

Signifyd INTEGRATION

Version 19.2.0



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Intended Audience

This document is intended for the technical audience that will be directly involved in the setup and or integration of this Salesforce Commerce Cloud cartridge.

1. Summary

Signifyd is a fraud solution that provides a financial guarantee, allowing businesses to increase sales while reducing fraud losses. The Signifyd cartridge will be integrated into Salesforce Commerce Cloud using two primary API integration points: Signifyd's [Create Case API](#) and an [HTTP callback](#) (webhook). The Case Create API is used to pass order and transaction details to Signifyd for fraud review. Signifyd decisions are returned asynchronously, so an HTTP callback (webhook) is used to return their guarantee decision.

Action 1. The Signifyd Create Case REST API is called after the Salesforce Commerce Cloud order has gone through the authentication process against the payment provider right before displaying the order summary page. Because it is only called during order creation this will ensure that create case is never called again for that same order.

The use of DWRE Service Framework is in use by all service calls.

Action 2. The second integration point is a publicly accessible URL that will be used as the callback/webhook endpoint. This endpoint will be called when Signifyd has completed it's fraud assessment and a decision is made to either approve or decline the order for financial guarantee. This triggers an update to the order in SFCC and could also indicate that the order is ready to export (depending on settings).

This document primarily serves as the LINK implementation guide for setting up Signifyd on standard SiteGenesis.

The Set Up and Custom Code Configuration described in this document assume the use of SiteGenesis 103.1.11 release of app_storefront_core. Custom coding might be required if adapting the cartridge to work with other SiteGenesis releases, pre-2.0 releases, and versions of SiteGenesis that do not include the RequireJS framework.

2. Components

Cartridge Name

Int_signifyd

New Signifyd Controller

controllers/Signifyd.js

Modified System Controller

COSummary

CheckoutServices

Modified System Pipeline

COSummary

Modified Core Template

htmlhead.isml

Scripts

service/signifydInit.ds

service/signifyd.ds

service/pp_signifyd.ds

job/CreateMissingOrders.js

Templates

default/signifyd_device_fingerprint.isml

Cartridge Path**Pipeline based approach:**

int_signifyd:app_storefront_pipelines:app_storefront_core...

Controllers based approach:

int_signifyd:app_storefront_controllers:app_storefront_core...

SFRA based approach:

int_signifyd:app_storefront_base...

MetaData

- metadata.xml
- services.xml
- jobs.xml

3. Component Overview

3.1 Functional Overview & Integration Guide


3.1.1 Setup access to the Site Preference

All permissions for customers can be set in [Administration](#) → [Organization](#) → [Role & Permissions](#). You can allow admin level users to edit Site settings and disallow non-admin users. You may need to make changes to this in order to enable or disable access to the required Signifyd site preferences.

[Administration](#) > [Organization](#) > Roles & Permissions

Roles

The page shows all roles in this organization.

Roles marked with  have permission to manage users or access roles or both. They are therefore security-sensitive roles. Please be careful when changing these roles so as not to give unintentionally access privileges to certain users.









Select All	ID	Description
<input type="checkbox"/>	 Administrator	The administrator has the rights to perform tasks related to the overall administration of the merchant organization and its users and roles. This access role is not site-specific and will grant the user access to the entire organization.
<input type="checkbox"/>	SimpleUser	Simple user
New Delete		

[Administration](#) > [Organization](#) > [Roles](#) > SimpleUser - Business Manager Modules

General Users **Business Manager Modules** Functional Permissions

SimpleUser - Business Manager Modules

The list shows all Business Manager modules available in the system. Use the drop down list to select either the organization or a site as context for permissions to Business Manager modules. Select the check boxes and use the **Update** button to grant permission to the selected Business Manager modules. Unselect the check boxes and use the **Update** button to remove permissions.

Select Context: Organization Apply		
Business Manager Module	Module Description	<input type="checkbox"/>
 Replication		<input type="checkbox"/>
 Data Replication	Start and control data replication processes.	<input type="checkbox"/>
 Code Replication	Start and control code replication processes.	<input type="checkbox"/>
 Organization		<input type="checkbox"/>
 Organization Profile	Manage the organization profile including its default language.	<input type="checkbox"/>
 Users	Manage the Business Manager users. If you also have permission for the Business Manager module "Roles & Permissions", this module allows you to assign and unassign the users to access roles.	<input type="checkbox"/>
 Roles & Permissions	Manage roles and permissions. If you also have permission to the Business Manager module "Users", this module allows you to assign and unassign users to the access role.	<input type="checkbox"/>
 Sites		<input type="checkbox"/>

3.1.2 Setup Eclipse

Steps for Loading the Cartridge in Eclipse

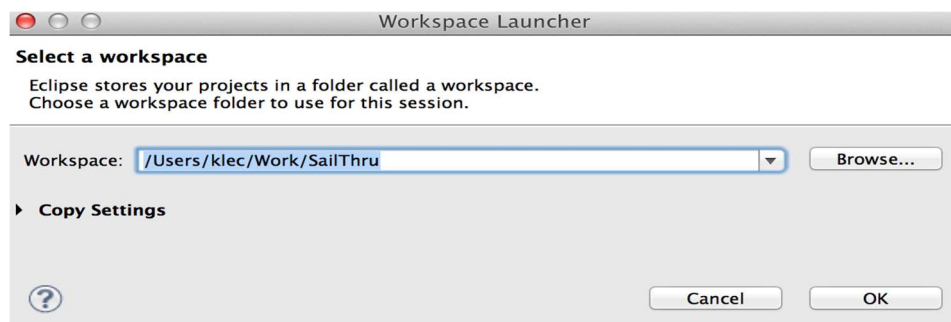
A workspace is an Eclipse-specific local directory that contains Eclipse projects. Normally Eclipse projects are connected to Java source directories (packages). In Demandware Studio projects are different: they either define a connection to a Salesforce Commerce Cloud instance or they point to a Salesforce Commerce Cloud cartridge. They are never used to compile Java projects since Java code is not used in Salesforce Commerce Cloud application programming.

Each workspace should have only 1 Salesforce Commerce Cloud server connection (covered later in this module). For example, if you are a developer working on numerous client projects, you will want to create a separate workspace for each client. Each client workspace will then have only 1 specific server connection.

Run the Create a Workspace activity.

To install the UX Studio plugin into Eclipse and to create a new workspace (when using UX Studio for the first time), follow these steps:

1. The first time you use the application, you will be prompted to create a new workspace name. Give your workspace a name that references the client you are working with.



2. Eclipse will first display the Welcome message in the main working area.



Creating a Server Connection

In order to upload your code to a Salesforce Commerce Cloud server, you will need to create a server connection in UX Studio. A server connection allows you to push your code to the server instance but you will not be able to pull the code onto your personal computer from the Salesforce Commerce Cloud server. The connection is a 1-way push only.

Create a new server Connection

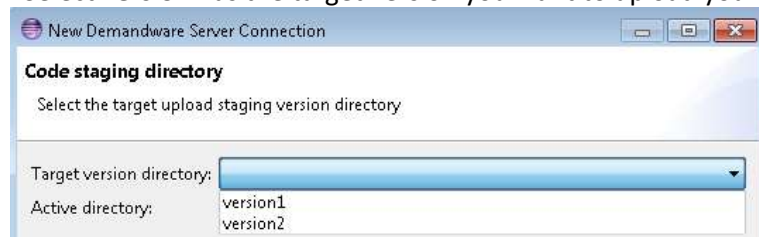
1. From UX Studio, click **File->New->Digital Server Server Connection**. The new server connection box opens.
2. Complete it as follows.

In the **Project name** and **Host name** fields, use the host name provided by your client:
e. g. <https://signifyd01-tech-prtnr-na05-dw.demandware.net/>

Enter your password. Check the **Remember Password** flag.

3. Click **Next**.
4. A security warning regarding an invalid certificate for your sandbox shows up. Click **Yes** to continue.

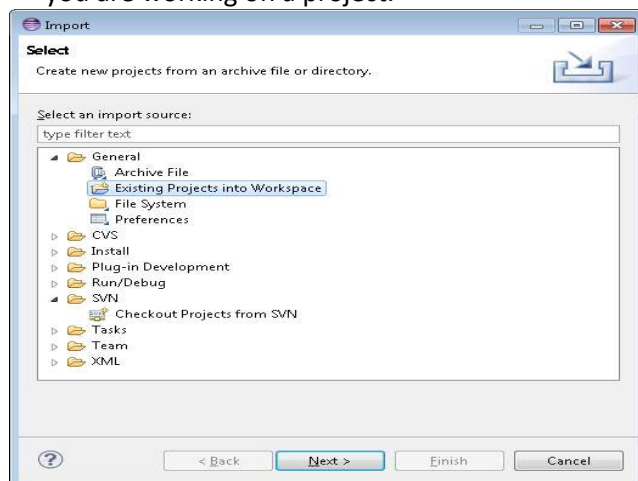
Select **version1** as the target version you want to upload your files to:



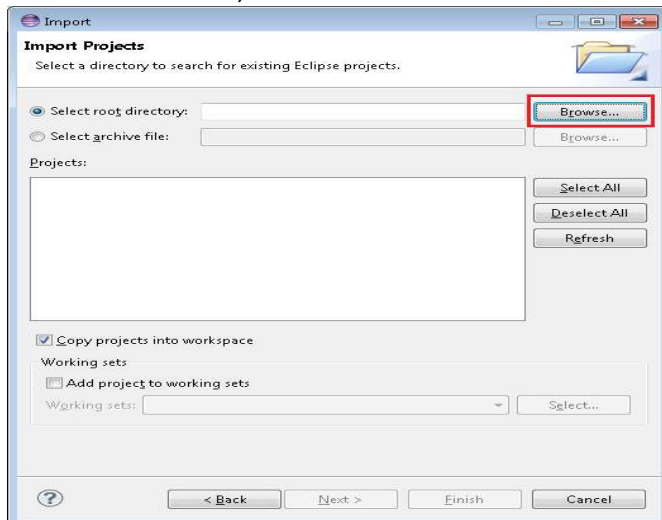
5. Click **Finish**.
Your connection project is now connected to your sandbox and will be used to upload any cartridge projects to that sandbox, as seen later in this module.

Import a project in Studio

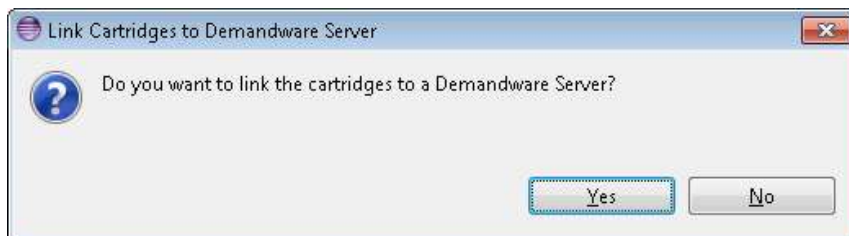
1. From within UX Studio, click on **File->Import...** an import window will open.
2. From the Import window, click to expand the **General** menu.
3. Click the **Existing Projects into Workspace** option. If you have an SVN server, you can import projects directly from a repository, which is the most common way to obtain cartridges when you are working on a project.



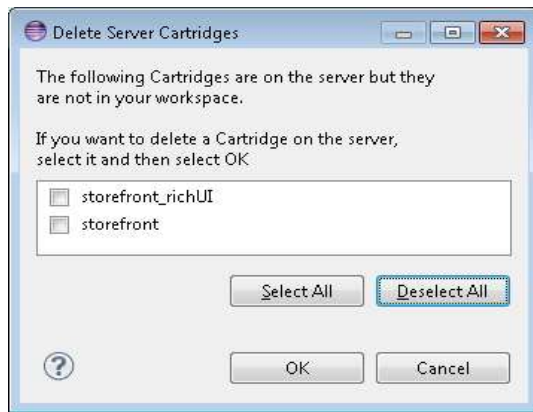
4. Click '**Next**'.
5. In the next window, click to '**Browse...**' button.



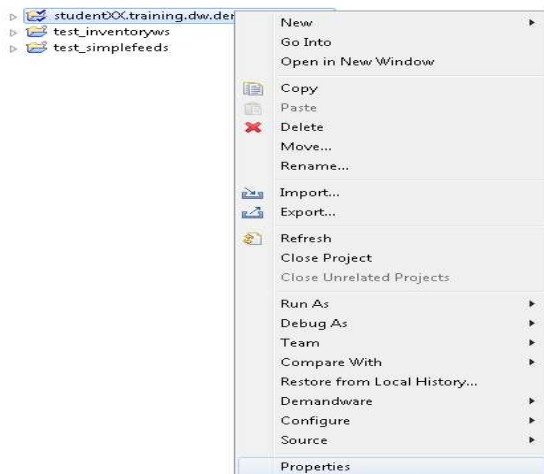
6. Locate the folder on your hard drive where cartridges are located. Your instructor will provide a zip file with all solution cartridges for you to install locally. Click **OK**.
7. Any cartridges in the folder structure (including subfolders) will be displayed in the **Projects** box. Click **Select All**:
8. Click '**Finish**'.



9. The next dialog allows you to select the specific cartridges you want uploaded to your server connection. Click **Select All**.
10. Click **OK** to upload the cartridges and finish the import process.
11. You might receive a dialog stating to delete projects on the server not matching the ones in your workspace. If you're the only one working on that instance e.g. it's your personal sandbox you might recognize the projects there. ?



12. If you import cartridges before you have an active server connection or somehow forgotten to link a cartridge to the server, do the following to ensure that cartridges will get uploaded correctly: right-click the server connection and select **Properties**:



13. Select **Project References** and then select every cartridge that you want uploaded to the server connection and Click ok.

Configuration - Metadata import

First step is to import system object definitions for the Signifyd attributes for Order and Site Preferences. These are provided with cartridge in metadata.xml file

Upload this file via Business manager into your site: 1. Click on button "Upload" in Administration > Site Development > Import & Export

Import & Export

Meta Data

[Import](#) and [export](#) your system meta data (i.e., system type extensions, custom object types, custom preference definitions).

[Import](#) [Export](#)

Geolocations

[Import](#) geolocations for a country.

[Import](#)

Import & Export Files

[Upload](#) and [download](#) your import and export files.

[Upload](#) [Download](#)

2. Choose your local file and again click "Upload"
3. And Click back button to return to Import page.
4. On the Meta Data section click on the 'Import' button

[Administration](#) > [Site Development](#) > [Import & Export](#) > Manage Import Files

Upload Import Files

Upload File: [Upload](#)

Import & Export

Meta Data

[Import](#) and [export](#) your system meta data (i.e., system type extensions, custom object types, custom preference definitions).

[Import](#) [Export](#)

Geolocations

[Import](#) geolocations for a country.

[Import](#)

Import & Export Files

[Upload](#) and [download](#) your import and export files.

[Upload](#) [Download](#)

5. Select the metadata.xml file that you just uploaded and click 'next' to go through import process.

System Type Extension Import - Select File

Step 1 of 3. Next Step: Validate Import File

The list below shows all uploaded import files. Please select the file that you want to import.

Select	Name	File Size	Last Modified
<input checked="" type="radio"/>	metadata.xml	261.45 KB	6/24/16 10:48:57 am

[Next >>](#) [Cancel](#)

After import – Preference Entry

You will now see a 'Signifyd Settings' attribute group in the site preference section. Merchant Tools > Site Preferences > Custom Site Preferences:

Custom Site Preference Groups

The list shows all custom site preference groups currently available. Click **Edit** to manage the custom preferences of a preference group.

ID	Name	Description	Preferences
Storefront Configs	Storefront Configurations		14 Edit
Signifyd Settings	Signifyd Settings		20 Edit

[<< Back](#)






You will now also be able to see the Signifyd attribute under an order by clicking on the 'Attributes' tab

[Merchant Tools](#) > [Ordering](#) > [Orders](#) > Order: 00007404(SiteGenesis)

General	Attributes	Payment	Notes	History
---------	-------------------	---------	-------	---------

Attributes for Order '00007404'

On this page you can edit the attributes of the order. Fields with a red asterisk (*) are mandatory. Click **Apply** to save changes. Click **Reset** to revert your changes.

Signifyd
 Signifyd Case ID: 531666416
 Signifyd Fraud Score: 438
 Signifyd Guarantee Disposition: declined (DECLINED)
 Signifyd Order URL: https://www.signifyd.com/cases/531666416
 Signifyd Retry Count: 1
Apply Reset

[<< Back to List](#)

Configuration – Service Framework Setup Import

Import the base Signifyd Service Framework configuration required by the Signifyd cartridge.

Step 1

In Business Manager go to Administration->Operations->Import Export and select 'upload' then browse to the *services.xml* file that is located in the meta folder included with the Signifyd cartridge.

[Administration](#) > [Operations](#) > Import & Export

Import & Export

Job Schedules

[Import](#) and [export](#) your job schedules.

Services

[Import](#) and [export](#) your services.

Import & Export Files

[Upload](#) and [download](#) your import and export files.

Step 2

Once the services file is uploaded click Import and chose *merge* to import the default Service Framework configuration.

Step 3

Once imported you will need to navigate to the Signifyd service configuration and make sure the credential set that is being used aligns with the correct SFCC instance (i.e. development credentials on sandboxes).

Log Name Prefix:

Communication Log Enabled: ☒

Profile:

Credentials:

Step 4

Navigate to the *credentials* tab and click to edit the credential sets. You will receive a test and a production API key from Signifyd. Be sure to enter the information provided by Signifyd for your particular implementation and environment.

[Administration](#) > [Operations](#) > [Services](#) > Service Credentials

Services Profiles **Credentials**

Service Credentials

Select All	Name	URL	User
<input type="checkbox"/>	signifyd.rest.case.development.cred	https://api.signifyd.com/v2/cases	signifyd
<input type="checkbox"/>	signifyd.rest.case.production.cred	https://api.signifyd.com/v2/cases	signifyd

3.1.5 Setup Job Schedules Configuration

Configuration – Job Schedules Setup Import

Import the base Signifyd Job Schedules configuration required by the Signifyd cartridge.

Step 1

In Business Manager go to Administration->Operations->Import Export and select 'upload' then browse to the *jobs.xml* file that is located in the meta folder included with the Signifyd cartridge.

[Administration](#) > [Operations](#) > Import & Export

Import & Export

Job Schedules

[Import](#) and [export](#) your job schedules.

Services

[Import](#) and [export](#) your services.

Import & Export Files

[Upload](#) and [download](#) your import and export files.

Step 2

Once the jobs file is uploaded click Import and chose *replace* to import the default Job Schedules configuration.

Step 3

In Business Manager go to Administration->Operations->Job Schedules. The Signifyd-CreateMissingOrders job will be displayed:

Administration / Operations / **Job Schedules** [New Job](#)

Search by IDs...

<input type="checkbox"/>	ID ^	Status	Last Run	Execution Scope	Resources	Priority	Enabled	Delete
<input type="checkbox"/>	Signifyd-CreateMissingOrders	OK	1/4/2018 7:30 am	SiteGenesis	-		✓	<input type="button" value="Delete"/>

☐ Auto-refresh

Step 4

Select Signifyd-CreateMissingOrders to enter the Job Schedule configuration. Configure your Job Schedule to run once, daily, or on any desired schedule. We recommend you schedule your jobs to run at least once a day.

Administration / Operations / Job Schedules /

Signifyd-CreateMissingOrders

General Schedule and History Resources Step Configurator Notification Failure Handling


☒ Enabled

Active

Trigger

Once

Date*

1/4/2018 9:50 am 

3.1.1 API Integration - SFRA Controllers

Modifications in System Controller

Enabling SFCC to send requests to Signifyd requires a modification to the system controller file: *controllers/CheckoutServices.js*

1. Add these two rows in PlaceOrder method, right before order is created:

```
var Signifyd = require('int_signifyd/cartridge/scripts/service/signifyd');
var orderSessionID = Signifyd.getOrderSessionId();
```

2. Add those two rows near the end of the same function, before returning response:

```
Signifyd.setOrderSessionId(order, orderSessionID);
Signifyd.Call(order);
```

The final code should look like this:

```
/* Signifyd Modification Start */
var Signifyd = require('int_signifyd/cartridge/scripts/service/signifyd');
var orderSessionID = Signifyd.getOrderSessionId();
/* Signifyd Modification End */

// Creates a new order.
var order = COHelpers.createOrder(currentBasket);

...

// Reset usingMultiShip after successful Order placement
req.session.privacyCache.set('usingMultiShipping', false);
```



```
/* Signifyd Modification Start */
Signifyd.setOrderSessionId(order, orderSessionID);
Signifyd.Call(order);
/* Signifyd Modification End */
```

3.1.1 API Integration - SFRA Templates

Modifications to Core Template

In order to insert the fingerprint JavaScript snippet in the HTML <head> element, modify the template *default/common/htmlHead.isml*.

Add the following lines in the end of the file:

```
<isif
condition="${dw.system.Site.getCurrent().getCustomPreferenceValue('Signify
dEnableCartridge')}">
  <isinclude url="${URLUtils.url('Signifyd-IncludeFingerprint')}" />
</isif>
```

3.1.2 API Integration - SiteGenesis Controllers

Modifications in System Controller

Enabling SFCC to send requests to Signifyd requires a modification to the system controller file: *controllers/COSummary.js*

1. Add these two rows in the beginning of the *submit()* method:

```
var Signifyd = require('int_signifyd/cartridge/scripts/service/signifyd');
var orderSessionID = Signifyd.getOrderSessionId();
```

2. Add those two rows near the end of the same function method:

```
Signifyd.setOrderSessionId(placeOrderResult.Order, orderSessionID);
Signifyd.Call(placeOrderResult.Order);
```

Those two last lines (number 2) should go within last 'else if' statement.

```
else if (placeOrderResult.order_created) {
...<Insert code here>...
}
```

□

The final code should look something like this:

```

function submit() {
    // Calls the COPlaceOrder controller that does the place order action and
    // COPlaceOrder returns a JSON object with an order_created key and a bool
    // If the order creation failed, it returns a JSON object with an error ke

    /* Signifyd Modification Start */
    var Signifyd = require('int_signifyd/cartridge/scripts/service/signifyd');
    var orderSessionID = Signifyd.getOrderSessionId();
    /* Signifyd Modification End */

    var placeOrderResult = app.getController('COPlaceOrder').Start();
    if (placeOrderResult.error) {
        start({
            PlaceOrderError: placeOrderResult.PlaceOrderError
        });
    } else if (placeOrderResult.order_created) {
        /* Signifyd Modification Start */
        Signifyd.setOrderSessionId(placeOrderResult.Order, orderSessionID);
        Signifyd.Call(placeOrderResult.Order);
        /* Signifyd Modification End */

        showConfirmation(placeOrderResult.Order);
    }
}

```

3.1.3 API Integration - SiteGenesis Templates

Modifications to Core Template

In order to insert the fingerprint JavaScript snippet in the HTML <head> element, modify the template *default/components/header/htmlhead.isml*.

Add the following lines in the end of the file (around line 78):

```

<isif
condition="${dw.system.Site.getCurrent().getCustomPreferenceValue('Signify
dEnableCartridge'))}">
    <isinclude template="signifyd_device_fingerprint" />
</isif>

```

The result should look like the following:

```

74
75 <iscomment>Gather device-aware scripts</iscomment>
76 <isinclude url="${URLUtils.url('Home-SetLayout')}" />
77
78 <!-- Signifyd Modification Start -->
79 <isif condition="${dw.system.Site.getCurrent().getCustomPreferenceValue('SignifydEnableCartridge'))}">
80     <isinclude template="signifyd_device_fingerprint" />
81 </isif>
82 <!-- Signifyd Modification End -->
83

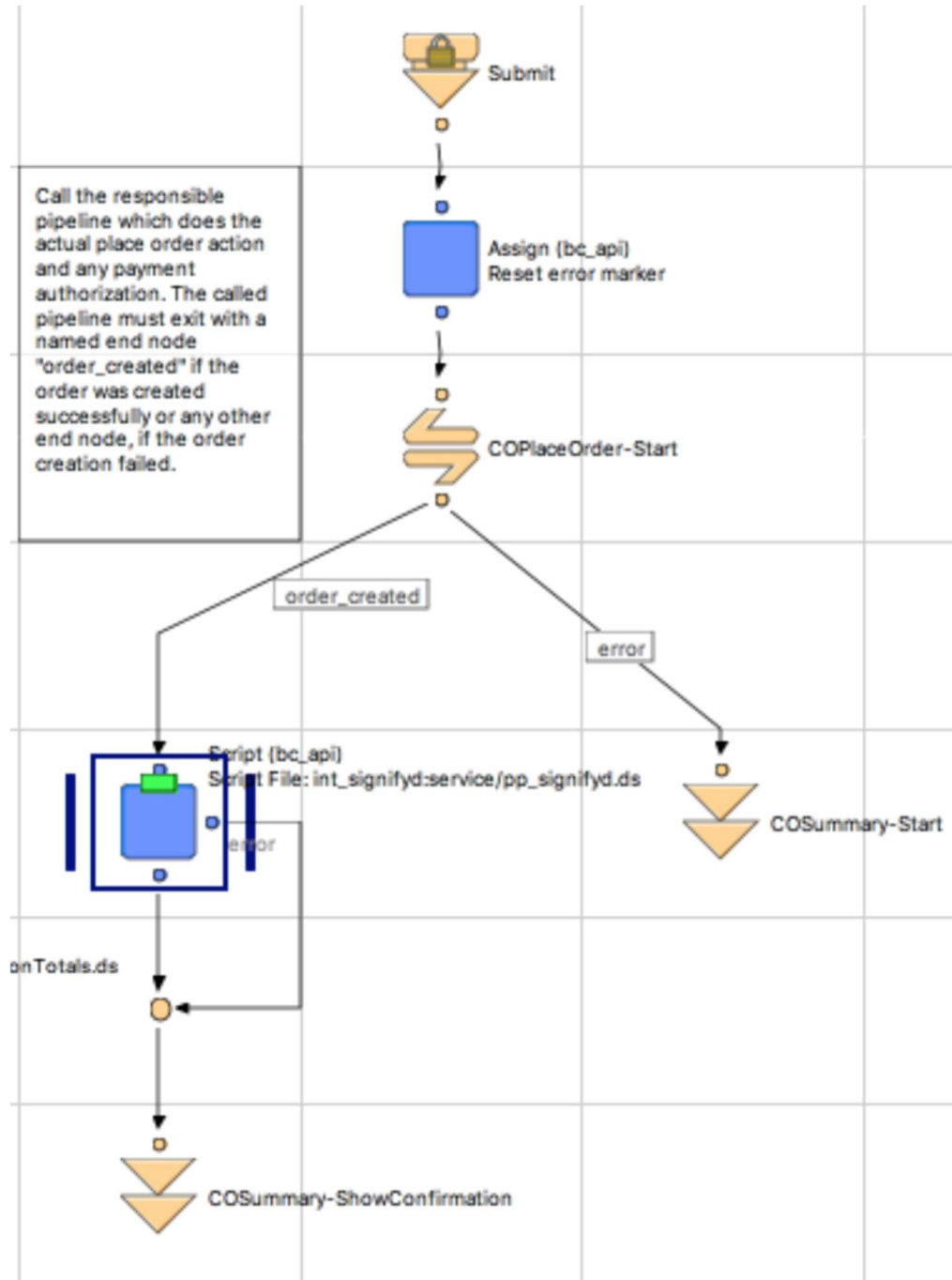
```

Modifications to System Pipeline

Another way to make SFCC send requests to Signifyd is modification to system pipeline for pipeline based site implementations. Since the pipeline based approach could eventually be deprecated by Salesforce Commerce Cloud, the controller based approach is recommended

Pipeline name is: *pipelines/ COSummary.xml*

Add a script *pp_signifyd.ds* to the end of pipeline Submit as this shown on below image:



Input parameter for this script must be a current Order.

<div> <div>Properties</div> <div>Problems</div> <div>Console</div> </div>	
Pipelet Node - Script (bc_api)	
Property	Value
▼ Configuration	
OnError	PIPELET_ERROR
ScriptFile	int_signifyd:service/pp_signifyd.ds
Timeout	
Transactional	false
▼ Dictionary Input	
Order	Order
▼ Dictionary Output	
ScriptLog	output
▼ Properties	
Custom Label	
Description	

3.1.5 API Integration - Customized order information

The Signifyd fraud service relies on transaction data passed back from the payment gateway. If a custom payment gateway is implemented, make sure to pass required information to Signifyd by modifying the *signifyd.ds* file as shown below:

The values for AVS and CVV Response Code fields MUST map to standard response codes. See [this document](#) for valid response codes

```
135 * Converts an Order into JSON format
136 * acceptable on Stringifyd side
137 *
138 * @param {order} - Order that just have been placed.
139 * @return {result} - json objects describes Order.
140 */
141 function getParams(order: Order) {
142     var cal : Calendar = new Calendar(order.creationDate);
143     return {
144         purchase: {
145             "browserIpAddress": order.remoteHost,
146             "orderId": order.currentOrderNo,
147             "createdAt": StringUtils.formatCalendar(cal, "yyyy-MM-dd'T'HH:mm:ssZ"),
148             "paymentGateway": order.paymentTransaction.paymentProcessor.ID,
149             "paymentMethod": order.paymentTransaction.paymentInstrument.paymentMethod,
150             "transactionId": order.paymentTransaction.transactionID,
151             "currency": order.paymentTransaction.amount.currencyCode,
152             "avsResponseCode": "Y",
153             "cvvResponseCode": "M",
154             "orderChannel": "WEB",
155             "totalPrice": order.getTotalGrossPrice().value,
156             "products": getProducts(order.productLineItems),
157             "shipments": getShipments(order.shipments),
158         },
159         recipient: getRecipient(order.shipments[0], order.customerEmail),
160         card: {
161             "cardHolderName": order.paymentTransaction.paymentInstrument.creditCardHolder,
162             "bin": "",
163             "last4": order.paymentTransaction.paymentInstrument.creditCardNumberLastDigits,
164             "expiryMonth": order.paymentTransaction.paymentInstrument.creditCardExpirationMonth,
165             "expiryYear": order.paymentTransaction.paymentInstrument.creditCardExpirationYear,
166             "billingAddress": {
167                 "streetAddress": order.billingAddress.address1,
168                 "unit": order.billingAddress.address2,
169                 "city": order.billingAddress.city,
```

3.2 Other Non-Transactional Operations

You can enable logs for all operations with the Signifyd API for debugging. But don't forget to disable it after debugging to prevent uncontrolled growth of log files.

Go to [Administration](#) → [Operation](#) → [Custom Log Settings](#). You can enable specific levels of logging for Signifyd. Each level brings a different or higher level of detail in the logs

Custom Log Filters

Active	Log Category	Log Level	
	<input type="text" value="Enter a log category..."/>	<div>WARN</div>	<div>Add</div>
	root	<div>WARN</div>	
<input checked="" type="checkbox"/>	signifyd	<div>OFF</div> <div>✓ DEBUG</div> <div>INFO</div> <div>WARN</div> <div>ERROR</div> <div>FATAL</div>	<div></div>

Custom Log Targets

Email: Messages with log level FATAL can be sent to email recipients.

4. Configuration Guide

4.1 Setup

The Signifyd cartridge has a configuration setting to hold the order or immediately export depending on Signifyd's guarantee decision. The site preference setting is called **SignifydHoldOrderEnable** and if set to true this indicates that the Salesforce Commerce Cloud order is held until the webhook listener is called and indicate that the order is approved. This is accomplished by marking order as 'Not Exported' to prevent it from exporting until the webhook listener updates the order to 'Ready for Export'.

See below for screenshot of the settings:

Merchant Tools / Site Preferences / Custom Site Preference Groups /

Signifyd Settings

Instance Type
Sandbox

Search by IDs...

Name	Value	Default Value
Export Approved Orders Only	Yes	Yes
When an order is approved for guarantee update the Export St...		
Signifyd API Key		
Enable Signifyd Cartridge	Yes	Yes
When selected the Signifyd integration will be enabled otherw...		
Signifyd Max Retry Count		3
Maximum number of times the Signifyd Job will try to call the ...		

4.1.1 Configuration on Signifyd side

All Signifyd cases created during SFCC order creation can be viewed here:

<https://app.signifyd.com/cases>

API key, Profile and all other settings can be set up on this page:

<https://app.signifyd.com/settings>

The webhooks for Guarantee Completion, Case Creation, Case Rescore, Case Review and Claim Review should be configured in <https://app.signifyd.com/settings/notifications> in order to update SFCC with the latest status from Signifyd.

Example URL: https://yourStoreUrl.com/on/demandware.store/Sites-SiteGenesis-Site/en_US/Signifyd-Callback.

Or you can add a URL Rule like below:

[Merchant Tools](#) > [Site URLs](#) > [URL Rules](#) > Pipeline URLs

General Settings Catalog URLs Content URLs **Pipeline URLs** URL Search Refinements

Pipeline URLs

Use the table below to define one or multiple aliases for any pipeline used in your storefront.

Pipeline URL Settings

Append Trailing Slash to Pipeline URLs: ☐ Append Trailing Slash to Pipeline URLs

Perform Automatic Redirect: ☐ Enable this to automatically redirect requests to the desired trailing slash configuration.

Pipeline Aliases

Alias or Pipeline: Locale:

Select All	Alias	Pipeline
<input type="checkbox"/>	<input type="text" value="signifydcallback"/>	resolves To <input type="text" value="Signifyd-Callback"/>
New Alias: <input type="text"/>		resolves To <input type="text"/>

And add e.g. <https://yourStoreURL.com/s/SiteGenesis/signifydcallback> to the Webhook Addresses in <https://app.signifyd.com/settings/notifications>

4.2 External Interfaces List

Action	API Call	Method
Case Creation	https://www.signifyd.com/docs/api/#/reference/cases/create-a-case	POST
Guarantee submission	https://www.signifyd.com/docs/api/#/reference/guarantees	POST
Webhook interface	https://www.signifyd.com/docs/api/#/reference/webhooks	POST

4.3 Testing

Test Case: Order Placement with Site Preference 'Signifyd Hold Order' Set to "Yes"

Status: Order Approved

Expected Result:

1. A case will be created on Signifyd site at <https://app.signifyd.com/cases>. The case ID will be saved on the order.
2. The order details will be sent from SFCC to Signifyd and should be visible in the Signifyd Admin Panel.
3. Order Status will be 'Open' in SFCC
4. Once webhook marks the order data 'guaranteeDisposition: "APPROVED"' the order will be updated to 'ready for export' in SFCC.
5. The following order attributes will be updated:
 - 'signifydFraudScore'
 - 'signifydGuaranteeDisposition'
 - 'signifydOrderURL'

Status: Order Declined

Expected Result:

1. A case will be created on Signifyd site at <https://app.signifyd.com/cases>. The case ID will be saved on the order.
2. The order details will be sent from SFCC to Signifyd and should be visible in the Signifyd Admin Panel.
3. Order Status will be 'Open' in SFCC
4. Once webhook marks the order data 'guaranteeDisposition: "DECLINED"' the order will stay on 'Open' status in SFCC.
5. The following order attributes will be updated:

'signifydFraudScore'
'signifydGaurenteeDisposition'
'signifydOrderURL'

Test Case: Order Placement with Site Preference 'Signifyd Hold Order' Set to "No"

Status: Order Approved/Order Declined

Expected Result:

1. A case will be created on Signifyd site at <https://app.signifyd.com/cases>. The case ID will be saved on the order.
2. The order details will be sent from SFCC to Signifyd and should be visible in the Signifyd Admin Panel.
3. Order Status will be 'Ready To Export' in SFCC
4. The following order attributes will be updated:
'signifydFraudScore'
'signifydGaurenteeDisposition'
'signifydOrderURL'

Test Case: Retry job

#:	Step actions:	Expected Results:
1	BM>Merchant Tools>Site Preferences>Custom Site Preference Groups>Signifyd Settings - Set "Enable Signifyd Cartridge:" to Yes . - Enter invalid API key	The configuration should be saved.
2	Place an order.	The order should be placed.
3	BM>Merchant Tools>Ordering>Orders Check order attributes	Signifyd Case ID for this order is empty
4	BM>Merchant Tools>Site Preferences>Custom Site Preference Groups > Signifyd Settings - Enter valid API key	The configuration should be saved.
5	BM>Administration>Operations>JobSchedules Run Signifyd-CreateMissingOrders.	The job should run and a Case ID should be generated for the order.
6	BM > Merchant Tools > Ordering > Orders Check order attributes	The Signifyd Case ID was set

5. Operations, Maintenance

5.1 Availability

Availability/Uptime is 24/7

5.2 Support

For implementation questions or issues please contact your assigned Customer Success Manager. For general support questions or issues [contact Support](#).

6. Release History

Version	Date	Changes
16.1.0	08/15/2015	Initial release
18.1.0	04/01/2018	Added Job Schedule configuration and template modification
19.2.0	02/28/2019	Added modifications to support SFRA