart and note its product ID:

Slim Pants

Item No. 883360520070M



Select Color



Select Size

28

Quantity

1

Availability:

In Stock

2. Navigate to Business Manager. Access Merchant Tools > Products and Catalogs > Products.
3. Paste product ID in the search bar and click find:

[Merchant Tools](#) > [Products and Catalogs](#) > [Products](#)

RefArch - Products

Select **Simple** to search for products by ID or name, **Advanced** to specify more search fields and sorting criteria, or **By ID** to display a list of product IDs. Simple searches are case-sensitive. You can use an asterisk (*) to find matching strings. A wildcard search is also possible (e.g., "Fo*", "*Fo", "Fo*"). See [Product Preferences](#) to add columns to this page and all other product lists.

Product Search Simple Advanced By ID

Name or ID: Find

Select All	ID	Name	Catalog	Color	Refinement Color	Type	Status	View
<input type="checkbox"/>	883360520070M	Slim Pants [Color : Beige / Size : 28]	Apparel Master Catalog	ED5	Beige	Variation Product		

Edit All Edit Selected Assign New Copy Delete

Showing 1 - 1 of 1 items

4. Click on the ID. You will be taken to product page. Navigate to the Inventory tab:

[Merchant Tools](#) > [Products and Catalogs](#) > [Products](#) > 883360520070M -

General Options Variations Pricing **Inventory** Categories Links Recommendations Bundles Product Sets Active Data Page Meta Tag Rules

<883360520070M>

Editing inventory will take you to the Inventory module.

Inventory

The following list shows the inventory data of the product in all of its inventory lists. Click **Edit** to change an inventory record or click **Create** to create a new record for this product in an inventory list.

Search Inventory List										
Enter Inventory List ID: <input type="text"/>		Find		(Enter full inventory list ID or use the wildcard "*" anywhere in your search term.)						
Select All	Inventory List	Perpetual	Allocation	Reset Date	Turnover	On Order	Stock Level	ATS	Availability	
<input type="checkbox"/>	Inventory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Create
<input type="checkbox"/>	Inventory_m (assigned to site 'RefArch')	No	100.00	9/14/21 3:50:33 pm	0.00	0.00	100.00	100.00	@ In-Stock	Edit
<input type="checkbox"/>	Inventory_m_store_german_store	No	0.00	6/8/21 6:39:58 pm	0.00	0.00	0.00	0.00	N/A	Edit
<input type="checkbox"/>	Inventory_m_store_store1	No	1.00	6/10/21 7:20:56 pm	0.00	0.00	1.00	1.00	N/A	Edit
<input type="checkbox"/>	Inventory_m_store_store10	No	3.00	6/8/21 6:40:00 pm	0.00	0.00	3.00	3.00	N/A	Edit

5. Click Edit button for inventory_m. You can now see Slim Pants' inventory:

Product ID: 883360520070M

Name: *Slim Pants*

Perpetual: ☐

Allocation:

Reset Date: 9/14/21 3:50:33 pm

Pre-Order/Backorder Handling: ☒ None ☐ Pre-Order ☐ Backorder

Pre-Order/Backorder Allocation:

In-Stock Date:

Turnover: 0.00

On Order: 0.00

Stock Level: 100.00

Reserved: 0.00

ATS: 100.00

Availability Status: @ In-Stock

Apply Reset



6. Change allocation to "0" and click Apply. Click "Yes" on Reset Allocation dialogue box. The product is not out of stock:

Availability Status:

 **Not Available**

7. Navigate to your cart page again on storefront and you will see this product is automatically moved to Saved for later section:

Saved for later

Slim Pants				
	Color: Beige Size: 28 This item is currently not available	Each \$175.00	Quantity <input type="text"/>	


Move back-in-stock products to cart automatically

1. Change the allocation of the product to “100” again so its back-in-stock now.
2. You will see this product added back to cart again:

Your Cart

[Continue Shopping](#)

1 Items

Slim Pants				
	Color: Beige Size: 28 In Stock	Each \$175.00	Quantity <input type="text" value="1"/>	Total \$175.00
Edit Save for later				

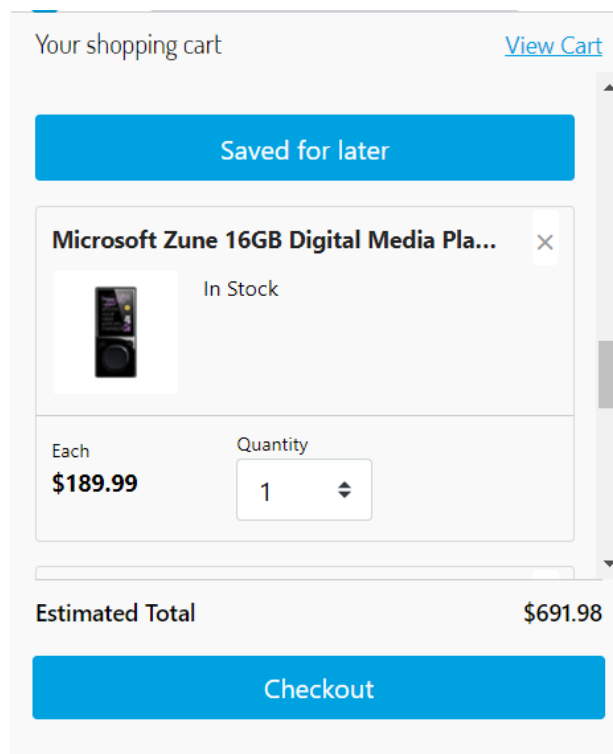
Get back-in-stock email notification

1. The product that you just manually made out of stock was added to the out of stock list of the cart and when it got back-in-stock, an email has to be sent through a job.
2. Navigate to Administration > Operations > Jobs. Go to job named “rc_SaveForLater” and click the “Run Now” button:

3. Check the inbox of your email address registered in the storefront. You should have gotten a back-in-stock email with a cart link.

Separate Section for Saved Products in Mini Cart

1. When you have added a few products to your basket and saved for later list, hover over the mini cart icon.
2. You can see Saved for Later section in the mini cart



Remove Products from Saved For Later Section

1. Click on the remove button (with a cross) in the card of a saved product in the Save For Later section on the cart, the mini cart, or on the account page.
2. The product will be removed from the saved products.


Separate Section for Saved Products on Account Page

1. When you have added a few products to your basket and saved for later list, click on My Account.
2. You can see Saved for Later section on account page.

Save For Later

View Cart

Sanyo 50" LCD High Definition Television



Extended Warranty:None

In Stock

Each


\$2,996.25

Quantity

2.0

×

Vizio VP422 42" Plasma High Definition Plasma Television



Extended Warranty:None

In Stock

Each


\$729.99

Quantity

1.0

×

Pioneer 50" KURO Plasma High Definition Television



Extended Warranty:None

In Stock

Each

\$2,999.99

Quantity

1.0

×

Add Products from Saved For Later to Wishlist

1. Install plugin_wishlists.
2. Navigate to Merchant Tools > Site Preferences > Custom Preferences>SFRA Unified feature Cartridge.
3. Click on SFRA-Enable Wishlist and set preference yes for proper functioning.

SFRA - Enable Wishlist

(sfraEnableOverlayWishlist)

Enables the Wishlist plugin in the SFRA Unified Feature Cartridge. Note: The cartridge plugin_wishlists must be added to the cartridge path and uploaded to your instance.

Yes


Yes

Edit Across Sites

4. Add a few products to basket and saved for later list in storefront, click on heart button to add them in your Wishlist.

Saved for later

Sanyo 50" LCD High Definition Television



Extended Warranty:None

In Stock

Each

\$2,996.25


Quantity

2.0

×

Move to cart

Front Rise Straight Leg Pants



Color: Beige

Size: 30

In Stock

Each

\$175.00

Quantity

2.0

×

Move to cart

5. You can see Saved for Later product added on Wishlist page.

Test the working of custom preferences

1. Navigate to Merchant Tools > Site Preferences > Custom Preferences.

Save For Later

14

2. Click on RoyalCyber_SaveForLater custom preference group.
3. You should see three custom preferences:

RoyalCyber_SaveForLater ? Cancel Apply to Other Sites Save

Instance Type
Sandbox

Search by ID Q T 1-3 of 3

Name	Value	Default Value	
Cart to Save For Later* (rc_cartToSaveForLater)	Yes	Yes	Edit Across Sites
Save for Later to Cart* (rc_saveForLaterToCart)	Yes	Yes	Edit Across Sites
Enable Save For Later Cartridge* (rc_enableSaveForLater)	Yes	Yes	Edit Across Sites

4. Change the value of “Cart to Save For Later” preference to No and click save.
5. Revisit the Cart page and the “Save for later” button on the product card for your basket items should be removed.
6. Similarly, the “Move to cart” button will disappear upon setting “Save for Later to Cart” preference to No.
7. The “Enable Save For Later Cartridge” preference disables the whole cartridge if set to No. Saved For Later section will be removed from both Cart and Mini Cart areas. Also the job and all other associated functionalities will cease to work.
8. Set all preferences to Yes again for proper functioning of the cartridge.

5. Operations, Maintenance

Data Storage

A custom object named “Back In Stock Notification” is stored in the Business Manager. It is used to send back-in-stock notification to customers when a product in their cart comes back in stock. It has the following attributes:

Attribute ID	Attribute Name	Description
rc_ID	String - key attribute	Combination of product ID and customer number
rc_productID	String	Product ID of the back in stock product
rc_customerNo	String	Customer number of the customer whose cart this product is added in
rc_notificationCount	Integer	The number of times back in stock notification has been sent to the customer, is always less than 5
rc_markAsDelete	Boolean	Represents that the customer bought that product, and this record needs to be deleted

The “rc_SaveForLater” job also cleans the records marked for deletion so when a customer buys a product previously saved, its record is cleaned.

Availability

Since save for later cartridge is not an integration cartridge. Save for later product list is stored within SFCC in ProductList system object. The availability of data is only dependent on SFCC.

Failover/Recovery Process

This is not applicable as save for later cartridge perform data CRUD operations on SFCC system object ProductList and data is persisted within SFCC.

Support

Please check the GitHub repo link

6. User Guide

Roles, Responsibilities

A Business manager administrator role is required to install the cartridge and import the metadata on SFCC instance.

Business Manager

The “rc_SaveForLater” job has site scope and contains the following two custom steps:

rc_SaveForLater[?]

[General](#) [Schedule and History](#) [Resources](#) [Job Steps](#)

Job Parameters 0

Scope: RefArch

rc_removeMarkedRecords

rc_backInStockEmail

The first step performs the cleanup before sending the email so the customers who have already purchased the product don't get the notification again.

The second step then accesses the custom object and sends back in stock notification to all the customers as recorded.

Storefront Functionality

1. Visit the cart page to see the cartridge functionality.
2. You can see a separate section for saved products.

Your Cart


[Continue Shopping](#) 0 Items [Need Help? Call 1-800-555-0199](#)

Your Shopping Cart is Empty

Saved for later

Nothing Out of Stock or Saved for Later

3. The products in cart have a Save for later button displayed which moves them to the saved for later section.

Cotton Straight Shorts


Color: White
Size: 29
In Stock

Each
\$145.00


Quantity

Total
\$145.00

[Edit](#) [Save for later](#)

×

4. The products that are saved for later have a move to cart button which moves them back to cart. However, the products that are out of stock cannot be moved back to cart.

Cotton Straight Shorts


Color: White
Size: 29
In Stock

Each
\$145.00

Quantity

[Move to cart](#)


×

5. You can also find a saved for later section in the mini cart area.

Your shopping cart [View Cart](#)

Saved for later

Microsoft Zune 16GB Digital Media Pla...


In Stock

Each
\$189.99

Quantity

Estimated Total **\$691.98**

Checkout

7. Known Issues

No known issues.

8. Release History

Version	Date	Changes
21.1.0	2021-09-15	Initial release