Subscribe Pro

Version 19.1.0



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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 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
- A Credit Card will be required 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 OCAPI version: 19.8

Compatible Site Genesis version: 104.1.3

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

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%2FSite Development%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
 - LINK-subscribe-pro/Metadata/services/services-shared.xml
 - 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	Туре	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.	
CustomerPaymentInstru	ment			
ID	Name	Туре	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 a	attributes so that they will automaticall	y be passed	from one to another.	
ID	Name	Туре	Description	
subproContainsSubscrip tions	Contains Subscriptions	Boolean	This attribute will be used to quickly assess if an order has subscriptions contained within it	
subproSubscriptionsToB eProcessed	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	Туре	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	Туре	Description
subproSubscriptionEnabl ed	Subscription Enabled	Boolean	This will decide whether or not the PDP should attempt to show subscription information

ProductLineItem

ID	Name	Туре	Description
subproSubscriptionOptio nMode	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
subproSubscriptionSelec tedOptionMode	Subscription Selected Option Mode	String	This attribute will contain subscription mode which was chosen on this ProductLineItem
subproSubscriptionInterv al	Subscription Refill Interval	String	This attribute will contain the user selected time interval to refresh a subscription product
subproSubscriptionAvail ableIntervals	Subscription Available Intervals	String	This attribute will contain a string with names of available subscription refill intervals, separated by comma
subproSubscriptionCreat ed	Subscription Created	Boolean	
subproSubscriptionDate Created	Subscription Date Created	Date	
subproSubscriptionID	Subscription ID	String	This will be populated when the order processing occurs and the actual subscription is created.

subproSubscriptionDisco unt	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
subproSubscriptionIsDis countPercentage	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	Туре	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	Туре	Description
subproCheckoutLoginMs g	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
subproCreditCardRequir ementMsg	Subpro Credit Card Requirement Message	String	This attribute will contain an error message noting that a credit card is required for subscriptions
subproOrderProcessing ErrorMail	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	Туре	Description
subproCardType	SubPro Card Type	String	Credit Card Type that matches the Credit Card Types at Subscribe Pro

Import ProcessSubproSubscriptions job

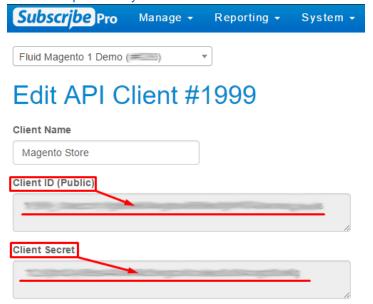
- 1. Navigate to Administration > Operations > Import & Export > Job Schedules.
- 2. Import the System Object custom attributes found in the following XML
 - a. LINK-subscribe-pro/Metadata/jobs/process-orders-job.xml

3.2 Configuration

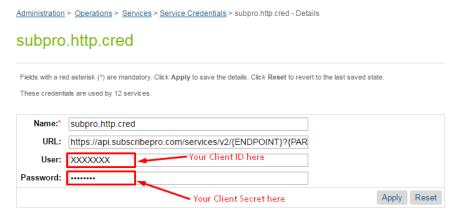
Update Web Service Credentials

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).

{Subscribe Pro LINK Integration Documentation}

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

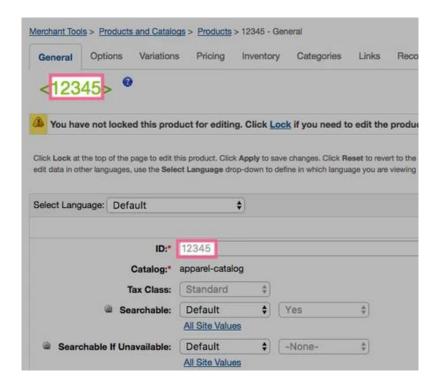
Below described action you need to perform to configure each type of product.

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.

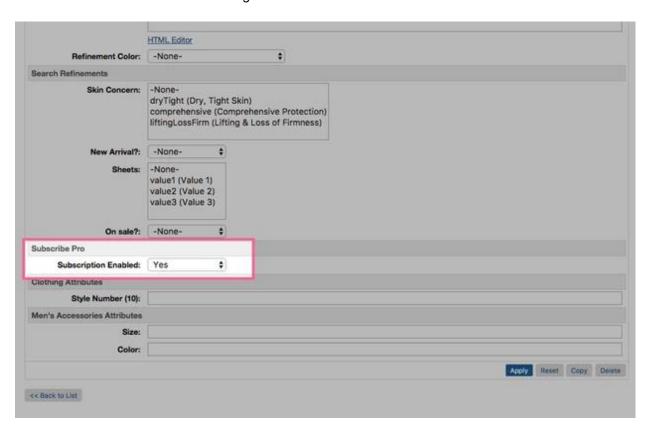
Configuring Product on the Commerce Cloud Platform

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



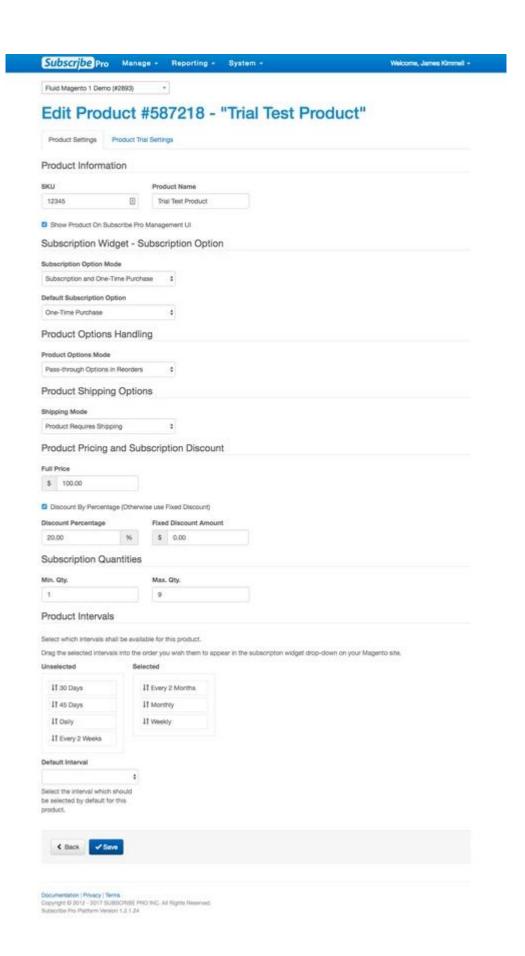
Configuring Product on the Subscribe Pro Platform

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:



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

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": "<EMAIL>"
     "billing_address": {
          "first_name": "<FIRST>",
"last_name": "<LAST>",
"address1": "<STREET>",
          "city": "<CITY>",
          "state_code": "<STATE>"
          "country_code": "<COUNTRY>"
      'product_items": [{
    "product_id": "sony-ps3-bundle",
           "quantity": 1
    }],
"shipments": [{
    "gift": false,
    "aming meth
          "shipping_method": {
                "id": "001"
           "shipping_address": {
                "first_name": "<FIRST>",
               "last_name": "<LAST>",
"address1": "<STREET>",
               "city": "<CITY>",
               "state_code": "<STATE>",
               "country_code": "<COUNTRY>"
} }]
```

```
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":"<STREET>",
      "city":"<CITY>",
"country_code":"<STATE>",
      "first_name":"<FIRST>",
      "full_name":"<FULL>",
      "id": "b600c40aec47165cacc48c7ad2",
       "last_name":"<LAST>",
       "state_code":"<STATE>
   },
"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":"<EMAIL>"
   "last_modified":"2017-04-19T15:26:23.360Z",
   "merchandize_total_tax":22.45,
       "_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":"<STREET>",
         "city":"<CITY>"
         "country_code": "<COUNTRY>",
         "first_name":"<FIRST>",
         "full_name":"<FULL>",
         "id": "29410763e35c40915b515a0cdd",
         "last_name":"<LAST>",
"state_code":"<STATE>"
      },
"shipping_method":{
    "'"chinning
          "_type":"shipping_method",
         "description": "Order received within 7-10 business days",
         "id":"001",
         "name": "Ground",
         "price":9.99
      "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_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": "<EMAIL>"
    "billing_address": {
    "first_name": "<FIRST>",
    "last_name": "<LAST>",
        "address1": "<STREET>",
        "city": "<CITY>",
        "state_code": "<STATE>",
        "country_code": "<COUNTRY>"
    "option_items": [
            {
                 "option_id": "tvWarranty",
                 "option_value_id": "002"
        ]
    }],
    "shipments": [{
        "gift": false,
        "shipping_method": {
             "id": "001"
        "first_name": "<FIRST>",
             "last_name": "<LAST>",
"address1": "<STREET>",
             "city": "<CITY>",
             "state_code": "<STATE>",
             "country_code": "<COUNTRY>"
         }
    }]
```

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.

In Business Manager, under Administration > Site Development > Open Commerce API Settings, ensure that the resources and methods are configured to support the example configuration in the **Documentation/okapi-example-configuration.json** file.

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);
```

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

Templates

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

Controllers

- Account.js
- COBilling.js
- COCustomer.js
- COSummary.js
- Address.js
- PaymentInstruments.js

JS

js/subscriptionOptions.js

Scripts

- CartModel.js
- cart.js
- variant.js
- GetProductDetailUrl.ds
- billing.js

Forms

creditcard.xml

Resource

- Resource.ds
- account.properties

The code changes below detail the customizations that must be made to the SiteGenesis core and controllers cartridges to implement Subscribe Pro.

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.

Resource

Modify account.properties

Locate properties file /app_storefront_core/cartridge/templates/resource/account.properties.

Add the following line:

```
account.subpro.mysubscriptions=My subscriptions
```

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:

```
70⊝
          <iscomment>
               product pricing
  72
  73
          </iscomment>
          <isset name="showTieredPrice" value="${true}" scope="page"/>
<isinclude template="product/components/pricing"/>
  76
          <isset name="pam" value="${pdict.Product.getAttributeModel()}" scope="page"/>
        <isset name="isSubproCustomer" value="${customer.authenticated && customer.profile.custom.subproCustomer"</pre>
  81
  82
  84
               variations
  85
```

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

Here is the expected result:

```
productcontent.isml
161⊝
                           <iscomment>
 162
                               product SubPro options
 163
                           </iscomment>
 164
 165
                          <isif condition="${product.custom.subproSubscriptionEnabled}">
 1660
                               <div class="subscription">
 167⊜
                                    <div class="sp-add-to-order"></div>
 168
                                    <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', product.ID,</pre>
 169
                                          'selectedOptionMode', pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue || '',
'selectedInterval', pdict.CurrentHttpParameterMap.selectedInterval.stringValue || '')}" /:
 170
 172
                               </div>
 173
                           </isif>
 174
                           <iscomment>
 175
 176
                               product quantity
 177
                           </iscomment>
 178
```

3) Scroll down to "add-to-cart" button and insert code below after it to render Subscribe Pro "Add to Order" widget:

```
<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>
```

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

4) Add code to configure Subscribe Pro "Add to Order" widget:

```
<isif condition="${isSubproCustomer}">
    <iscomment>
        Configure the Subscribe Pro Add to Order Widget
    </iscomment>
    <!-- Load the Subscribe Pro widget script -->
    <isset name="widgetConfig" scope="page"</pre>
value="${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);
            $.getScript(
'${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproWidgetScriptUrl')
}', function( data, textStatus, jqxhr ) {
                subscribepro.widgets.init('add-to-order', widgetConfig);
            });
        }
    </script>
</isif>
```

```
🖹 productcontent.isml 🖂
                <div id="update-images" style="display:none">
 300
                    <isinclude template="product/components/productimages"/>
 301
                </div>
           </isif>
 302
 303
           <isif condition="${isSubproCustomer}">
 304⊝
 305⊝
 306
                    Configure the Subscribe Pro Add to Order Widget
 307
                </iscomment>
 308
                <!-- Load the Subscribe Pro widget script -->
 309
 310
                <isset name="widgetConfig" scope="page"</pre>
 312
                    value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelper').getWidgetConfig(custo
 313
 314
                <!-- Pass configuration and init the Subscribe Pro widget -->
 315⊝
                <script>
                    // Setup config for Subscribe Pro
                    var widgetConfig = {
   widgetElementId: '${widgetConfig.widgetElementId}',
   apiBaseUrl: '${widgetConfig.apiAccessToken}',
   apiAccessToken: '${widgetConfig.apiAccessToken}',
 317
 318
 319
 320
                         environmentKey: '${widgetConfig.environmentKey}',
                         customerId: '${widgetConfig.customerId}',
 322
 323
                         addToOrderElementClass: '${widgetConfig.addToOrderElementClass}'
 324
                    // Call init
 325
                    if (typeof subscribepro !== 'undefined') {
 326
                         subscribepro.widgets.init('add-to-order', widgetConfig);
 327
 328
                    } else {
 329
                        $.getScript( '${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproWidgetScriptUrl'
                             subscribepro.widgets.init('add-to-order', widgetConfig);
 330
                        });
 331
 332
  333
                </script>
334
           </isif>
 335
```

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.

```
🖹 productsetproduct.isml 🛭
                  <isif condition="${!pdict.Product.variationGroup}">
                      <div class="availability-web">
  69
                          <label>${Resource.msg('global.availability','locale',null)}</label>
                          <span class="value"><isinclude template="product/components/availability"/></span>
  70
                      </div>
  71
  72
                  </isif>
  73
  74
                  75⊝
  76
  77
  78
  79⊝
  80
                          product SubPro options
  81
                                           -----
  82
                      </iscomment>
  83
                      <isif condition="${pdict.Product.custom.subproSubscriptionEnabled}">
                          <div class="subscription">
  86
                              <div class="sp-add-to-order"></div>
                              <isinclude url="${URLUtils.url('SubPro-PDP', 'sku', pdict.Product.ID)}" />
  87
                          </div>
  88
                      </isif>
  89
  90
                      <div class="inventory":
  92⊝
                          <div class="quantity">
                              <label for="${uniqueFormID}-quantity">${Resource.msg('global.qty','locale',null)}</label>
<input type="text" name="Quantity" id="${uniqueFormID}-quantity" maxlength="3" class="input-tex"</pre>
  93
 94
 95
                      </div>
 96
  97
                      <isset name="disabledText" value="${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)}</pre>
 98⊝
 99
                      </button>
 100
                  </form>
 101
              </div>
 102
         </isif>
 104
```

Modify producttopcontentPS.isml

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

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

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: path in the require() should point to the file you copied into the app_storefront_core js directory, see above at the start of the code changes section):

```
var subscriptionOptions = require('../subscriptionOptions');
```

and call function variantInit() in two locations as pictured below:

subscriptionOptions.variantInit();

Here is the expected result:

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

```
S GetProductDetailUrl.ds 

□
 120 /**
  121 * Create Product-Detail url for use in product/product.isml template
   123 * @param pdict PipelineDictionary
  124 *
  125 **/
  126 function GetProductDetailUrl(pdict) {
  127
                      var urlArgs = ['Product-Detail'];
                      var urlParams = {
   128
                                 pid: pdict.Product.ID,
   129
  130
                                 source: pdict.CurrentHttpParameterMap.source.stringValue,
  131
                                 uuid: pdict.CurrentHttpParameterMap.uuid.stringValue,
  132
                                 Quantity: pdict.CurrentHttpParameterMap.Quantity.stringValue,
   133
                                 product list id: pdict. Current Http Parameter Map. product list id. string Value\\
   134
   135
  136
                      if (pdict.CurrentHttpParameterMap.selectedOptionMode.stringValue) {
  137
                                 url Params [\ 'selected Option Mode'] \ = \ pdict. Current Http Parameter Map. selected Option Mode. string Value; \ pdict. Current Map. selected Option Mode of the Map and Map and
   138
   139
   140
                      if (pdict.CurrentHttpParameterMap.selectedInterval.stringValue) {
   141
                                 urlParams['selectedInterval'] = pdict.CurrentHttpParameterMap.selectedInterval.stringValue;
   142
   143
                      var variationAttributes = GetVariationAttributes(pdict);
   144
   145
                      var productOptions = GetProductOptions(pdict.CurrentOptionModel);
   146
   147
                       // construct the urlArgs array with params names and values
                      for (var param in urlParams) {
   148
   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.customerPaymentIns
trumentID).trigger('change');
```

Here is the expected result:

{Subscribe Pro LINK Integration Documentation}

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>
            importScript('search/ProductGridUtils.ds');
   4 </isscript>
   5 <iscomment><!--Display the remaining products as list--></iscomment>
   70 <ul id="search-result-items" class="search-result-items tiles-container clearfix ${ProductGridUtils.getCompareClass(pdi
            <isloop items="${pdict.pagingmodel.pageElements}" var="LoopProductHit" status="loopstate">
  10⊝
                   class="grid-tile ${(loopstate.index % 3 == 0) ? 'new-row' : ''}" data-colors-to-show="${ProductGridUtils.g}
  11
                         <iscomment><!--display a tile per product--></iscomment>
  12
                        13⊝
  15
                              <isinclude url="${ProductGridUtils.buildHitTileURL(LoopProductHit, pdict.CurrentHttpParameterMap.cgid.v</p>
  17
 189
                         <isif condition="${customer.profile && customer.profile.custom.subproCustomerID}">
                              <!-- Subscribe Pro Add to Order Widget --> <div class="sp-add-to-order" data-product-sku="${LoopProductHit.productID}"></div>
 19
  20
                              <div id="sp-add-to-order-widget"></div>
  21
             </isloop>
  24
  25 
   26 @< isif \ \ condition="\$ \{dw.system.Site.getCurrent().getCustomPreferenceValue('enableInfiniteScroll')\}"> (enableInfiniteScroll')\}"> (enableInfiniteScroll')
            27⊝
 28
             </isif>
  29
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.

Basket (cart)

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.isml. Add code below to include template with subscription options if product line item has SubPro subscriptions.

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

```
🖹 cart.isml 🖂 📗
  169
                                          <iselse/>
   170
                                                   :ximg src="${URLUtils.staticURL('/images/noimagesmall.png')}" alt="${lineItem.productName}" title="${lineItem
                                          </isif>
  171
                                   172
                                   174
  175
                                           <iscomment>Call module to render product</iscomment>
   176
                                                                                                                                                                             editable="${true}" p hideprice="${true}" p_b
                                          177⊝
  178⊖
                                                 <div class="subscription"
  179
                                                          <isinclude url="${URLUtils.url('SubPro-Cart', 'pliUUID', productLineItem.getUUID())}" />
                                                  </div>
  180
  181
  182
                                   183⊖
                                   184⊝
  185
                                   186
  187
                                   </isif>

    cart.isml 
    □

 637
  638⊝
                                     639
  640
                                             <iscomment>Call module to render product</iscomment>
  641
                                              (isdisplayliproduct p_productli="${LineItem}" p_formli="${FormLi
                                                                                                                                                                               editable="${false}" p_bideprice="${true}"
                                             <isif condition="${lineItem.custom.subproSubscriptionOptionMode}">
  642⊜
                                                     <div class="subscription"
  644
                                                            <isinclude url="${URLUtils.url('SubPro-Cart', 'pliUUID', productLineItem.getUUID())}" />
  645
                                                     </div>
  647⊝
  648⊝
                                                    <a href="${URLUtils.url('Product-GetBonusProducts','bonusDiscountLineItemUUID', bonusDiscountLineItem.UUID)}</pre>
  649
                                                           ${bonusButtonText}
  650
                                                    </a>
                                             </div>
  651
                                      653⊕
                                     < is if \verb| condition="\$\{dw.system.Site.getCurrent().getCustomPreferenceValue('enableStorePickUp')\}"> (is if \verb| condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(condition="$(conditi
                                     654⊜
656
```

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
```

```
🗟 displayliproduct.isml 🛭
118⊖ <iscomment>
         Show Edit Details link if
 119
 120
         Product is not null and it is either a variant and online or options product and online
 122⊖ <isif condition="${!productLineItem.bonusProductLineItem && productLineItem.product != null && ((pdict.p_editable &&
          <div class="item-edit-details">
 123⊕
              <isif condition="${empty(pdict.p_editable) || pdict.p_editable}">
 124⊕
                  <isscript>
  var liUrl = '';
 125⊖
 126
                      var urlArgs = ['Product-Show'];
 127
                      var urlParams = {
 128
                          pid: productLineItem.productID,
 130
                          Quantity: productLineItem.quantity.value.toFixed(),
 131
                          uuid: productLineItem.UUID,
 132
                          source: 'cart'
 133
                          selected Option Mode:\ product Line Item. custom. subproSubscription Selected Option Mode,
                          {\tt selectedInterval:}\ product Line I tem. custom. subproSubscription Interval
 134
 135
 136
 137
                      // if item has a category context, forward this category context
                      if (productLineItem.categoryID != null) {
 139
                          urlParams.cgid = productLineItem.categoryID;
 140
 141
                      if (productLineItem.optionProductLineItems.size() > 0) {
 142
                          var pom : dw.catalog.ProductOptionModel = productLineItem.optionModel;
 143
 144
                          var it : dw.util.Iterator = productLineItem.optionProductLineItems.iterator();
 146
                          while (it.hasNext()) {
 147
                              var oli : dw.order.ProductLineItem = it.next();
 148
                              var opt : dw.catalog.ProductOption = pom.getOption(oli.optionID);
 149
                              urlParams[opt.htmlName] = pom.getOptionValue(opt, oli.optionValueID).ID;
 150
                      }
 151
```

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()
```

```
🏂 *Resource.ds 🖂 🛚
           resources["REMAIN_" + ProductAvailabilityModel.AVAILABILITY_STATUS_BACKORDER] = Resource.msg('global.remainingbackorder', 'loo
 136
            resources[ProductAvailabilityModel.AVAILABILITY_STATUS_NOT_AVAILABLE] = Resource.msg('global.allnotavailable'
           resources["REMAIN_" + ProductAvailabilityModel.AVAILABILITY_STATUS_NOT_AVAILABLE] = Resource.msg('global.remainingnotavailable
 137
 139
           return resources;
 140 }
 143 * Get the client-side URLs of a given page
144 * @returns {Object} An objects key key-value pairs holding the URLs
145 */
 146 ResourceHelper.getUrls = function(pageContext) {
           var URLUtils = require('dw/web/URLUtils');
var Resource = require('dw/web/Resource');
 147
 148
 150
           // application urls
 151
                subproSubscriptionOptions : URLUtils.url('SubPro-UpdateOptions').toString(),
 153
154
                                                       : URLUtils.url('Page-Include').toString(),
                 pageInclude
                                                         request.isHttpSecure() ? URLUtils.httpsContinue().toString() : URLUtils.httpContinue().toStr
                                                     : URLUtils.staticURL("/").toString(),
: URLUtils.url('GiftCert-Purchase').toString(),
: URLUtils.url('GiftCert-ShowWiniCart').toString(),
: URLUtils.url('Cart-AddProduct').toString(),
: URLUtils.url('Cart-MiniAddProduct').toString(),
: URLUtils.url('Cart-Show').toString(),
: URLUtils.url('Cart-Show').toString(),
 156
                 staticPath
 157
                addGiftCert
                 minicartGC
 159
                 addProduct
 160
                 minicart
                 cartShow
 162
                 giftRegAdd
                                                       : URLUtils.https('Address-GetAddressDetails', 'addressID', '').toString(),
```

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 js/subscriptionOptions.js file from the int_subscribe_pro cartridge (Note: path in the require() should point to the file you copied into the app_storefront_core js directory, see above at the start of the code changes section):

```
var subscriptionOptions = require('../subscriptionOptions');
```

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

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

```
🛂 cart.js 🛭
  1 'use strict';
     var account = require('./account'),
         bonusProductsView = require('../bonus-products-view'),
         quickview = require('../quickview'),
         subscriptionOptions = require('../../LINK-subscribe-pro/int_subscribe_pro/cartridge/js/subscriptionOptions');
  90 /**
      * @private
 10
     * @function
 11
      * @description Binds events to the cart page (edit item's details, bonus item's actions, coupon code entry)
 14\Theta function initializeEvents() {
         $('#cart-table').on('click', '.item-edit-details a', function (e) {
              e.preventDefault();
             quickview.show({
 18
                  url: e.target.href,
                  source: 'cart
             });
          .on('click', '.bonus-item-actions a, .item-details .bonusproducts a', function (e) \{
 22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
              e.preventDefault();
             bonusProductsView.show(this.href);
         // override enter key for coupon code entry
$('form input[name$="_couponCode"]').on('key
                                _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
- 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:

```
🔏 CartModel.js 🛭
                // Updates a product line item.
                if (params.uuid.stringValue) {
   75
                    var lineItem = cart.getProductLineItemByUUID(params.uuid.stringValue);
   77
78
                    if (lineItem) {
   var productModel = Product.get(params.pid.stringValue);
   79
80
                        var quantity = parseInt(params.Quantity.value);
   81
82
                        productToAdd = productModel.object;
                        productOptionModel = productModel.updateOptionSelection(params);
   84
                        Transaction.wrap(function ()
   85
                                (params.subproSubscriptionInterval.value && params.subproSubscriptionOptionMode.value) {
   86
87
                                 cart.updateLineItem(lineItem, productToAdd, quantity, productOptionModel, this.getSubproParams(params));
                             } else {
   88
89
                                 cart.updateLineItem(lineItem, productToAdd, quantity, productOptionModel);
   90
   91
                        if (format === 'ajax') {
   template = 'checkout/cart/refreshcart';
   93
   95
                    } else {
```

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);
}
```

```
🔏 CartModel.js 🛭
                var previousBonusDiscountLineItems = cart.getBonusDiscountLineItems();
productToAdd = Product.get(params.pid.stringValue);
                if (productToAdd.object.isProductSet()) {
                      var childPids = params.childPids.stringValue.split(',');
var childQtys = params.childQtys.stringValue.split(',');
   115
                      var counter = 0;
   116
                      for (var i = 0; i < childPids.length; i++) {</pre>
                            var childProduct = Product.get(childPids[i]);
   118
   119
                            if (childProduct.object && !childProduct.isProductSet()) {
   120
                                  var childProductOptionModel = childProduct.updateOptionSelection(params);
cart.addProductItem(childProduct.object, parseInt(childQtys[counter]), childProductOptionModel);
   121
   123
   124
                             counter++:
   126
                } else {
                      productOptionModel = productToAdd.updateOptionSelection(params);
   128
                      if (params.subproSubscriptionInterval.value && params.subproSubscriptionOptionMode.value) {
    cart.addProductItem(productToAdd.object, params.Quantity.doubleValue, productOptionModel, this.getSubproParams(params))
   130
   131
   132
                            cart.add {\tt ProductItem} (product {\tt ToAdd.object}, params. {\tt Quantity.double {\tt Value}, product {\tt Option {\tt Model}}); \\
   133
                      }
   134
   135
                // When adding a new product to the cart, check to see if it has triggered a new bonus discount line item.
newBonusDiscountLineItem = cart.getNewBonusDiscountLineItem(previousBonusDiscountLineItems);
   136
137
   138
139
           }
   140
   141
                 format: format.
   142
                 template: tempĺate,
                 BonusDiscountLineItem: newBonusDiscountLineItem
   143
   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);
}
```

```
🔏 CartModel.js 🛭
  181
                                                                                                                 e product that is to be added to the basket.
             * @param {Object} [subproParams] - Object containing options for SubPro subscription
  182
  183
  1849
             addProductItem: function (product, quantity, productOptionModel, subproParams) {
  185
                 var cart = this;
  186
                 Transaction.wrap(function () {
  187
                      var i:
  188
                      if (product) {
                           var productInCart;
var productListItems = cart.object.productLineItems;
  189
                           var quantityInCart;
  191
                           var quantityToSet;
  193
                           var shipment = cart.object.defaultShipment;
                           for (var q = 0; q < cart.object.productLineItems.length; q++) {
   if (productListItems[q].productID === product.ID) {</pre>
  195
  197
                                    productInCart = productListItems[q];
                                    break;
  199
  200
                           }
  201
  202
                           if (productInCart) {
                               quantityInCart = productInCart.getQuantity();
quantityToSet = quantity ? quantity + quantityInCart : quantityInCart + 1;
  203
  204
  205
                                productInCart.setQuantityValue(quantityToSet);
  206
                           } else {
  207
                               var productLineItem = cart.createProductLineItem(product, productOptionModel, shipment);
  208
                               if (subproParams) {
    cart.addSubproParamsToPLI(productLineItem, subproParams);
  209
  210
  211
  212
                               if (quantity) {
    productLineItem.setQuantityValue(quantity);
  213
  214
  215
                           }
  216
```

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);
}
```

```
🔏 CartModel.js 🛭
  505
             ^{st} pids of the bundled products that are variations and any options.
  506
  507
               Otransactional
  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.
             * @param {Number} quantity - The quantity of the product line item after replacement.

* @param {dw.catalog.ProductOptionModel} productOptionModel - The option model of the product to add to the basket.
  511
  512
            * @param {Object} [subproParams] - Object containing options for SubPro subscription
  513
  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
                if (subproParams) {
  525
                    this.addSubproParamsToPLI(lineItem, subproParams);
526
  527
  529
                if (product.isBundle()) {
  530
531
                    if (request.httpParameterMap.childPids.stringValue)
  532
                         var childPids = request.httpParameterMap.childPids.stringValue.split(',');
  534
                         for (var i = 0; i < childPids.length; i++)</pre>
                             var childProduct = Product.get(childPids[i]).object;
  535
  536
  537
                             if (childProduct) {
                                    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;
    });
}
```

```
🔏 CartModel.js 🖂
 1420
            * registry, the purchase history of the respective gift registry item is updated.
 1421
 1422
             Malias module:models/CartModel~CartModel/createOrder
 1423
             @returns {dw.order.Order} The created order in status CREATED or null if an error occured.
 1424
 1425
           createOrder: function () {
 1426@
 1427
               var basket = this.object;
               var order;
 1428
 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
                       });
 1437
 1438
                   order = Transaction.wrap(function () {
 1439
                       return OrderMgr.createOrder(basket);
 1440
                   });
 1441
               } catch (error) {
 1442
 1443
 1444
 1445
               return order:
           1.
 1447
```

6) Finally, add methods to CartModel object:

```
\ensuremath{^*} 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,\\
        "subscription Selected Option Mode": params.subproSubscription Option Mode.value,\\
        "subscriptionAvailableIntervals":
params.subproSubscriptionAvailableIntervals.value,
        "subscriptionDiscount": params.subproSubscriptionDiscount.value,
        "subscriptionIsDiscountPercentage":
params.subproSubscriptionIsDiscount Percentage.boolean Value\\
},
 * 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;
}
```

```
🔏 CartModel.js 🖂
  1479
                                    return null;
                         },
  1481
  1483
                                Get Subscribe Pro subscription parameters and return them as an object.
                                @param {object} params
@returns {{subscriptionInterval, subscriptionOptionMode, subscriptionSelectedOptionMode, subscriptionAvailableIntervals, subscript
  1485
  1487
   1488⊖
                         getSubproParams: function (params) {
                                   return {
  1489
                                             "subscriptionInterval": params.subproSubscriptionInterval.value,
"subscriptionOptionMode": params.subproSubscriptionAvailableOptionMode.value,
"subscriptionSelectedOptionMode": params.subproSubscriptionOptionMode.value,
"subscriptionAvailableIntervals": params.subproSubscriptionAvailableIntervals.value,
   1490
  1491
  1492
  1493
   1494
                                               'subscriptionDiscount": params.subproSubscriptionDiscount.value,
  1495
                                             "subscriptionIsDiscountPercentage": params.subproSubscriptionIsDiscountPercentage.booleanValue
   1496
  1497
                         },
   1498
  1499
                            * Update Product Line Item with Subscribe Pro subscription parameters
  1500
   1501
                                 @param {dw.order.ProductLineItem} pli The product line item to update
  1502
  1503
                                 @param {object} subproParams Object containing Subscribe Pro subscription parameters which should be added to product line ite
   1504
                          addSubproParamsToPLI: function (pli, subproParams) {
    var discountValue = parseFloat(subproParams.subscriptionDiscount),
        discountToApply = subproParams.subscriptionIsDiscountPercentage
   1505@
   1506
   1507⊜
  1508
                                                       ? new dw.campaign.PercentageDiscount(discountValue)
   1509
                                                       : new dw.campaign.AmountDiscount(discountValue);
  1510
  1511
                                    if (subproParams.subscriptionSelectedOptionMode === 'regular') {
                                            pli.createPriceAdjustment("SubscribeProDiscount", discountToApply);
  1513
 1514
                                    pli.custom.subproSubscriptionOptionMode = subproParams.subscriptionOptionMode:
                                    pli.custom.subproSubscriptionSelectedOptionMode = subproParams.subscriptionSelectedOptionMode;
  1515
                                    pli.custom.subproSubscriptionInterval = subproParams.subscriptionInterval;
pli.custom.subproSubscriptionAvailableIntervals = subproParams.subscriptionAvailableIntervals;
  1516
   1517
1518
                                    pli.custom.subproSubscriptionDiscount = discountValue:
 1519
                                    pli.custom.subproSubscriptionIsDiscountPercentage = subproParams.subscriptionIsDiscountPercentage;
  1520
 1522 });
```

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.

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

```
<isif condition="${pdict.CurrentCustomer.authenticated}">
    <isif condition="${isSubPro}">
        <isset name="saveInputField"</pre>
value="${pdict.CurrentForms.billing.paymentMethods.creditCard.saveCard}" scope="page" />
        <div class="form-row label-inline form-indent">
            <div class="field-wrapper">
                 <input class="input-checkbox" type="checkbox" disabled="disabled"</pre>
checked="checked" value="true">
                <input type="hidden" id="${saveInputField.htmlName}"</pre>
name="${saveInputField.htmlName}" value="true">
            <label for="${saveInputField.htmlName}">
                 <span><isprint value="${Resource.msg(saveInputField.label, 'forms', null)}"</pre>
/></span>
            </label>
            <div class="form-caption"><isprint</pre>
value="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproSavedCredit
Msg')}" /></div>
        </div>
```

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" />
```

```
var SubscribeProLib = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib');
        <isset name="isSubPro" value="${SubscribeProLib.isSubPro()}" scope="page" />
                if condition="${pdict.OrderTotal > 0 || isSubPro}">
    <fieldset>
  119
                        <legend>
                      <div class="payment-method-options form-indent">[]
                        <div class="form-row form-row-button">[]
  39⊕
                       </isif>
                        </iscomment>
                       <div class="payment-method <isif condition="${empty(pdict.selectedPaymentID) || pdict.selectedPaymentID=="CREDIT_CARD'}">payment-method-expanded</isif>" data
                               < is comment > display select box with stored credit cards if customer is authenticated </ is comment > < is if condition="${pdict.CurrentCustomer.authenticated && !empty(pdict.ApplicableCreditCards)}">[]
                               < is input field \verb| formfield="\${pdict.CurrentForms.billing.paymentMethods.creditCard.owner}" \verb| type="input"/> | type="inp
                             <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="${help}"/>
                                        f condition="${pdict.CurrentCustomer.authenticated}">
<isif condition="${isSubPro}">
1166
                                                <isset name="saveInputField" value="${pdict.CurrentForms.billing.paymentMethods.creditCard.saveCard}" scope="page" />
                                               <input system
</div>
</div>
</div>
</div>
</div>
</div=
<pre>
</div=
<pre>

                                                        <div class="form-caption"><isprint value="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproSavedCreditMsg')}" /></div</pre>
                                                 cisinputfield formfield="${pdict.CurrentForms.billing.paymentMethods.creditCard.saveCard}" type="checkbox" />
                                 <is
</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"/>
 5 <iscomment>Report this checkout step</iscomment>
    <isreportcheckout checkoutstep="${1}" checkoutname="${'CheckoutMethod'}"/>
 80 <div class="checkoutlogin">
        <isif condition="${pdict.isSubpro}</pre>
 10⊝
             div class="subpro-message">${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproCheckoutLoginMsg')}</div
 14
            <div class="login-box">
 16
                <h2>${Resource.msg('checkoutlogin.guestheader','checkout',null)}</h2>
 18
                <div class="login-box-content clearfix">
 20⊝
21
                    <isif condition="${!pdict.CurrentCustomer.registered && !pdict.isSubpro}">
${Resource.msg('checkoutlogin.guestmessage','checkout',null)}
                             action="${URLUtils.httpsContinue()}" method="post"
                        <fieldset>
                           24⊜
25
                            </div>
                            <input type="hidden" name="${dw.web.CSRFProtection.getTokenName()}" value="${dw.web.CSRFProtection.generateToken"}</pre>
                        </fieldset>
                        </form>
                    </isif>
 31
                    <iscomment>new customer</iscomment>
                    ${Resource.msg('globalaccount.createmessage','locale',null)}
 33⊖
                    <form action="${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.

Here is the expected result:

```
iminilineitems.isml 🖂
     95
     96
97
                                                            < is display product a vailability p\_product li= "\$\{product line I tem\}" p\_display in \verb|stock="\$\{false\}" p\_display product line I tem\}" p\_display in \verb|stock="$\{false\}" p\_display product line I tem\}" p\_display product line I temp lin
     98⊝
     99
                                                                       <span class="Label">${Resource.msg('global.qty','locale',null)}:</span>
<span class="value">*<isprint value="${productLineItem.quantity}"/></span>
   100
   101
                                                                      <isif condition="${productLineItem.bonusProductLineItem}">
   103⊖
                                                                                  <isset name="bonusProductPrice" value="${productLineItem.getAdjustedPrice()}" scope="page"/>
<isinclude template="checkout/components/displaybonusproductprice" />
   105
                                                                                    <isprint value="${bonusProductPriceValue}" /</pre>
   107
                                                                       <iselse/>
   108
                                                                                   <isset name="productTotal" value="${productLineItem.adjustedPrice}" scope="page"/>
                                                                                  109⊝
                                                                                                        <isset name="productTotal" value="${productTotal.add(optionLI.adjustedPrice)}" scope="page"/>
   111
   112
                                                                                  </isif>
   113
                                                                                   <span class="mini-cart-price"><isprint value="${productTotal}"/></span>
   115
                                                                       </isif>
   116
   117
                                                            </div>
   118
  119⊖
120⊖
                                                            121
                                                                                   <isinclude url="${URLUtils.url('SubPro-OrderSummary', 'pliUUID', productLineItem.getUUID())}" />
   122
                                                                        </div>
   123
                                                            </isif>
   124
   125
                                                  e/divs
   126
   127
                                                 <isset name="itemCount" value="${itemCount+1}" scope="page"/>
   129
                                      </isloop>
```

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.

```
🗟 multishippingshipments.isml 🛭
                    </isif>
126
127
                128
129⊕
                130
                    <iscomment>Display product line and product using module</iscomment>
                    <isdisplayliproduct p productli="${productLineItem}" p editable="${fa</p>
131
                    <isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
132⊖
133⊖
                        <div class="subscription"
 134
                            <isinclude url="${URLUtils.url('SubPro-Cart', 'pliUUID', productLineItem.getUUID())}" />
                        </div>
 136
                    </isif>
 137
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.

Here is the expected result:

```
🖹 summary.isml 🖂
 64
                     </div>
                 </isif>
  65
             66
  67
             <iscomment>Display product line and product using module</iscomment>
  70
                  disdisplayliproduct p productli="${productLineItem}" p editable="${false}"
  71⊖
                 <isif condition="${productLineItem.custom.subproSubscriptionOptionMode}">
                     <div class="subscription"
  72<sup>©</sup>
  73
                         <isinclude url="${URLUtils.url('SubPro-OrderSummary', 'pliUUID', productLineItem.getUUID())}" /:</pre>
                     </div>
  74
  76
  77
  78⊝
             <isprint value="${productLineItem.quantity}" />
  79
             80
```

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.

```
</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.

```
90
                                      </151T>
                             91
     92
                 </thead>
     93@ <isloop items="${shipment.productLineItems}" var="productLineItem" status="pliloopstate">
     95
                                       96⊜
                                                 <iscomment>Display product line and product using module</iscomment>
     97
                                                  <isdisplayliproduct p productli="${productLineItem}" p editable="${false}"/>
     98
     99@
                                                 <isif condition="${productLineItem.custom.subproSubscriptionOptionMode}</pre>
   100⊝
                                                           101⊝
   102
                                                                                ${Resource.msg('order.subscription.info', 'order', null)}
   103
                                                                      104⊝
                                                                      ${Resource.msg('order.subscription.delivery.mode', 'order', null)}
   105
                                                                               \verb|\dots| for our custom.subproSubscriptionSelectedOptionMode| | \\
   106
                                                                      107
   108⊕
                                                                                \label{lem:condition} $$ \operatorname{Resource.msg('order.subscription.delivery.interval', 'order', null)} < \t d> $$ \end{tikzpicture} $$ \t d> $$
   109
   110
                                                                                ${productLineItem.custom.subproSubscriptionInterval}
   111
   112
                                                            113
                                                  </isif>
   114
   115
                                       116⊜
                                                <isprint value="${productLineItem.quantity}"/>
  117
                                       118
  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
}
```

```
1 <iscontent type="application/json" charset="UTF-8" compact="true"/>
    <isinclude template="util/jsonmodule"/>
  3@ <iscomment>
         This template renders the attributes of a customer credit card payment instrument as JSON response.
  5 </iscomment>
  6⊖ <isscript>
         var cc = {
             maskedNumber:pdict.SelectedCreditCard.maskedCreditCardNumber,
             holder:pdict.SelectedCreditCard.creditCardHolder,
             type:pdict.SelectedCreditCard.creditCardType,
 10
             expiration Month: pdict. Selected Credit Card. credit Card Expiration Month, \\
 11
              expirationYear and ct SelectedCreditCard creditCardExpirationYear.
            customerPaymentInstrumentID:pdict.SelectedCreditCard.UUID
 13
 15
         var json = JSON.stringify(cc);
 16 </isscript>
    <isprint value="${json}" encoding="off"/>
17
```

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++) {</pre>
            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:

```
765 * Attempts to save the used credit card in the customer payment instruments.
768 * The logic replaces an old saved credit card with the same masked credit card
769 * number of the same card type with the new credit card. This ensures creating
770 * only unique cards as well as replacing expired cards.
771 * @transactional
772 * @return {Boolean} true if credit card is successfully saved.
               var i, creditCards, newCreditCard;
               if (customer.authenticated && app.getForm('billing').object.paymentMethods.creditCard.sayeCard.value) {
    creditCards = customer.getProfile().getWallet().getPaymentInstruments(PaymentInstrument.METHOD_CREDIT_CARD);
779
780
<u>3</u>781
                       Transaction.wrag(function () {
   var creditCardForm = app.getForm('billing').object.paymentMethods.creditCard;
   var customerSelectedCreditCard = creditCardForm.customerPaymentInstrumentID ? creditCardForm.customerPaymentInstrumentID, value : false;
                              if (customerSelectedCreditCard && customerSelectedCreditCard.lenath > 0) {
                                     for (i = 0; i < creditCards.lenath; i++) {
   var creditcard = creditCards[i];</pre>
                                           if (creditcard.UUID == customerSelectedCreditCard) {
   newCreditCard = creditcard;
                                    }
                             }
                             if (!newCreditCard) {
                                     newCreditCard = customer.getProfile().getWallet().createPaymentInstrument(PaymentInstrument.METHOD_CREDIT_CARD);
                              // 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. \underline{custom.subproCCPrefix} = new. String(creditCardForm.\underline{number.value}).substr(\emptyset, \ 6);
                return true;
```

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()
```

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

```
23@ /**
       * Renders the summary page prior to order creation.
  25
      * @param {Object} context context object used for the view
  26
  27 function start(context)
  28
          var cart = Cart.get();
  29

⊗ 30

          const SubscribeProLib = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib.js');
          let isSubpro = SubscribeProLib.isSubPro(),
  31
32
              hasCreditCard = SubscribeProLib.hasCreditCard(cart);
  33
          // Checks whether all payment methods are still applicable. Recalculates all existing non-gift certificate payment
  34
          // instrument totals according to redeemed gift certificates or additional discounts granted through coupon
  35
  36
          // redemptions on this page.
          var COBilling = app.getController('COBilling');
  38
  39
          if (isSubpro && !hasCreditCard) {
              app.getView({
  40
  41
                  Basket: cart.object
  42
                  ContinueURL: URLUtils.https('COBilling-Billing'),
  43
  44
              }).render('checkout/billing/billing');
  45
  46
              return;
  47
  48
          if (!COBilling.ValidatePayment(cart)) {
  49
  50
              COBilling.Start();
              return;
  51
  52
          } else {
              Transaction.wrap(function () {
  53
```

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" />
```

```
1 <?xml version="1.0"?>
   2@ <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"
   5⊝
                  missing-error="creditcard.typemissing">
<options optionid-binding="cardType" value-binding="cardType" label-binding="name"/>
             </field>
  10
             <!-- 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"/>
  12
  13
  14
  15
            <field formid="customerPaymentInstrumentID" type="string" binding="customerPaymentInstrumentID" mandatory="false" /</pre>
  16
             <group formid="expiration">
  179
                   <!-- 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">

 18
  19⊖
  20
 210
                         <options>
                              <option label="month.january"</pre>
                                                                              value="01"/>
 22
                              <option label="month.february"
<option label="month.march"</pre>
 23
                                                                             value="02"/>
value="03"/>
  24
                              <option label="month.april"</pre>
                                                                             value="04"/>
  25
                               <option label="month.may"</pre>
                                                                             value="05"/>
  26
                               <option label="month.iune"</pre>
```

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.

After the addressForm variable declaration declare the addressHelper variable:

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

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": address Helper.get Subpro Address (saved Deleted Address, \\
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. Before the if(isDuplicateCard) condition, add:

```
let subproPaymentProfileID = null;
```

Then, inside the 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++) {</pre>
        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();
            saveCard.custom.subproPaymentProfileID = subproPaymentProfileID;
        catch (err) {
            Transaction.rollback();
            return false;
        Transaction.commit();
        session.custom.updatedCard = {
            "sp": paymentsHelper.getSubscriptionPaymentProfile(session.customer.profile,
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".

```
<!-- Load the Subscribe Pro widget script -->
       <script
src="${require('dw/system/Site').getCurrent().getCustomPreferenceValue('subproAddressWidgetS
criptUrl')}"></script>
       <isset name="widgetConfig" scope="page"</pre>
       value="${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="${JSON.stringify(widgetConfig)}"</pre>
encoding="off" />;
               AddressBookAssist.init(widgetConfig);
               <isif condition="${ hasNewAddress }">
                      var newAddress = <isprint value="${JSON.stringify(pdict.newAddress)}"</pre>
encoding="off" />;
                      var newAddressSfccId = '<isprint value="${pdict.newAddressSfccId}"</pre>
encoding="off" />';
                      AddressBookAssist.onAddressCreated(newAddress).then(function (result)
                              $.get("${URLUtils.url('Address-SetSPAddressID')}",
{"addressId": newAddressSfccId, "spAddressId": result.id});
                      });
               </isif>
               <isif condition="${ hasUpdatedAddress }">
                      var updatedAddress = <isprint</pre>
value="${JSON.stringify(pdict.updatedAddress)}" encoding="off" />;
                      AddressBookAssist.onAddressUpdated(updatedAddress);
               </isif>
               <isif condition="${ hasDeletedAddress }">
                      var deletedAddress = <isprint</pre>
value="${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 <div class="paymentslist"> block to add Subscribe Pro "Address Wallet Assist" widget div.

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"</pre>
value="${require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/WidgetsHelper').ge
tWidgetConfig(customer.profile.custom.subproCustomerID, 'client_credentials', 'widget',
'sp-wallet-assist-widget')}"/>
        <!-- Pass configuration and init the Subscribe Pro widget -->
        <script>
            // Setup config for Subscribe Pro
            var widgetConfig = <isprint value="${JSON.stringify(widgetConfig)}"</pre>
encoding="off" />;
            WalletAssist.init(widgetConfig);
            <isif condition="${ hasNewCard }">
                var newCard = <isprint value="${JSON.stringify(pdict.newCard)}"</pre>
encoding="off"
               />;
                WalletAssist.onPaymentProfileCreated(newCard, function (result) {
                        var newCardSfccId = '<isprint value="${pdict.newCardSfccId}"</pre>
encoding="off" />';
                        $.get("${URLUtils.url('PaymentInstruments-
SetSPPaymentProfileID')}", {"paymentInstrumentId": newCardSfccId, "spPaymentProfileId":
result.id});
                    });
            </isif>
            <isif condition="${ hasUpdatedCard }">
                var updatedCard = <isprint value="${JSON.stringify(pdict.updatedCard)}"</pre>
encoding="off" />;
                WalletAssist.onPaymentProfileUpdated(updatedCard);
            </isif>
            <isif condition="${ hasDeletedCard }">
                var deletedCard = <isprint value="${JSON.stringify(pdict.deletedCard)}"</pre>
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:

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

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 */
```

```
♣ Account.js X
  1 'use strict';¶
  2 ¶
  3 /**¶
  4 .*.Controller.that.renders.the.account.overview,.manages.customer.registration.and.password.reset,¶
  5 * and edits customer profile information.
  6 ·*¶
  7 .*.@module.controllers/Account¶
  8 .*/¶
  9 ¶
 10 /* API includes */¶
 11 var Resource = require('dw/web/Resource'); ¶
 12 var URLUtils = require('dw/web/URLUtils'); ¶
 13 var Form = require('~/cartridge/scripts/models/FormModel'); ¶
 14 var OrderMgr = require('dw/order/OrderMgr'); ¶
 15 ¶
 16 /* Script Modules */¶
 17 var app = require('~/cartridge/scripts/app'); ¶
 18 var guard = require('~/cartridge/scripts/guard'); ¶
 19 var Transaction = require('dw/system/Transaction');¶
 20 ¶
 21 /* Subscribe Pro Module */¶
 22 var SubscribeProLib = require('/int_subscribe_pro/cartridge/scripts/subpro/lib/SubscribeProLib');¶
 23 var CustomerHelper = require('/int_subscribe_pro/cartridge/scripts/subpro/helpers/CustomerHelper'); ¶
 24 var Logger = require('dw/system/Logger'); ¶
 25 ¶
26⊖ /**¶
 27 ** Gets a ContentModel object that wraps the myaccount-home content asset, ¶
 28 **updates the page metadata, and renders the account/accountoverview template.¶
29 **/¶
```

```
- -
♣ Account.js X
  72 .*.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.
  74 .*.--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
  75
  76
  77⊖ function editForm() - {¶
     ....app.getForm('profile').handleAction({¶
    .....cancel: function () {¶
.....app.getForm('profile').clear();¶
  79
  80
               response.redirect(URLUtils.https('Account-Show'));
  81
  82
     .....confirm: function () -{¶
     ....var isProfileUpdateValid = true;¶
  84
     .....var hasEditSucceeded = false;¶
....var Customer = app.getModel('Customer');¶
  85
  86
  87
     .....if (!Customer.checkUserName()) {¶
  89
     .....app.getForm('profile.customer.email').invalidate();¶
  90
     ....isProfileUpdateValid = false; ¶
     · · · · · · · · · · } ¶
  91
     1
  92
     if (app.getForm('profile.customer.email').value() !== app.getForm('profile.customer.emailconfirm').value()
  93
  94
     .....app.getForm('profile.customer.emailconfirm').invalidate();¶
  95
                  ...isProfileUpdateValid = false; ¶
 96
     . . . . . . . . . . . . . . . } ¶
  97
     .....if (!app.getForm('profile.login.password').value()) {
  98
  99
     .....app.getForm('profile.login.password').invalidate();¶
 100
     .....isProfileUpdateValid = false;¶
     101
 102
     .....if (isProfileUpdateValid) {
 103
 104
      ......hasEditSucceeded = Customer.editAccount(app.getForm('profile.customer.email').value(), app.getForm('pr
 105
 106
                    if (hasEditSucceeded) {¶
 107
                       ...let.customer.=.Customer.get();¶
 108
                         if (customer && customer.object && customer.object.profile && customer.object.profile.custom.subpr
 109
 110
                             let customerToPost == CustomerHelper.getSubproCustomer(customer);
                          ···let·updateResponse = SubscribeProLib.updateCustomer(customer.object.profile.custom.subproCusto
 111
 112
                           ..if (updateResponse.error) { ¶
 113
                       ......Logger.error('There was an issue updating the customer at subscribe pro: '++ JSON.stringif
 114
                           ...}¶
 116
                        ·-}¶
                      else {¶
 117
                       ..app.getForm('profile.login.password').invalidate(); ¶
 118
                        .isProfileUpdateValid = .false; ¶
 119
 120
 121
           ......}¶
 122
     .....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	

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/paymentprofil es/{id}	Retrieve a single payment profile by id
subpro.http.post.paymentprofile.vault	POST /services/v2/vault/paymentprofil e/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.

- 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

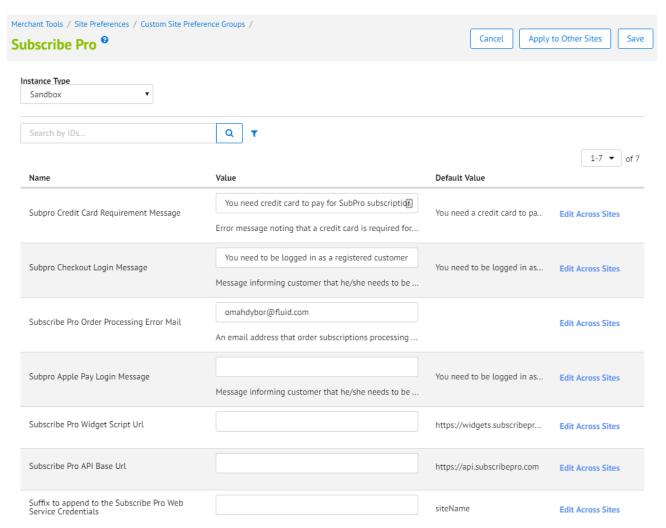
5. User Guide

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

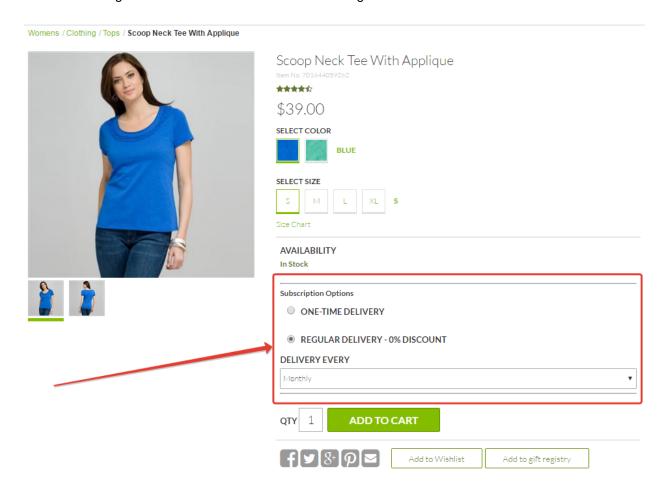
Subscribe Pro group is added to Custom Site Preference Groups (*Site > Site Preferences > Custom Preferences*). It contains following attributes:



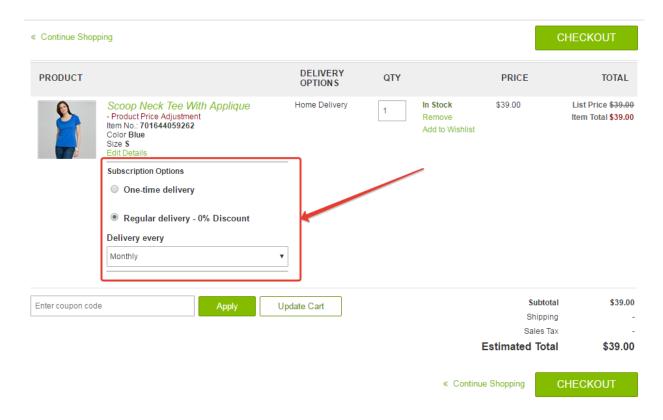
5.3 Storefront Functionality

Product Detail Page

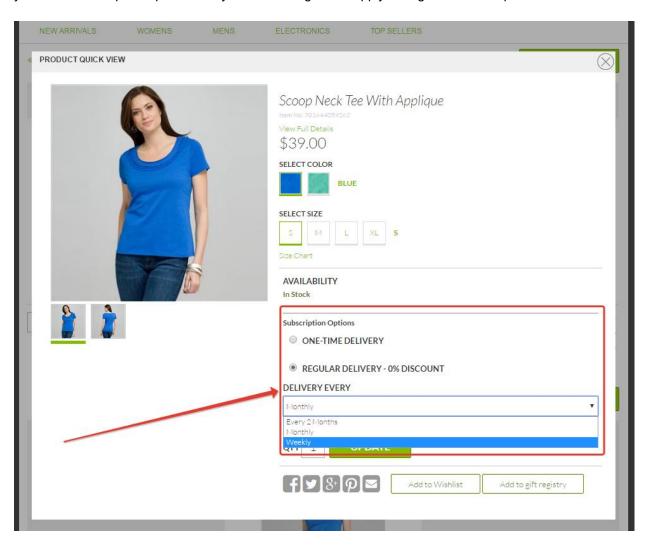
When the product page template has been updated, you should be able to see subscription options for product: one time delivery or regular delivery and drop down with delivery intervals if regular delivery is available. This information will be shown only for products for which subscription is configured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



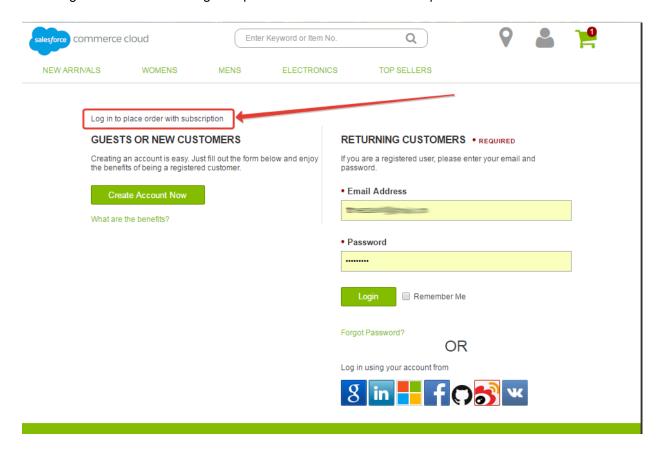
If any product with subscription was added to basket, on cart page you will see the same subscription options as on PDP for such product line item. At this step subscription options can be changed. To apply changes you'll need to click on 'Update Cart' button.



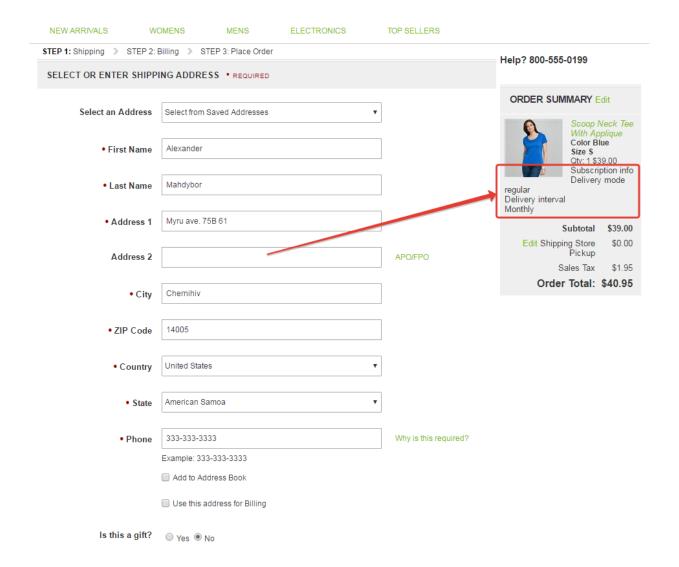
While on cart page you can click on the 'Edit Details' link. It will show Quick View containing PDP, where you'll see subscription options. They can be changed. To apply changes click on 'Update' button.



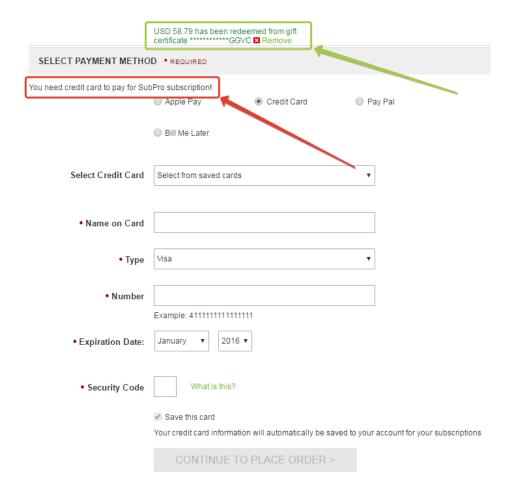
If customer has any product with regular subscription option selected, he/she must be logged in as a registered customer to place order with subscriptions. In other case customer will see error message informing that he/she should log in to proceed. 'Checkout as Guest' option is excluded.



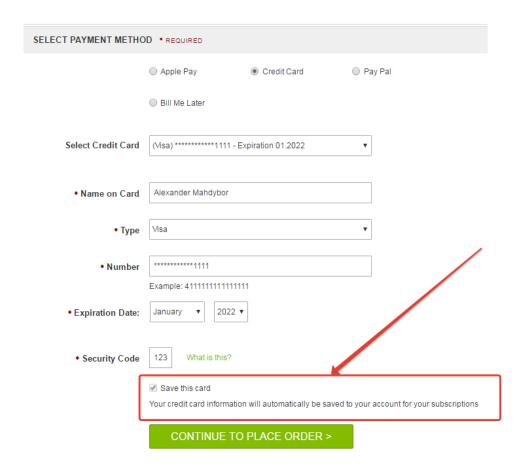
For products with subscription selected options will be shown on Order Summary Right Rail block and on Minicart.



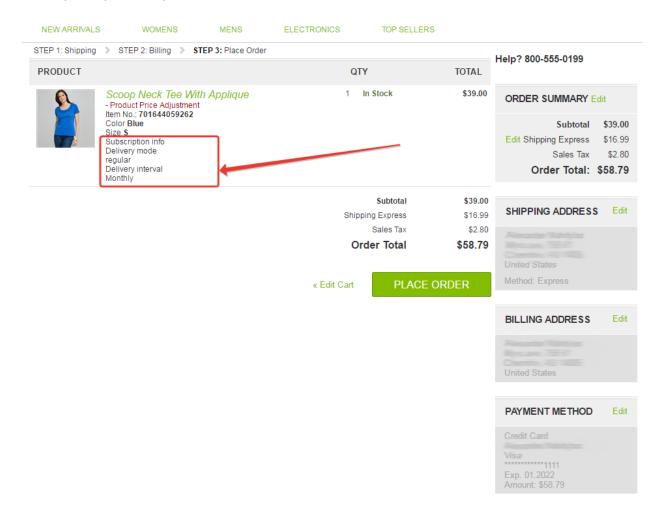
To place order with a subscription the Credit Card payment method is required, even if customer has completely paid for order with alternative payment methods, without a credit card, using a gift card for example. The user must be required to enter a credit card number for the subscription. The message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



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



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

Thank you for your order.

If you have questions about your order, we're happy to take your call (800-555-0199) Monday - Friday, 8AM - 8PM

Order Number: 00002001

Order Placed: Apr 26, 2017

Order Total:

\$58.79

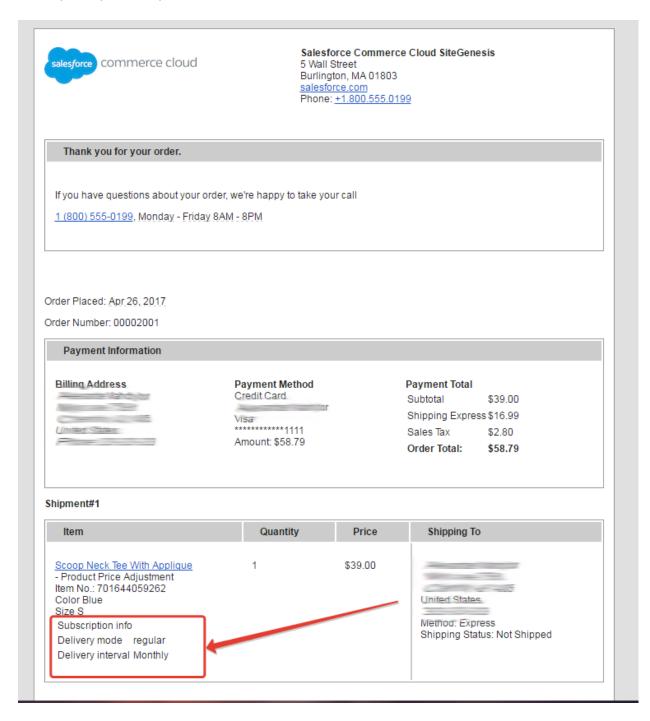
BILLING ADDRESS
Alexander Mahdybor
United States

Phone: 333-333-3333

SHIPMENT NO. 1



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.



6. Release History

Version	Changes
17.1.0	Initial release
19.1.0	Re-certification