Subscribe Pro

Version 17.1.0

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1. Summary

This document provides technical instructions for installing the Commerce Cloud Integration LINK integration that lets you integrate Subscribe Pro product subscriptions with a Commerce Cloud storefront.

This cartridge integrates Salesforce Commerce Cloud with the Subscribe Pro Subscription Commerce Platform.

This integration requires deployment of a new cartridge and modification of Storefront code.

A subscription to the Subscribe Pro solution is required to use this cartridge.
Sandbox (testing) environments are available.

Provided “int_subscribe_pro” cartridge is implemented using controllers architecture.

This integration is based on the Site Genesis demo store provided by Commerce Cloud.

2. Component Overview

2.1 Functional Overview

Subscribe Pro enables brands and retailers to add subscription commerce, auto-ship, continuity, clubs, boxes and recurring billing features to their existing eCommerce site, fully integrated with their existing eCommerce technology. Subscribe Pro supports supports recurring payments via credit card, ApplePay and eCheck, with pre-built integrations for all common payment gateways. Contact us today to find out how our solution can help you implement a product subscription program.

2.2 Use Cases

Scenario: A user visits a site that has subscription products available to purchase and would like to purchase those Products one time in order to try the product out before signing up for a recurring subscription.

Result: User will be presented with various options to subscribe to the subscription product with one of the options being a one time purchase. The user should be able to add this product to cart and checkout as if the product is a normal product in the catalog. Messaging should be present throughout checkout to inform the user that this is a one time purchase.

Scenario: A user visits a site that has subscription products available to purchase and would like to purchase a subscription product on a recurring interval automatically.

Result: User will be presented with various options to subscribe to the subscription product with one of the options being a subscription. The user should be able to add this product to cart and checkout as if the product is a normal product in the catalog. Messaging should be present throughout checkout to inform the user that this is a subscription purchase and display the interval they have chosen for repeat orders.

Scenario: A user has added some subscription products to their Basket and would like to adjust some of the values.

Result: User will be presented with options to change their subscription settings on the Cart Page. The user will also be able to click the “edit” link, on the subscription product, and change the subscription options in the quick view dialog.

Scenario: User has purchased a subscription product. The next time the ProcessSubproSubscriptions is run the necessary details about the customer and the products purchased will be transmitted to Subscribe Pro and the order will be marked as having been processed.

2.3 Limitations, Constraints

- Merchants must be enrolled at Subscribe Pro
- Subscription products must be configured at Subscribe Pro and Sales Force Commerce Cloud
- Apply Pay or a Credit Card will be required for subscription products
- Merchant must use Subscribe Pro as their Apple Pay Provider, if they want to use Apple Pay for Subscription Products
- Customers must be logged into the storefront in order to purchase subscription products
- Customer must save their Credit Card to their account in order to purchase subscription products

2.4 Compatibility

Compatible Demandware API version 16.2
Compatible Site Genesis version 17.4

2.5 Privacy, Payment

Customer profile data and payment information will be transferred and stored at Subscribe Pro.

This information includes:

- Name
- Email
- Address Details
- Saved Payment Instrument ID

Subscribe Pro will be handling Apple Pay Payment transactions. Subscribe Pro will store the Customers saved Payment Instrument ID, in order to process recurring orders.

3. Implementation Guide

3.1 Setup

Subscribe Pro LINK integration uses the following cartridges:

- *int_subscribe_pro* – this cartridge contains all controllers, templates and scripts to create and display Subscribe Pro subscriptions. Also LINK-subscribe-pro contains the Business Manager XML imports such as the System Object Types customizations, services configurations and configuration of job for processing orders with pending subscription request.
- *app_storefront_controllers*,
- *app_storefront_core* – standard storefront cartridges with Subscribe Pro integrated. They can be used as an example for the integration and testing the cartridge.

Complete the following steps to install the cartridge.

Initial Install

See the Commerce Cloud documentation for adding a cartridge to your storefront: https://documentation.demandware.com/DOC1/index.jsp?topic=%2Fcom.demandware.dochelp%2FSiteDevelopment%2FAddinganexistingcartridgetoyourstorefront.html&cp=0_4_0_0_3

Note. You must also register the cartridge with the Business Manager site in order to run the Subscribe Pro jobs. Navigate to *Administration > Sites > Manage Sites > Business Manager > Settings tab*.

Update Site's cartridge path

1. Navigate to *Administration > Sites > Manage Sites > [SiteName] > Settings tab*.
2. Add "`:int_subscribe_pro`" to the effective cartridge path.
3. Click "Apply".

Install Services

1. Navigate to *Administration > Operations > Import & Export > Services*
    a. Import the profile and credentials found in the following XML
        i. LINK-subscribe-pro/Metadata/services/services-shared.xml
    b. Import the service definitions found in the following XML
        i. LINK-subscribe-pro/Metadata/services/services.xml

Import Meta Data

1. Navigate to *Administration > Site Development > Import & Export > Meta data*.
2. Import the System Object custom attributes found in the following XML
    a. *LINK-subscribe-pro/Metadata/meta/system-objecttype-extensions.xml*

After import, following system definition attributes should appear in the system:

System object definitions

CustomerAddress			
ID	**Name**	**Type**	**Description**
subproAddressID	Subscribe Pro Address ID	String	This attribute will contain the address id that is returned from Subscription Pro upon creating this address in the Subscribe Pro system.
CustomerPaymentInstrument			
ID	**Name**	**Type**	**Description**
subproPaymentProfileID	Subscribe Pro Payment Profile ID	String	This attribute will contain the payment profile id that is returned from Subscription Pro upon creating payment profile record in the Subscribe Pro system.
subproCCPrefix	Credit Card Prefix	String	This attribute will contain the first 6 digits of the customers Credit Card, to be sent to Subscribe Pro.
Order / Basket *Basket duplicates the order attributes so that they will automatically be passed from one to another.*			
ID	**Name**	**Type**	**Description**
subproContainsSubscriptions	Contains Subscriptions	Boolean	This attribute will be used to quickly assess if an order has subscriptions contained within it
subproSubscriptionsToBeProcessed	Subscriptions to be processed	Boolean	This attribute will note whether or not this order has subscriptions that need to be processed. This value will be set to true if any products in the basket have subscriptions and will be set to false after those subscriptions have been processed
OrderAddress			

ID	Name	Type	Description
subproAddressID	Subscribe Pro Address ID	String	This attribute will contain the address id that is returned from Subscription Pro upon creating this address in the Subscribe Pro system.
customerAddressID	SFCC Customer Address ID	String	This attribute will contain the SFCC customer address id. This information may be useful when a customer is updating subscription options after an order has been placed.
Product			
ID	**Name**	**Type**	**Description**
subproSubscriptionEnabled	Subscription Enabled	Boolean	This will decide whether or not the PDP should attempt to show subscription information
ProductLineItem			
ID	**Name**	**Type**	**Description**
subproSubscriptionOptionMode	Subscription Option Mode	String	This attribute will contain a value for whether or not if this product is subscription or a one time purchase. Possible values are: onetime_purchase subscription
subproSubscriptionSelectedOptionMode	Subscription Selected Option Mode	String	This attribute will contain subscription mode which was chosen on this ProductLineItem
subproSubscriptionInterval	Subscription Refill Interval	String	This attribute will contain the user selected time interval to refresh a subscription product
subproSubscriptionAvailableIntervals	Subscription Available Intervals	String	This attribute will contain a string with names of available subscription refill intervals, separated by comma
subproSubscriptionCreated	Subscription Created	Boolean	
subproSubscriptionDateCreated	Subscription Date Created	Date	
subproSubscriptionID	Subscription ID	String	This will be populated when the order processing occurs and the actual subscription is created.

subproSubscriptionDiscount	Subscription Discount	Double	This attribute will contain subscription discount offered on this product, as either a percentage or a fixed price, depending on the value of the subproSubscriptionIsDiscountPercentage property
subproSubscriptionIsDiscountPercentage	Subscription Is Discount Percentage	Boolean	This attribute will contain true if the discount on the product specified as a percentage or false if it is a fixed price amount.
Profile			
ID	**Name**	**Type**	**Description**
subproCustomerID	Subscribe Pro Customer ID	String	This attribute will contain the customer id that is returned from Subscription Pro upon creating this customers records in the Subscribe Pro system.
Site preferences *Please configure the following site preferences:*			
ID	**Name**	**Type**	**Description**
subproApplePayLoginMsg	Subpro Apple Pay Login Message	String	Message informing customer that he/she needs to be logged in as a registered customer to use Apple Pay with SubPro Subscription products
subproCheckoutLoginMsg	Subpro Checkout Login Message	String	This attribute will contain a message that informs customer that he/she needs to be logged in as a registered customer to proceed checkout with SubPro Subscription products
subproCreditCardRequirementMsg	Subpro Credit Card Requirement Message	String	This attribute will contain an error message noting that a credit card is required for subscriptions
subproOrderProcessingErrorMail	Subscribe Pro Order Processing Error Mail	String	An email address that order subscriptions processing failures will be sent to
subproWidgetScriptUrl	Subscribe Pro Widget Script Url	String	URL to Subscribe Pro Widget Script
subproApiBaseUrl	Subscribe Pro API Base Url	String	Subscribe Pro API Base URL
subproAPICredSuffix	Suffix to append to the Subscribe Pro Web Service Credentials	String	Suffix to append to the Subscribe Pro Web Service Credentials
Payment Card			

ID	Name	Type	Description
subproCardType	SubPro Card Type	String	Credit Card Type that matches the Credit Card Types at Subscribe Pro

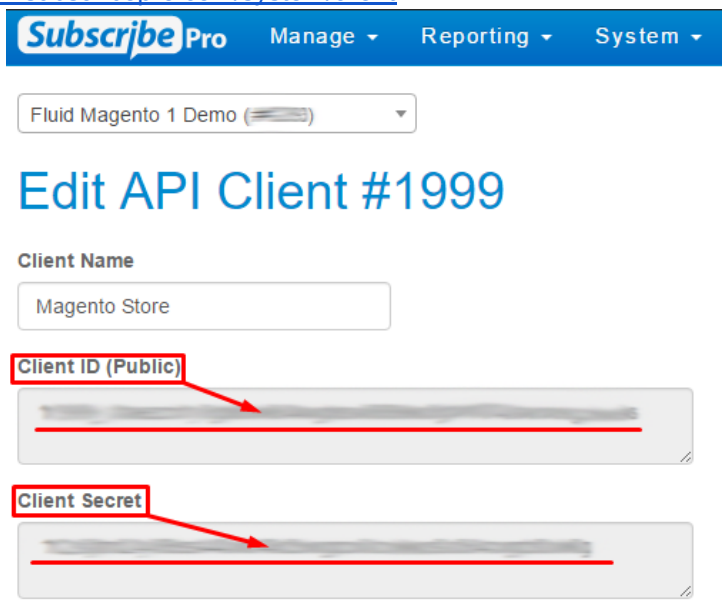
Import ProcessSubproSubscriptions job

1. Navigate to *Administration* > *Operations* > *Import & Export* > *Job Schedules*.
2. Import the System Object custom attributes found in the following XML
    a. *LINK-subscribe-pro/Metadata/jobs/process-orders-job.xml*

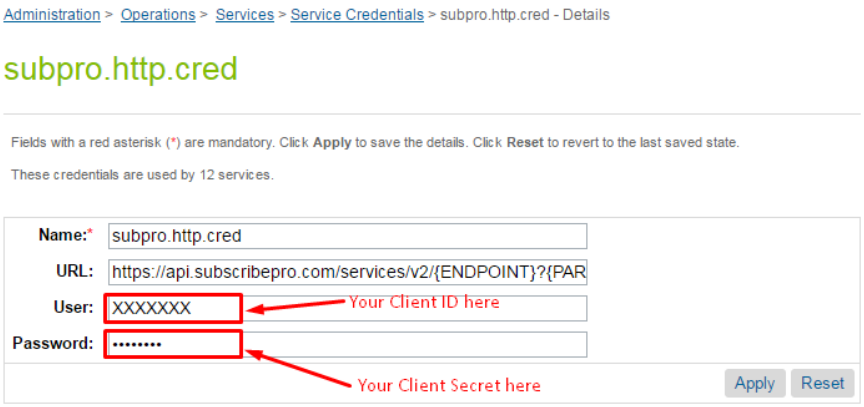
3.2 Configuration

Update Web Service Credentials

1. Get your Client ID and Client Secret in Subscribe Pro BM: https://platform.subscribepro.com/system/client



2. Navigate to *Administration > Operations > Services > Service Credentials > subpro.http.cred - Details*
3. Use Client ID as User and Client Secret as Password:



4. Navigate to *Administration > Operations > Services > Service Credentials > subpro.http.cred.oauth - Details*
5. Use Client ID as User and Client Secret as Password (the same as above).

Setup Schedule Job to process orders with pending subscriptions

The job will process all orders that have any subscriptions that need to be processed.

Configure job parameters:

1. Navigate to *Administration* > *Operations* > *Job Schedules* > *ProcessSubproSubscriptions* job.
2. On tab *Schedule and History* set run interval (default is every 15 minutes).
3. Open *Step Configurator* tab, choose *ProcessSubproSubscriptions-Process* workflow.
4. Set (***in hours***) custom parameter *ordersProcessInterval* to define what the start time for the search placed orders should be.
5. Click “Assign” button.

To configure products which will have a subscription you'll need to make changes to SFCC Business Manager as well as to Subscribe Pro Business Manager.

There are different type of products that can be configured:

- Standard Product
- Variation Product
- Variation Masters
- Product Bundles
- Product Sets
- Option Product

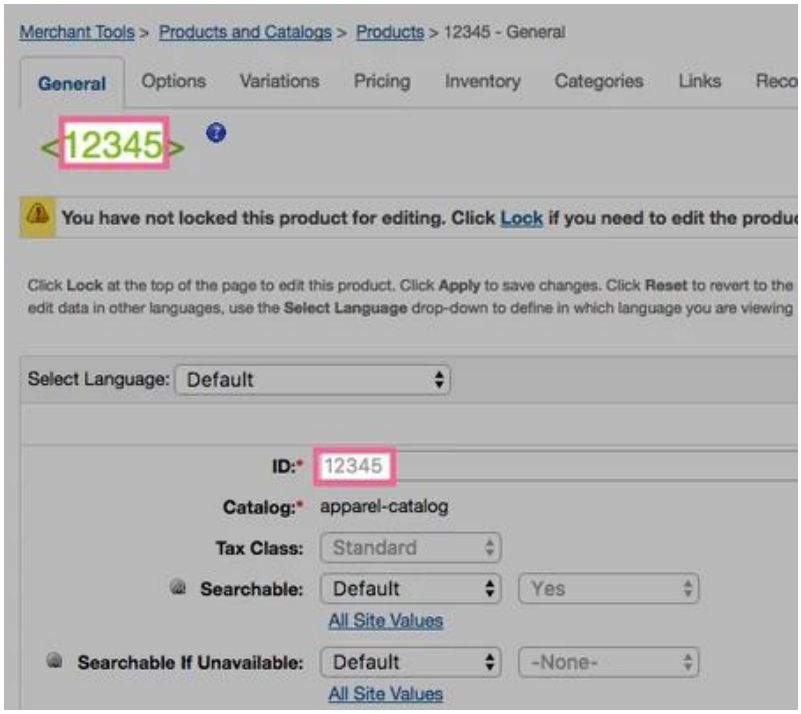
Below described action you need to perform to configure each type of product.

Standard Product

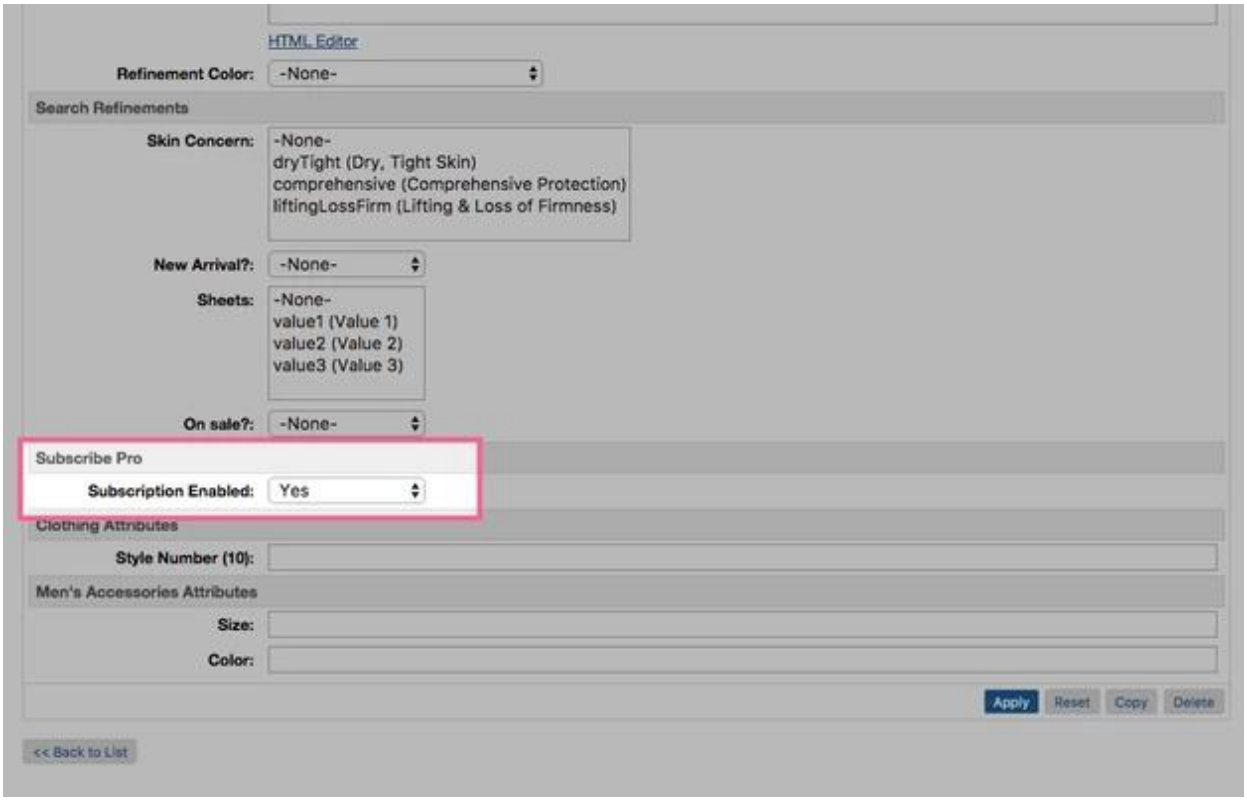
Standard Product is a product that is sold and displayed alone and does not have variations, such as different sizes or colors. If you include a standard product in a product set or product bundle, it is considered a set product or bundled product, and not a standard product.

Configuring Product on the Commerce Cloud Platform

The PDP page will take the Commerce Cloud Product ID and make an API request to the Subscribe Pro Products API Endpoint using the Commerce Cloud Product ID as the "sku" parameter.
The following image shows the Product ID that should be configured as a SKU in the Subscribe Pro Platform.



This API call will only be attempted if the Commerce Cloud Product has the: **Subscription Enabled** custom attribute set to: **true**.
The following image shows this setting in the following Business Manager Module:
Merchant Tools > Products and Catalogs > Products

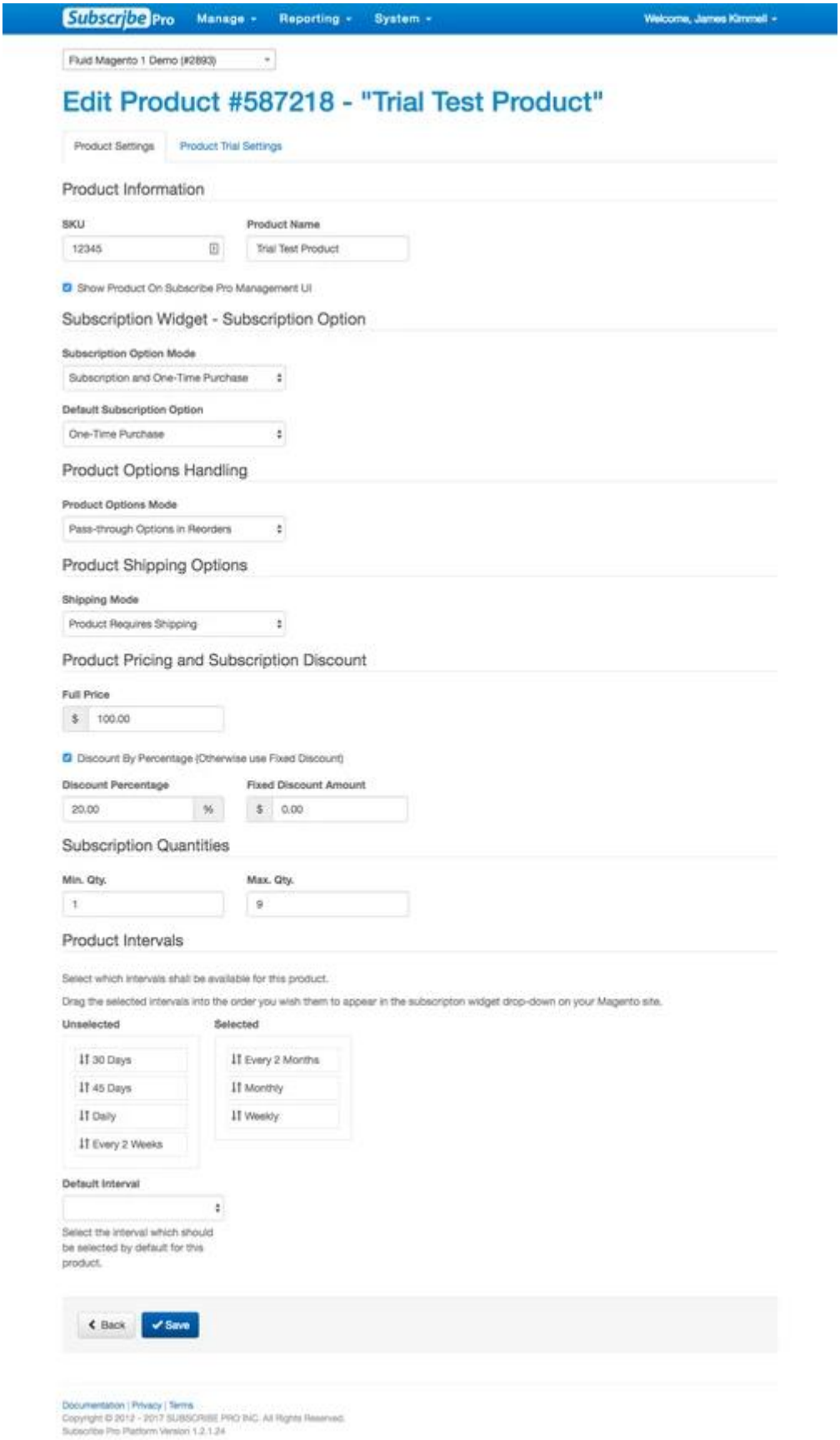


Configuring Product on the Subscribe Pro Platform

In addition to configuring the product on Commerce Cloud, the product will also need to be configured on the Subscribe Pro Platform.

https://platform.subscribepro.com/login

Subscription products can be managed on the platform at: *Manage > Subscription Products*
Within this module a new subscription product should be created that has a SKU that matches the Commerce Cloud Product ID.
The following is an example of a configured product that will match the product provided above for Commerce Cloud:


Subscribe Pro
Manage
Reporting
System
Welcome, James Kimmell
Fluid Magento 1 Demo (#2893)
Edit Product #587218 - "Trial Test Product"
Product Settings
Product Trial Settings
Product Information
SKU
12345
Product Name
Trial Test Product
Show Product On Subscribe Pro Management UI
Subscription Widget - Subscription Option
Subscription Option Mode
Subscription and One-Time Purchase
Default Subscription Option
One-Time Purchase
Product Options Handling
Product Options Mode
Pass-through Options in Reorders
Product Shipping Options
Shipping Mode
Product Requires Shipping
Product Pricing and Subscription Discount
Full Price
$ 100.00
Discount By Percentage (Otherwise use Fixed Discount)
Discount Percentage
20.00 %
Fixed Discount Amount
$ 0.00
Subscription Quantities
Min. Qty.
1
Max. Qty.
9
Product Intervals
Select which intervals shall be available for this product.
Drag the selected intervals into the order you wish them to appear in the subscripton widget drop-down on your Magento site.
Unselected
30 Days
45 Days
Daily
Every 2 Weeks
Selected
Every 2 Months
Monthly
Weekly
Default Interval
Select the interval which should be selected by default for this product.
Back
Save
Documentation | Privacy | Terms
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Variation Product

Variation Product is a product that is a specific variation. For example, if a Vegas brand t-shirt is represented by a variation master, then a product variation is a size 10, blue Vegas brand t-shirt. Variation products associated with the same variation master share most of the attributes defined for the product master, but have their own product IDs and images.

Variation Products should be configured the same way as a “Standard Product”. See instructions above.

Variation Masters

Variation Masters is a product that represents all the variations for a particular product. For example, a specific style of t-shirt.
A variation master cannot be purchased directly, only product variations with specific variation information can be purchased. For example, if a master has color and size variation attributes, you must specify the color and size of a specific variant to purchase it.
If you have more than three variation attributes, you might want to consider using options.

To enable subscriptions for variation master products:

1. A Subscribe Pro Subscription Product will need to be created for each of the Variants contained within the Master Variant.
2. The master variant will need to have the "Subscriptions Enabled" custom attribute set to "yes".
    a. Any attributes set on the Master Product will flow down to all of the variant products, unless the variant product has overridden that particular attribute.

Example:

Master Product (in Commerce Cloud)

ID	Name
25752235	Checked Silk Tie

Variant Product(s) (in Commerce Cloud)

Parent ID	ID	Options
25752235	682875090845	Color: Cobalt
25752235	682875719029	Color: Navy
25752235	682875540326	Color: Yellow

Subscribe Pro - Subscription Products (in Subscribe Pro Platform)

ID	SKU	Name
587218	682875090845	Checked Silk Tie - Cobalt
587219	682875719029	Checked Silk Tie - Navy

587220	682875540326	Checked Silk Tie - Yellow

Product Bundles

Commerce Cloud Digital product bundles:

- Are a separate product with its own SKU and price
- Are unaffected by the price of the individual products
- Contain specified products in specified numbers

In respect to subscription products, product bundles can be treated the same as product variants. The end user will select subscription options for the entire bundle and the single product ID for the bundle is what will be configured and transmitted to Subscribe Pro when creating subscriptions.
See the instructions how to configure a Standard Product above.

Sales Force Commerce Cloud will automatically add all of the bundled products (children) to the Basket when the product bundle is added, whether it be from the storefront or from OCAPI.

The following is an example of an OCAPI request and response using product bundle: sony-ps3-bundle:

Request

```
{
    "customer_info": {
        "customer_no": "00000001",
        "email": "jkimmell@fluid.com"
    },
    "billing_address": {
        "first_name": "James",
        "last_name": "Kimmell",
        "address1": "14137 Louise Drive",
        "city": "Cumberland",
        "state_code": "MD",
        "country_code": "US"
    },
    "product_items": [{
        "product_id": "sony-ps3-bundle",
        "quantity": 1
    }],
    "shipments": [{
        "gift": false,
        "shipping_method": {
            "id": "001"
        },
        "shipping_address": {
            "first_name": "James",
            "last_name": "Kimmell",
            "address1": "14137 Louise Drive",
            "city": "Cumberland",
            "state_code": "MD",
            "country_code": "US"
        }
    }]
}
```

Response


```
{
   "_v":"17.3",
   "_type":"basket",
   "_resource_state":"22e95720919f1eaa894bda606664b5a61a9575e0a942a1452bbfdb7062da0f69",
   "_flash":[
      {
         "_type":"flash",
         "type":"PaymentMethodRequired",
         "message":"No payment method ID was specified. Please provide a valid payment
method ID.",
         "path":"$.payment_instruments[0].payment_method_id"
      }
   ],
   "adjusted_merchandize_total_tax":22.45,
   "adjusted_shipping_total_tax":0.5,
   "agent_basket":true,
   "basket_id":"16f3006604e77fff7105caf63a",
   "billing_address":{
      "_type":"order_address",
      "address1":"14137 Louise Drive",
      "city":"Cumberland",
      "country_code":"US",
      "first_name":"James",
      "full_name":"James Kimmell",
      "id":"b600c40aec47165cacc48c7ad2",
      "last_name":"Kimmell",
      "state_code":"MD"
   },
   "channel_type":"callcenter",
   "creation_date":"2017-04-19T15:26:23.314Z",
   "currency":"USD",
   "customer_info":{
      "_type":"customer_info",
      "customer_id":"abKT2hbWsyyV8alhk6VJg9Ow0E",
      "customer_no":"00000001",
      "email":"jkimmell@fluid.com"
   },
   "last_modified":"2017-04-19T15:26:23.360Z",
   "merchandize_total_tax":22.45,
   "notes":{
      "_type":"simple_link",
      "link":"https://subscribepro01-tech-prtnr-na02-
dw.demandware.net/s/SiteGenesis/dw/shop/v17_3/baskets/16f3006604e77fff7105caf63a/notes"
   },
   "order_total":481.94,
   "product_items":[
      {
         "_type":"product_item",
         "adjusted_tax":22.45,
         "base_price":449,
         "bonus_product_line_item":false,
         "bundled_product_items":[
            {
               "_type":"product_item",
               "adjusted_tax":null,
               "base_price":null,
               "bonus_product_line_item":false,
               "item_id":"94921b91f537474e71376abaf2",
```

```
            "item_text":"Sony Playstation 3 Game Console",
            "price":null,
            "price_after_item_discount":null,
            "price_after_order_discount":0,
            "product_id":"sony-ps3-console",
            "product_name":"Sony Playstation 3 Game Console",
            "quantity":1,
            "shipment_id":"me",
            "tax":null,
            "tax_basis":null,
            "tax_class_id":"standard",
            "tax_rate":0.05
        },
        {
            "_type":"product_item",
            "adjusted_tax":null,
            "base_price":null,
            "bonus_product_line_item":false,
            "item_id":"6356afd70d4a120da36a9d3baf",
            "item_text":"Nascar 09 (for Sony PS3)",
            "price":null,
            "price_after_item_discount":null,
            "price_after_order_discount":0,
            "product_id":"easports-nascar-09-ps3",
            "product_name":"Nascar 09 (for Sony PS3)",
            "quantity":1,
            "shipment_id":"me",
            "tax":null,
            "tax_basis":null,
            "tax_class_id":"standard",
            "tax_rate":0.05
        },
        {
            "_type":"product_item",
            "adjusted_tax":null,
            "base_price":null,
            "bonus_product_line_item":false,
            "item_id":"8b606524f0c7a7325cc4e4e23a",
            "item_text":"Monopoly Here and Now: The World Edition (for Sony PS3)",
            "price":null,
            "price_after_item_discount":null,
            "price_after_order_discount":0,
            "product_id":"easports-monopoly-ps3",
            "product_name":"Monopoly Here and Now: The World Edition (for Sony PS3)",
            "quantity":1,
            "shipment_id":"me",
            "tax":null,
            "tax_basis":null,
            "tax_class_id":"standard",
            "tax_rate":0.05
        },
        {
            "_type":"product_item",
            "adjusted_tax":null,
            "base_price":null,
            "bonus_product_line_item":false,
            "item_id":"0798adadda95b0a5c4d282980f",
            "item_text":"Eternal Sonata (for Sony PS3)",
            "price":null,
            "price_after_item_discount":null,
            "price_after_order_discount":0,
            "product_id":"namco-eternal-sonata-ps3",
```

```
            "product_name":"Eternal Sonata (for Sony PS3)",
            "quantity":1,
            "shipment_id":"me",
            "tax":null,
            "tax_basis":null,
            "tax_class_id":"standard",
            "tax_rate":0.05
         },
         {
            "_type":"product_item",
            "adjusted_tax":null,
            "base_price":null,
            "bonus_product_line_item":false,
            "item_id":"b0bfeff3a8214ea603c570d73b",
            "item_text":"Warhawk (for Sony PS3)",
            "price":null,
            "price_after_item_discount":null,
            "price_after_order_discount":0,
            "product_id":"sony-warhawk-ps3",
            "product_name":"Warhawk (for Sony PS3)",
            "quantity":1,
            "shipment_id":"me",
            "tax":null,
            "tax_basis":null,
            "tax_class_id":"standard",
            "tax_rate":0.05
         }
      ],
      "item_id":"8ddceb64e1d3856008a753122a",
      "item_text":"Playstation 3 Bundle",
      "option_items":[
         {
            "_type":"option_item",
            "adjusted_tax":0,
            "base_price":0,
            "bonus_product_line_item":false,
            "item_id":"392333b488e166df0b46927548",
            "item_text":"Extended Warranty: None",
            "option_id":"consoleWarranty",
            "option_value_id":"000",
            "price":0,
            "price_after_item_discount":0,
            "price_after_order_discount":0,
            "product_id":"000",
            "product_name":"Extended Warranty: None",
            "quantity":1,
            "shipment_id":"me",
            "tax":0,
            "tax_basis":0,
            "tax_class_id":"standard",
            "tax_rate":0.05
         }
      ],
      "price":449,
      "price_after_item_discount":449,
      "price_after_order_discount":449,
      "product_id":"sony-ps3-bundle",
      "product_name":"Playstation 3 Bundle",
      "quantity":1,
      "shipment_id":"me",
      "tax":22.45,
      "tax_basis":449,
```

```
         "tax_class_id":"standard",
         "tax_rate":0.05
      }
   ],
   "product_sub_total":449,
   "product_total":449,
   "shipments":[
      {
         "_type":"shipment",
         "adjusted_merchandize_total_tax":22.45,
         "adjusted_shipping_total_tax":0.5,
         "gift":false,
         "merchandize_total_tax":22.45,
         "product_sub_total":449,
         "product_total":449,
         "shipment_id":"me",
         "shipment_total":481.94,
         "shipping_address":{
            "_type":"order_address",
            "address1":"14137 Louise Drive",
            "city":"Cumberland",
            "country_code":"US",
            "first_name":"James",
            "full_name":"James Kimmell",
            "id":"29410763e35c40915b515a0cdd",
            "last_name":"Kimmell",
            "state_code":"MD"
         },
         "shipping_method":{
            "_type":"shipping_method",
            "description":"Order received within 7-10 business days",
            "id":"001",
            "name":"Ground",
            "price":9.99
         },
         "shipping_status":"not_shipped",
         "shipping_total":9.99,
         "shipping_total_tax":0.5,
         "tax_total":22.95
      }
   ],
   "shipping_items":[
      {
         "_type":"shipping_item",
         "adjusted_tax":0.5,
         "base_price":9.99,
         "item_id":"1ad26e6d3776f228e7d56228d7",
         "item_text":"Shipping",
         "price":9.99,
         "price_after_item_discount":9.99,
         "shipment_id":"me",
         "tax":0.5,
         "tax_basis":9.99,
         "tax_class_id":"standard",
         "tax_rate":0.05
      }
   ],
   "shipping_total":9.99,
   "shipping_total_tax":0.5,
   "taxation":"net",
   "tax_total":22.95
}
```

Product Sets

Product Set is a product that includes several products that are displayed together and can be purchased together or separately. For example, an accessories kit that includes a hairbrush, comb, and mirror, each of which can also be bought separately. Another common example is an outfit, with a jacket, shirt, and pants, which can be purchased together or each item can be purchased separately.

Unlike Product Bundles, Products Set Products are added to the cart individually. The end consumer has the option to add each product individually or to add all of the products at once.
When the consumer adds all of the products at once, the form fields for each individual product are preserved, for example quantity and subscription options.
Products within a product set can be configured the same as a standard product and the user will have the ability to configure the subscription options and interval for each individual product. See the instructions for configuring a Standard Product above.

Option Product

Commerce Cloud Digital, product options enable you to sell configurable products that have optional accessories, upgrades, or additional services. Options are always purchased with a product and cannot be purchased separately. They have their own price and display name, but do not have their own thumbnail images. They cannot be searched by the customer, but are usually visible on the product detail page.

Products that are configured with Product Options should be configured the same as a normal subscription product in Commerce Cloud and Subscribe Pro. The only difference with these products is that the Order Processing Script, that creates the subscription at Subscribe Pro, will also include any product options, selected for the product line item, in the platform_specific_fields attribute.

Subscribe Pro Subscription Request


```
{
   "subscription":{
      "customer_id":"348328",
      "payment_profile_id":"410028",
      "requires_shipping":true,
      "shipping_address_id":455367,
      "product_sku":"canon-powershot-e1",
      "qty":1,
      "use_fixed_price":false,
      "interval":"Month",
      "next_order_date":"2017-04-19T21:33:56.954Z",
      "first_order_already_created":true,
      "send_customer_notification_email":true,
      "platform_specific_fields":{
         "sfcc":{
            "product_options":[
               {
                  "id":"digitalCameraWarranty",
                  "value":"002"
```

```
                }
            ]
        }
    }
}
```

These product options will need to be added to the Basket when recurring orders are placed through OCAPI. The following is an example of a Basket object, with a product option, that could be sent back to Commerce Cloud via OCAPI:

OCAPI Basket Object

```
{
    "customer_info": {
        "customer_no": "00000001",
        "email": "jkimmell@fluid.com"
    },
    "billing_address": {
        "first_name": "James",
        "last_name": "Kimmell",
        "address1": "14137 Louise Drive",
        "city": "Cumberland",
        "state_code": "MD",
        "country_code": "US"
    },
    "product_items": [{
        "product_id": "samsung-hl72a650",
        "quantity": 1,
        "option_items": [
            {
                "option_id": "tvWarranty",
                "option_value_id": "002"
            }
        ]
    }],
    "shipments": [{
        "gift": false,
        "shipping_method": {
            "id": "001"
        },
        "shipping_address": {
            "first_name": "James",
            "last_name": "Kimmell",
            "address1": "14137 Louise Drive",
            "city": "Cumberland",
            "state_code": "MD",
            "country_code": "US"
        }
    }]
}
```

Configure OCAPI client

Subscribe Pro will make use of the "Shop" Open Commerce API (OCAPI) in order to place recurring orders for subscription products. This will be accomplished server to server using a Business Manager login.
Configure client's resources as following:

```
{
    "_v":"17.3",
    "clients":[
        {
            "client_id":"aaaaaaaaaaaaaaaaaaaaaaaaaaaa",
            "allowed_origins":[],
            "resources":[
                {
                    "resource_id":"/baskets",
                    "methods":[
                        "post"
                    ],
                    "read_attributes":"(**)",
                    "write_attributes":"(**)"
                },
                {
                    "resource_id":"/baskets/*",
                    "methods":[
                        "get",
                        "patch",
                        "delete"
                    ],
                    "read_attributes":"(**)",
                    "write_attributes":"(**)"
                },
                {
                    "resource_id":"/baskets/*/payment_instruments",
                    "methods":[
                        "post"
                    ],
                    "read_attributes":"(**)",
                    "write_attributes":"(**)"
                },
                {
                    "resource_id":"/orders",
                    "methods":[
                        "post"
                    ],
                    "read_attributes":"(**)",
                    "write_attributes":"(**)"
                }
            ]
        }
    ]
}
```

Subscribe Pro will make use of OCAPI to place orders on behalf of the customer. This is one of the reason's that a customer must be logged in and have a stored payment instrument in order to place an order with subscriptions.

Credit Cards

A Payment token and the Payment Instrument ID will be transmitted to Subscribe Pro as part of the Subscription creation process.
Credit Card tokenization will need to be implemented by a tokenization provider when this cartridge is implemented, on an actual site. This will be accomplished by making use of the: setCreditCardToken method in the: PaymentInstrument object.

See SFCC documentation:
https://documentation.demandware.com/DOC1/topic/com.demandware.dochelp/DWAPI/scriptapi/html/api/class_dw_order_PaymentInstrument.html

In order to provide an example of this, on the base site, some code has been added the COBilling controller to generate a random token for credit cards:

```
/**
 * This needs to be replaced with a valid PSP Tokenizer before going to production
 */
let random = new dw.crypto.SecureRandom();
let bytes = random.nextBytes(32);
let tokenString = newCreditCard.getUUID() + new Date().getTime() + bytes.toString();
let messageDigest = new dw.crypto.MessageDigest(dw.crypto.MessageDigest.DIGEST_SHA_512);
let hash = dw.crypto.Encoding.toBase64(messageDigest.digestBytes(new
dw.util.Bytes(tokenString)));

newCreditCard.setCreditCardToken(hash);
```

Apple Pay

Customers will be able to use Apple Pay, while purchasing subscription products, using the Subscribe Pro Apple Pay service. Subscribe Pro will handle making the necessary API calls, transactions with Apple and will provide Sales Force with a transaction id of the payment.

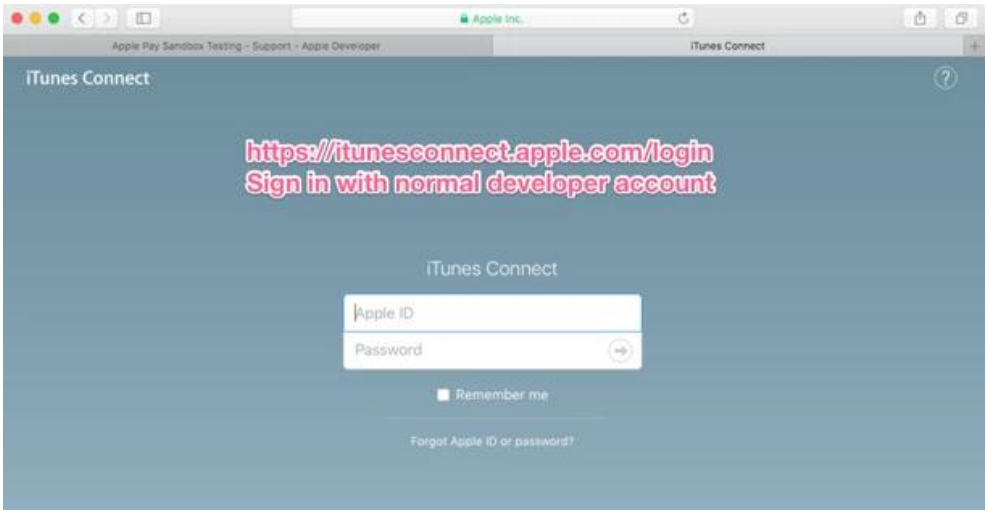
The following is the SFCC documentation for Apple Pay:
https://documentation.demandware.com/DOC1/topic/com.demandware.dochelp/ApplePay/APWProcess.html

Basic ApplePay for Site Genesis

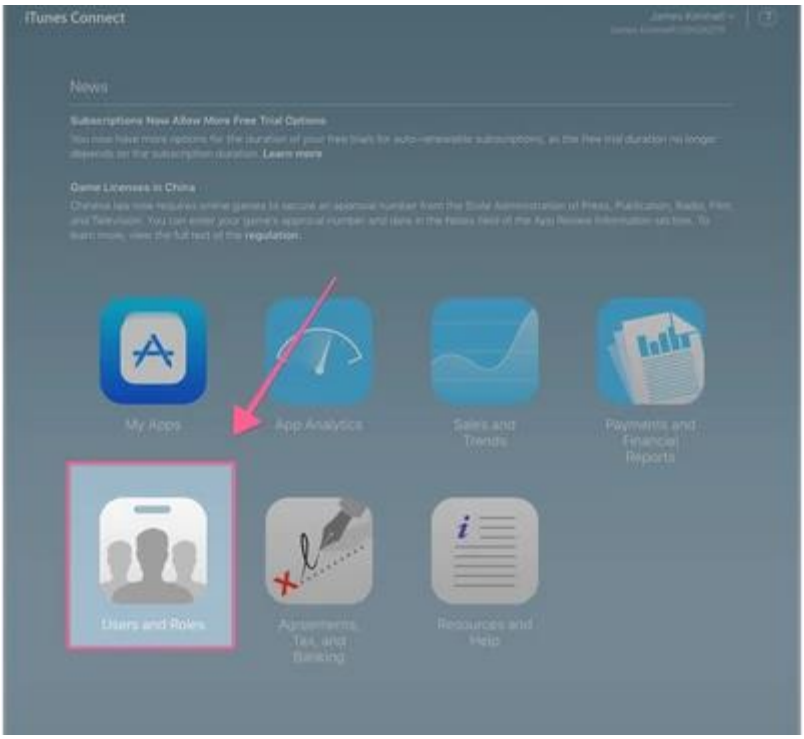
Create Apple Sandbox User

In order to complete a payment, in a Sandbox environment, not using real payment information, an Apple

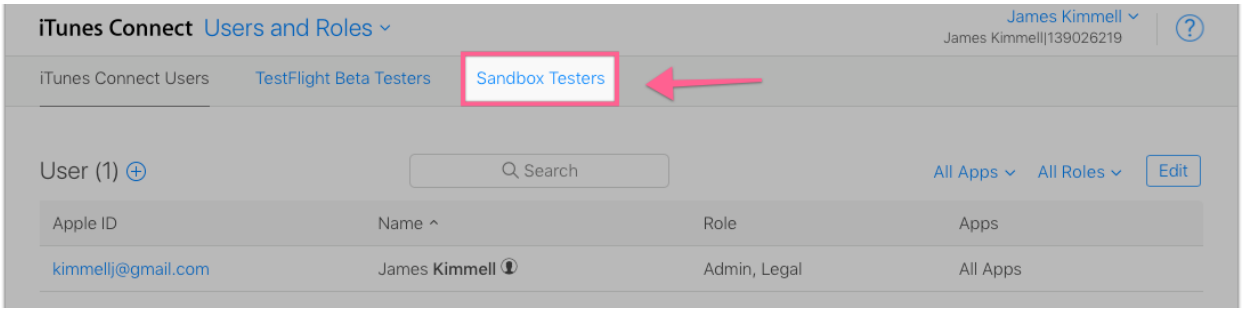
Sandbox Tester account needs to be created.
The following screenshots show how to accomplish this.
Proceed to: https://itunesconnect.apple.com/login



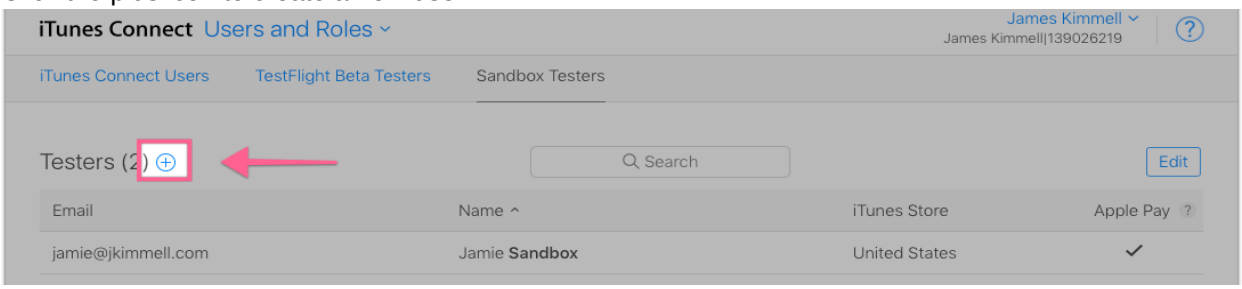
Click: Users and Roles



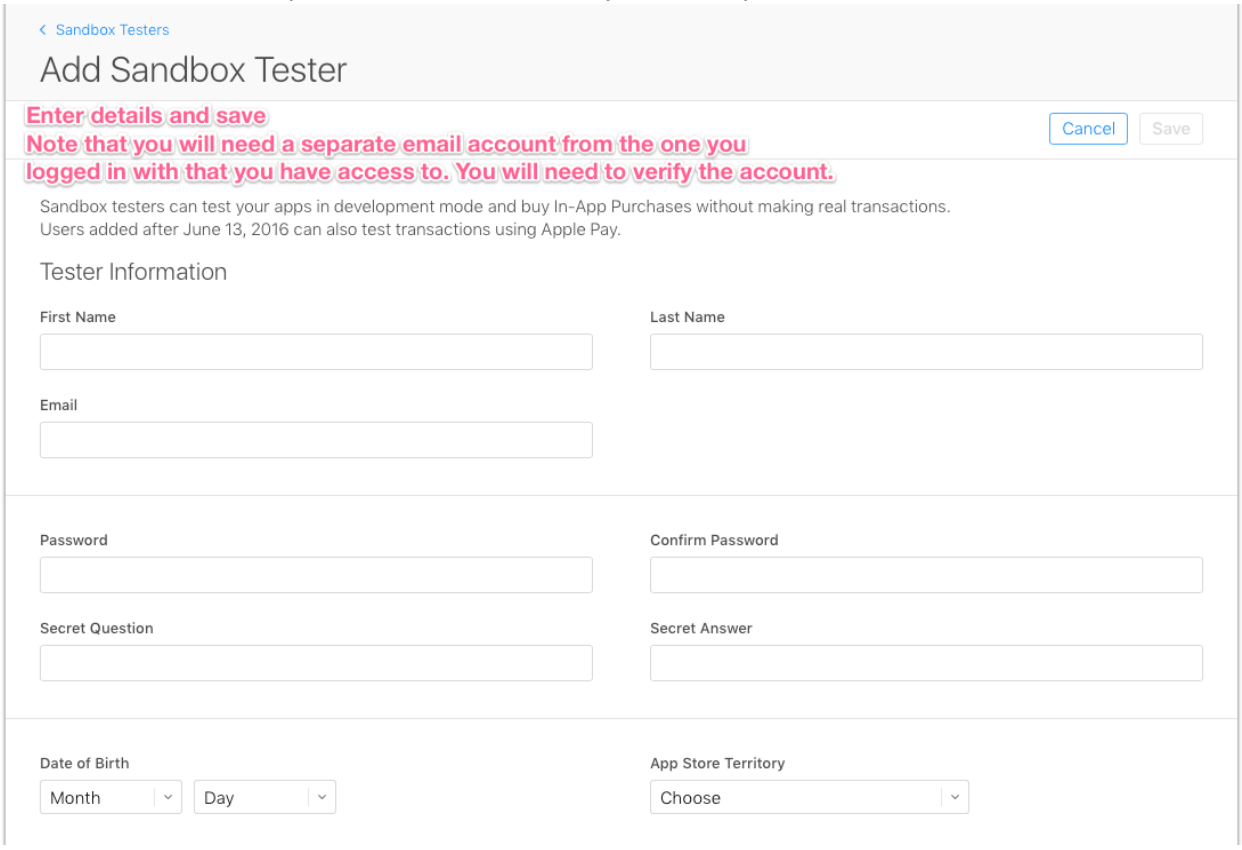
Click: Sandbox Testers



Click the plus icon to create a new user

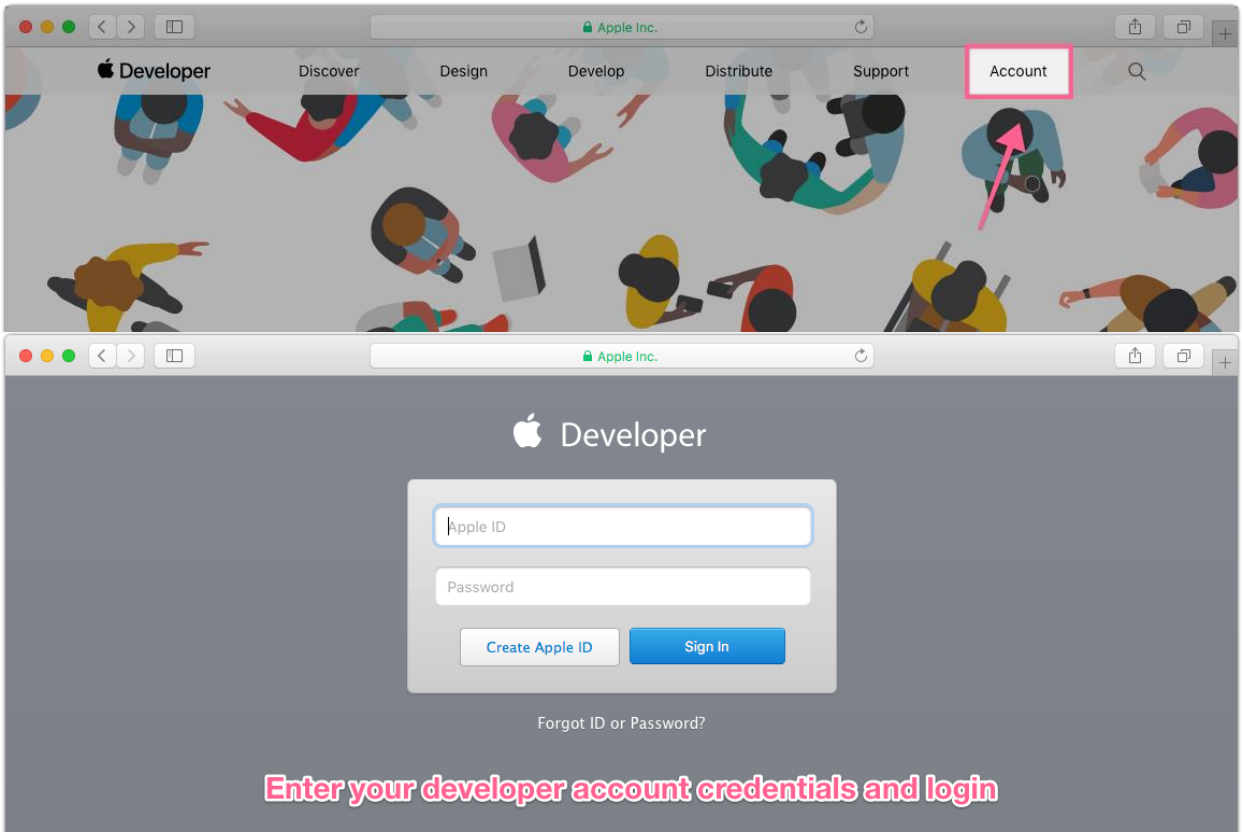


Enter the details of the user on the provided form
Note: You will need a separate email address from your developer account email address

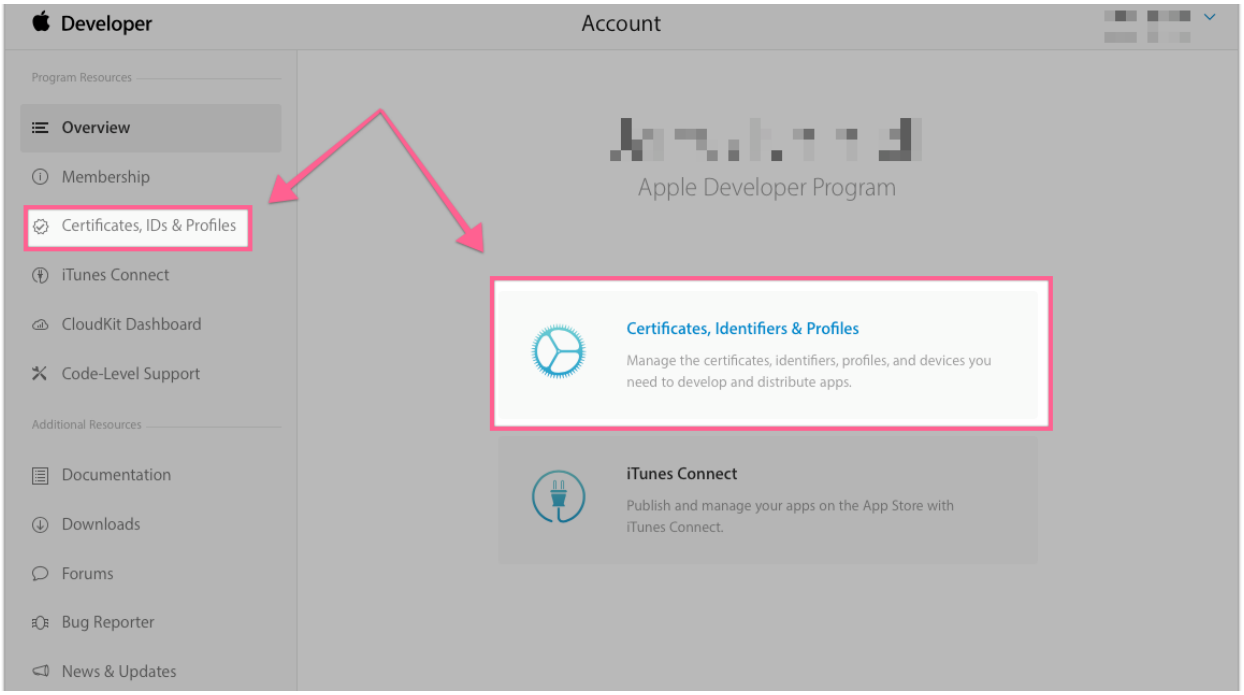


Create Merchant and Payment Provider Certificate

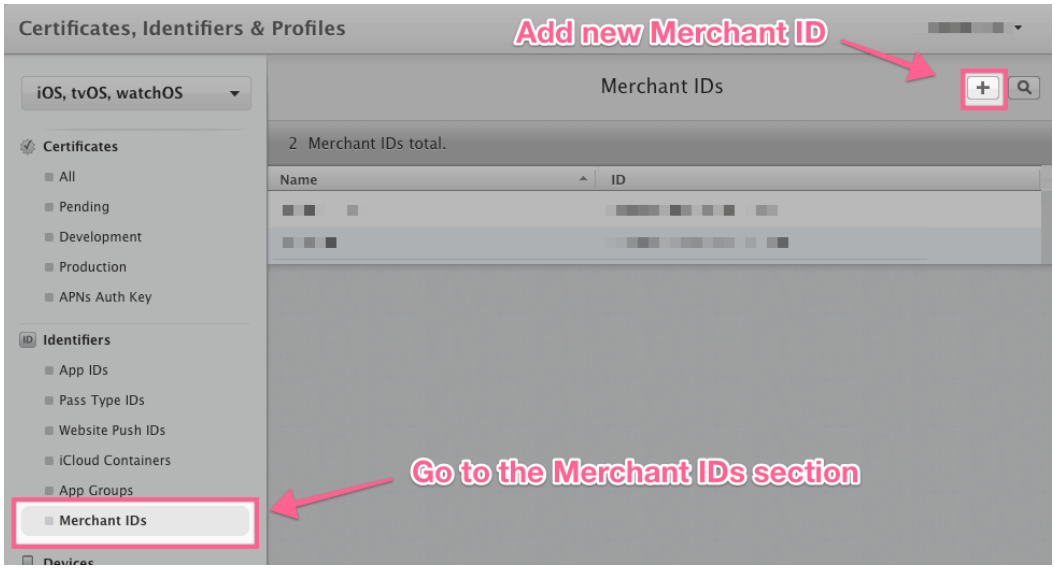
Login to the Apple Developer Portal: https://developer.apple.com



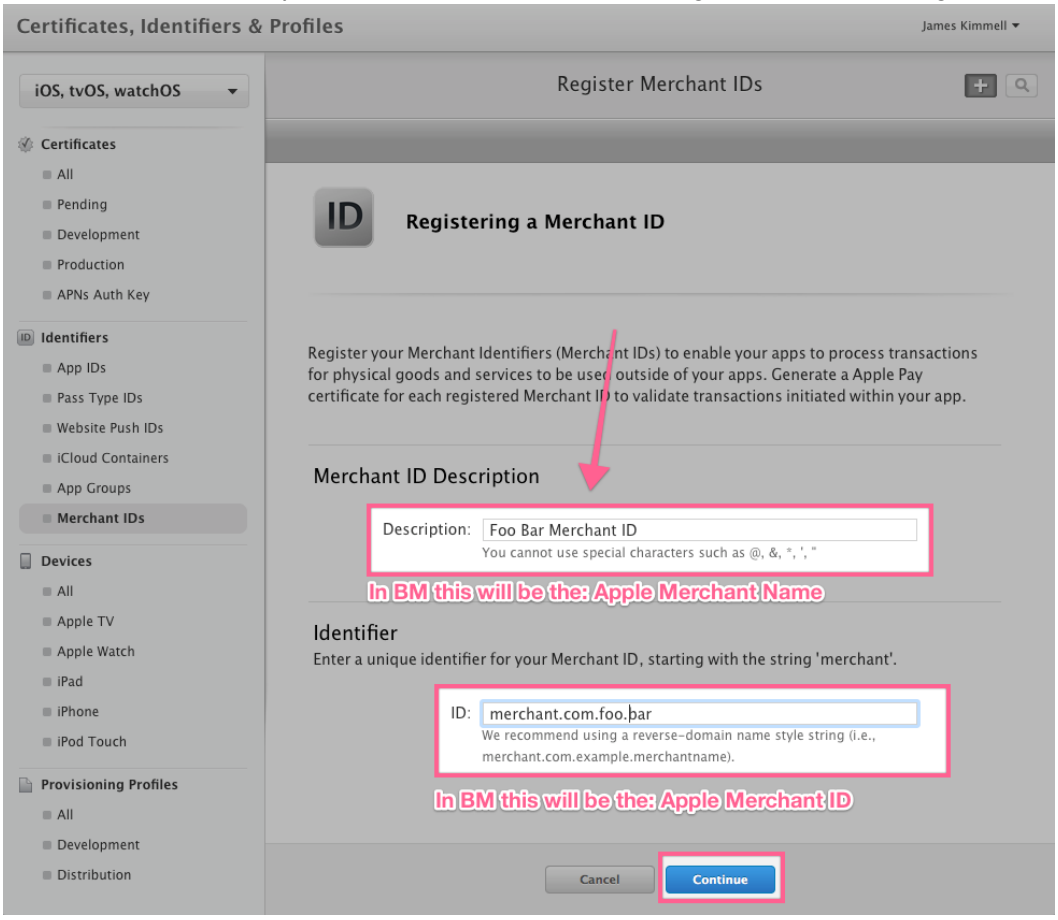
Click: Certificates, IDs & Profiles



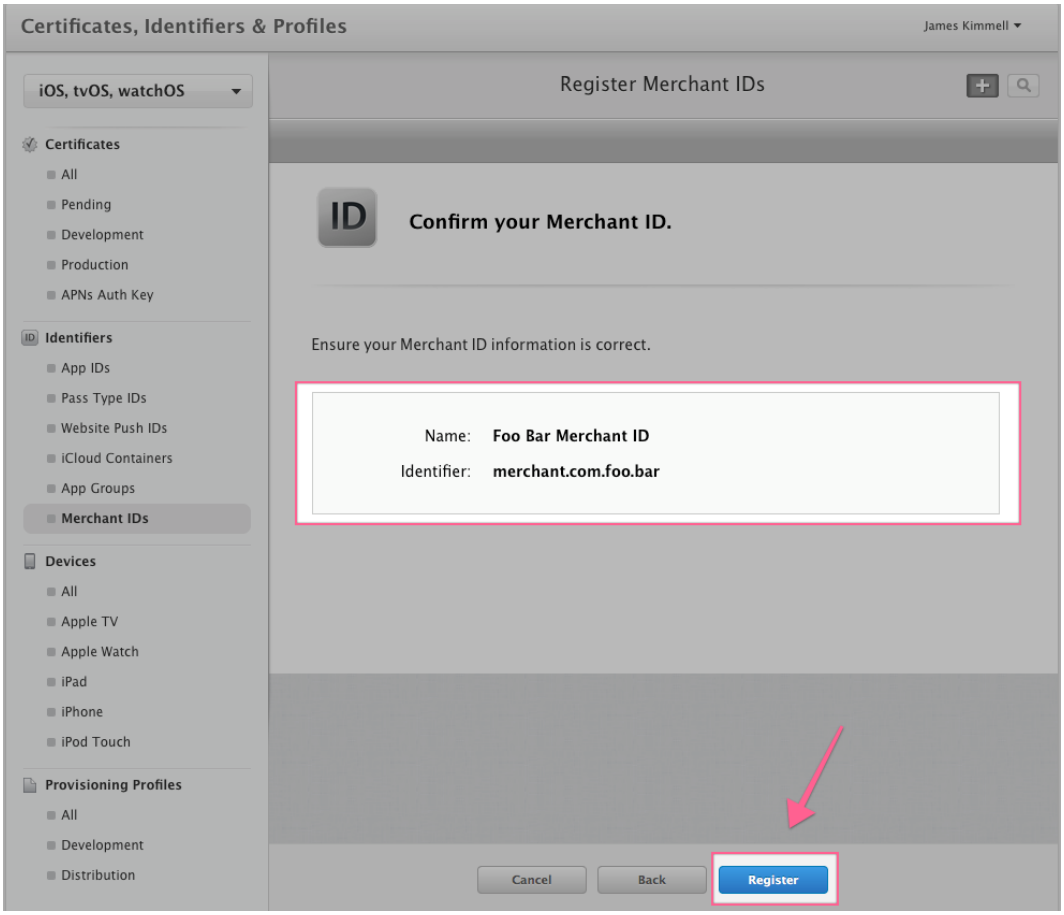
Click: Merchant IDs and then Click: the plus icon to create a new Merchant



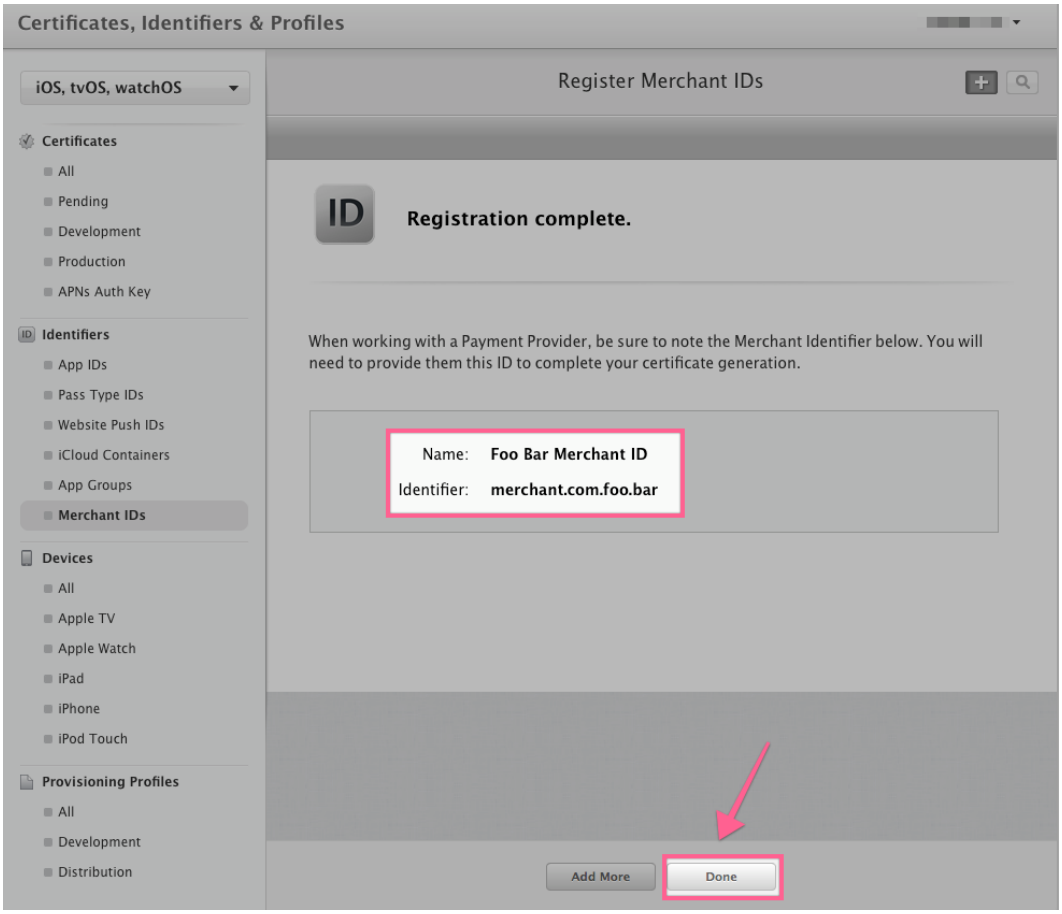
Enter a Merchant ID and Description, these will be needed to configure Business Manager



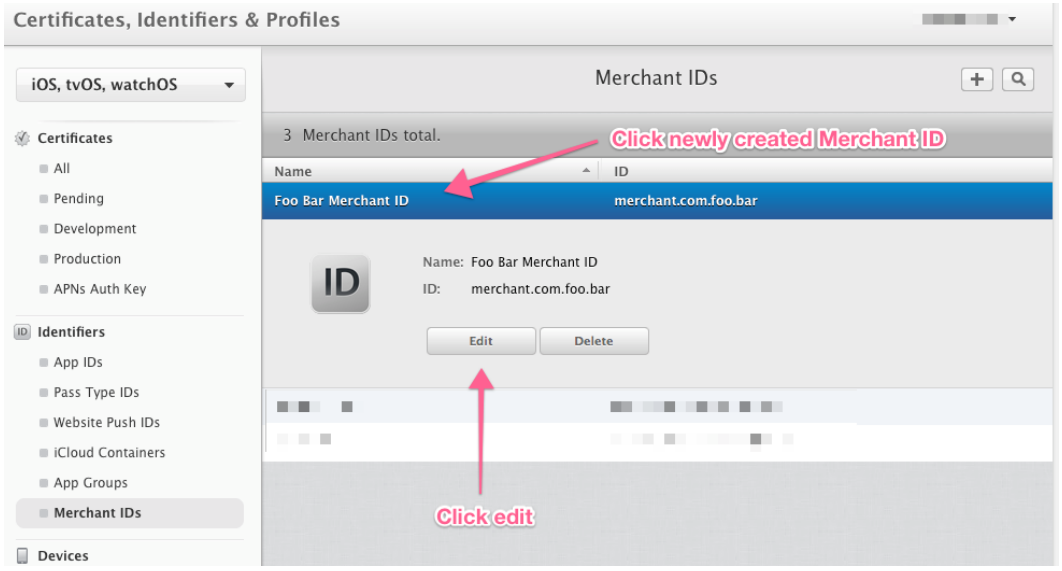
Click: Register



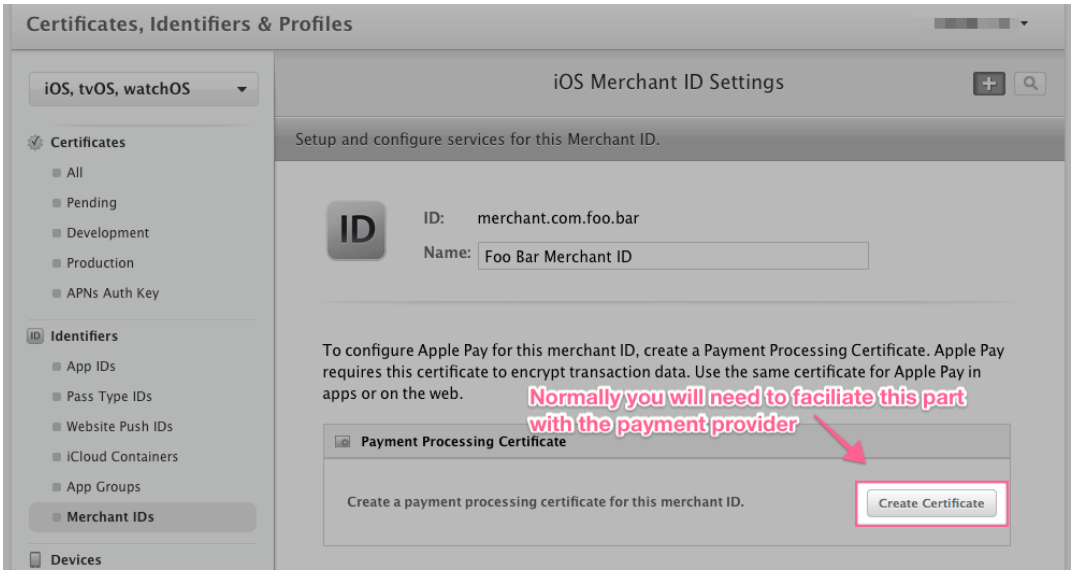
Click: Finish



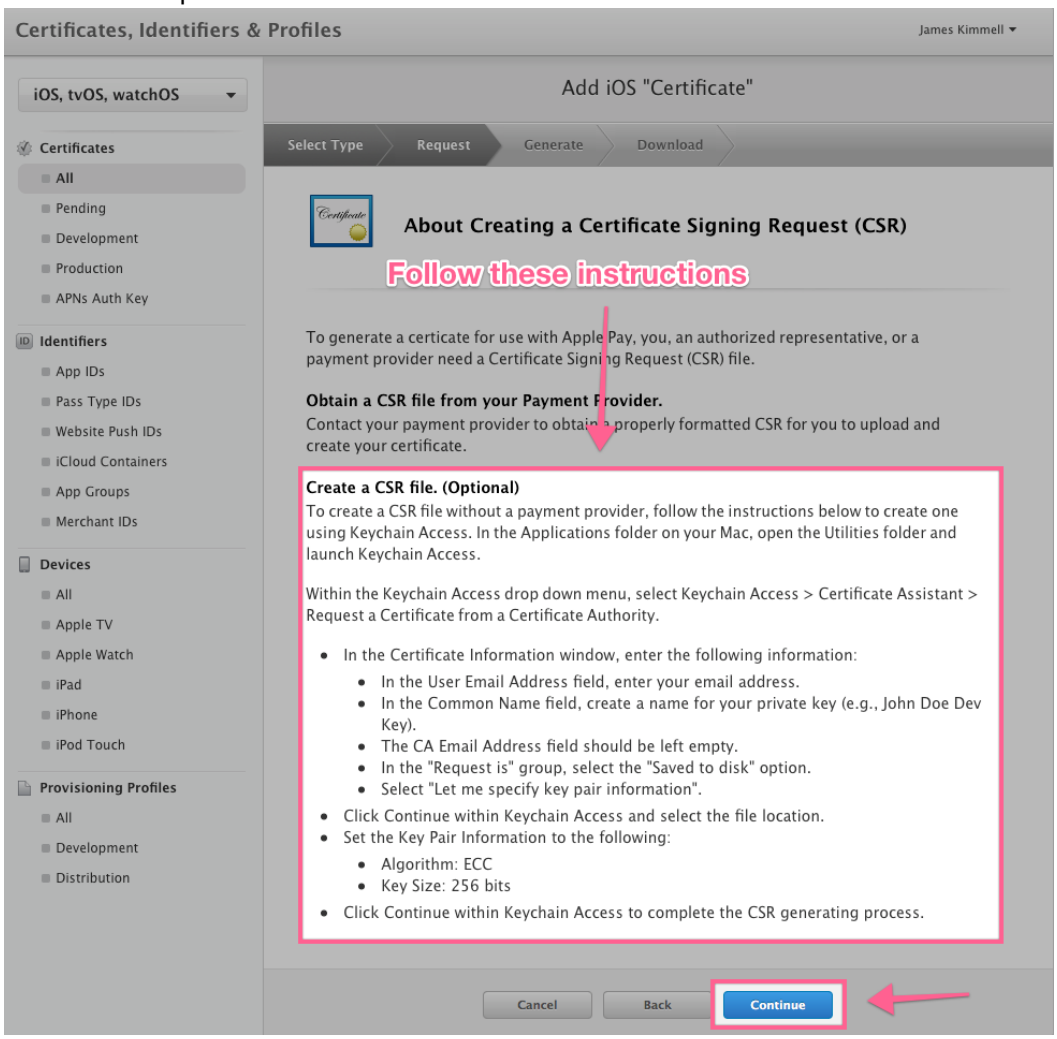
Select the newly created Merchant and then click: Edit



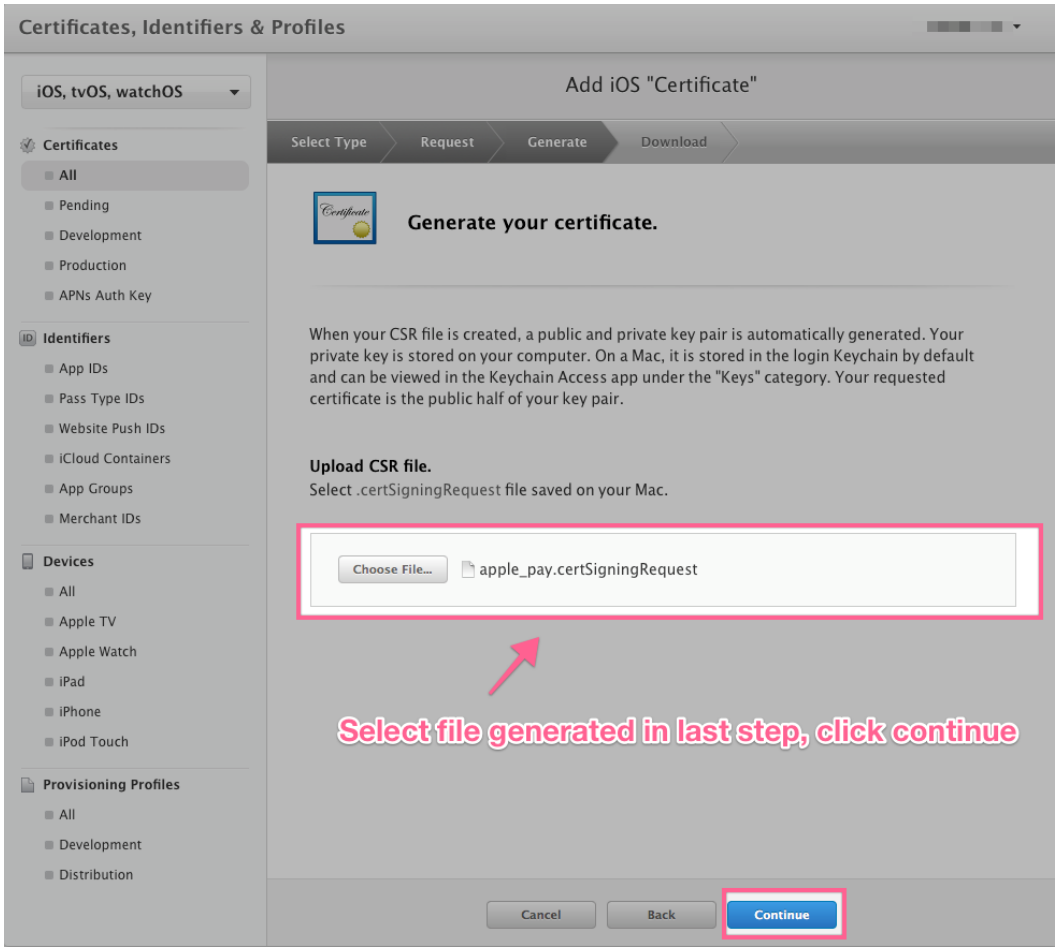
Click: Create Certificate



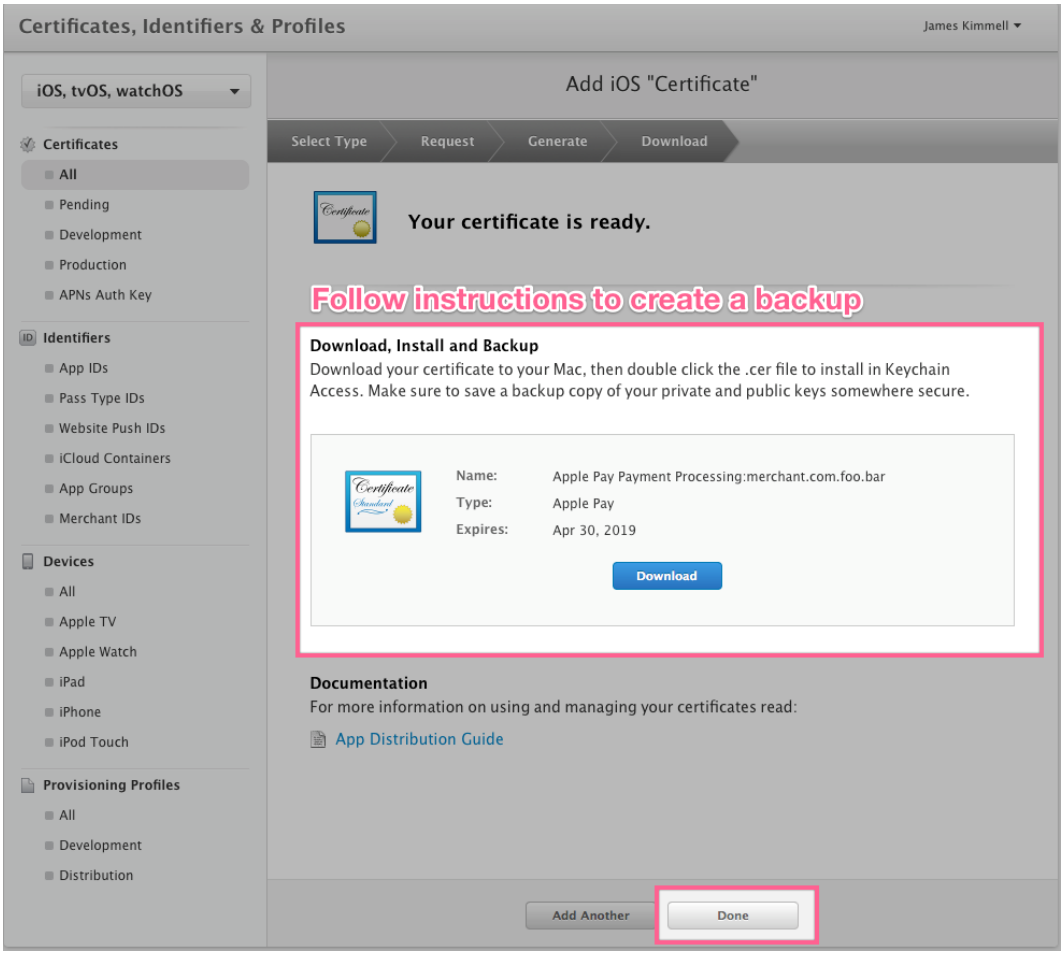
Follow the instructions provided to create a CSR and then click: Continue



Choose newly created CSR and click: Continue

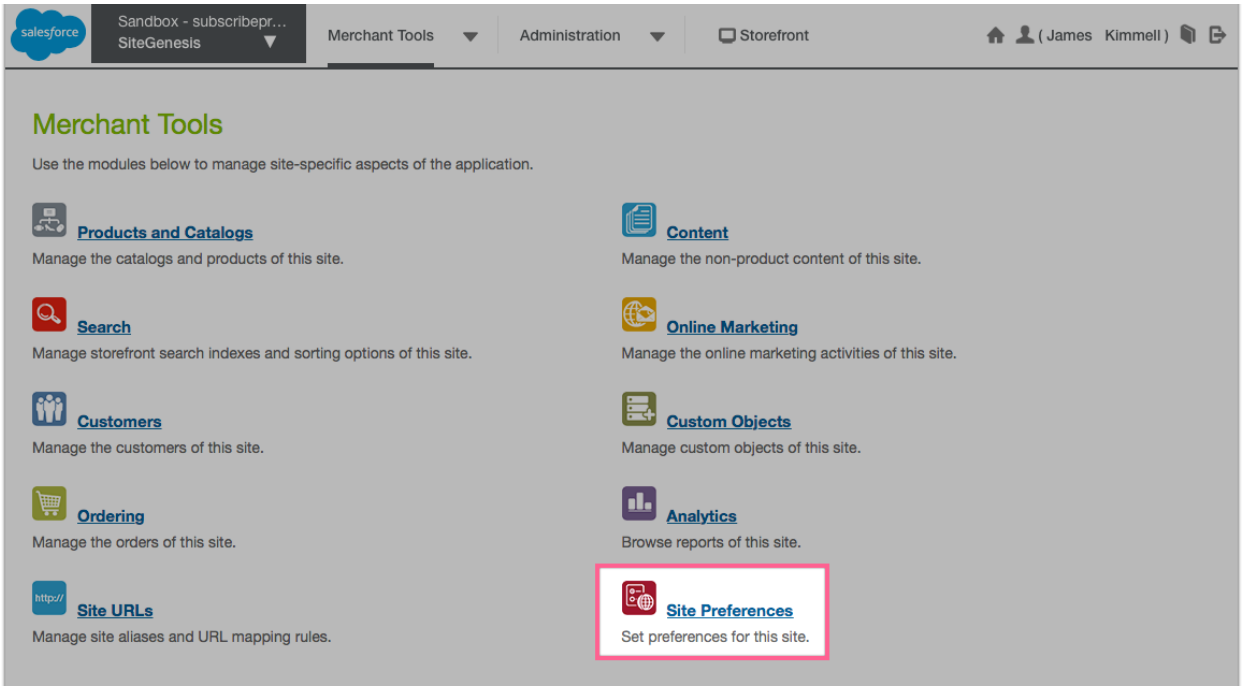


Download, save, backup and click: Done

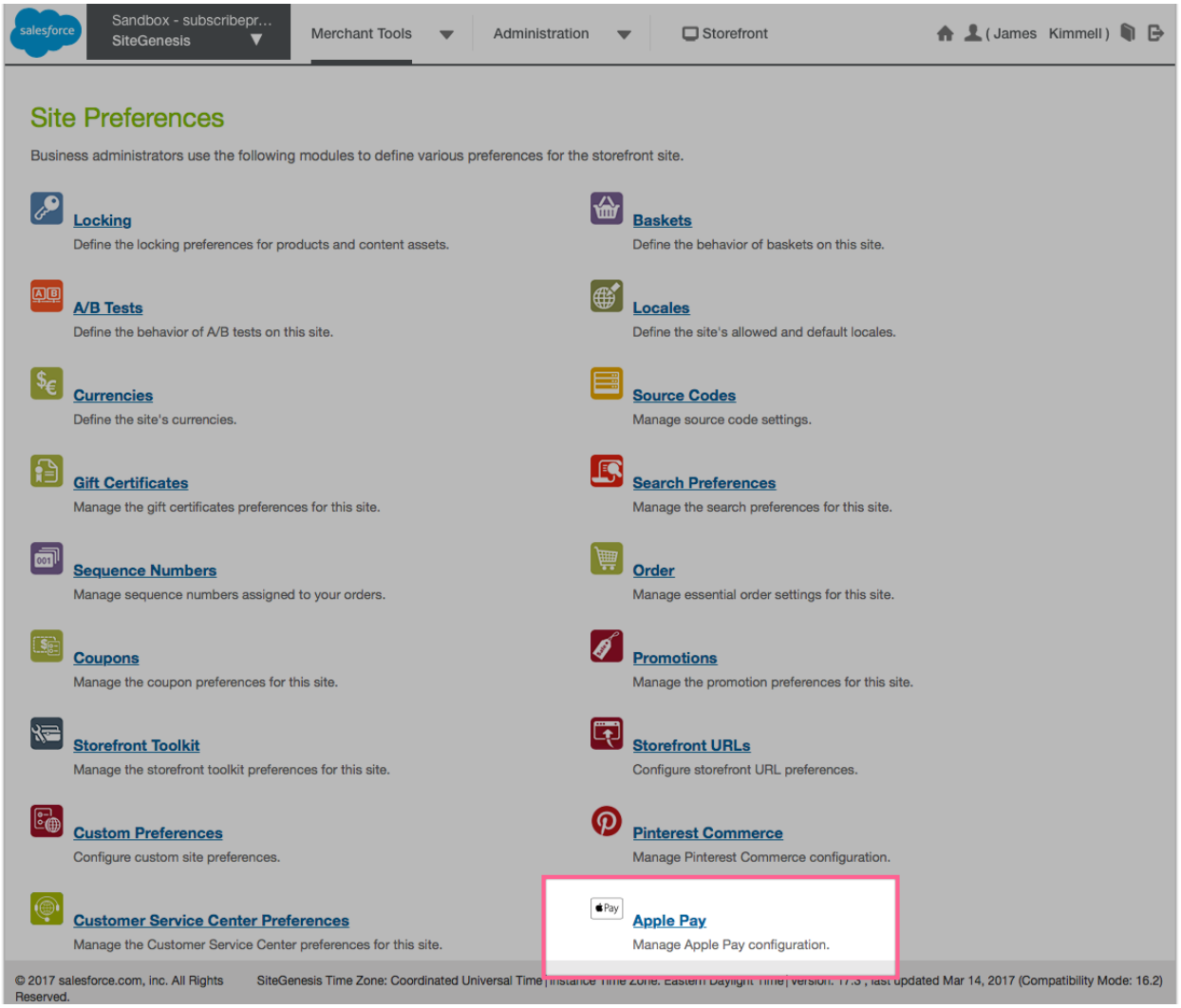


Configure Site in Business Manager

Click: Site Preferences

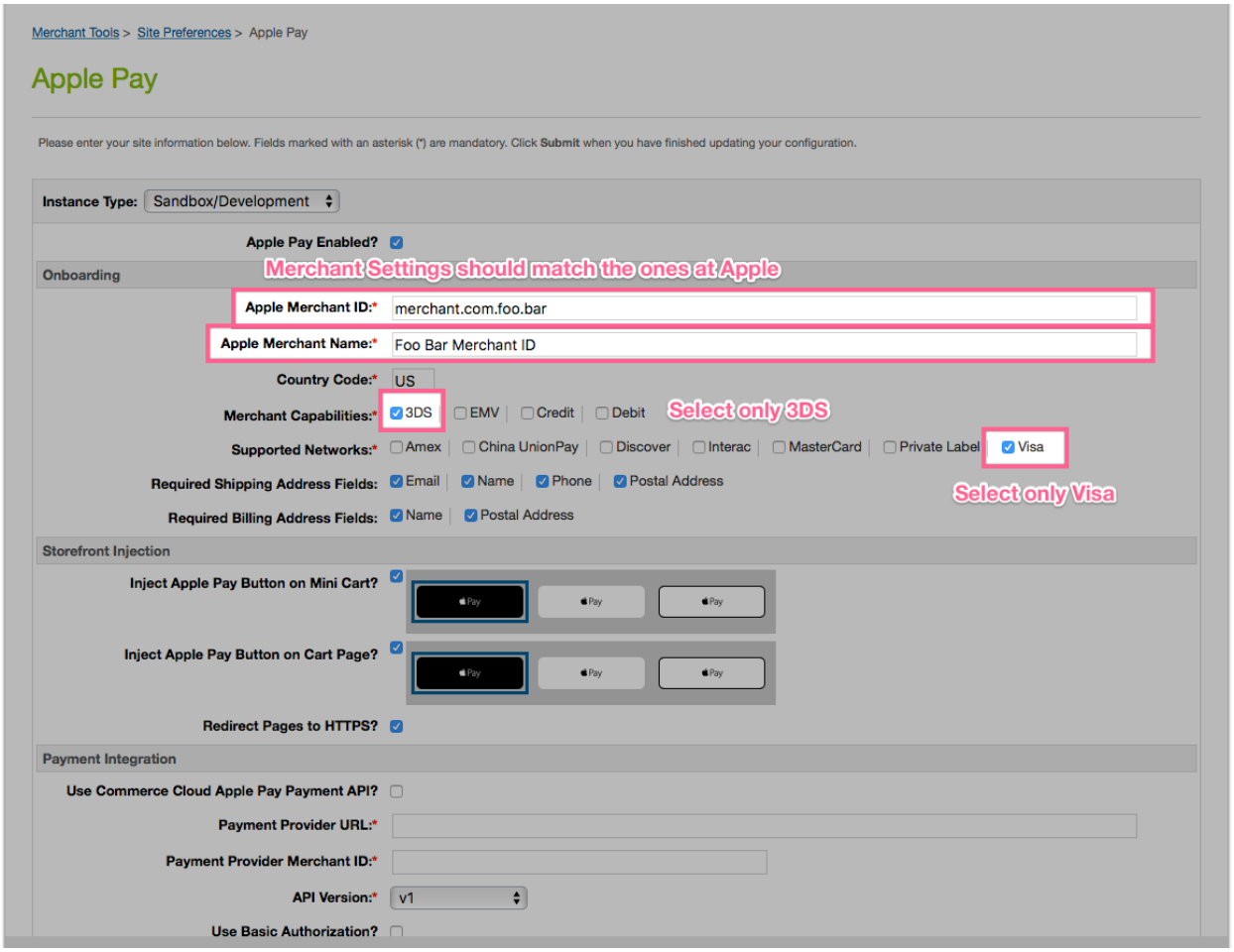


Click: Apple Pay

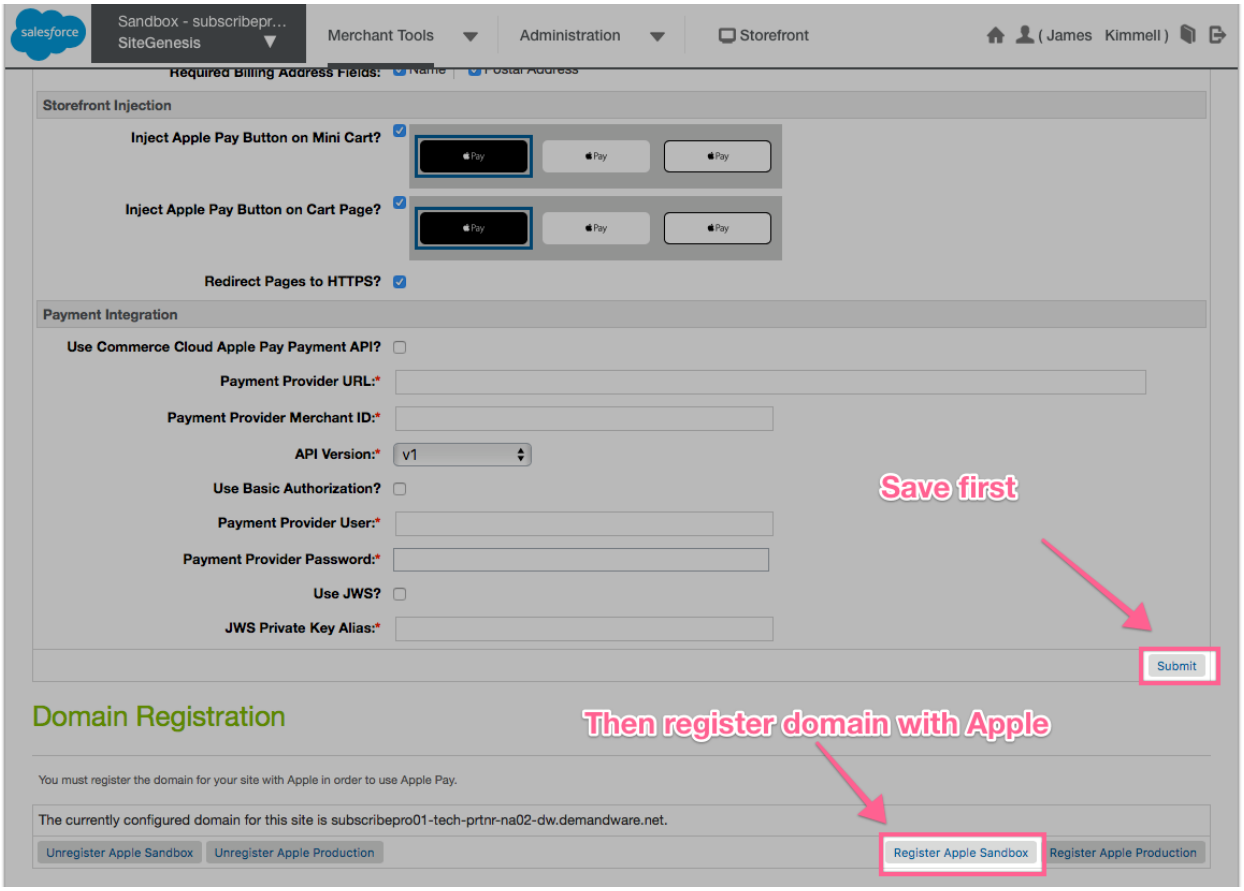


Update Settings

Note: Merchant information must match info entered at Apple. Select only 3DS and Visa.



Save and Register Sandbox



Closing

You should see a blue message at the top of the page confirming that the Sandbox has been registered. You can now browse to a PDP page on HTTPS or the Shopping cart to pay with Apple Pay.

Payment Provider Certificate

In order to make use of Apply Pay payments for subscriptions a Payment Provider certificate will need to generated at Subscribe Pro and added to the merchant in the relevant Apple Developer account.
You can generate this certificate within the Subscribe Pro Platform in the following module:
System > ApplyPay Certificates

Hooks

Some modifications need to occur for Apple Pay to work on the Site Genesis site.

The following hook has been added to Site Genesis as an example but this will need to be removed:

Hook	File Location
dw.extensions.applepay.paymentAuthorized.authorizeOrderPayment	sitegenesis/app_storefront_core/cartridge/scripts/hooks.json

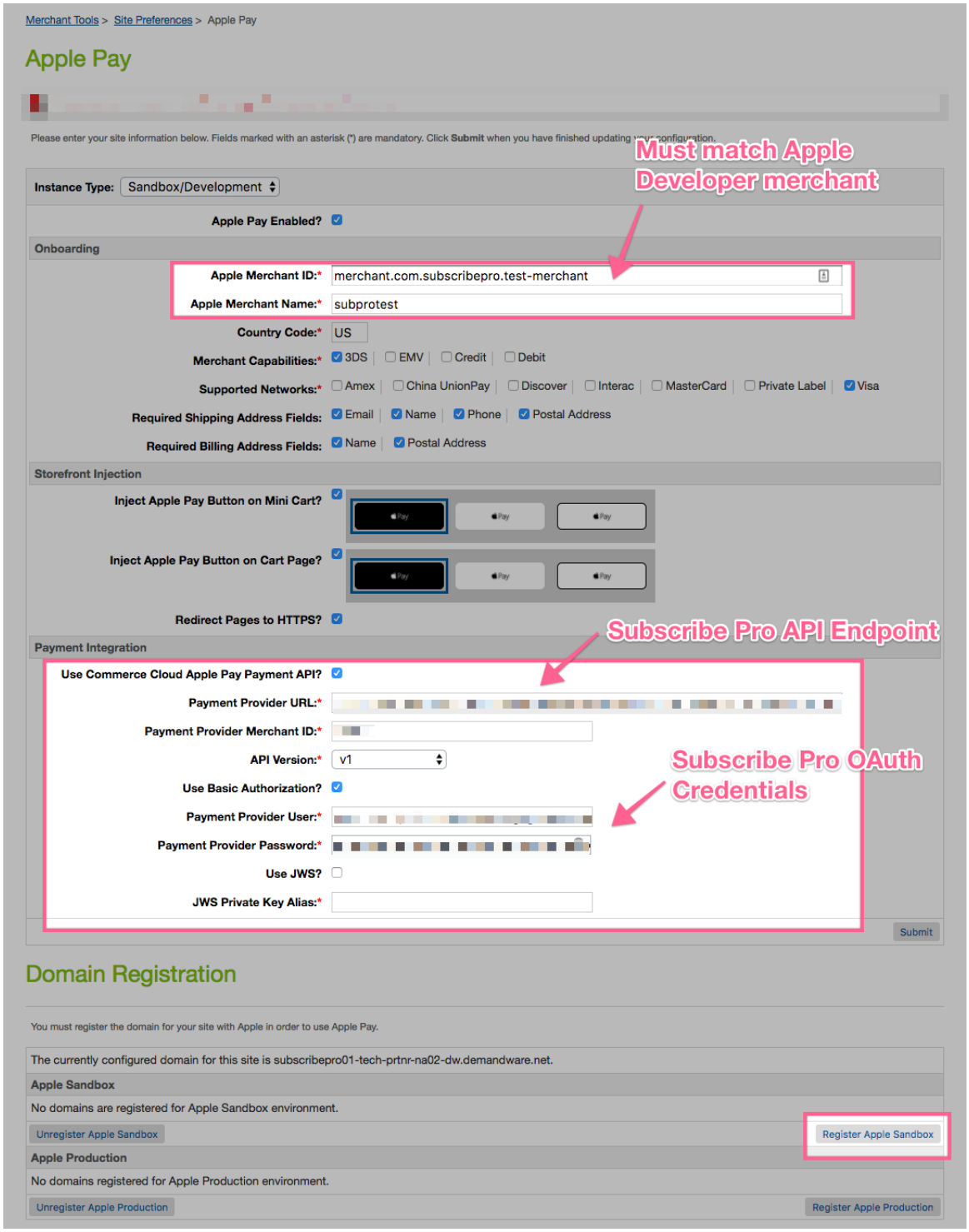
However, the following hook has been added in the Subscribe Pro cartridge and will need to remain:

Hook	File Location
dw.extensions.applepay.paymentAuthorized.createOrder	int_subscribe_pro/cartridge/scripts/hooks.json

The above hook is used to populate the Basket with the necessary flags before creating the order. This is done so that the Basket custom attributes transfer to the create Order Object.

Subscribe Pro Configuration

Go to *Merchant Tools > Site Preferences > Apple Pay*



Notes:

Field	Notes
Apple Merchant ID	This must match the merchant created at Apple
Apple Merchant Name	This must match the merchant created at Apple

Use Commerce Cloud Apple Pay Payment API?	This must be checked
Payment Provider URL	This will be supplied by Subscribe Pro but the current URL in use is: https://feat-sfcc-cd75l4i-cdbrvib5kpzoa.us.platform.sh/services/v2/vault/sfcc/applepay/authorize-and-store.json
Payment Provider Merchant ID	This will be supplied by Subscribe Pro
Use Basic Authorization?	This must be checked
Payment Provider User	This is the Subscribe Pro OAuth: Client ID
Payment Provider Password	This is the Subscribe Pro OAuth: Client Secret

Subscribe Pro - Payment Profile

Payment profile should be used to pay for subscriptions.
The use of this profile could be divided into two steps:

- creating subscription
- recurring subscription charging

Creating subscription

As part of the order processing script, we send the relevant Payment Data to the Subscribe Pro using the */vault/paymentprofile/external-vault end-point*.

The following is the relevant snippet of code in the Order Processing Logic:

/int_subscribe_pro/cartridge/scripts/subpro/jobs/ProcessOrderSubscriptions.js

```
/**
 * Apple Pay otherwise assume Credit Card
 */
if (paymentInstrument.getPaymentMethod() === "DW_APPLE_PAY") {
    let transactionID = paymentInstrument.getPaymentTransaction().getTransactionID();
    let response = SubscribeProLib.getPaymentProfile(null, transactionID);


    /**
     * If there was a problem creating the payment profile, error out
     */
    if (response.error) {
        logError(response, 'getPaymentProfile');
        continue;
    } else {
        paymentProfileID = response.result.payment_profiles.pop().id;
    }
} else {
    paymentProfileID = ('subproPaymentProfileID' in customerPaymentInstrument.custom) ?
customerPaymentInstrument.custom.subproPaymentProfileID : false;

    /**
     * If Payment Profile already exists,
     * Call service to verify that it still exists at Subscribe Pro
```

```
     */
    if (paymentProfileID) {

        let response = SubscribeProLib.getPaymentProfile(paymentProfileID);

        /**
         * Payment Profile not found, create new Payment Profile record
         * Otherwise create the payment profile
         */
        if (response.error && response.result.code === 404) {
            paymentProfileID = createSubproPaymentProfile(customerProfile,
customerPaymentInstrument, order.billingAddress);
            /**
             * Some other error occurred, error out
             */
        } else if (response.error) {
            logError(response, 'getPaymentProfile');
            continue;
        }
    } else {
        paymentProfileID = createSubproPaymentProfile(customerProfile,
customerPaymentInstrument, order.billingAddress);
    }
}
```

Recurring subscription charging

To charge a regular fee we should create OCAPI order using payment profile information saved earlier. Then using this data SubPro side will create order for paying for subscription via OCAPI.

1. Request POST `/dw/shop/v17_3/baskets` to create basket for order.
2. Use POST `/dw/shop/v17_3/baskets/{basket_id}/payment_instruments` to add payment instruments to basket. This requires fields payment_instrument_id and amount.
3. Request POST `/dw/shop/v17_3/orders` with basket_id attribute to create order.

3.3 Custom Code

The included site genesis cartridges, “LINK-SiteGenesis-subscribe-pro”, include any changes that would need to be made assuming you are using the Site Genesis reference storefront.

Templates

- addressinclude.isml
- cart.isml
- checkoutlogin.isml
- displayliproduct.isml
- minilineitems.isml
- multishippingshipments.isml
- mysubscriptions.isml
- orderdetails.isml
- orderdetailsemail.isml
- paymentinstrumentlist.isml
- paymentmethods.isml
- productcontent.isml
- producttopcontentPS.isml
- productsetproduct.isml
- pt_productdetails_UI.isml
- summary.isml
- creditcardjson.isml

Controllers

- Address.js
- PaymentInstruments.js

JS

- js/subscriptionOptions.js

Scripts

- Account.js
- COBilling.js
- COCustomer.js
- COSummary.js
- CartModel.js
- cart.js
- variant.js
- GetProductDetailUrl.ds
- billing.js

Forms

- creditcard.xml

Hooks

- hooks.json

Resource

- Resource.ds
- account.properties

subscriptionOptions.js Script

The cartridge/js/subscriptionOptions.js file in the int_subscribe_pro cartridge should be copied into the app_storefront_core/cartridge/js directory.

PDP

Changes need to be done to display product subscription options (is they are available) and Subscribe Pro “Add to Order” widget.

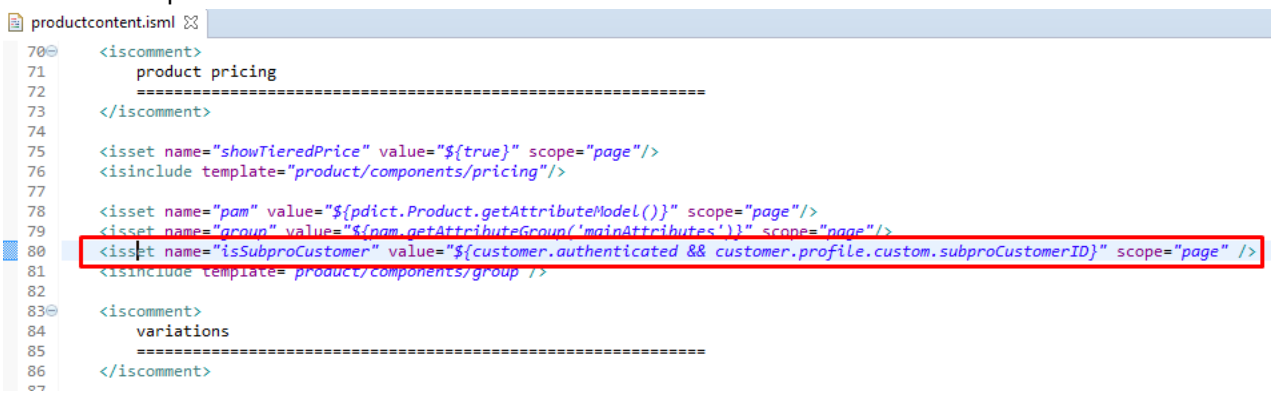
Modify productcontent.isml

Find template */app_storefront_core/cartridge/templates/default/product/productcontent.isml*.

1) Set the variable specifying if current customer is a Subscribe Pro customer:

```
<isset name="isSubproCustomer" value="${customer.authenticated &&
customer.profile.custom.subproCustomerID}" scope="page" />
```

Here is the expected result:



2) Scroll down to add to cart form, find *“product quantity”* section and paste code below before it to render product subscription options:

```
<iscomment>
    product SubPro options
    ============================================================
</iscomment>

<isif condition="${product.custom.subproSubscriptionEnabled}">
    <div class="subscription">
        <div class="sp-add-to-order"></div>
        <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', product.ID,
            'selectedOptionMode', pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue
|| '',
            'selectedInterval', pdict.CurrentHttpParameterMap.selectedInterval.stringValue ||
'')}" />
    </div>
```

```
</isif>
```

Here is the expected result:

productcontent.isml

```
160
161         <iscomment>
162             product SubPro options
163             ============================================================
164         </iscomment>
165
166         <isif condition="${product.custom.subproSubscriptionEnabled}">
167             <div class="subscription">
168                 <div class="sp-add-to-order"></div>
169                 <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', product.ID,
170                     'selectedOptionMode', pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue || '',
171                     'selectedInterval', pdict.CurrentHttpParameterMap.selectedInterval.stringValue || '')}" />
172             </div>
173         </isif>
174
175         <iscomment>
176             product quantity
177             ============================================================
178         </iscomment>
```

3) Scroll down to “add-to-cart” button and insert code below after it to render Subscribe Pro “Add to Order” widget and inject Apple Pay button:

```
<isif condition="${isSubproCustomer}">
    <!-- Subscribe Pro Add to Order Widget -->
    <div class="sp-add-to-order" data-product-sku="${pid}"></div>
    <div id="sp-add-to-order-widget"></div>
</isif>

<isapplepay sku="${pdict.Product.ID}"></isapplepay>
```

Here is the expected result:

productcontent.isml

```
232         };
233     </isscript>
234     <input type="hidden" name="pid" id="pid" value="${pid}" />
235     <isif condition="${!disabledAttr}">
236         <button id="add-to-cart" type="submit" title="${buttonTitle}" value="${buttonTitle}" class="button-fancy-large
237
238         <isif condition="${isSubproCustomer}">
239             <!-- Subscribe Pro Add to Order Widget -->
240             <div class="sp-add-to-order" data-product-sku="${pid}"></div>
241             <div id="sp-add-to-order-widget"></div>
242         </isif>
243
244         <isapplepay sku="${pdict.Product.ID}"></isapplepay>
245     <iselse>
246         <isscript>
247             var pvm = pdict.Product.getVariationModel();
248             var it = pvm.getProductVariationAttributes().iterator();
249             var array = [];
250             var options = '';
```

4) Add code to configure Subscribe Pro “Add to Order” widget:

```
<isif condition="${isSubproCustomer}">
    <iscomment>
        Configure the Subscribe Pro Add to Order Widget
    </iscomment>
```

```
    <!-- Load the Subscribe Pro widget script -->

    <isset name="widgetConfig" scope="page"

value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelper').getWi
dgetConfig(customer.profile.custom.subproCustomerID, 'client_credentials', 'widget', 'sp-
add-to-order-widget', 'sp-add-to-order')}"/>

    <!-- Pass configuration and init the Subscribe Pro widget -->
    <script>
        // Setup config for Subscribe Pro
        var widgetConfig = {
            widgetElementId: '${widgetConfig.widgetElementId}',
            apiBaseUrl: '${widgetConfig.apiAccessToken}',
            apiAccessToken: '${widgetConfig.apiAccessToken}',
            environmentKey: '${widgetConfig.environmentKey}',
            customerId: '${widgetConfig.customerId}',
            addToOrderElementClass: '${widgetConfig.addToOrderElementClass}'
        };
        // Call init
        if (typeof subscribepro !== 'undefined') {
            subscribepro.widgets.init('add-to-order', widgetConfig);
        } else {
            $.getScript(
'${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproWidgetScriptUrl')
}', function( data, textStatus, jqxhr ) {
                subscribepro.widgets.init('add-to-order', widgetConfig);
            });
        }
    </script>
</isif>
```

Here is the expected result:

productcontent.isml

```
        <div id="update-images" style="display:none">
            <isinclude template="product/components/productimages"/>
        </div>
    </isif>

    <isif condition="${isSubproCustomer}">
        <iscomment>
            Configure the Subscribe Pro Add to Order Widget
        </iscomment>

        <!-- Load the Subscribe Pro widget script -->

        <isset name="widgetConfig" scope="page"
            value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelper').getWidgetConfig(custo

        <!-- Pass configuration and init the Subscribe Pro widget -->
        <script>
            // Setup config for Subscribe Pro
            var widgetConfig = {
                widgetElementId: '${widgetConfig.widgetElementId}',
                apiBaseUrl: '${widgetConfig.apiAccessToken}',
                apiAccessToken: '${widgetConfig.apiAccessToken}',
                environmentKey: '${widgetConfig.environmentKey}',
                customerId: '${widgetConfig.customerId}',
                addToOrderElementClass: '${widgetConfig.addToOrderElementClass}'
            };
            // Call init
            if (typeof subscribepro !== 'undefined') {
                subscribepro.widgets.init('add-to-order', widgetConfig);
            } else {
                $.getScript( '${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproWidgetScriptUrl'
                    subscribepro.widgets.init('add-to-order', widgetConfig);
                });
            }
        </script>
    </isif>
</isif>
```

Modify productsetproduct.isml

Locate template */app_storefront_core/cartridge/templates/default/product/components/productsetproduct.isml*. Find input `<input type="hidden" name="pid" value="${pdict.Product.ID}" />`
Insert code below after it to render product subscription options.

```
<iscomment>
    product SubPro options
    ============================================================
</iscomment>

<isif condition="${pdict.Product.custom.subproSubscriptionEnabled}">
    <div class="subscription">
        <div class="sp-add-to-order"></div>
        <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', pdict.Product.ID)}" />
    </div>
</isif>
```

Here is the expected result:

productsetproduct.isml

```
<isif condition="${!pdict.Product.variationGroup}">
    <div class="availability-web">
        <label>${Resource.msg('global.availability','locale',null)}</label>
        <span class="value"><isinclude template="product/components/availability"/></span>
    </div>
</isif>


<form action="${URLUtils.url('Cart-AddProduct')}" method="post" id="${uniqueFormID}">
    <input type="hidden" name="availability" value="${pdict.Product.availabilityModel.availabilityStatus}"/
    <input type="hidden" name="pid" value="${pdict.Product.ID}" />

    <iscomment>
        product SubPro options
        ============================================================
    </iscomment>

    <isif condition="${pdict.Product.custom.subproSubscriptionEnabled}">
        <div class="subscription">
            <div class="sp-add-to-order"></div>
            <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', pdict.Product.ID)}" />
        </div>
    </isif>

    <div class="inventory">
        <div class="quantity">
            <label for="${uniqueFormID}-quantity">${Resource.msg('global.qty','locale',null)}</label>
            <input type="text" name="Quantity" id="${uniqueFormID}-quantity" maxlength="3" class="input-tex
        </div>
    </div>
    <isset name="disabledText" value="${pdict.available ? '' : ' disabled="disabled"'}" scope="page"/>
    <button type="submit" value="${Resource.msg('global.addtocart','locale',null)}" class="button-fancy-med
        ${Resource.msg('global.addtocart','locale',null)}
    </button>
</form>
</div>
</isif>
```

Modify producttopcontentPS.isml

Locate */app_storefront_core/cartridge/templates/default/product/producttopcontentPS.isml* template. Insert code below as shown on the screenshot.

```
<iscomment>
    product SubPro options
    ============================================================
</iscomment>

<isif condition="${pdict.Product.custom.subproSubscriptionEnabled}">
    <h1>SUBPRO</h1>
    <div class="subscription">
        <div class="sp-add-to-order"></div>
        <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', pdict.Product.ID)}" />
    </div>
</isif>
```

Here is the expected result:

producttopcontentPS.isml

```
168             <button id="add-all-to-cart" type="submit" value="${Resource.msg('global.addalltocart','locale',null)}" c
169                 ${Resource.msg('global.addalltocart','locale',null)}
170             </button>
171         <iselse/>
172             <isscript>
173                 var updateSources = ["cart", "giftregistry", "wishlist"];
174                 var source = pdict.CurrentHttpParameterMap.source.stringValue;
175                 var buttonTitle = (empty(source) || updateSources.indexOf(source)<0) ?  dw.web.Resource.msg('global.ac
176             </isscript>
177
178             <iscomment>
179                 product SubPro options
180                 ============================================================
181             </iscomment>
182
183             <isif condition="${pdict.Product.custom.subproSubscriptionEnabled}">
184                 <h1>SUBPRO</h1>
185                 <div class="subscription">
186                     <div class="sp-add-to-order"></div>
187                     <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', pdict.Product.ID)}" />
188                 </div>
189             </isif>
190
191             <isset name="cartAction" value="add" scope="page"/>
192             <isif condition="${pdict.CurrentHttpParameterMap.uuid.stringValue}">
193                 <input type="hidden" name="uuid" id="uuid" value="${pdict.CurrentHttpParameterMap.uuid.stringValue}" /
194                 <isset name="cartAction" value="update" scope="page"/>
195             </isif>
196             <input type="hidden" name="cartAction" id="cartAction" value="${cartAction}" />
197             <input type="hidden" name="pid" id="pid" value="${pdict.Product.ID}" />
198             <button id="add-to-cart" type="submit" title="${buttonTitle}" value="${buttonTitle}" class="button-fancy-
199         </isif>
200
201     </div><!-- END .addalltocart -->
202 </form>
203
```

Modify pt_productdetails_UI.isml

Locate */app_storefront_core/cartridge/templates/default/product/pt_productdetails_UI.isml* template. Add line below to load styles.

```
<link rel="stylesheet" href="${URLUtils.staticURL('/css/subscribepro.css')}" />
```

Here is the expected result:

pt_productdetails_UI.isml

```
1 <iscontent type="text/html" charset="UTF-8" compact="true"/>
2 <link rel="stylesheet" href="${URLUtils.staticURL('/css/subscribepro.css')}" />
```

Modify variant.js script

Locate */app_storefront_core/cartridge/js/pages/product/variant.js* script. Add logic to handle displaying of subscription options. Include script from the int_subscribe_pro cartridge *(note this path may be different depending on the implementation*):

```
var subscriptionOptions = require('../../../../../../LINK-subscribe-
pro/int_subscribe_pro/cartridge/js/subscriptionOptions');
```

and call function:

```
subscriptionOptions.variantInit();
```

(see picture below).

Here is the expected result:

variant.js

```
3  var ajax = require('../../ajax'),
4      image = require('./image'),
5      progress = require('../../progress'),
6      productStoreInventory = require('../../storeinventory/product'),
7      tooltip = require('../../tooltip'),
8      util = require('../../util'),
9      subscriptionOptions = require('../../../../../../LINK-subscribe-pro/int_subscribe_pro/cartridge/js/subscriptionOptions');
10 /**
11  * @description update product content with new variant from href, load new content to #product-content panel
12  * @param {String} href - url of the new product variant
13  **/
14 var updateContent = function (href) {
15     var $pdpForm = $('.pdpForm');
16     var qty = $pdpForm.find('input[name="Quantity"]').first().val();
17     var params = {
22     progress.show($('#pdpMain'));
23     ajax.load({
24         url: util.appendParamsToUrl(href, params),
25         target: $('#product-content'),
26         callback: function () {
27             if (SitePreferences.STORE_PICKUP) {
28                 productStoreInventory.init();
29             }
30             image.replaceImages();
31             tooltip.init();
32             subscriptionOptions.variantInit();
33         }
34     });
35 };
36
37 module.exports = function () {
38     var $pdpMain = $('#pdpMain');
39     // hover on swatch - should update main image with swatch image
40     $pdpMain.on('mouseenter mouseleave', '.swatchanchor', function () {
41         var largeImg = $(this).data('lgimg'),
42             $imgZoom = $pdpMain.find('.main-image'),
43             $mainImage = $pdpMain.find('.primary-image');
44         if (!largeImg) { return; }
45         // store the old data from main image for mouseleave handler
46         $(this).data('lgimg', {
47             hires: $imgZoom.attr('href'),
48             url: $mainImage.attr('src'),
49             alt: $mainImage.attr('alt'),
50             title: $mainImage.attr('title')
51         });
52         // set the main image
53         image.setMainImage(largeImg);
54     });
55     // click on swatch - should replace product content with new variant
56     $pdpMain.on('click', '.product-detail .swatchanchor', function (e) {
57         e.preventDefault();
58         if ($(this).parents('li').hasClass('unselectable')) { return; }
59         updateContent(this.href);
60     });
61     // change drop down variation attribute - should replace product content with new variant
62     $pdpMain.on('change', '.variation-select', function () {
63         if ($(this).val().length === 0) { return; }
64         updateContent($(this).val());
65     });
66
67     subscriptionOptions.variantInit();
```

Modify GetProductDetailUrl.ds

Locate */app_storefront_core/cartridge/scripts/product/GetProductDetailUrl.ds* script. Find GetProductDetailUrl function and add code below to append selected subscription option mode and

interval to URL.

```
if (pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue) {
    urlParams['selectedOptionMode'] =
pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue;
}

if (pdict.CurrentHttpParameterMap.selectedInterval.stringValue) {
    urlParams['selectedInterval'] =
pdict.CurrentHttpParameterMap.selectedInterval.stringValue;
}
```

Here is the expected result:

GetProductDetailUrl.ds

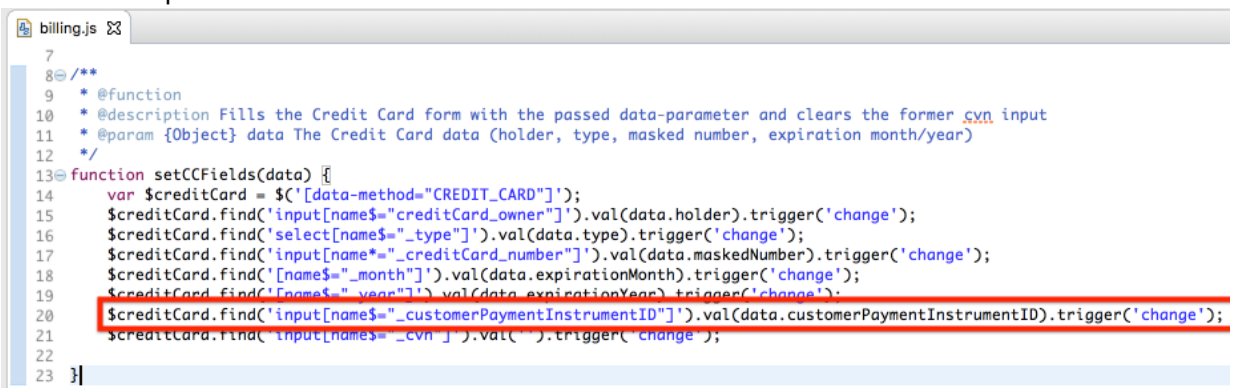
```
120 /**
121  * Create Product-Detail url for use in product/product.isml template
122  *
123  * @param pdict PipelineDictionary
124  *
125  **/
126 function GetProductDetailUrl(pdict) {
127     var urlArgs = ['Product-Detail'];
128     var urlParams = {
129         pid: pdict.Product.ID,
130         source: pdict.CurrentHttpParameterMap.source.stringValue,
131         uuid: pdict.CurrentHttpParameterMap.uuid.stringValue,
132         Quantity: pdict.CurrentHttpParameterMap.Quantity.stringValue,
133         productlistid: pdict.CurrentHttpParameterMap.productlistid.stringValue
134     };
135
136     if (pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue) {
137         urlParams['selectedOptionMode'] = pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue;
138     }
139
140     if (pdict.CurrentHttpParameterMap.selectedInterval.stringValue) {
141         urlParams['selectedInterval'] = pdict.CurrentHttpParameterMap.selectedInterval.stringValue;
142     }
143
144     var variationAttributes = GetVariationAttributes(pdict);
145     var productOptions = GetProductOptions(pdict.CurrentOptionModel);
146
147     // construct the urlArgs array with params names and values
148     for (var param in urlParams) {
149         urlArgs.push(param);
150         urlArgs.push(urlParams[param]);
151     }
152     for (var attr in variationAttributes) {
```

Modify billing.js

Locate */app_storefront_core/cartridge/js/pages/checkout/billing.js* script. Find setCCFields function and add code below to update the customer payment instrument input field with the selected UUID.

```
$creditCard.find('input[name$="_customerPaymentInstrumentID"]').val(data.customerPaymentInstrumentID).trigger('change');
```

Here is the expected result:



Changes need to be done to display Subscribe Pro “Add to Order” widget.

Modify productgrid.isml

Find template */app_storefront_core/cartridge/templates/default/search/productgrid.isml*. Insert code below to add tag which the Subscribe Pro “Add to Order” widget will be rendered to.

```
<isif condition="${customer.profile && customer.profile.custom.subproCustomerID}">
   <!-- Subscribe Pro Add to Order Widget -->
   <div class="sp-add-to-order" data-product-sku="${LoopProductHit.productID}"></div>
   <div id="sp-add-to-order-widget"></div>
</isif>
```

Here is the expected result:

productgrid.isml

```
1  <iscontent type="text/html" charset="UTF-8" compact="true"/>
2  <isscript>
3      importScript('search/ProductGridUtils.ds');
4  </isscript>
5  <iscomment><!--Display the remaining products as list--></iscomment>
6
7  <ul id="search-result-items" class="search-result-items tiles-container clearfix ${ProductGridUtils.getCompareClass(pdi
8      <isloop items="${pdict.pagingmodel.pageElements}" var="LoopProductHit" status="loopstate">
9
10         <li class="grid-tile ${(loopstate.index % 3 == 0) ? 'new-row' : ''}"  data-colors-to-show="${ProductGridUtils.g
11
12             <iscomment><!--display a tile per product--></iscomment>
13             <isobject object="${LoopProductHit}" view="searchhit">
14                 <iscomment><!-- Self contained product information. Can be cached separately even if search finds this
15                 <isinclude url="${ProductGridUtils.buildHitTileURL(LoopProductHit, pdict.CurrentHttpParameterMap.cgid.v
16             </isobject>
17
18             <isif condition="${customer.profile && customer.profile.custom.subproCustomerID}">
19                 <!-- Subscribe Pro Add to Order Widget -->
20                 <div class="sp-add-to-order" data-product-sku="${LoopProductHit.productID}"></div>
21                 <div id="sp-add-to-order-widget"></div>
22             </isif>
23         </li>
24     </isloop>
25 </ul>
26 <isif condition="${dw.system.Site.getCurrent().getCustomPreferenceValue('enableInfiniteScroll')}">
27     <isif condition="${pdict.pagingmodel.currentPage != pdict.pagingmodel.maxPage }">
28         <div class="infinite-scroll-placeholder" data-loading-state="unloaded" data-grid-url="${decodeURI(pdict.pagingm
29     </isif>
30 </isif>
```

Modify pt_productsearchresult.isml

Find template */app_storefront_core/cartridge/templates/default/search/pt_productsearchresult.isml*. Add code below at the end of body to render the Subscribe Pro “Add to Order” widget.

```
<isif condition="${customer.authenticated}">
    <iscomment>
        Configure the Subscribe Pro Add to Order Widget
    </iscomment>

    <!-- Load the Subscribe Pro widget script -->
```

```
    <script
src="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subscribeProWidgetSc
riptUrl')}"></script>

    <isset name="widgetConfig" scope="page"

value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelper').getWid
getConfig(customer.profile.custom.subproCustomerID, 'client_credentials', 'widget', 'sp-add-
to-order-widget', 'sp-add-to-order')}"/>

    <!-- Pass configuration and init the Subscribe Pro widget -->
    <script>
        // Setup config for Subscribe Pro
        var widgetConfig = {
            widgetElementId: '${widgetConfig.widgetElementId}',
            apiBaseUrl: '${widgetConfig.apiAccessToken}',
            apiAccessToken: '${widgetConfig.apiAccessToken}',
            environmentKey: '${widgetConfig.environmentKey}',
            customerId: '${widgetConfig.customerId}',
            addToOrderElementClass: '${widgetConfig.addToOrderElementClass}'
        };
        // Call init
        subscribepro.widgets.init('add-to-order', widgetConfig);
    </script>
</isif>
```

Here is the expected result:

pt_productsearchresult.isml

```
            <isreplace/>
        </div>

        <isinclude template="components/footer/footer"/>
        <isinclude template="search/pt_productsearchresult_UI"/>
        <isinclude template="search/pt_productsearchresult_VARS"/>
    </div>

    <isif condition="${customer.authenticated && customer.profile.custom.subproCustomerID}">
        <iscomment>
            Configure the Subscribe Pro Add to Order Widget
        </iscomment>

        <!-- Load the Subscribe Pro widget script -->
        <script src="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproWidgetScriptUrl')}"></script>

        <isset name="widgetConfig" scope="page"
            value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelper').getWidgetConfig(customer.pro

        <!-- Pass configuration and init the Subscribe Pro widget -->
        <script>
            // Setup config for Subscribe Pro
            var widgetConfig = {
                widgetElementId: '${widgetConfig.widgetElementId}',
                apiBaseUrl: '${widgetConfig.apiAccessToken}',
                apiAccessToken: '${widgetConfig.apiAccessToken}',
                environmentKey: '${widgetConfig.environmentKey}',
                customerId: '${widgetConfig.customerId}',
                addToOrderElementClass: '${widgetConfig.addToOrderElementClass}'
            };
            // Call init
            subscribepro.widgets.init('add-to-order', widgetConfig);
        </script>
    </isif>
</body>
</html>
```

Changes need to be done to display subscription options for products in cart.

Modify cart.isml

Find template */app_storefront_core/cartridge/templates/default/checkout/cart/cart.isml*. Add code below to include template with subscription options if product line item has SubPro subscriptions.

```
<isdisplayliproduct p_productli="${lineItem}" p_formli="${FormLi}" p_editable="${true}"
p_hideprice="${true}" p_hidepromo="${false}" />
<isif condition="${lineItem.custom.subproSubscriptionOptionMode}">
    <div class="subscription">
        <isinclude url="${URLUtils.url('SubPro-Cart', 'pliUUID',
productLineItem.getUUID())}" />
    </div>
</isif>
```

Insert it after each <isdisplayliproduct/> tag (there should be two such places).

Here is the expected result:

Modify displayliproduct.isml

Locate */app_storefront_core/cartridge/templates/default/product/components/displayliproduct.isml* template. Find <isscript> where URL is built. Add following lines to urlParams object to save subscription selected option mode and interval.

```
selectedOptionMode: productLineItem.custom.subproSubscriptionSelectedOptionMode,
selectedInterval: productLineItem.custom.subproSubscriptionInterval
```

Here is the expected result:

displayliproduct.isml

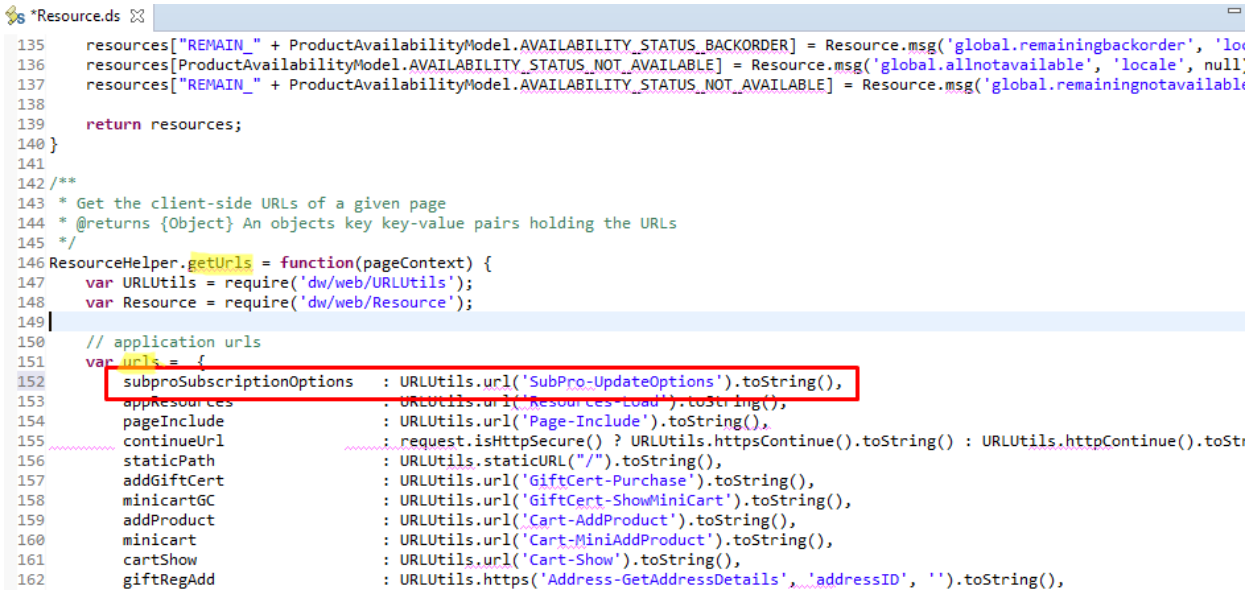
```
<iscomment>
    Show Edit Details link if
    Product is not null and it is either a variant and online or options product and online
</iscomment>
<isif condition="${!productLineItem.bonusProductLineItem && productLineItem.product != null && ((pdict.p_editable &&
    <div class="item-edit-details">
        <isif condition="${empty(pdict.p_editable) || pdict.p_editable}">
            <isscript>
                var liUrl = '';
                var urlArgs = ['Product-Show'];
                var urlParams = {
                    pid: productLineItem.productID,
                    Quantity: productLineItem.quantity.value.toFixed(),
                    uuid: productLineItem.UUID,
                    source: 'cart',
                    selectedOptionMode: productLineItem.custom.subproSubscriptionSelectedOptionMode,
                    selectedInterval: productLineItem.custom.subproSubscriptionInterval
                };

                // if item has a category context, forward this category context
                if (productLineItem.categoryID != null) {
                    urlParams.cgid = productLineItem.categoryID;
                }

                if (productLineItem.optionProductLineItems.size() > 0) {
                    var pom : dw.catalog.ProductOptionModel = productLineItem.optionModel;
                    var it : dw.util.Iterator = productLineItem.optionProductLineItems.iterator();

                    while (it.hasNext()) {
                        var oli : dw.order.ProductLineItem = it.next();
                        var opt : dw.catalog.ProductOption = pom.getOption(oli.optionID);
                        urlParams[opt.htmlName] = pom.getOptionValue(opt, oli.optionValueID).ID;
                    }
                }
```

Modify Resource.ds

Find */app_storefront_core/cartridge/scripts/util/Resource.ds*. Find method getUrls(), variable urls and insert code below to add url to SubPro-UpdateOptions controller node which will update Subscription Options on Product Line Item in cart.

```
subproSubscriptionOptions : URLUtils.url('SubPro-UpdateOptions').toString()
```

Here is the expected result:



Modify cart.js

Find script */app_storefront_core/cartridge/js/pages/cart.js*. Add logic to handle displaying and modifying of the subscription options. Include script from the int_subscribe_pro cartridge *(Note: this path may change depending on implementation):*

```
var subscriptionOptions = require('../../../../../../LINK-subscribe-
pro/int_subscribe_pro/cartridge/js/subscriptionOptions');
```

and at the end of initializeEvents() function call function cartInit():

```
subscriptionOptions.cartInit();
```

Here is the expected result:

cart.js

```
'use strict';

var account = require('./account'),
    bonusProductsView = require('../bonus-products-view'),
    quickview = require('../quickview'),
    cartStoreInventory = require('../storeinventory/cart'),
    subscriptionOptions = require('../../../../../LINK-subscribe-pro/int_subscribe_pro/cartridge/js/subscriptionOptions');

/**
 * @private
 * @function
 * @description Binds events to the cart page (edit item's details, bonus item's actions, coupon code entry)
 */
function initializeEvents() {
    $('#cart-table').on('click', '.item-edit-details a', function (e) {
        e.preventDefault();
        quickview.show({
            url: e.target.href,
            source: 'cart'
        });
    })
    .on('click', '.bonus-item-actions a, .item-details .bonusproducts a', function (e) {
        e.preventDefault();
        bonusProductsView.show(this.href);
    });

    // override enter key for coupon code entry
    $('form input[name$="_couponCode"]').on('keydown', function (e) {
        if (e.which === 13 && $(this).val().length === 0) {
            return false;
        }
    });

    //to prevent multiple submissions of the form when removing a product from the cart
    var removeItemEvent = false;
    $('button[name$="deleteProduct"]').on('click', function (e) {
        if (removeItemEvent) {
            e.preventDefault();
        } else {
            removeItemEvent = true;
        }
    });

    subscriptionOptions.cartInit();
}

exports.init = function () {
```

Modify CartModel.js

Find script model */app_storefront_controllers/cartridge/scripts/models/CartModel.js*.
Add logic to get product subscription options from template and then save them to Product Line Item custom attributes. Data that will be stored in Product Line Item:

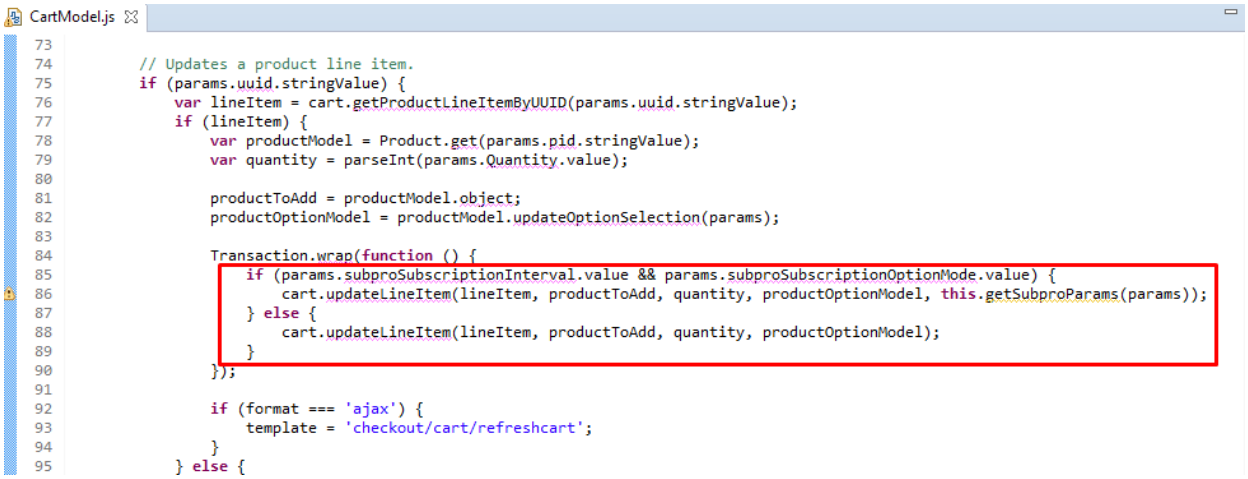
- subproSubscriptionAvailableOptionMode
- subproSubscriptionOptionMode
- subproSubscriptionInterval
- subproSubscriptionAvailableIntervals
- subproSubscriptionDiscount
- subproSubscriptionIsDiscountPercentage
- subproContainsSubscriptions
- subproSubscriptionsToBeProcessed

1) Find method *addProductToCart*. Find line:
   `cart.updateLineItem(lineItem, productToAdd, quantity, productOptionModel);`

   and replace with the code below:

```
if (params.subproSubscriptionInterval.value && params.subproSubscriptionOptionMode.value) {
    cart.updateLineItem(lineItem, productToAdd, quantity, productOptionModel,
cart.getSubproParams(params));
} else {
    cart.updateLineItem(lineItem, productToAdd, quantity, productOptionModel);
}
```

Here is the expected result:



2) Find method *addProductToCart*. Find line:
`cart.addProductItem(productToAdd.object, params.Quantity.doubleValue, productOptionModel);`

and replace with the code below:

```
if (params.subproSubscriptionInterval.value && params.subproSubscriptionOptionMode.value) {
    cart.addProductItem(productToAdd.object, params.Quantity.doubleValue, productOptionModel,
cart.getSubproParams(params));
} else {
    cart.addProductItem(productToAdd.object, params.Quantity.doubleValue, productOptionModel);
}
```

Here is the expected result:

CartModel.js

```
109     var previousBonusDiscountLineItems = cart.getBonusDiscountLineItems();
110     productToAdd = Product.get(params.pid.stringValue);
111
112     if (productToAdd.object.isProductSet()) {
113         var childPids = params.childPids.stringValue.split(',');
114         var childQtys = params.childQtys.stringValue.split(',');
115         var counter = 0;
116
117         for (var i = 0; i < childPids.length; i++) {
118             var childProduct = Product.get(childPids[i]);
119
120             if (childProduct.object && !childProduct.isProductSet()) {
121                 var childProductOptionModel = childProduct.updateOptionSelection(params);
122                 cart.addProductItem(childProduct.object, parseInt(childQtys[counter]), childProductOptionModel);
123             }
124             counter++;
125         }
126     } else {
127         productOptionModel = productToAdd.updateOptionSelection(params);
128
129         if (params.subproSubscriptionInterval.value && params.subproSubscriptionOptionMode.value) {
130             cart.addProductItem(productToAdd.object, params.Quantity.doubleValue, productOptionModel, this.getSubproParams(params));
131         } else {
132             cart.addProductItem(productToAdd.object, params.Quantity.doubleValue, productOptionModel);
133         }
134     }
135
136     // When adding a new product to the cart, check to see if it has triggered a new bonus discount line item.
137     newBonusDiscountLineItem = cart.getNewBonusDiscountLineItem(previousBonusDiscountLineItems);
138 }
139
140 return {
141     format: format,
142     template: template,
143     BonusDiscountLineItem: newBonusDiscountLineItem
144 };
```

3) Find method *addProductItem*. Add *subproParams* to function parameters.
   Add `subproParams` parameter to method (see image below).
   Find line:

```
var productLineItem = cart.createProductLineItem(product, productOptionModel, shipment);
```

   Add code below after it to update Product Line Item with Subscribe Pro parameters:

```
if (subproParams) {
    cart.addSubproParamsToPLI(productLineItem, subproParams);
}
```

Here is the expected result:

CartModel.js

```
181     * @param {dw.catalog.ProductOptionModel} productOptionModel - The option model of the product that is to be added to the basket.
182     * @param {Object} [subproParams] - Object containing options for SubPro subscription
183     */
184    addProductItem: function (product, quantity, productOptionModel, subproParams) {
185        var cart = this;
186        Transaction.wrap(function () {
187            var i;
188            if (product) {
189                var productInCart;
190                var productListItems = cart.object.productLineItems;
191                var quantityInCart;
192                var quantityToSet;
193                var shipment = cart.object.defaultShipment;
194
195                for (var q = 0; q < cart.object.productLineItems.length; q++) {
196                    if (productListItems[q].productID === product.ID) {
197                        productInCart = productListItems[q];
198                        break;
199                    }
200                }
201
202                if (productInCart) {
203                    quantityInCart = productInCart.getQuantity();
204                    quantityToSet = quantity ? quantity + quantityInCart : quantityInCart + 1;
205                    productInCart.setQuantityValue(quantityToSet);
206                } else {
207                    var productLineItem = cart.createProductLineItem(product, productOptionModel, shipment);
208
209                    if (subproParams) {
210                        cart.addSubproParamsToPLI(productLineItem, subproParams);
211                    }
212
213                    if (quantity) {
214                        productLineItem.setQuantityValue(quantity);
215                    }
216                }
217
```

4) Find method *updateLineItem*. Add *subproParams* to function parameters.
   Add `subproParams` parameter to method (see image below).
   Add code below after it to update Product Line Item with Subscribe Pro parameters:

```
if (subproParams) {
    this.addSubproParamsToPLI(lineItem, subproParams);
}
```

Here is the expected result:

CartModel.js

```
505      * pids of the bundled products that are variations and any options.
506      *
507      * @transactional
508      * @alias module:models/CartModel~CartModel/updateLineItem
509      * @param {dw.order.ProductLineItem} lineItem - The product line item to replace.
510      * @param {dw.catalog.Product} product - The new product.
511      * @param {Number} quantity - The quantity of the product line item after replacement.
512      * @param {dw.catalog.ProductOptionModel} productOptionModel - The option model of the product to add to the basket.
513      * @param {Object} [subproParams] - Object containing options for SubPro subscription
514      */
515     updateLineItem: function (lineItem, product, quantity, productOptionModel, subproParams) {
516         var optionValues = productOptionModel.getOptions();
517
518         lineItem.replaceProduct(product);
519         lineItem.setQuantityValue(quantity);
520
521         if (optionValues.length) {
522             lineItem.updateOptionValue(optionValues[0]);
523         }
524
525         if (subproParams) {
526             this.addSubproParamsToPLI(lineItem, subproParams);
527         }
528
529         if (product.isBundle()) {
530
531             if (request.httpParameterMap.childPids.stringValue) {
532                 var childPids = request.httpParameterMap.childPids.stringValue.split(',');
533
534                 for (var i = 0; i < childPids.length; i++) {
535                     var childProduct = Product.get(childPids[i]).object;
536
537                     if (childProduct) {
538                         // why is this needed ?
539                         childProduct.updateOptionSelection(request.httpParameterMap);
540
```

5) Find method *createOrder*.
Add code below to update basket with Subscribe Pro properties.

```
let isSubPro =
require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js').isSubPro();
if (isSubPro) {
    Transaction.wrap(function () {
        basket.custom.subproContainsSubscriptions = isSubPro;
        basket.custom.subproSubscriptionsToBeProcessed = true;
    });
}
```

Here is the expected result:

CartModel.js

```
1420        * registry, the purchase history of the respective gift registry item is updated.
1421        *
1422        * @transactional
1423        * @alias module:models/CartModel~CartModel/createOrder
1424        * @returns {dw.order.Order} The created order in status CREATED or null if an error occured.
1425        */
1426       createOrder: function () {
1427           var basket = this.object;
1428           var order;
1429           try {
1430               let isSubPro = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js').isSubPro();
1431               if (isSubPro) {
1432                   Transaction.wrap(function () {
1433                       basket.custom.subproContainsSubscriptions = isSubPro;
1434                       basket.custom.subproSubscriptionsToBeProcessed = true;
1435                   });
1436               }
1437
1438               order = Transaction.wrap(function () {
1439                   return OrderMgr.createOrder(basket);
1440               });
1441           } catch (error) {
1442               return;
1443           }
1444
1445           return order;
1446       },
1447
```

6) Finally, add methods to CartModel object:

```
/**
 * Get Subscribe Pro subscription parameters and return them as an object.
 *
 * @param {object} params
 * @returns {{subscriptionInterval, subscriptionOptionMode, subscriptionSelectedOptionMode,
subscriptionAvailableIntervals, subscriptionDiscount, subscriptionIsDiscountPercentage:
boolean}}
 */
getSubproParams: function (params) {
    return {
        "subscriptionInterval": params.subproSubscriptionInterval.value,
        "subscriptionOptionMode": params.subproSubscriptionAvailableOptionMode.value,
        "subscriptionSelectedOptionMode": params.subproSubscriptionOptionMode.value,
        "subscriptionAvailableIntervals":
params.subproSubscriptionAvailableIntervals.value,
        "subscriptionDiscount": params.subproSubscriptionDiscount.value,
        "subscriptionIsDiscountPercentage":
params.subproSubscriptionIsDiscountPercentage.booleanValue
    }
},

/**
 * Update Product Line Item with Subscribe Pro subscription parameters
 *
 * @param {dw.order.ProductLineItem} pli The product line item to update
 * @param {object} subproParams Object containing Subscribe Pro subscription parameters
which should be added to product line item
 */
addSubproParamsToPLI: function (pli, subproParams) {
    var discountValue = parseFloat(subproParams.subscriptionDiscount),
        discountToApply = subproParams.subscriptionIsDiscountPercentage
            ? new dw.campaign.PercentageDiscount(discountValue * 100)
            : new dw.campaign.AmountDiscount(discountValue);

    if (subproParams.subscriptionSelectedOptionMode === 'regular') {
        pli.createPriceAdjustment("SubscribeProDiscount", discountToApply);
    }
```

```
    pli.custom.subproSubscriptionOptionMode = subproParams.subscriptionOptionMode;
    pli.custom.subproSubscriptionSelectedOptionMode =
subproParams.subscriptionSelectedOptionMode;
    pli.custom.subproSubscriptionInterval = subproParams.subscriptionInterval;
    pli.custom.subproSubscriptionAvailableIntervals =
subproParams.subscriptionAvailableIntervals;
    pli.custom.subproSubscriptionDiscount = discountValue;
    pli.custom.subproSubscriptionIsDiscountPercentage =
subproParams.subscriptionIsDiscountPercentage;
}
```

Here is the expected result:

CartModel.js

```
        return null;
    },

    /**
     * Get Subscribe Pro subscription parameters and return them as an object.
     *
     * @param {object} params
     * @returns {{subscriptionInterval, subscriptionOptionMode, subscriptionSelectedOptionMode, subscriptionAvailableIntervals, subscr
     */
    getSubproParams: function (params) {
        return {
            "subscriptionInterval": params.subproSubscriptionInterval.value,
            "subscriptionOptionMode": params.subproSubscriptionAvailableOptionMode.value,
            "subscriptionSelectedOptionMode": params.subproSubscriptionOptionMode.value,
            "subscriptionAvailableIntervals": params.subproSubscriptionAvailableIntervals.value,
            "subscriptionDiscount": params.subproSubscriptionDiscount.value,
            "subscriptionIsDiscountPercentage": params.subproSubscriptionIsDiscountPercentage.booleanValue
        }
    },

    /**
     * Update Product Line Item with Subscribe Pro subscription parameters
     *
     * @param {dw.order.ProductLineItem} pli The product line item to update
     * @param {object} subproParams Object containing Subscribe Pro subscription parameters which should be added to product line ite
     */
    addSubproParamsToPLI: function (pli, subproParams) {
        var discountValue = parseFloat(subproParams.subscriptionDiscount),
            discountToApply = subproParams.subscriptionIsDiscountPercentage
                ? new dw.campaign.PercentageDiscount(discountValue * 100)
                : new dw.campaign.AmountDiscount(discountValue);

        if (subproParams.subscriptionSelectedOptionMode === 'regular') {
            pli.createPriceAdjustment("SubscribeProDiscount", discountToApply);
        }
        pli.custom.subproSubscriptionOptionMode = subproParams.subscriptionOptionMode;
        pli.custom.subproSubscriptionSelectedOptionMode = subproParams.subscriptionSelectedOptionMode;
        pli.custom.subproSubscriptionInterval = subproParams.subscriptionInterval;
        pli.custom.subproSubscriptionAvailableIntervals = subproParams.subscriptionAvailableIntervals;
        pli.custom.subproSubscriptionDiscount = discountValue;
        pli.custom.subproSubscriptionIsDiscountPercentage = subproParams.subscriptionIsDiscountPercentage;
    }

});
```

Changes need to be done to checkout process with subscription products.

Modify paymentmethods.isml

Locate template */app_storefront_core/cartridge/templates/default/checkout/billing/paymentmethods.isml*. Add code below to force show form with credit card payment methods.

1) Set `isSubPro` variable which will indicate if cart has items with subscription:

```
<isscript>
var SubscribeProLib =
require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib');
</isscript>

<isset name="isSubPro" value="${SubscribeProLib.isSubPro()}" scope="page" />
```

2) Change following condition to:

```
<isif condition="${pdict.OrderTotal > 0 || isSubPro}">
```

3) Add code below to render message, informing customer that credit card is required.

```
<isif condition="${pdict.OrderTotal <= 0 && isSubPro}"></fieldset>
    <div class="subpro-
message">${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproCreditCar
dRequirementMsg')}</div>
</isif>
```

4) Add to force show form with credit card payment methods.

```
<isif condition="${pdict.CurrentCustomer.authenticated}">
    <isif condition="${isSubPro}">
        <isset name="saveInputField"
value="${pdict.CurrentForms.billing.paymentMethods.creditCard.saveCard}" scope="page" />

        <div class="form-row  label-inline form-indent">
            <div class="field-wrapper">
                <input class="input-checkbox" type="checkbox" disabled="disabled"
checked="checked" value="true">
                <input type="hidden" id="${saveInputField.htmlName}"
name="${saveInputField.htmlName}" value="true">
            </div>
            <label for="${saveInputField.htmlName}">
                <span><isprint value="${Resource.msg(saveInputField.label, 'forms', null)}"
/></span>
            </label>
            <div class="form-caption"><isprint
value="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproSavedCredit
Msg')}" /></div>
        </div>
```

```
    <iselse>
        <isinputfield
formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.saveCard}"
type="checkbox" />
    </isif>
</isif>
```

5) Add hidden form element to track the selected Customer Payment Instrument.

```
<isinputfield
formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.customerPaymentInstrument
ID}" type="hidden" rowClass="visually-hidden" />
```

Here is the expected result:

paymentmethods.isml

```
<isinclude template="util/modules"/>
<isscript>
var SubscribeProLib = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib');
</isscript>

<isset name="isSubPro" value="${SubscribeProLib.isSubPro()}" scope="page" />

<isif condition="${pdict.OrderTotal > 0 || isSubPro}">
    <fieldset>

        <legend>

        <isif condition="${pdict.OrderTotal <= 0 && isSubPro}"></fieldset>
            <div class="subpro-message">${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproCreditCardRequirementMsg')}</div>
        </isif>

        <div class="payment-method-options form-indent">

        <div class="form-row form-row-button">

        <isif condition="${!empty(pdict.MissingPaymentProcessor)}">
            <div class="billing-error">${Resource.msg('billing.missingprocessorerror','checkout',null)}</div>
        </isif>

        <iscomment>
            Credit card block
            ----------------------------------------------------------------
        </iscomment>

        <div class="payment-method <isif condition="${empty(pdict.selectedPaymentID) || pdict.selectedPaymentID=='CREDIT_CARD'}">payment-method-expanded</isif>" dat

            <iscomment>display select box with stored credit cards if customer is authenticated</iscomment>
            <isif condition="${pdict.CurrentCustomer.authenticated && !empty(pdict.ApplicableCreditCards)}">

            <isinputfield formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.owner}" type="input"/>

            <isinputfield formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.customerPaymentInstrumentID}" type="hidden" rowClass="visually-hidden" />

            <isinputfield formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.type}" type="select"/>

            <isinputfield formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.number}" type="input" dynamicname="true"/>

            <div class="form-row required">

            <isscript>
            <isinputfield formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.cvn}" type="input" rowclass="cvn" dynamicname="true" help="${help}"/>

            <isif condition="${pdict.CurrentCustomer.authenticated}">
                <isif condition="${isSubPro}">
                    <isset name="saveInputField" value="${pdict.CurrentForms.billing.paymentMethods.creditCard.saveCard}" scope="page" />

                    <div class="form-row  label-inline form-indent">
                        <div class="field-wrapper">
                            <input class="input-checkbox" type="checkbox" disabled="disabled" checked="checked" value="true">
                            <input type="hidden" id="${saveInputField.htmlName}" name="${saveInputField.htmlName}" value="true">
                        </div>
                        <label for="${saveInputField.htmlName}">
                            <span><isprint value="${Resource.msg(saveInputField.label, 'forms', null)}" /></span>
                        </label>
                        <div class="form-caption"><isprint value="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproSavedCreditMsg')}" /></div
                    </div>
                <iselse>
                    <isinputfield formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.saveCard}" type="checkbox" />
                </isif>
            </isif>

        </div>
```

Modify checkoutlogin.isml

Locate template */app_storefront_core/cartridge/templates/default/checkout/checkoutlogin.isml*.

1) Add code below to display message to customer.

```
<isif condition="${pdict.isSubpro}">
    <div class="subpro-
message">${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproCheckoutL
oginMsg')}</div>
</isif>
```

2) Find condition

`<isif condition="${!pdict.CurrentCustomer.registered}">`

and replace it with code below to hide 'Checkout as Guest' option if cart has items with subscription.

```
<isif condition="${!pdict.CurrentCustomer.registered && !pdict.isSubpro}">
```

Here is the expected result:

checkoutlogin.isml

```
1  <iscontent type="text/html" charset="UTF-8" compact="true"/>
2  <isdecorate template="checkout/cart/pt_cart">
3  <isinclude template="util/modules"/>
4
5  <iscomment>Report this checkout step</iscomment>
6
7  <isreportcheckout checkoutstep="${1}" checkoutname="${'CheckoutMethod'}"/>
8  <div class="checkoutLogin">
9
10     <isif condition="${pdict.isSubpro}">
11         <div class="subpro-message">${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproCheckoutLoginMsg')}</div>
12     </isif>
13     <div class="col-1">
14
15         <div class="login-box">
16
17             <h2>${Resource.msg('checkoutlogin.guestheader','checkout',null)}</h2>
18
19             <div class="login-box-content clearfix">
20                 <isif condition="${!pdict.CurrentCustomer.registered && !pdict.isSubpro}">
21                     <p>${Resource.msg('checkoutlogin.guestmessage','checkout',null)}</p>
22                     <form action="${URLUtils.httpsContinue()}" method="post">
23                     <fieldset>
24                         <div class="form-row formbuttonrow">
25                             <button type="submit" value="${Resource.msg('checkoutlogin.checkoutguestbutton','checkout',null)}" name="${
26                         </div>
27                         <input type="hidden" name="${dw.web.CSRFProtection.getTokenName()}" value="${dw.web.CSRFProtection.generateToker
28                     </fieldset>
29                     </form>
30                 </isif>
31                 <iscomment>new customer</iscomment>
32                 <p>${Resource.msg('globalaccount.createmessage','locale',null)}</p>
33                 <form action="${URLUtils.httpsContinue()}" method="post">
```

Modify minilineitems.isml

Locate template */app_storefront_core/cartridge/templates/default/checkout/components/minilineitems.isml*. Add logic to show selected subscription options on mini cart and Order Summary Right Rail.

Add code block below after `<div class="mini-cart-pricing">` tag.

```
<isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
```

```
    <div class="mini-cart-subscription-options">
        <isinclude url="${URLUtils.url('SubPro-OrderSummary', 'pliUUID',
productLineItem.getUUID())}" />
    </div>
</isif>
```

Here is the expected result:

Modify multishippingshipments.isml

Locate template */app_storefront_core/cartridge/templates/default/checkout/shipping/multishipping/multishippingshipments.isml*.
Add code below after `<isdisplayliproduct />` tag to show subscription options for multishipping.

```
<isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
    <div class="subscription">
        <isinclude url="${URLUtils.url('SubPro-Cart', 'pliUUID',
productLineItem.getUUID())}" />
    </div>
</isif>
```

Here is the expected result:

multishippingshipments.isml

```
126                 </isif>
127             </td>
128
129             <td class="item-details">
130                 <iscomment>Display product line and product using module</iscomment>
131                 <isdisplayliproduct p_productli="${productLineItem}" p_editable="${false}"/>
132                 <isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
133                     <div class="subscription">
134                         <isinclude url="${URLUtils.url('SubPro-Cart', 'pliUUID', productLineItem.getUUID())}" />
135                     </div>
136                 </isif>
137             </td>
138
```

Modify summary.isml

Locate template */app_storefront_core/cartridge/templates/default/checkout/summary/summary.isml*. Add code below after `<isdisplayliproduct />` tag to show selected subscription options on Order Review page.

```
<isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
   <div class="subscription">
       <isinclude url="${URLUtils.url('SubPro-OrderSummary', 'pliUUID',
productLineItem.getUUID())}" />
   </div>
</isif>
```

Here is the expected result:

summary.isml

```
64                 </div>
65             </isif>
66         </td>
67
68         <td class="item-details">
69             <iscomment>Display product line and product using module</iscomment>
70             <isdisplayliproduct p_productli="${productLineItem}" p_editable="${false}"/>
71             <isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
72                 <div class="subscription">
73                     <isinclude url="${URLUtils.url('SubPro-OrderSummary', 'pliUUID', productLineItem.getUUID())}" />
74                 </div>
75             </isif>
76         </td>
77
78         <td class="item-quantity">
79             <isprint value="${productLineItem.quantity}" />
80         </td>
81
```

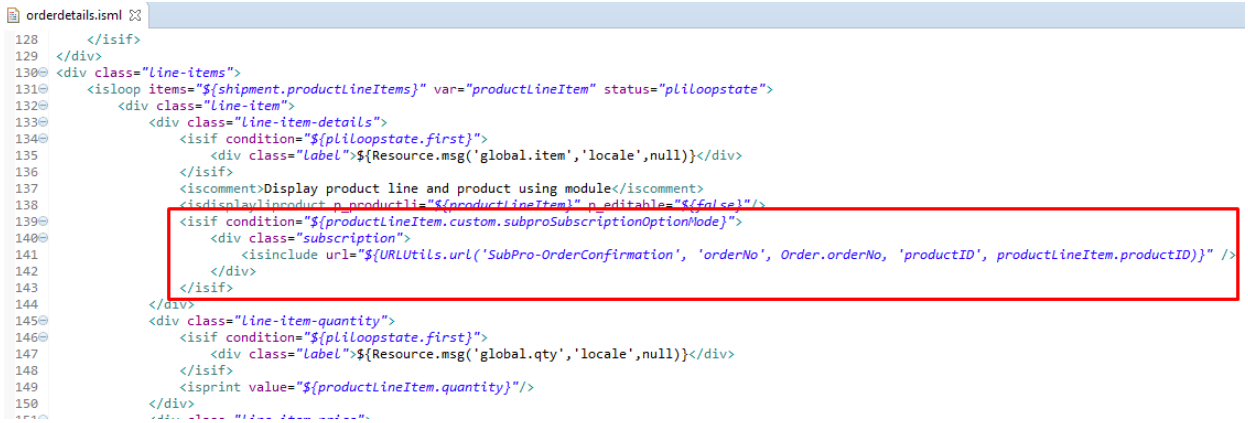
Modify orderdetails.isml

Locate template */app_storefront_core/cartridge/templates/default/components/order/orderdetails.isml*. Add code below after `<isdisplayliproduct />` tag to show elected subscription options on Order Confirmation page.

```
<isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
   <div class="subscription">
       <isinclude url="${URLUtils.url('SubPro-OrderConfirmation', 'orderNo', Order.orderNo,
'productID', productLineItem.productID)}" />
```

```
    </div>
</isif>
```

Here is the expected result:



Modify orderdetailsemail.isml

Locate template */app_storefront_core/cartridge/templates/default/components/order/orderdetailsemail.isml*.
Add code below after `<isdisplayliproduct />` tag to show selected subscription options in Order Confirmation Email.

```
<isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
   <table>
       <tr>
           <td colspan="2">${Resource.msg('order.subscription.info', 'order', null)}</td>
       </tr>
       <tr>
           <td>${Resource.msg('order.subscription.delivery.mode', 'order', null)}</td>
           <td>${productLineItem.custom.subproSubscriptionSelectedOptionMode}</td>
       </tr>
       <tr>
           <td>${Resource.msg('order.subscription.delivery.interval', 'order', null)}</td>
           <td>${productLineItem.custom.subproSubscriptionInterval}</td>
       </tr>
   </table>
</isif>
```

Here is the expected result:

orderdetailsemail.isml

```
90          </isif>
91      </tr>
92  </thead>
93  <isloop items="${shipment.productLineItems}" var="productLineItem" status="pliloopstate">
94      <tr>
95
96          <td style="font-size:12px;font-family:arial;padding:20px 10px;vertical-align:top;">
97              <iscomment>Display product line and product using module</iscomment>
98              <isdisplayliproduct p_productli="${productLineItem}" p_editable="${false}"/>
99              <isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
100                 <table>
101                     <tr>
102                         <td colspan="2">${Resource.msg('order.subscription.info', 'order', null)}</td>
103                     </tr>
104                     <tr>
105                         <td>${Resource.msg('order.subscription.delivery.mode', 'order', null)}</td>
106                         <td>${productLineItem.custom.subproSubscriptionSelectedOptionMode}</td>
107                     </tr>
108                     <tr>
109                         <td>${Resource.msg('order.subscription.delivery.interval', 'order', null)}</td>
110                         <td>${productLineItem.custom.subproSubscriptionInterval}</td>
111                     </tr>
112                 </table>
113             </isif>
114         </td>
115
116         <td style="font-size:12px;font-family:arial;padding:20px 10px;vertical-align:top;">
117             <isprint value="${productLineItem.quantity}"/>
118         </td>
119
```

Modify creditcardjson.isml

Locate template */app_storefront_core/cartridge/templates/default/checkout/billing/creditcardjson.isml*
Add a new attribute to the returned JSON object that contains the saved payment instrument UUID

```
var cc = {
        maskedNumber:pdict.SelectedCreditCard.maskedCreditCardNumber,
        holder:pdict.SelectedCreditCard.creditCardHolder,
        type:pdict.SelectedCreditCard.creditCardType,
        expirationMonth:pdict.SelectedCreditCard.creditCardExpirationMonth,
        expirationYear:pdict.SelectedCreditCard.creditCardExpirationYear,
        customerPaymentInstrumentID:pdict.SelectedCreditCard.UUID
}
```

Here is the expected result:

creditcardjson.isml

```
<iscontent type="application/json" charset="UTF-8" compact="true"/>
<isinclude template="util/jsonmodule"/>
<iscomment>
    This template renders the attributes of a customer credit card payment instrument as JSON response.
</iscomment>
<isscript>
    var cc = {
        maskedNumber:pdict.SelectedCreditCard.maskedCreditCardNumber,
        holder:pdict.SelectedCreditCard.creditCardHolder,
        type:pdict.SelectedCreditCard.creditCardType,
        expirationMonth:pdict.SelectedCreditCard.creditCardExpirationMonth,
        expirationYear:pdict.SelectedCreditCard.creditCardExpirationYear,
        customerPaymentInstrumentID:pdict.SelectedCreditCard.UUID
    }
    var json = JSON.stringify(cc);
</isscript>
<isprint value="${json}" encoding="off"/>
```

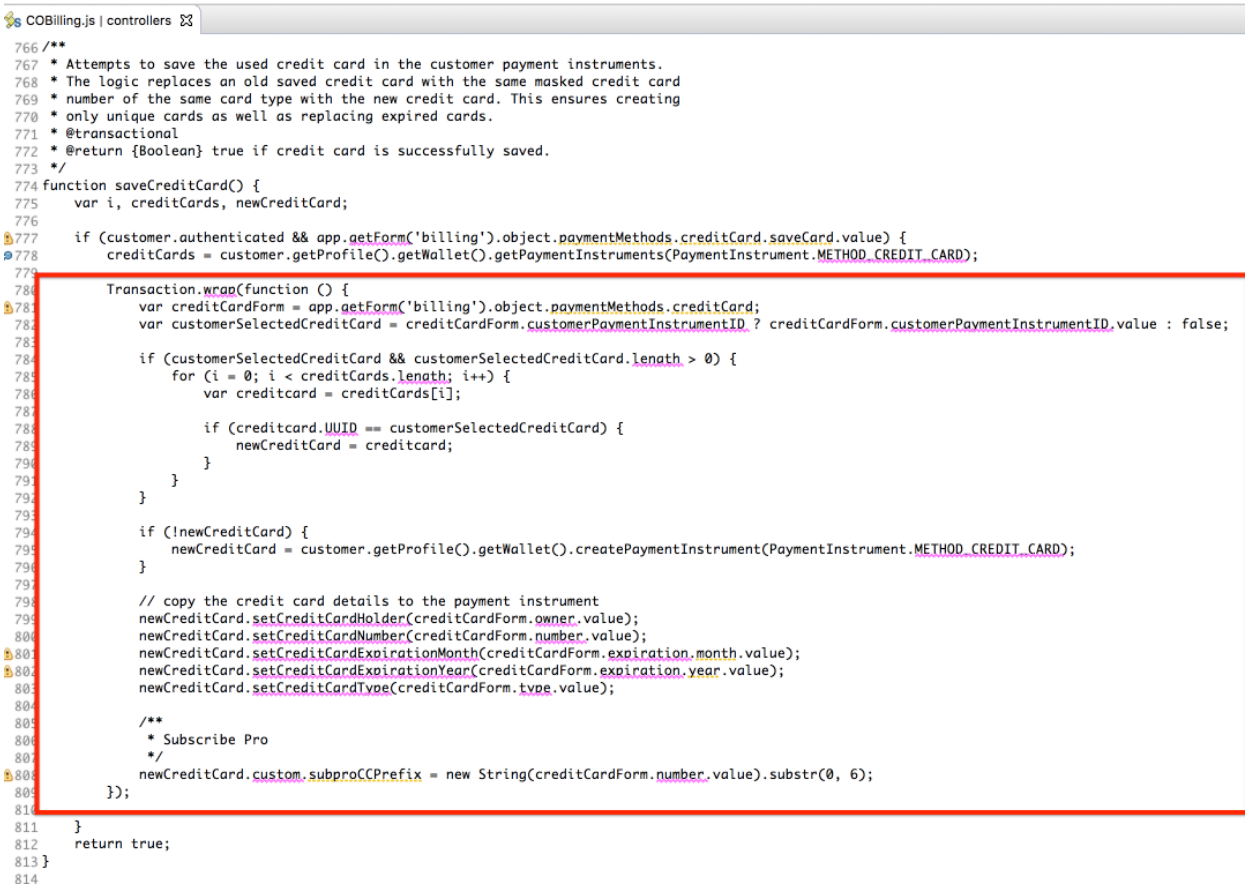
Modify COBilling.js

Locate */app_storefront_controllers/cartridge/controllers/COBilling.js* controller. Replace the code within the Transaction.wrap block to add save the credit cards first six digits and to update the saved customer payment instrument versus replacing it. This is important so that payment instruments UUID will persist for future orders placed via OCAPI.

```
/** function saveCreditCard() */
Transaction.wrap(function () {
    var creditCardForm = app.getForm('billing').object.paymentMethods.creditCard;
    var customerSelectedCreditCard = creditCardForm.customerPaymentInstrumentID ?
creditCardForm.customerPaymentInstrumentID.value : false;

    if (customerSelectedCreditCard && customerSelectedCreditCard.length > 0) {
        for (i = 0; i < creditCards.length; i++) {
            var creditcard = creditCards[i];

            if (creditcard.UUID == customerSelectedCreditCard) {
                newCreditCard = creditcard;
            }
        }
    }

    if (!newCreditCard) {
        newCreditCard =
customer.getProfile().getWallet().createPaymentInstrument(PaymentInstrument.METHOD_CREDIT_C
ARD);
    }

    // copy the credit card details to the payment instrument
    newCreditCard.setCreditCardHolder(creditCardForm.owner.value);
    newCreditCard.setCreditCardNumber(creditCardForm.number.value);
    newCreditCard.setCreditCardExpirationMonth(creditCardForm.expiration.month.value);
    newCreditCard.setCreditCardExpirationYear(creditCardForm.expiration.year.value);
    newCreditCard.setCreditCardType(creditCardForm.type.value);

    /**
     * Subscribe Pro
     */
    newCreditCard.custom.subproCCPrefix = new String(creditCardForm.number.value).substr(0,
6);
```

```
});
```

Here is the expected result:



Modify COCustomer.js

Locate */app_storefront_controllers/cartridge/controllers/COCustomer.js* controller. Add line below to send parameter `isSubpro`, which specify if cart has products with SubPro subscription, to `pdict`.

```
isSubpro: require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js').isSubPro()
```

Here is the expected result:

COCustomer.js

```
25   * may not contain the form clearing, in order to support navigating forth and back in the checkout steps without losing
26   * already entered form values.
27   */
28  function start() {
29      var oauthLoginForm = app.getForm('oauthlogin');
30      app.getForm('singleshipping').clear();
31      app.getForm('multishipping').clear();
32      app.getForm('billing').clear();
33
34      Transaction.wrap(function () {
35          Cart.goc().removeAllPaymentInstruments();
36      });
37
38      // Direct to first checkout step if already authenticated.
39      if (customer.authenticated) {
40          response.redirect(URLUtils.https('COShipping-Start'));
41          return;
42      } else {
43          var loginForm = app.getForm('login');
44          loginForm.clear();
45          oauthLoginForm.clear();
46
47          // Prepopulate login form field with customer's login name.
48          if (customer.registered) {
49              loginForm.setValue('username', customer.profile.credentials.login);
50          }
51
52          var loginAsset = Content.get('myaccount-login');
53
54          var pageMeta = require('~/cartridge/scripts/meta');
55          pageMeta.update(loginAsset);
56
57          app.getView({
58              ContinueURL: URLUtils.https('COCustomer-LoginForm').append('scope', 'checkout'),
59              isSubpro: require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js').isSubPro()
60          }).render('checkout/checkoutlogin');
61      }
62
63  }
```

Modify COSummary.js

Locate */app_storefront_controllers/cartridge/controllers/COSummary.js* controller. Add logic to check if cart has any credit card as a payment method (it is required for subscription). If it doesn't we pass isSubPro: true parameter to checkout/billing/billing template, forcing it to show form with credit card payment methods.
Add logic from code block below to start() method

```
const SubscribeProLib =
require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js');
let isSubpro = SubscribeProLib.isSubPro(),
    hasCreditCard = SubscribeProLib.hasCreditCard(cart);

if (isSubpro && !hasCreditCard) {
    app.getView({
        Basket: cart.object,
        ContinueURL: URLUtils.https('COBilling-Billing'),
        isSubPro: true
    }).render('checkout/billing/billing');

    return;
}
```

Here is the expected result:

COSummary.js

```
/**
 * Renders the summary page prior to order creation.
 * @param {Object} context context object used for the view
 */
function start(context) {
    var cart = Cart.get();

    const SubscribeProLib = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js');
    let isSubpro = SubscribeProLib.isSubPro(),
        hasCreditCard = SubscribeProLib.hasCreditCard(cart);

    // Checks whether all payment methods are still applicable. Recalculates all existing non-gift certificate payment
    // instrument totals according to redeemed gift certificates or additional discounts granted through coupon
    // redemptions on this page.
    var COBilling = app.getController('COBilling');

    if (isSubpro && !hasCreditCard) {
        app.getView({
            Basket: cart.object,
            ContinueURL: URLUtils.https('COBilling-Billing'),
            isSubPro: true
        }).render('checkout/billing/billing');

        return;
    }

    if (!COBilling.ValidatePayment(cart)) {
        COBilling.Start();
        return;
    } else {
        Transaction.wrap(function () {
```

Modify creditcard.xml

Locate */app_storefront_core/cartridge/forms/default/creditcard.xml* form definition. Add a new form field for the customer's saved payment instrument id.

Add the following form field:

```
<field formid="customerPaymentInstrumentID" type="string"
binding="customerPaymentInstrumentID" mandatory="false" />
```

Here is the expected result:

creditcard.xml

```
<?xml version="1.0"?>
<form xmlns="http://www.demandware.com/xml/form/2008-04-19">

    <!-- field for credit card type -->
    <field formid="type" label="creditcard.type" type="string" mandatory="true" binding="creditCardType"
        missing-error="creditcard.typemissing">
        <options optionid-binding="cardType" value-binding="cardType" label-binding="name"/>
    </field>

    <!-- field for credit card number -->
    <field formid="number" label="creditcard.number" type="string" mandatory="true" masked="4" max-length="16"
        description="creditcard.numberexample" binding="creditCardNumber"
        missing-error="creditcard.numbermissingerror" value-error="creditcard.numbervalueerror"/>

    <field formid="customerPaymentInstrumentID" type="string" binding="customerPaymentInstrumentID" mandatory="false" />

    <group formid="expiration">
        <!-- field for credit card expiration month -->
        <field formid="month" label="resource.month" type="integer" mandatory="true" binding="creditCardExpirationMonth"
            missing-error="creditcard.monthmissingerror" value-error="creditcard.yearvalueerror">
            <options>
                <option label="month.january"   value="01"/>
                <option label="month.february"  value="02"/>
                <option label="month.march"     value="03"/>
                <option label="month.april"     value="04"/>
                <option label="month.may"       value="05"/>
                <option label="month.june"      value="06"/>
```

Modify hooks.json

Locate */app_storefront_core/cartridge/scripts/hooks.json* hook and remove Apple Pay hook. This hook will be set within the Subscribe Pro cartridge.

```
{
    "name": "dw.extensions.applepay.paymentAuthorized.authorizeOrderPayment",
    "script": "./checkout/applepay.js"
}
```

Changes need to be done to My Account section for displaying customer Subscribe Pro subscriptions. To display such information Subscribe Pro Hosted Widgets are used. Changes need to be done to checkout process with subscription products.

Modify controller Address.js

Locate /app_storefront_controllers/cartridge/controllers/Address.js.
Replace the list() method with the following:

```
function list() {
    var pageMeta = require('~/cartridge/scripts/meta');

    var content = app.getModel('Content').get('myaccount-addresses');
    if (content) {
        pageMeta.update(content.object);
    }

    var viewParams = {};
    if (session.custom.newAddress) {
        viewParams.newAddress = {"address":session.custom.newAddress.sp};
        viewParams.newAddressSfccId = session.custom.newAddress.sfcc.getID();
        session.custom.newAddress = null;
    }
    if (session.custom.updatedOldAddress && session.custom.updatedNewAddress) {
        viewParams.updatedAddress = {"prev_address": session.custom.updatedOldAddress.sp,
"address": session.custom.updatedNewAddress.sp};
        session.custom.updatedNewAddress = null;
        session.custom.updatedOldAddress = null;
    }
    if (session.custom.deletedAddress) {
        viewParams.deletedAddress = {"address": session.custom.deletedAddress.sp};
        session.custom.deletedAddress = null;
    }

    app.getView(viewParams).render('account/addressbook/addresslist');
}
```

In the handleForm() method make the following changes.
Inside the addressForm.handleAction() call, replace the create() method with the following:

```
create: function () {
            var newAddress;
            if (!session.forms.profile.address.valid || !(newAddress =
Address.create(session.forms.profile.address))) {
                response.redirect(URLUtils.https('Address-Add'));
                success = false;
            }
            session.custom.newAddress = {
                "sfcc": newAddress,
                "sp": addressHelper.getSubproAddress(newAddress, session.customer.profile,
false, true)
            };
            success = true;
        },
```

Replace the edit() method with the following:

```
edit: function () {
            if (!session.forms.profile.address.valid) {
```

```
                success = false;
                message = 'Form is invalid';
            }
            try {
                // We can't use Address.get() because it doesn't return a CustomerAddress
object, and we need to be able to access
                // the 'custom' attributes on the address. Instead, we use the address book
                let addressBook = customer.profile.addressBook;
                var prevAddress =
addressBook.getAddress(request.httpParameterMap.addressid.value);
                session.custom.updatedOldAddress = {
                    "sfcc": prevAddress,
                    "sp": addressHelper.getSubproAddress(prevAddress,
session.customer.profile, true, true)
                };
                var updatedAddress = Address.update(request.httpParameterMap.addressid.value,
session.forms.profile.address);
                session.custom.updatedNewAddress = {
                    "sfcc": updatedAddress,
                    "sp": addressHelper.getSubproAddress(updatedAddress,
session.customer.profile, true, true)
                };
                success = true;
            } catch (e) {
                success = false;
                message = e.message;
            }
        },
```

And replace the remove() method with the following:

```
remove: function () {
            // We can't use Address.get() because it doesn't return a CustomerAddress object,
and we need to be able to access
            // the 'custom' attributes on the address. Instead, we use the address book
            let addressBook = customer.profile.addressBook;
            var deletedAddress =
addressBook.getAddress(session.forms.profile.address.addressid.value);
            if (Address.remove(session.forms.profile.address.addressid.value)) {
                deletedAddress = null;
                success = false;
            }
            else {
                session.custom.deletedAddress = {
                    "sfcc": deletedAddress,
                    "sp": addressHelper.getSubproAddress(savedDeletedAddress,
session.customer.profile, true, true)
                };
            }
        }
```

In the Delete function, add the following code between the CustomerStatusCodes and deleteAddressResult varilable declarations:

```
var addressHelper =
require('int_subscribe_pro/cartridge/scripts/subpro/helpers/AddressHelper');

    // We can't use Address.get() because it doesn't return a CustomerAddress object, and we
need to be able to access
    // the 'custom' attributes on the address. Instead, we use the address book
    let addressBook = customer.profile.addressBook;
    var deletedAddress = addressBook.getAddress(request.httpParameterMap.AddressID.value);
    session.custom.deletedAddress = {
```

```
        "sfcc": deletedAddress,
        "sp": addressHelper.getSubproAddress(deletedAddress, session.customer.profile, true,
true)
    };
```

Lastly, add the follow new route:

```
function SetSPAddressID() {
    var addressBook = customer.getProfile().getAddressBook();
    var address = addressBook.getAddress(request.httpParameterMap.addressId.value);
    var addressHelper =
require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/AddressHelper');
    addressHelper.setSubproAddressID(address, request.httpParameterMap.spAddressId.value);

    let r = require('~/cartridge/scripts/util/Response');
    r.renderJSON({success: true});
}
/** Sets Subscribe Pro Address ID on SFCC Address */
exports.SetSPAddressID = guard.ensure(['get', 'https', 'loggedIn'], SetSPAddressID);
```

Modify controller PaymentInstruments.js

Locate controller /app_storefront_controllers/cartridge/controllers/PaymentInstruments.js

Replace the list() method with the following:

```
function list() {
    var wallet = customer.getProfile().getWallet();
    var paymentInstruments =
wallet.getPaymentInstruments(dw.order.PaymentInstrument.METHOD_CREDIT_CARD);
    var pageMeta = require('~/cartridge/scripts/meta');
    var paymentForm = app.getForm('paymentinstruments');

    paymentForm.clear();
    paymentForm.get('creditcards.storedcards').copyFrom(paymentInstruments);

    pageMeta.update(dw.content.ContentMgr.getContent('myaccount-paymentsettings'));

    var viewParams = {
              PaymentInstruments: paymentInstruments
    };

    if (session.custom.newCard) {
       viewParams.newCard = {"payment_profile": session.custom.newCard.sp};
        viewParams.newCardSfccId = session.custom.newCard.sfcc.getUUID();
       session.custom.newCard = null;
    }
    if (session.custom.updatedCard) {
       viewParams.updatedCard = {"payment_profile": session.custom.updatedCard.sp};
       session.custom.updatedCard = null;
    }
    if (session.custom.deletedCard) {
       viewParams.deletedCard = {"payment_profile": session.custom.deletedCard.sp};
       session.custom.deletedCard = null;
    }

    app.getView(viewParams).render('account/payment/paymentinstrumentlist');
}
```

Find the create() method. Inside the if(isDuplicateCard) condition, add the following before the wallet.removePaymentInstrument() call:

```
    if (oldCard.custom.subproPaymentProfileID) {
            subproPaymentProfileID = oldCard.custom.subproPaymentProfileID;
        }
```

Directly between the Transaction.commit() and paymentForm.clear() calls, add the following code:

```
// Save data to session for hosted wallet widget integration
    var paymentInstruments =
wallet.getPaymentInstruments(dw.order.PaymentInstrument.METHOD_CREDIT_CARD);
    var saveCard;
    for (var i = 0; i < paymentInstruments.length; i++) {
        var card = paymentInstruments[i];
        if (card.creditCardNumber === ccNumber) {
            saveCard = card;
            break;
        }
    }
    var paymentsHelper =
require('int_subscribe_pro/cartridge/scripts/subpro/helpers/PaymentsHelper');
    if (!isDuplicateCard) {
        session.custom.newCard = {
            "sp": paymentsHelper.getSubscriptionPaymentProfile(session.customer.profile,
saveCard, {}, false),
            "sfcc": saveCard
        };

        if (null === session.custom.newCard) {
            Logger.info('New card could not be mapped to a payment profile.');
        }
    }
    else {
        Transaction.begin();
        try {
            saveCard.custom.subproPaymentProfileID = subproPaymentProfileID;
        }
        catch (err) {
            Transaction.rollback();
            return false;
        }
        Transaction.commit();

        session.custom.updatedCard = {
            "sp": paymentsHelper.getSubscriptionPaymentProfile(session.customer.profile,
saveCard, {}, true),
            "sfcc": saveCard
        };
        if (null === session.custom.updatedCard) {
            Logger.info('New card could not be mapped to a payment profile.');
        }
    }
```

In the Delete() method, right inside the remove() function, add the following:

```
            var paymentsHelper =
require('int_subscribe_pro/cartridge/scripts/subpro/helpers/PaymentsHelper');
            session.custom.deletedCard = {
                "sp": paymentsHelper.getSubscriptionPaymentProfile(session.customer.profile,
action.object, {}, true),
                "sfcc": action.object
            };
```

Add the following route:

```
function SetSPPaymentProfileID() {
    var wallet = customer.getProfile().getWallet();
    var paymentInstruments = wallet.getPaymentInstruments('CREDIT_CARD');
    let paymentInstrumentId = request.httpParameterMap.paymentInstrumentId.value;
    var paymentsHelper =
require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/PaymentsHelper');
    let paymentInstrument = null;
    for (let i in paymentInstruments) {
        if (paymentInstrumentId == paymentInstruments[i].getUUID()) {
            paymentInstrument = paymentInstruments[i];
        }
    }

    let success = paymentInstrument != null;

    if (success) {
        paymentsHelper.setSubproPaymentProfileID(paymentInstrument,
request.httpParameterMap.spPaymentProfileId.value);
    }

    let r = require('~/cartridge/scripts/util/Response');
    r.renderJSON({success: true});
}

/** Sets the Subscribe Pro Payment Profile ID on a SFCC Payment Instrument */
/* @see module:controllers/PaymentInstruments~SetSPPaymentProfileID */
exports.SetSPPaymentProfileID = guard.ensure(['https', 'get', 'loggedIn'],
SetSPPaymentProfileID);
```

Modify addressinclude.isml

Locate template */app_storefront_core/cartridge/templates/default/account/addressbook/addressinclude.isml*.
Insert code below at the end of the file to facilitate configuring and loading the address book widget, "AddressBookAssist".

```
<isset name="hasNewAddress" value="${ pdict.newAddress != null }" scope="page" />
<isset name="hasUpdatedAddress" value="${ pdict.updatedAddress != null }" scope="page" />
<isset name="hasDeletedAddress" value="${ pdict.deletedAddress != null }" scope="page" />
<isset name="loadWidget" value="${ hasNewAddress || hasUpdatedAddress || hasDeletedAddress
}" scope="page" />
<isif condition="${customer.profile.custom.subproCustomerID && loadWidget}">
       <!-- Subscribe Pro Address Book Assist Widget -->
       <div id="sp-address-book-widget"></div>

       <iscomment>
              Configure the Subscribe Pro Address Book Assist Widget
       </iscomment>

       <!-- Load the Subscribe Pro widget script -->
       <script
src="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproAddressWidgetS
criptUrl')}"></script>

       <isset name="widgetConfig" scope="page"

       value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelper')
```

```
.getWidgetConfig(customer.profile.custom.subproCustomerID, 'client_credentials', 'widget',
'sp-address-book-widget')}"/>

       <!-- Pass configuration and init the Subscribe Pro widget -->
       <script>
              // Setup config for Subscribe Pro
              var widgetConfig = <isprint value="${JSON.stringify(widgetConfig)}"
encoding="off" />;
              AddressBookAssist.init(widgetConfig);
              <isif condition="${ hasNewAddress }">
                     var newAddress = <isprint value="${JSON.stringify(pdict.newAddress)}"
encoding="off" />;
                     var newAddressSfccId = '<isprint value="${pdict.newAddressSfccId}"
encoding="off" />';
                     AddressBookAssist.onAddressCreated(newAddress).then(function (result)
{
                            $.get("${URLUtils.url('Address-SetSPAddressID')}",
{"addressId": newAddressSfccId, "spAddressId": result.id});
                     });
              </isif>
              <isif condition="${ hasUpdatedAddress }">
                     var updatedAddress = <isprint
value="${JSON.stringify(pdict.updatedAddress)}" encoding="off" />;
                     AddressBookAssist.onAddressUpdated(updatedAddress);
              </isif>
              <isif condition="${ hasDeletedAddress }">
                     var deletedAddress = <isprint
value="${JSON.stringify(pdict.deletedAddress)}" encoding="off" />;
                     AddressBookAssist.onAddressDeleted(deletedAddress);
              </isif>
       </script>
</isif>
```

Modify paymentinstrumentlist.isml

Locate template */app_storefront_core/cartridge/templates/default/account/payment/paymentinstrumentlist.isml*.

1) Inside the isdecorate tag, set the variable to define if customer is Subscribe Pro customer

```
<isset name="isSubproCustomer" value="${customer.profile.custom.subproCustomerID}"
scope="page" />
```

2) Insert code below just before the closing div tag for the block to add Subscribe Pro “Address Wallet Assist” widget div.

```
  <isif condition="${isSubproCustomer}">
      <!-- Subscribe Pro Wallet Assist Widget -->
      <div id="sp-wallet-assist-widget"></div>
  </isif>
```

3) Insert code below to load, configure and init the Subscribe Pro “Address Wallet Assist” widget

```
	<isif condition="${isSubproCustomer && loadWidget}">
		<iscomment>
			Configure the Subscribe Pro Wallet Assist Widget
		</iscomment>

		<!-- Load the Subscribe Pro widget script -->
		<script
src="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproWalletWidg
etScriptUrl')}"></script>

		<isset name="widgetConfig" scope="page"

	value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelp
er').getWidgetConfig(customer.profile.custom.subproCustomerID, 'client_credentials',
'widget', 'sp-wallet-assist-widget')}"/>

		<!-- Pass configuration and init the Subscribe Pro widget -->
		<script>
			// Setup config for Subscribe Pro
			var widgetConfig = <isprint
value="${JSON.stringify(widgetConfig)}" encoding="off" />;
			WalletAssist.init(widgetConfig);
			<isif condition="${ hasNewCard }">
				var newCard = <isprint
value="${JSON.stringify(pdict.newCard)}" encoding="off" />;
				WalletAssist.onPaymentProfileCreated(newCard, function
(result) {
					var newCardSfccId = '<isprint
value="${pdict.newCardSfccId}" encoding="off" />';
					$.get("${URLUtils.url('PaymentInstruments-
SetSPPaymentProfileID')}", {"paymentInstrumentId": newCardSfccId, "spPaymentProfileId":
result.id});
				});
			</isif>
			<isif condition="${ hasUpdatedCard }">
				var updatedCard = <isprint
value="${JSON.stringify(pdict.updatedCard)}" encoding="off" />;
				WalletAssist.onPaymentProfileUpdated(updatedCard);
			</isif>
			<isif condition="${ hasDeletedCard }">
				var deletedCard = <isprint
value="${JSON.stringify(pdict.deletedCard)}" encoding="off" />;
				WalletAssist.onPaymentProfileDeleted(deletedCard);
			</isif>
		</script>
	</isif>
```

My Account side navigation

To display My subscriptions in the My Account side navigation edit asset account-nav-registered (*Merchant Tools > Content > Content Assets > account-nav-registered*).
Add the following:

```
<li><a title="Manage subscriptions" href="$httpsUrl(Subscriptions-List)$">My Subscriptions</a></li>
```

Modify controller Account.js

Locate */app_storefront_controllers/cartridge/controllers/Account.js* controller. Add the following includes to the top of the controller to be used later on in the controller:

```
/* Subscribe Pro Module */
var SubscribeProLib = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib');
var CustomerHelper = require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/CustomerHelper');
var Logger = require('dw/system/Logger');
```

Modify the *hasEditSucceeded* conditional in the *editForm* method to have some logic in the case of the conditional returning true, to update the customer profile at Subscribe Pro:

```
if (hasEditSucceeded) {
    let customer = Customer.get();

    if (customer && customer.object && customer.object.profile &&
customer.object.profile.custom.subproCustomerID) {
      let customerToPost = CustomerHelper.getSubproCustomer(customer);
      let updateResponse =
SubscribeProLib.updateCustomer(customer.object.profile.custom.subproCustomerID, customerToPost);

      if (updateResponse.error) {
          Logger.error('There was an issue updating the customer at subscribe pro: ' +
JSON.stringify(updateResponse));
      }
    }
} else {

/* Existing false logic for hasEditSucceeded */
```

Here is the expected result:

Account.js

```
'use strict';
/**
 * Controller that renders the account overview, manages customer registration and password reset,
 * and edits customer profile information.
 *
 * @module controllers/Account
 */
/* API includes */
var Resource = require('dw/web/Resource');
var URLUtils = require('dw/web/URLUtils');
var Form = require('~/cartridge/scripts/models/FormModel');
var OrderMgr = require('dw/order/OrderMgr');

/* Script Modules */
var app = require('~/cartridge/scripts/app');
var guard = require('~/cartridge/scripts/guard');
var Transaction = require('dw/system/Transaction');

/* Subscribe Pro Module */
var SubscribeProLib = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib');
var CustomerHelper = require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/CustomerHelper');
var Logger = require('dw/system/Logger');

/**
 * Gets a ContentModel object that wraps the myaccount-home content asset,
 * updates the page metadata, and renders the account/accountoverview template.
 */
```

Account.js

```
 * Handles the form submission on profile update of edit profile. Handles cancel and confirm actions.
 *
 * cancel - clears the profile form and redirects to the Account-Show controller function.
 *
 * confirm - gets a CustomerModel object that wraps the current customer. Validates several form fields.
 * If any of the profile validation conditions fail, the user is redirected to the Account-EditProfile controller func
 */
function editForm() {
    app.getForm('profile').handleAction({
        cancel: function () {
            app.getForm('profile').clear();
            response.redirect(URLUtils.https('Account-Show'));
        },
        confirm: function () {
            var isProfileUpdateValid = true;
            var hasEditSucceeded = false;
            var Customer = app.getModel('Customer');

            if (!Customer.checkUserName()) {
                app.getForm('profile.customer.email').invalidate();
                isProfileUpdateValid = false;
            }

            if (app.getForm('profile.customer.email').value() !== app.getForm('profile.customer.emailconfirm').value()
                app.getForm('profile.customer.emailconfirm').invalidate();
                isProfileUpdateValid = false;
            }

            if (!app.getForm('profile.login.password').value()) {
                app.getForm('profile.login.password').invalidate();
                isProfileUpdateValid = false;
            }

            if (isProfileUpdateValid) {
                hasEditSucceeded = Customer.editAccount(app.getForm('profile.customer.email').value(), app.getForm('pr

                if (hasEditSucceeded) {
                    let customer = Customer.get();

                    if (customer && customer.object && customer.object.profile && customer.object.profile.custom.subpr
                        let customerToPost = CustomerHelper.getSubproCustomer(customer);
                        let updateResponse = SubscribeProLib.updateCustomer(customer.object.profile.custom.subproCusto

                        if (updateResponse.error) {
                            Logger.error('There was an issue updating the customer at subscribe pro: ' + JSON.stringif
                        }
                    }
                } else {
                    app.getForm('profile.login.password').invalidate();
                    isProfileUpdateValid = false;
                }
            }

            if (isProfileUpdateValid && hasEditSucceeded) {
```

3.4 External Interfaces

Web service calls made to the Subscribe Pro RESTful API will make use of Sales Force Commerce Cloud Services:
https://documentation.demandware.com/DOC1/topic/com.demandware.dochelp/WebServices/Webservices.html

Application code should not call the web services directly but should instead call methods within the Subscribe Pro Javascript module:
LINK-subscribe-pro/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js

Service Profile

There are separate profiles for GET vs POST request to enable / disable the circuit breaker.

Name	subpro.http.prof.get	subpro.http.prof.post
Description	Profile for GET requests	Profile for POST requests
Connection Timeout (ms)	5000	5000
Enable Circuit Breaker	yes	no
Max Circuit Breaker Calls	3	0
Enable Rate Limit	1000	1000
Max Rate Limit Calls		
Rate Limit Interval (ms)		

Service Credentials

The *"siteName"* portion of the Service Credential comes from the Site Preference: *subproAPICredSuffix*. This allows merchants to have different credentials for each site.
The default value of the Site Preference is siteName, so that it will automatically match the default credentials.
Please note that the user password will need to be updated after import.

Name	subpro.http.cred.siteName
URL	https://api.subscribepro.com/services/v2/{ENDPOINT}?{PARAMS}
User	Subscribe Pro Client ID
Password	Subscribe Pro Client Secret

Name	subpro.http.cred.oauth.siteName

URL	https://api.subscribepro.com/oauth/v2/{ENDPOINT}?{PARAMS}
User	Subscribe Pro Client ID
Password	Subscribe Pro Client Secret

Service Endpoints

ID	API endpoint	Description
subpro.http.get.config	GET /services/v2/config	Retrieve configuration for the authenticated account
subpro.http.get.subscriptions	GET /services/v2/subscriptions	Retrieve a collection of subscriptions.
subpro.http.post.subscription	POST /services/v2/subscription	Create a new subscription
subpro.http.post.addresses	POST /services/v2/address	Create / Update a Subscribe Pro addresses
subpro.http.post.addressfindcreate	POST /services/v2/address/find-or-create	Find a matching address or create a new one
subpro.http.get.addresses	GET /services/v2/addresses	Retrieve a collection of addresses
subpro.http.get.products	GET /services/v2/products/{id}	Retrieve a single product by id
subpro.http.get.customers	GET /services/v2/customers/{id}	Retrieve a single customer by id
subpro.http.post.customer	POST /services/v2/customer	Create a new customer
subpro.http.post.customers	POST /services/v2/customers/{id}	Update a single customer, identified by customer id
subpro.http.get.token	GET /oauth/v2/token	Get an OAuth2 access token
subpro.http.get.paymentprofile	GET /services/v2/vault/paymentprofiles/{id}	Retrieve a single payment profile by id
subpro.http.post.paymentprofile.vault	POST /services/v2/vault/paymentprofile/external-vault	Create a new payment profile for an external vault

For more details visit Subscribe Pro REST API Documentation:
https://feat-sfcc-cd75l4i-cdbrvib5kpzoa.us.platform.sh/docs/rest

3.5 Testing

Sandbox(es)

In order to test the application in a non-production environment, you will need to have a Subscribe Pro Sandbox.

Subscribe Pro provides "sandbox" accounts to all merchants.

- One Sandbox account is included with standard plans
- Additional sandbox accounts (or those which aren't associated with a paid plan) can be added but will incur a fee.

Integration Testing

Subscription Products

The following are some test cases that can be completed to ensure subscription products are configured correctly.

1. User's should see subscription options for products, on the product detail page, that have subscription's enabled and a corresponding product has been configured on the Subscribe Pro Platform.
2. User's should see an option for a one time purchase, if this option has been configured on Subscribe Pro.
3. User's should see an option to purchase a product on a recurring basis, if this option has been configured on Subscribe Pro.
4. User's should see the configured repeat Order options and be able to select the desired frequency of recurring orders.
5. User's should be able to add a product, with subscription options, to the Basket and see the selected options present in the: Mini-Cart, Basket, Order Details (in the right rail of Checkout), the Order Confirmation Screen and in the Order Confirmation Email.
6. User's should be able to change their subscription options while viewing the product in the Basket.
7. Subscription details should be transmitted to Subscribe Pro through a configured Job / Job Schedule.
8. Failed requests to create a subscription should be emailed to the configured user for further investigation.

My Account

The following are some test cases that can be completed to ensure that the My Account has been configured correctly.

1. User's should be able to see a list of their Subscription orders in the "My Subscriptions" section of "My Account".
2. User's should see an option to update their Subscription Payment option upon changing their saved payment instrument in "My Account".
3. User's should see an option to update their Subscription Address option upon changing their saved address in "My Account".
4. User's should be able to update their profile information in "My Account" and those details are automatically transmitted to Subscribe Pro.

Pixel / Widget Tracking

The following are some test cases that can be completed to ensure that the Subscribe Pro Widget is included in all of the necessary locations.

1. The Javascript Widget should be executed and transmitting details to Subscribe Pro via Ajax on the following pages:
    a. My Account - Addresses
    b. My Account - Payment Instruments
    c. My Account - My Subscriptions
    d. Product Detail Page
    e. Product Search Results

4. Operations, Maintenance

4.1 Data Storage

Subscription selections and Subscribe Pro identifiers (customer, address, subscription) will be stored to the custom attributes of the Sales Force Commerce Cloud System Objects (Product, Product Line item, Order, Basket).

Customer information such as name, email, address and some payment information will be stored at Subscribe Pro for any customers that have purchased subscription products. This information will be used to process future recurring orders for the customer.

4.2 Availability

Subscribe Pro hosted services and API's perform with an uptime of 99.9% reliability.

If external services are not available for products, subscription options will not be available for subscription products. The end user will still be able to purchase products as normal on the platform but subscription options will not be available.

If external services are not available for My Account, the end user will see a My Subscription page without any content.

If external services are not available for transmitting subscription order details, via a scheduled job, an email should be sent to the configured contact and they will need to manually process the subscription.

4.3 Support

Support will be provided through the Subscribe Pro support system.

All requests should include: details of issue, email, phone, and URL.

Requests can be made at the following location:
https://www.subscribepro.com/support/

Technical Support Contact:
John Sparwasser
john.sparwasser@subscribepro.com

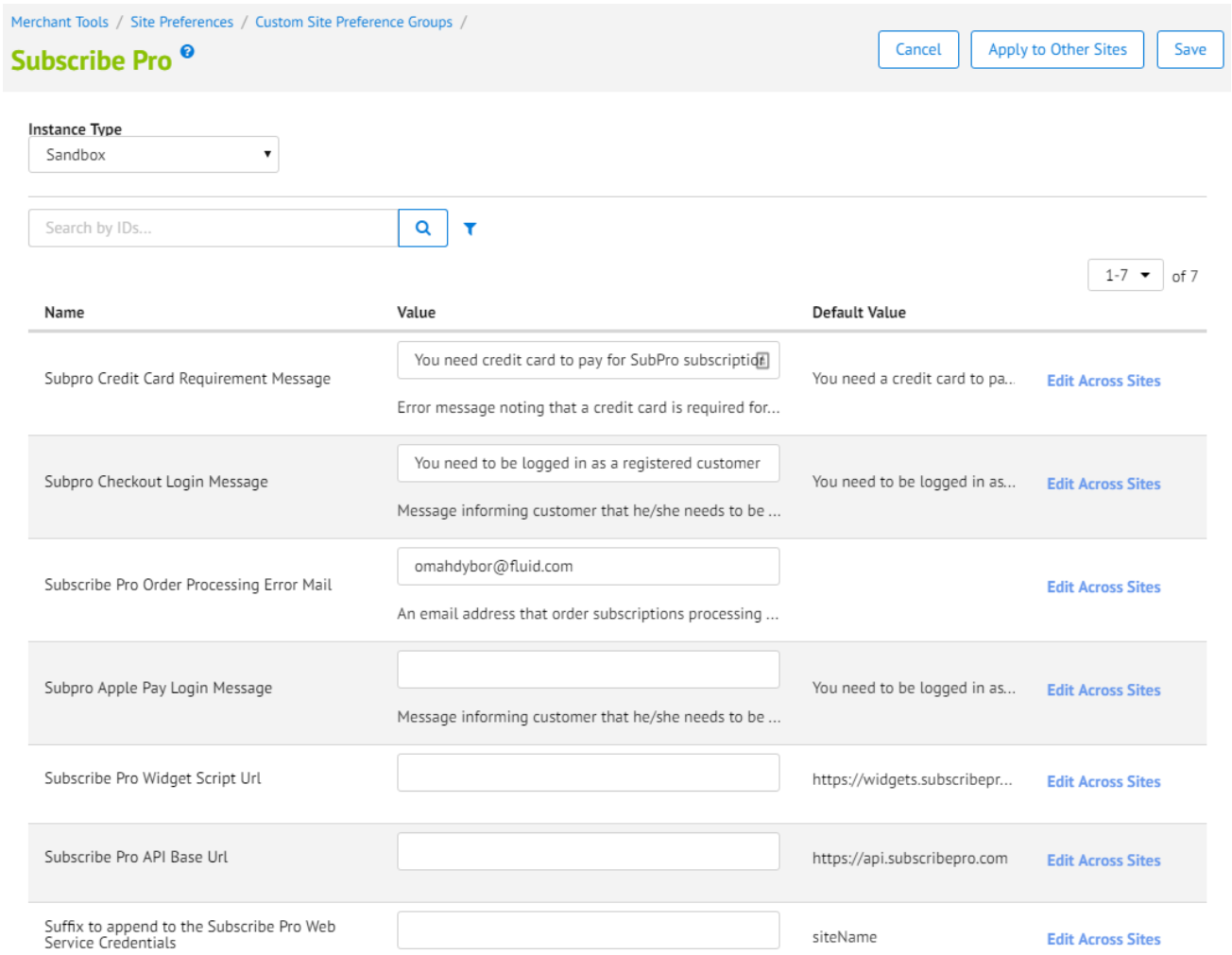
5. User Guide

5.1 Roles, Responsibilities

<LIST RECURRING TASKS THAT NEED TO BE FULFILLED BY CUSTOMER, MERCHANT TO RUN THE INTEGRATION, E.G. MANUAL FEED OF CATALOG DATA INTO 3RD PARTY SERVICE, IF APPLICABLE>

5.2 Business Manager

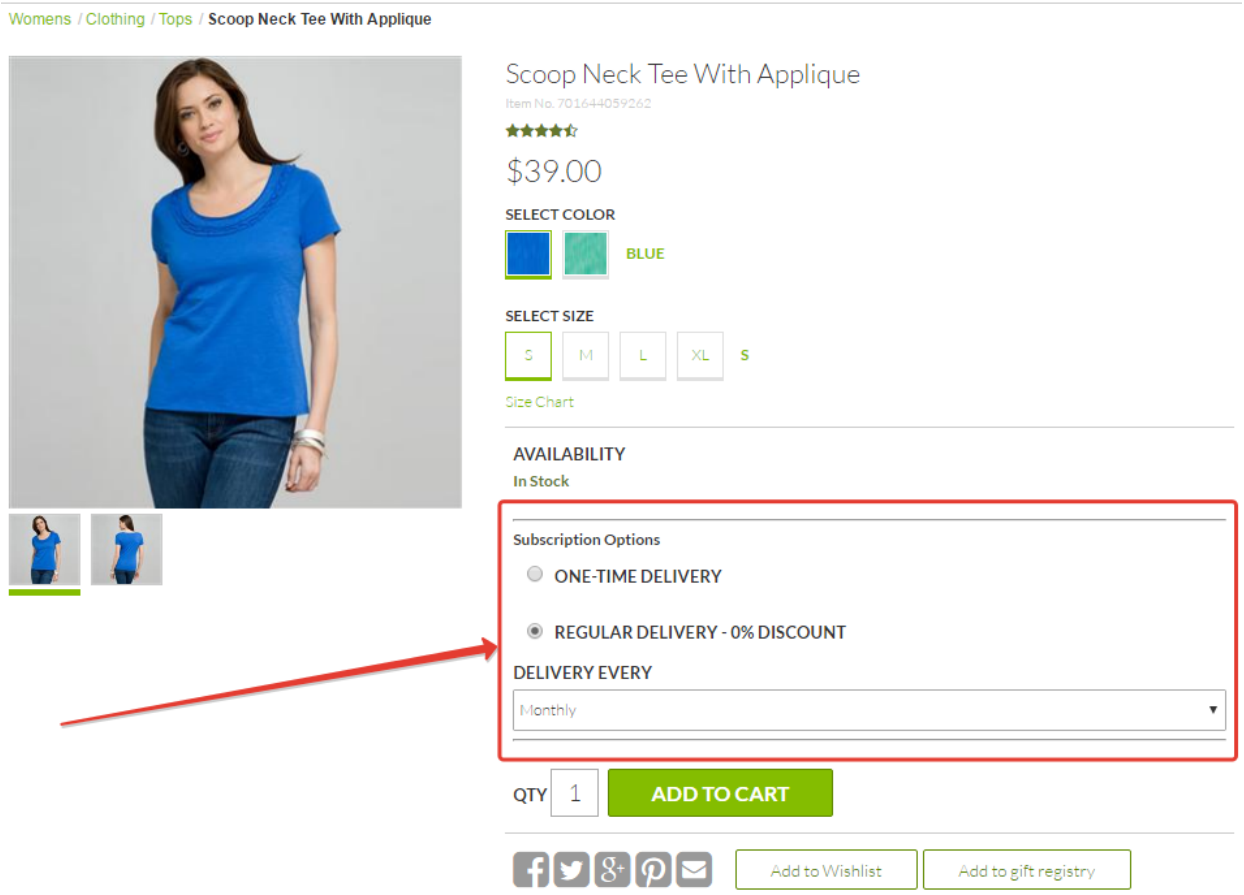
Subscribe Pro group is added to Custom Site Preference Groups (*Site > Site Preferences > Custom Preferences*). It contains following attributes:



5.3 Storefront Functionality

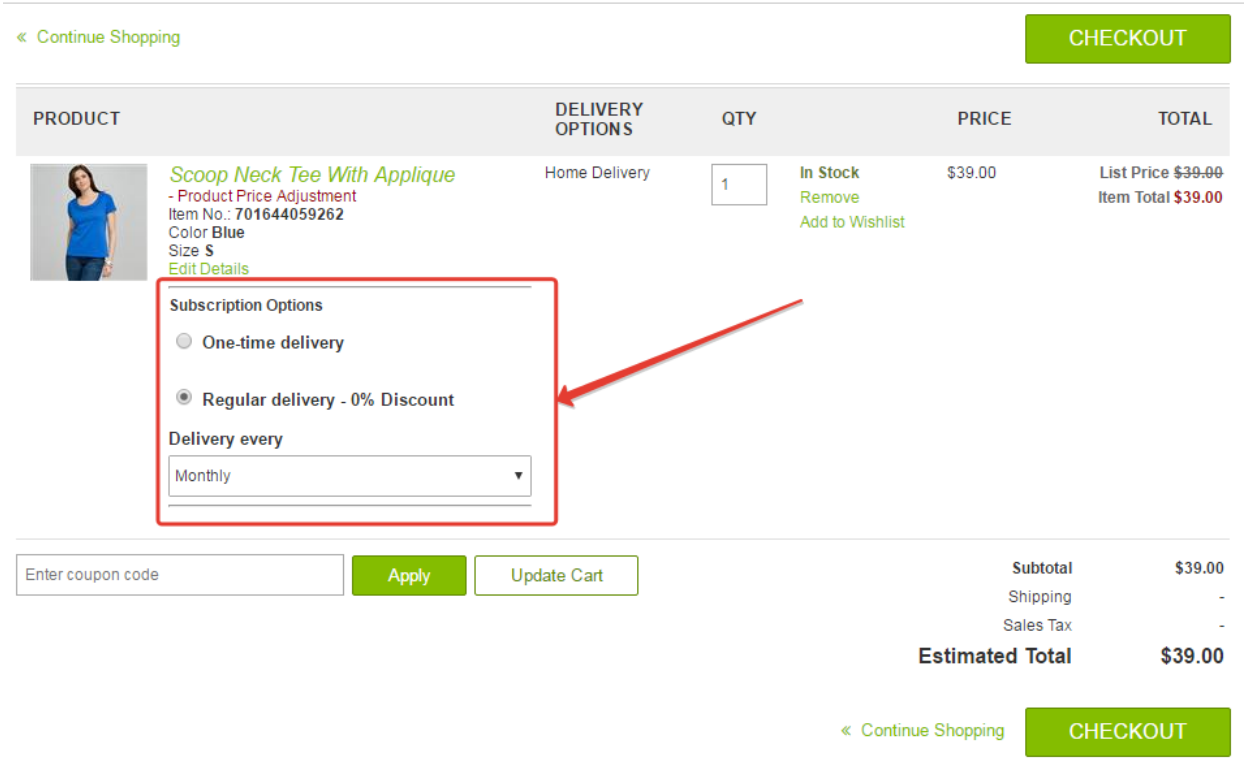
Product Detail Page

When the product page template has been updated, you should be able to see subscription options for product: one time delivery or regular delivery and drop down with delivery intervals if regular delivery is available. This information will be shown only for products for which subscription is configured in SFCC Business Manager and in Subscribe Pro Business Manager.



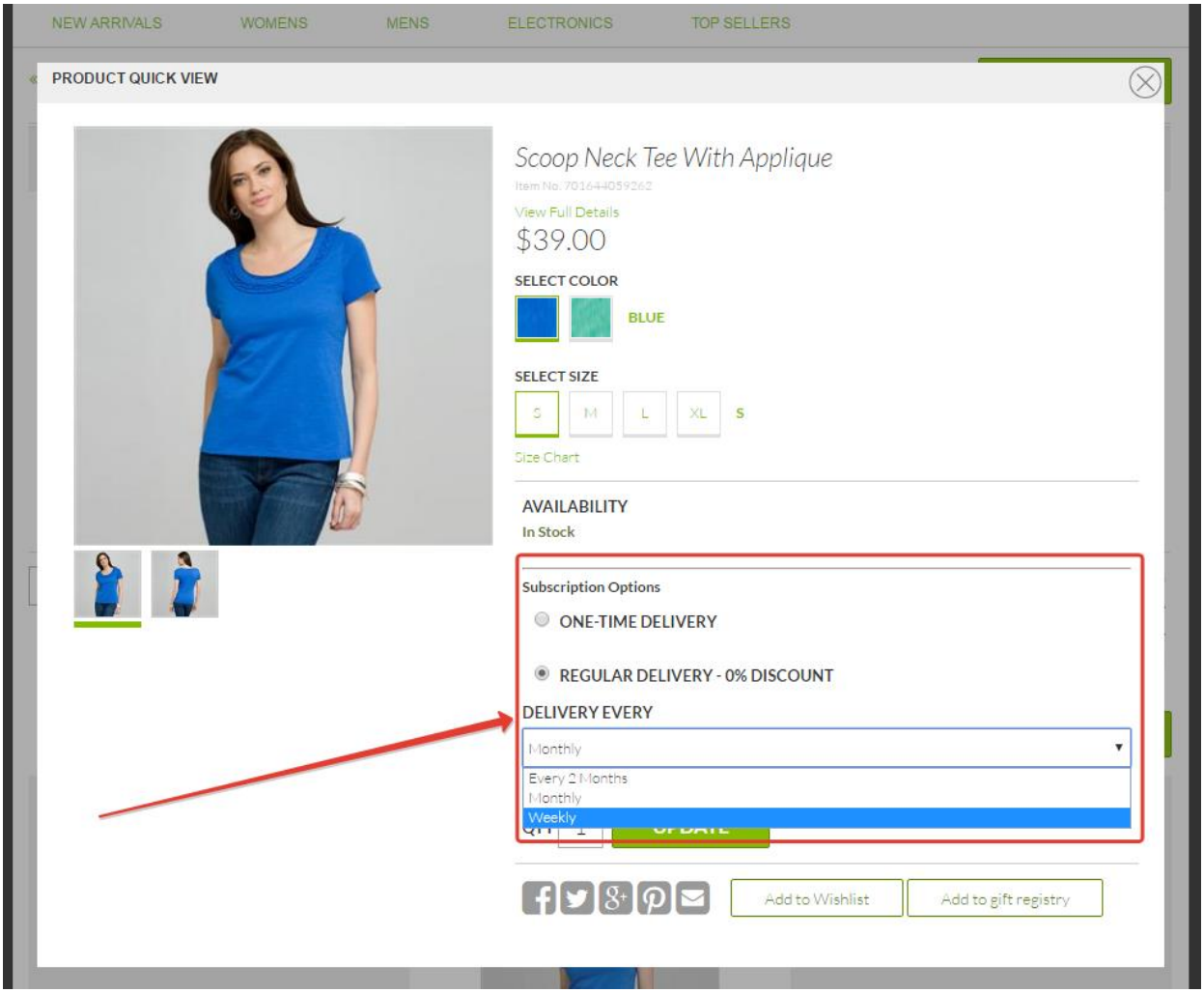
Cart Page

If any product with subscription was added to basket, on cart page you will see the same subscription options as on PDP for such product line item. At this step subscription options can be changed. To apply changes you'll need to click on 'Update Cart' button.



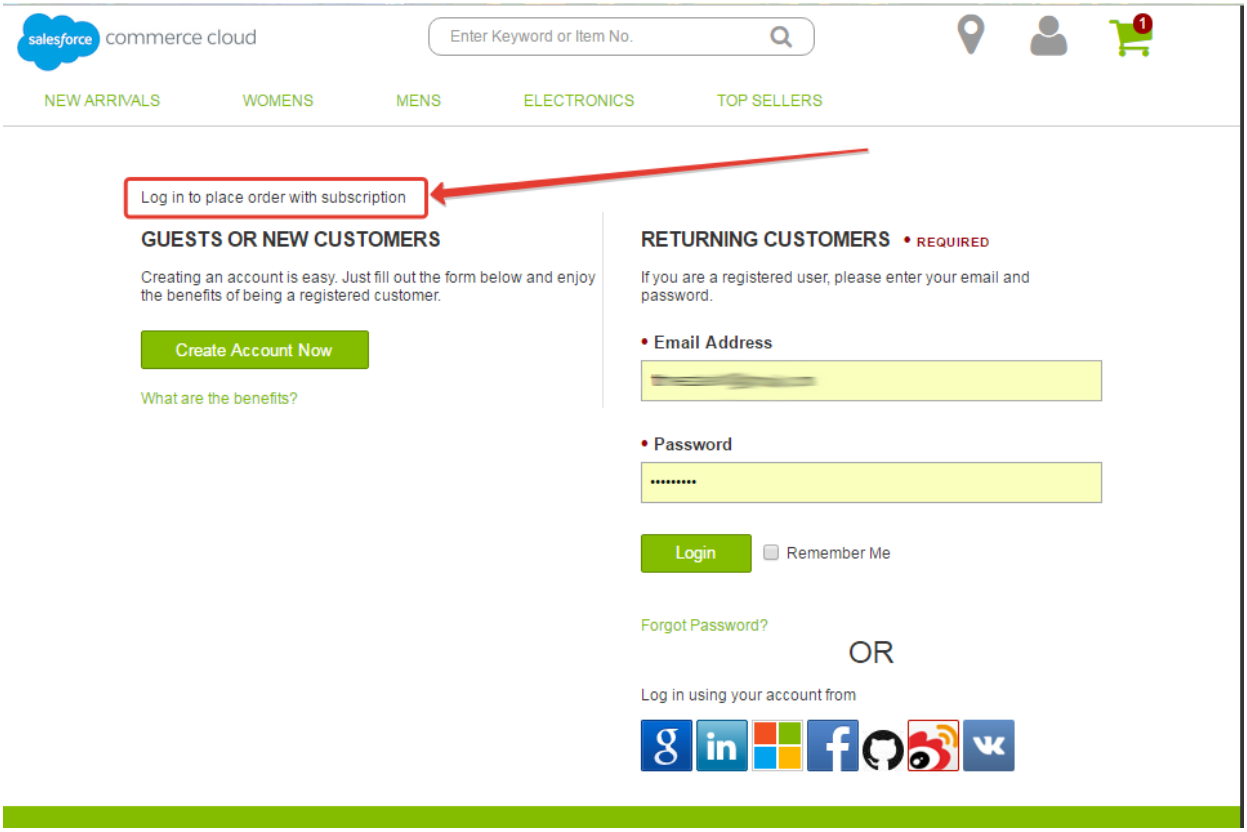
Product Page (Edit Details Quickview)

While on cart page you can click on the ‘Edit Details’ link. It will show Quick View containing PDP, where you’ll see subscription options. They can be changed. To apply changes click on ‘Update’ button.



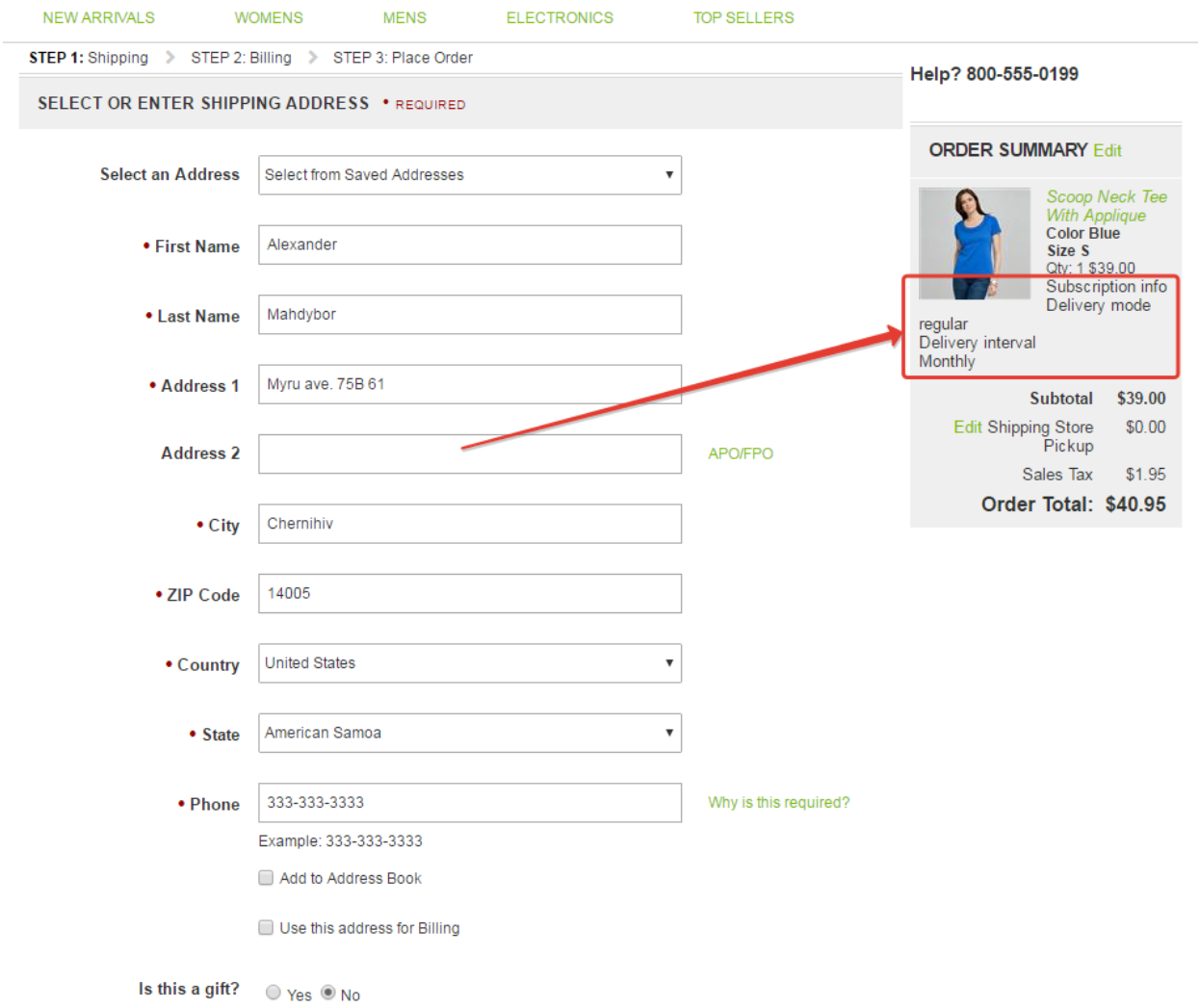
Login Page

If customer has any product with regular subscription option selected, he/she must be logged in as a registered customer to place order with subscriptions. In other case customer will see error message informing that he/she should log in to proceed. ‘Checkout as Guest’ option is excluded.



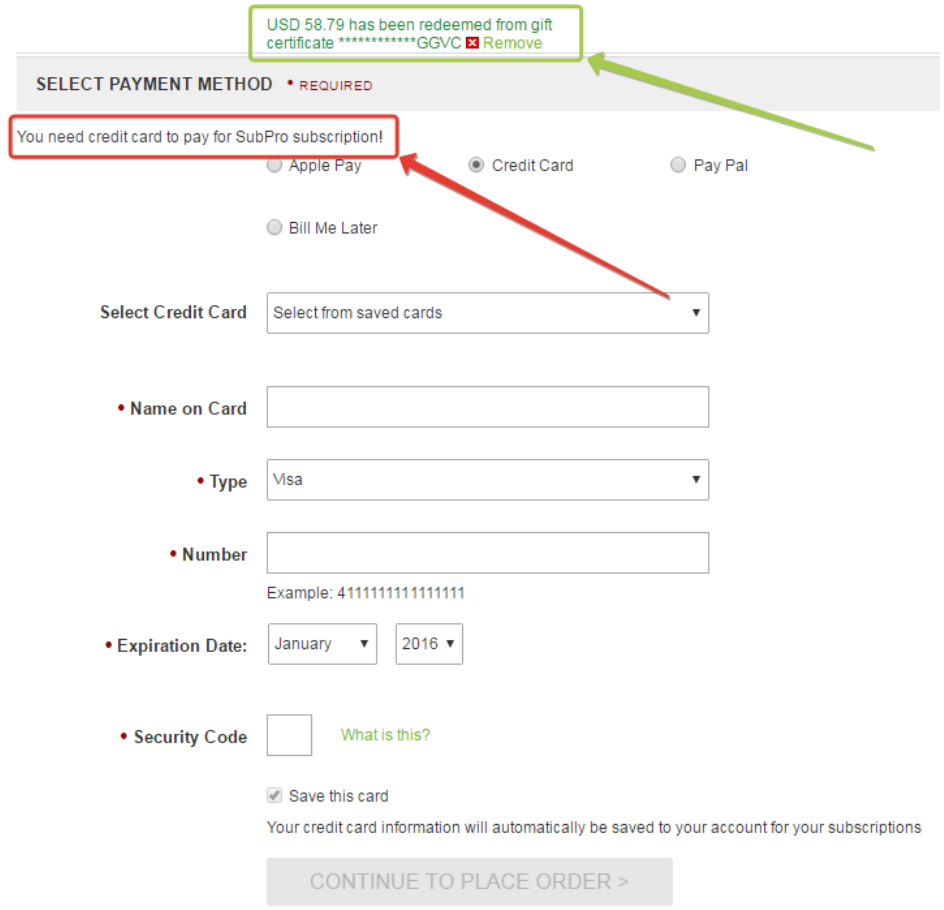
Order Summary Right Rail and Minicart

For products with subscription selected options will be shown on Order Summary Right Rail block and on Minicart.

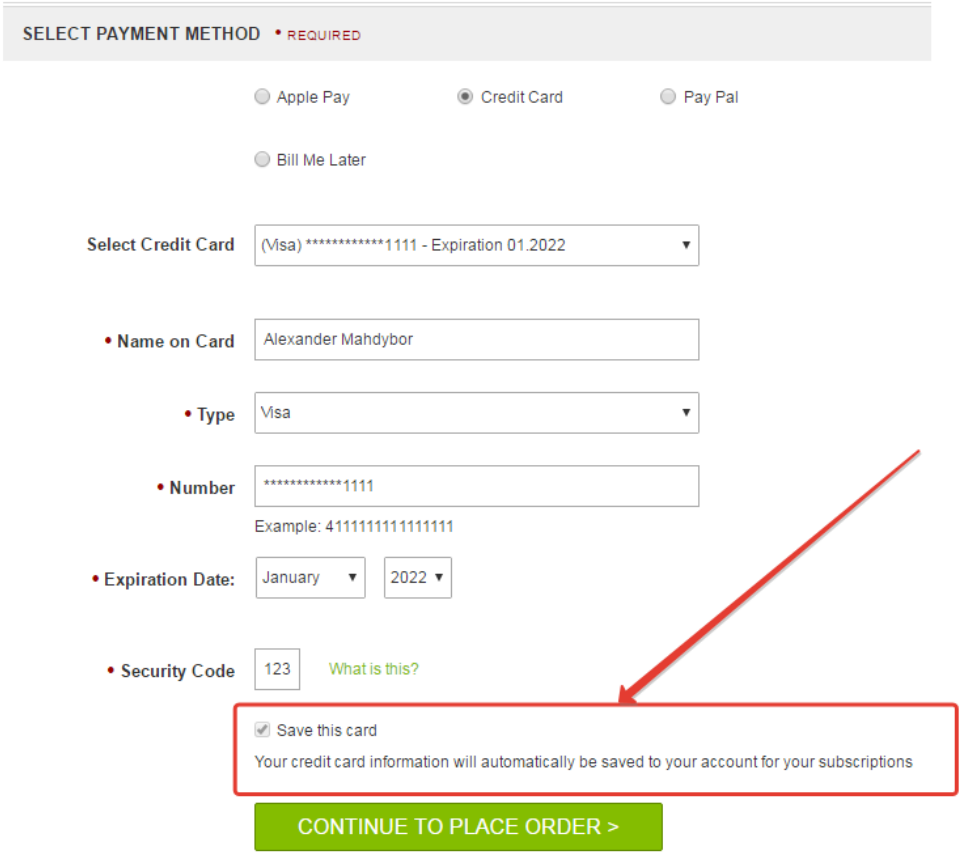


Checkout Billing Page

To place order with subscription Credit Card or Apple Pay payment method is required, even if customer has completely paid for order with alternative payment methods, without a credit card, using a gift card for example. The user must be required to enter a credit card number or Apple Pay for the subscription. The message informing customer about it will be shown.

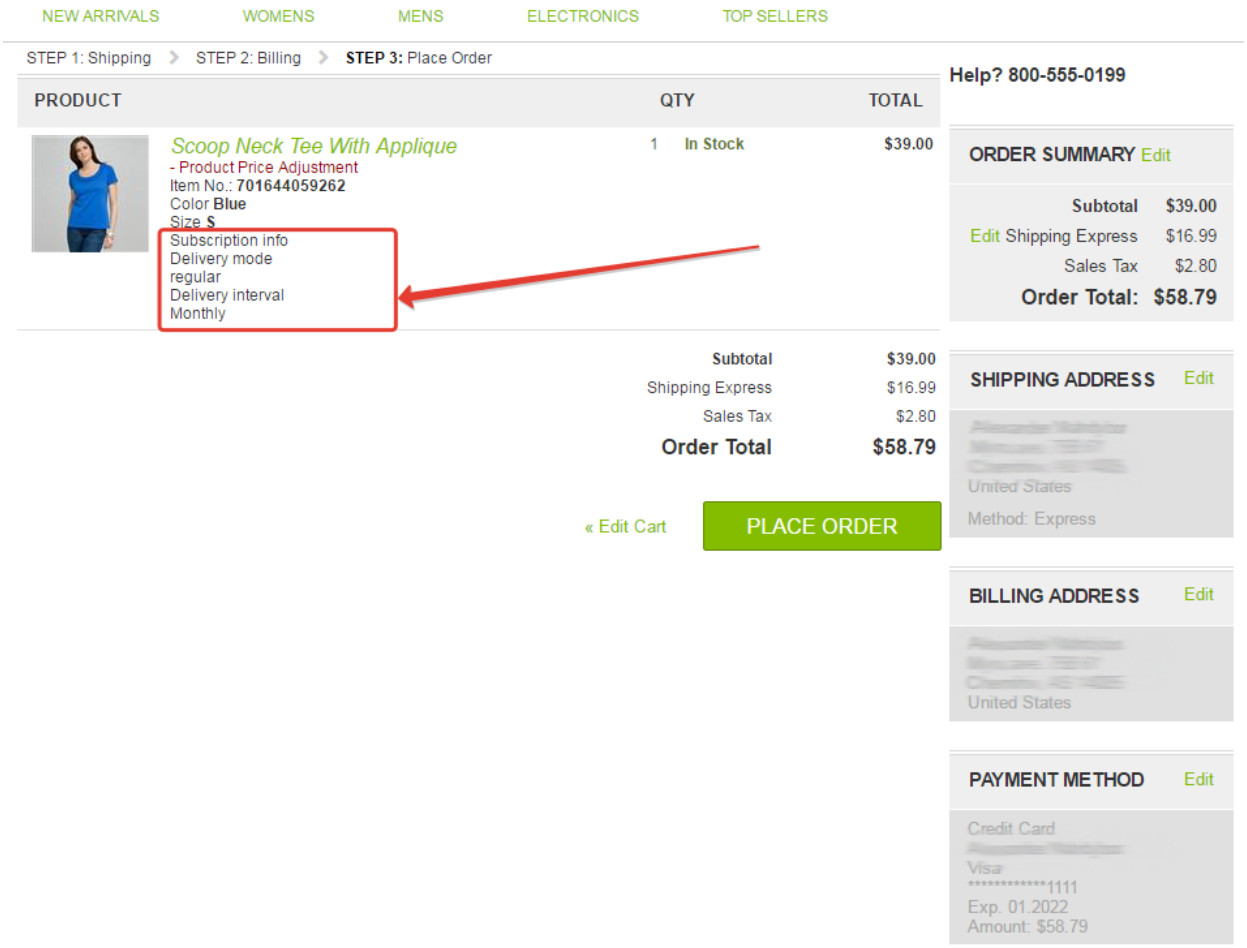


Also if credit card was selected its information will be force saved to customer's account to pay for recurring subscriptions. Message, informing customer about it, will be shown.



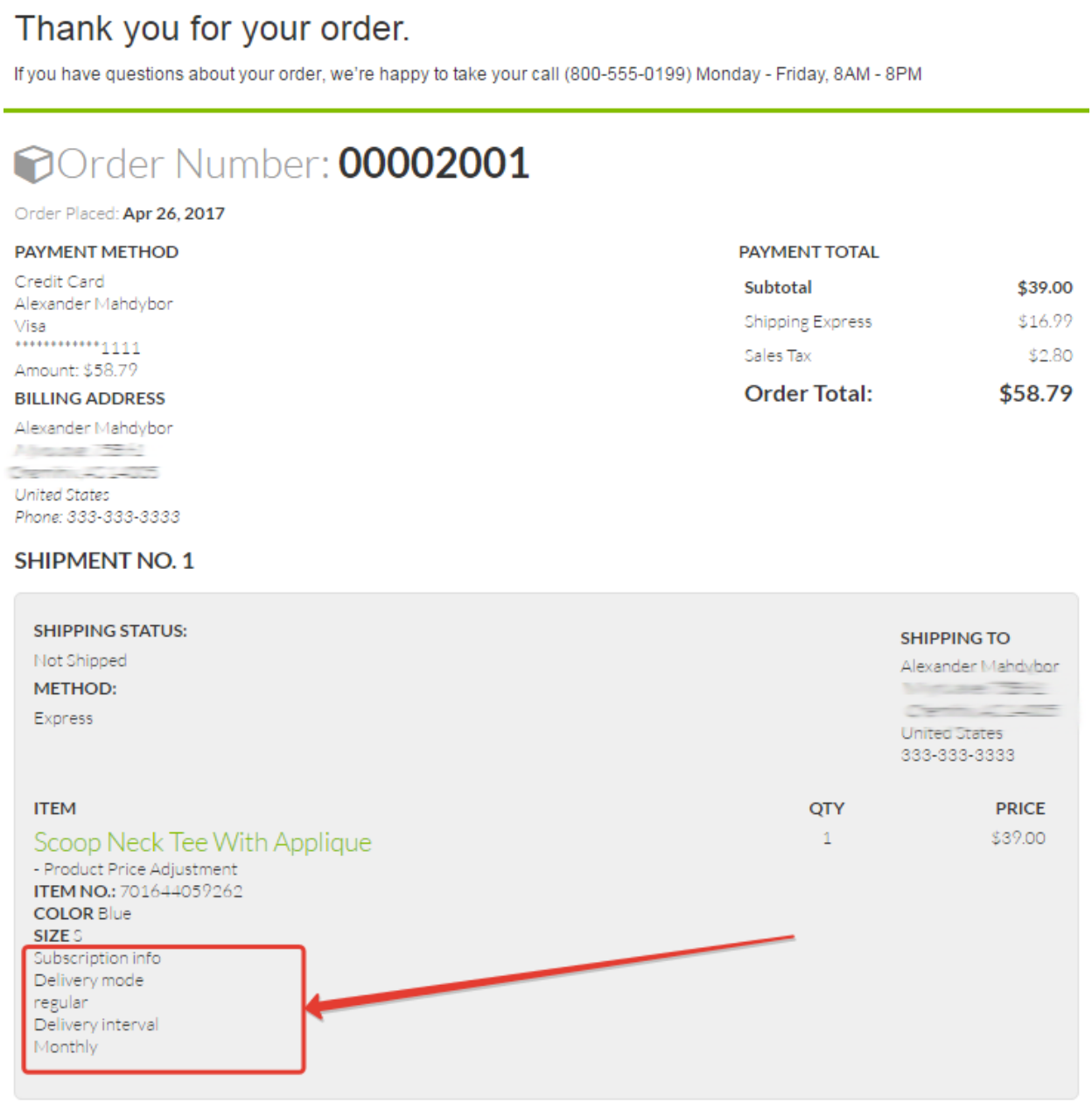
Order Summary Page

When the order summary page template has been updated, you should be able to see selected subscription options for product in order.



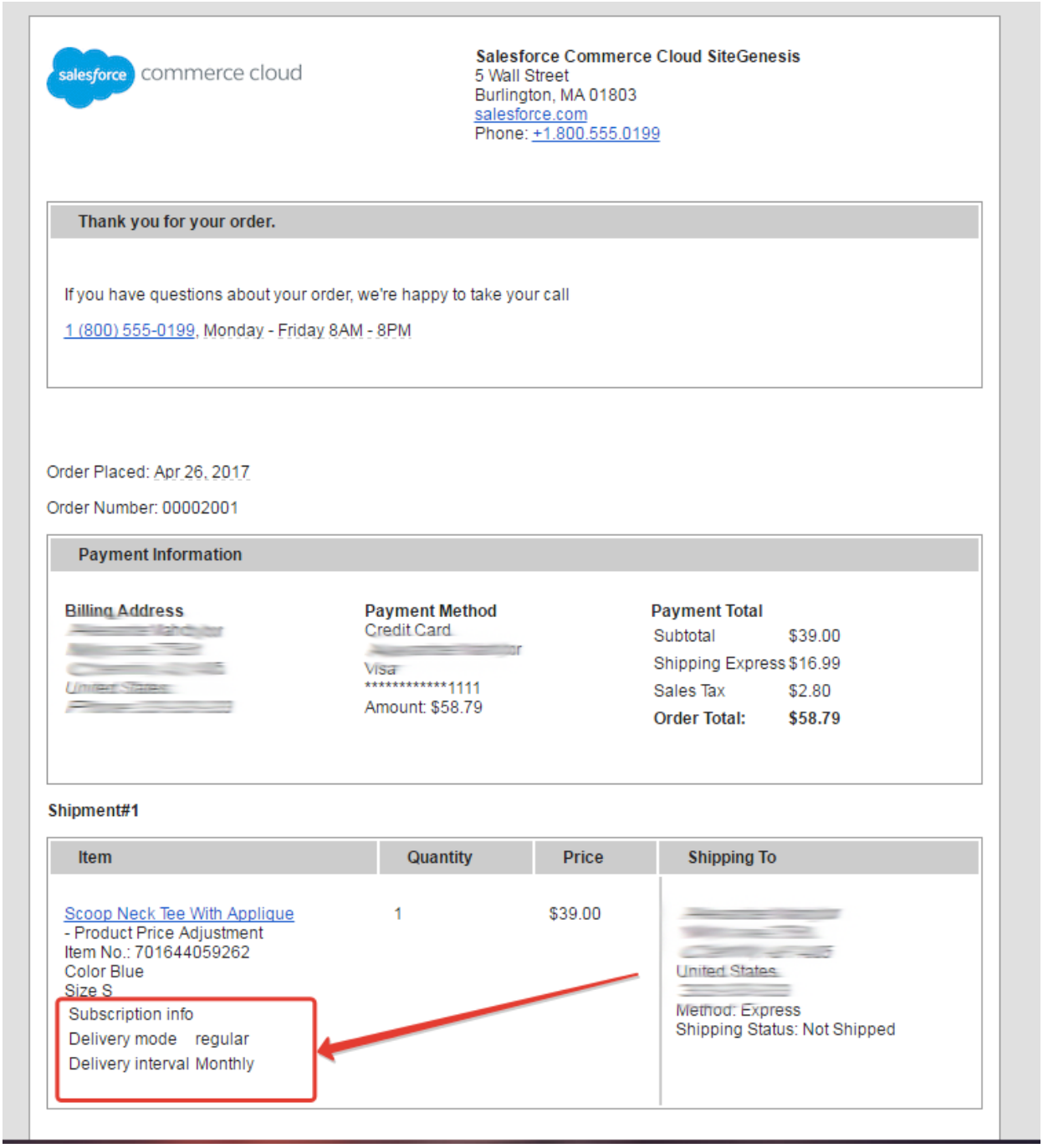
Order Confirmation Page

When the order confirmation page template has been updated, you should be able to see selected subscription options for product in order.



Order Confirmation Email

When the order confirmation email template has been updated, you should be able to see selected subscription options for product in order in Order Confirmation email sent to customer.



salesforce commerce cloud

Salesforce Commerce Cloud SiteGenesis
5 Wall Street
Burlington, MA 01803
salesforce.com
Phone: +1.800.555.0199

Thank you for your order.

If you have questions about your order, we're happy to take your call

1 (800) 555-0199, Monday - Friday 8AM - 8PM

Order Placed: Apr 26, 2017

Order Number: 00002001

Payment Information

Billing Address

Payment Method
Credit Card
Visa
**********1111
Amount: $58.79

Payment Total

Subtotal	$39.00
Shipping Express	$16.99
Sales Tax	$2.80
Order Total:	**$58.79**

Shipment#1

Item	Quantity	Price	Shipping To
Scoop Neck Tee With Applique - Product Price Adjustment Item No.: 701644059262 Color Blue Size S Subscription info Delivery mode regular Delivery interval Monthly	1	$39.00	United States Method: Express Shipping Status: Not Shipped

6. Known Issues

Talk about the subscription

7. Release History

Version	Date	Changes
17.1.0	<DATE>	Initial release