Save For Later

Version 22.1.0
SFRA version 6.0.0
Compatibility Mode: 21.2

Developed by Aqsa Shahzad

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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.

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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.
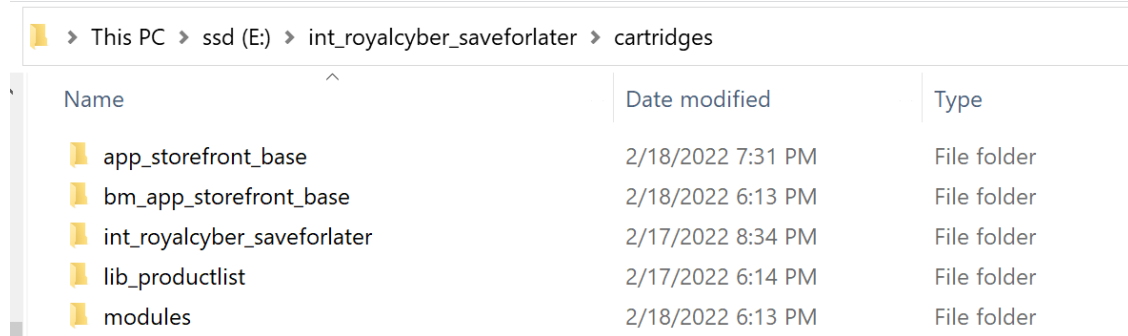
Privacy

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

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3. Implementation Guide

Setup of Business Manager

1. Extract the zip file.
2. Place the folder "int_royalcyber_saveforlater" and "lib_produclist(dependencies)" inside the folder "cartridges" of storefront-reference-architecture.
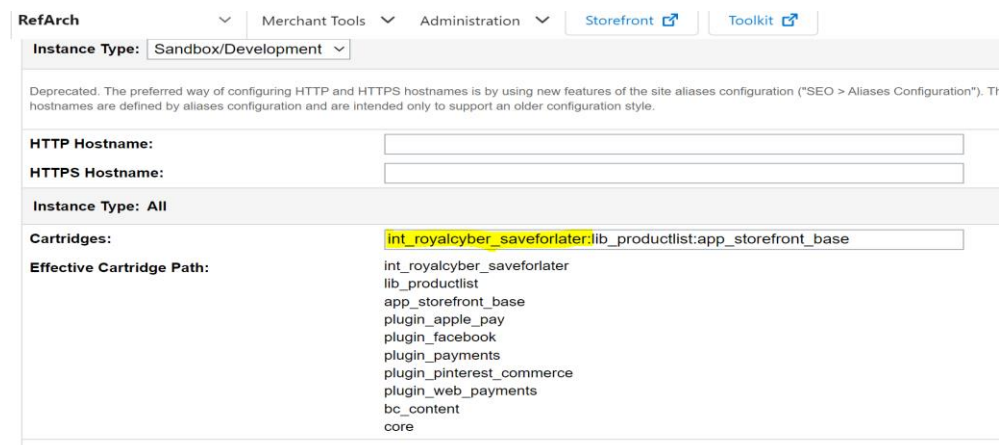
Name	Date modified	Type
app_storefront_base	2/18/2022 7:31 PM	File folder
bm_app_storefront_base	2/18/2022 6:13 PM	File folder
int_royalcyber_saveforlater	2/17/2022 8:34 PM	File folder
lib_productlist	2/17/2022 6:14 PM	File folder
modules	2/18/2022 6:13 PM	File folder

This PC › ssd (E:) › int_royalcyber_saveforlater › cartridges

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.

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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.

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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:
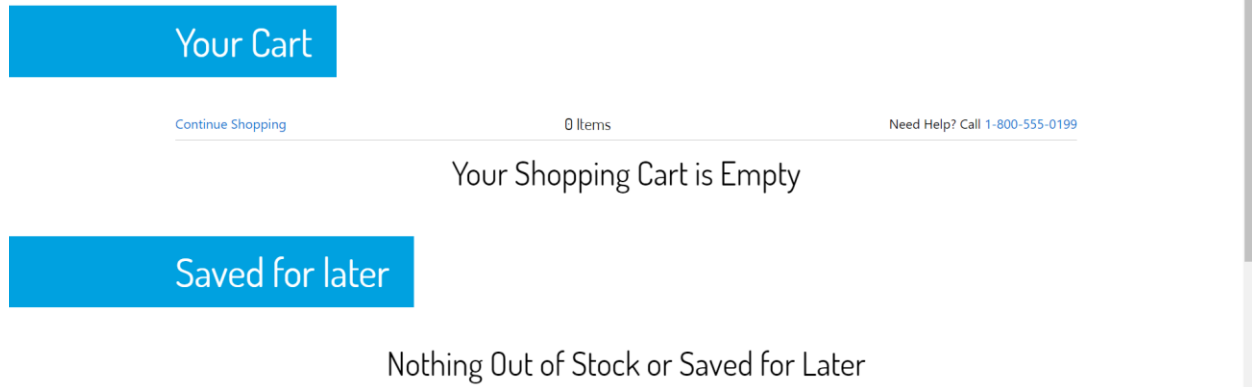
Separate page for saved products

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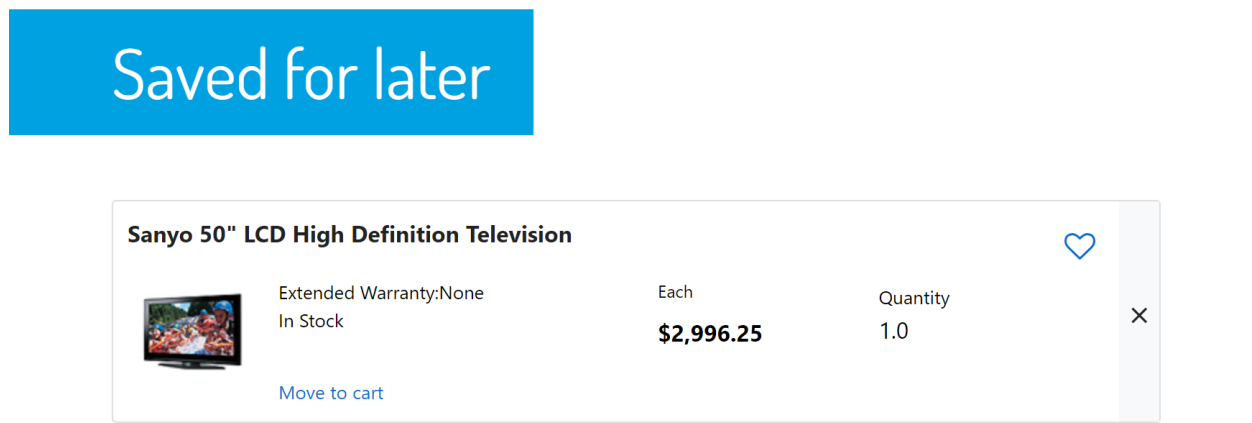
Save cart products for later manually

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:

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2. Click the "Save for later" button, the product will move to Saved for later section below.

Move saved product to cart manually

1. You should now see "Move to Cart" button on the product card in Saved for later section:

2. Click it and the product moves back to cart.

Save out of stock products automatically

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

Slim Pants

Item No. 883360520070M   ★★★☆☆

Select Color

✓

Select Size   Quantity

| 28 | ⇕ |

| 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:

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

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

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

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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:

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Slim Pants

Color: Beige
Size: 28
This item is currently not available

Each
$175.00

Quantity

✕

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

Edit   Save for later

Each
$175.00

Quantity
1

Total
$175.00

✕

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
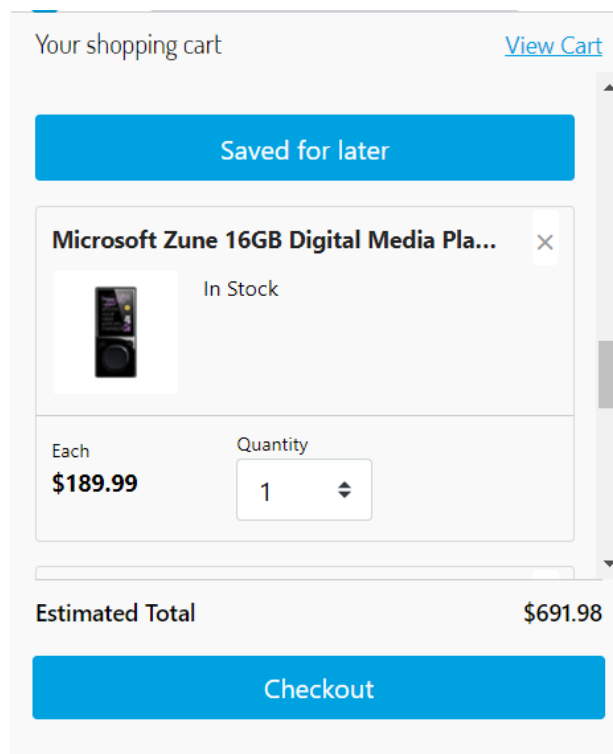
Remove Products from Saved For Later Section

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.

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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.

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

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.

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

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 diables 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.

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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:

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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.

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

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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.

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

7. Known Issues
No known issues.

8. Release History

Version	Date	Changes
21.1.0	2021-09-15	Initial release