**Worldpay SFRA Integration**

Version 19.2.0

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# SUMMARY

This document provides technical overview and implementation details for each Worldpay service integrated within SFCC platform with SFRA. The Worldpay cartridges (int\_worldpay\_sfra, int\_worldpay\_csc and int\_worldpay\_core) extends the functionality of reference eCommerce Storefront, enabling synchronous and asynchronous access to Worldpay payment transaction services listed below.

* Payment Methods:

1. Sofort
2. IDeal
3. Qiwi
4. Alipay
5. Mistercash
6. Yandex
7. Boleto
8. Paypal
9. China Union Pay
10. Enets
11. Giropay
12. Poli
13. Poli NZ
14. Konbini
15. Przelewy24
16. CashU
17. Sepa DD
18. Klarna
19. 3D/Non 3D Credit Cards (XML Direct with client side encryption and tokenzation features)
20. 3D/Non 3D Credit Cards (XML Redirect with tokenzation and hosted payment pages lightbox/iframe feature)
21. WeChat Pay
22. MOTO
23. Google Pay

* Order Notification Job
* Order Enquiry Job
* Order Cancel Or Refund Job for mac Issue identified orders
* Order CleanUp Batch Job
* APM Look Up Service
* Multiple Merchant ID support
* Statement Narrative support
* Brazil Integration

# Change Log

|  |  |  |
| --- | --- | --- |
| **Release Version** | **Date** | **Description** |
| 19.2.0 | August 31, 2019 | * Best Practices * Automation Test Suite * US Domestic Acquiring (Prime Routing) * Tokenization (My Account-Add Card/Delete Card) * Stored Credential Improved Flow * 3ds2 * Security Fixes * CodeCept JS * Previous Releases Feedbacks |
| 19.1.0 | Mar 20, 2019 | * Google Pay * Stored Credentials * Release 18.3.0 Feedback |
| 18.3.0 | Feb 18, 2019 | * WeChat implementation * Alternative payment method * Merchant token * MOTO payment method |
| 18.2.0 | Jul 16, 2018 | * Complete SFRA implementation |

# IMPLEMENTATION GUIDE

## INSTALLATION

### Adding the Cartridges in Salesforce Commerce Cloud Studio

Inside cartridges directory in **int\_worldpay\_sfra** folder, open package.json and ensure the base path mentioned is correctly resolved (please provide the correct path to app\_storefront\_base), open the command prompt and run ‘npm install’ (assuming node.js (8.9.4 and above) is installed). Run the “npm run compile:js” followed by “npm run compile:scss”. Create the dw.json file(

{

"hostname": "your-sandbox-hostname.demandware.net",

"username": "yourlogin",

"password": "yourpwd",

"code-version": "version\_to\_upload\_to"

}

) at the location.Upload the code to the environment using the command ‘npm run uploadCartridge’. Please go to the **int\_worldpay\_sfra:int\_worldpay\_core:int\_worldpay\_csc** cartridge and upload the code by configuring the various parameters in the sample dw.json.

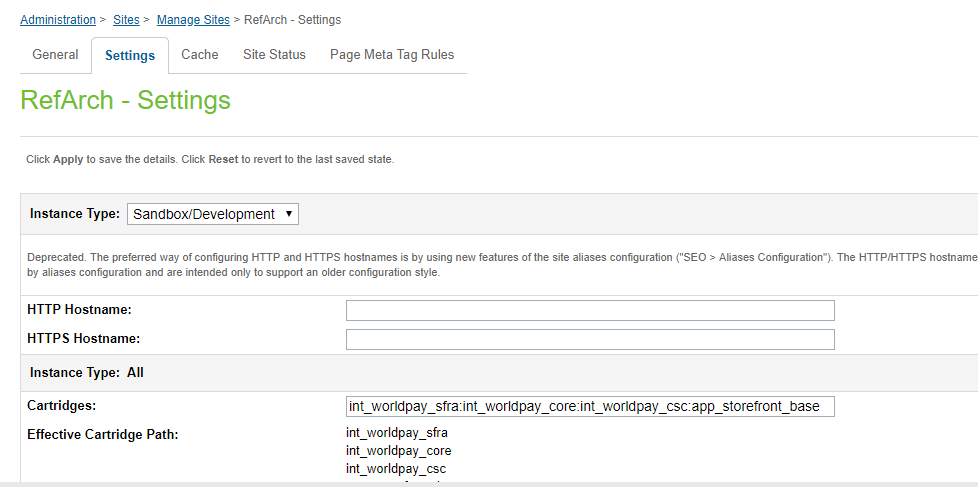
### IP Address

Please provide outgoing IP of your client in order to white list your IP otherwise some of the attempts to make payment will be marked as fraud.

### Activating the Cartridges in Business Manager

Before the Worldpay functionality can become available to Reference Architecture, the cartridges needs to be added to the cartridge path of the Site in question. In order to do this, follow the following instructions:

1. Log into Business Manager
2. Navigate to *Administration 🡪 Sites 🡪 Manage Sites*.
3. Click on the site name and on the next page go to the *Settings* tab.
4. In the textbox *Cartridges* add “**int\_worldpay\_sfra:int\_worldpay\_core: int\_worldpay\_csc:app\_storefront\_base**”.
5. Click *Apply*.
6. To activate the cartridge for the Sandbox instances repeat steps **4** and **5** after selecting the appropriate instance from the *Instance Type* dropdown menu.
7. Repeat steps **3** to **6** for each site that is to use Worldpay.
8. To run the Job in worldpay cartridge,Navigate to *Administration* 🡪 *Sites* 🡪 *Manage Sites*.
9. Go to “Manage the **Business Manager** site”
10. In the textbox *Cartridges* add to the start: “**int\_worldpay\_sfra:int\_worldpay\_core: int\_worldpay\_csc:app\_storefront\_base**”.



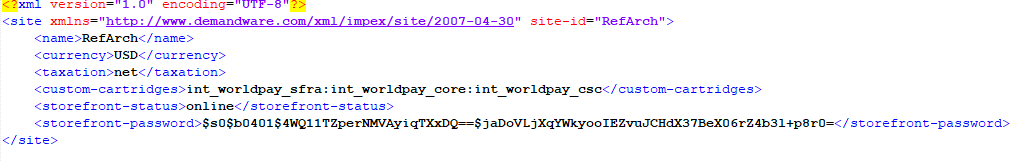
## CONFIGURATION

This chapter will guide the user to configure the cartridge in Business Manager.

### Importing Meta Data with a single Site Import

All import files are in the import folder (metadata) within cartridge installation pack. To import all necessary Worldpay settings,

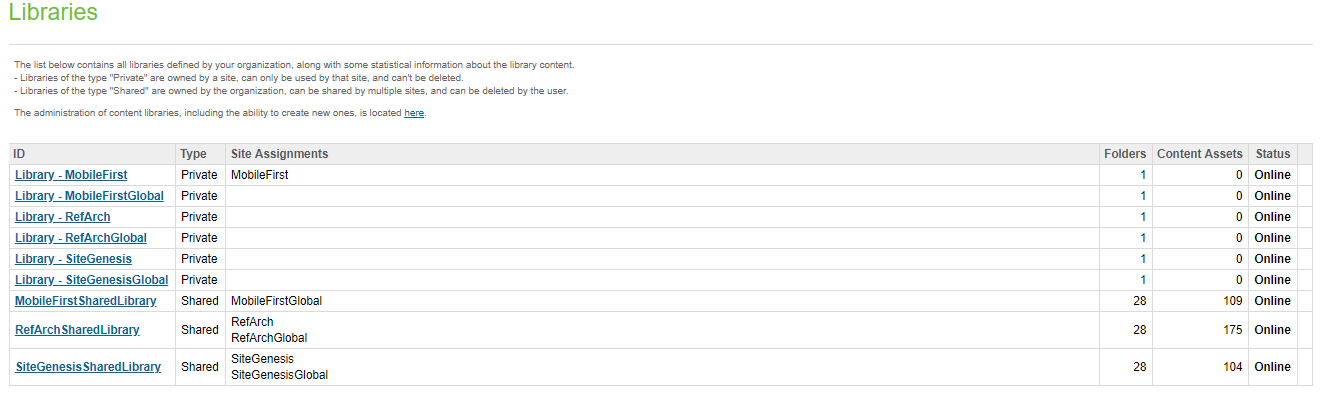
* + Open the metadata folder from the repository structure 🡪 Go to sites folder 🡪 change the name of the site according to the site id in your sandbox on which you want to perform the site import (eg. If your site id is worldpayDemo, change the name from RefArch to worldpayDemo). 🡪 Open site.xml and change the references of RefArch to your site id (in this case worldpayDemo)



* + Open the metadata folder from the repository structure 🡪 open jobs.xml 🡪 change the references of RefArch to your site id (in this case worldpayDemo)
  + Open the metadata folder from the repository structure 🡪 open jobs.xml 🡪 change the references of RefArch to your site id (in this case worldpayDemo)
  + Ensure content assets in the import has appropriate library Id of the site where XML to be imported

For this, In the business manger

* + - Go to **Merchant Tools > Content > Libraries**
    - Checkthe library ID assignment to your site (here for RefArch the library assignment is RefArchSharedLibrary)



* + - Open the metadata folder from the repository structure **>** open libraries **>** change the folder name according to the library id to which your site is assigned (Here in the BM we saw that for RefArch, assigned Library is RefArchSharedLibrary) > open library.xml and change the reference of RefArchSharedLibrary, if needed (according to your site assignment)
  + ZIP the metadata folder from the repository structure,
  + Log in to the Business Manager and navigate to *Administration* 🡪 *Site Development* 🡪 *Site Import & Export*, and upload the ***zipped*** folder (Zipped Metadata Folder) using the upload button and, finally go back and use the import button to import the file.
  + After a successful import, the entire configuration requirements needed for worldpay is available to you is according to your Worldpay account data.
  + Also, verify the **Order level attributes** in BM (Site -> Ordering -> Order) open any order and navigate to the Attributes tab. It should be as below: -

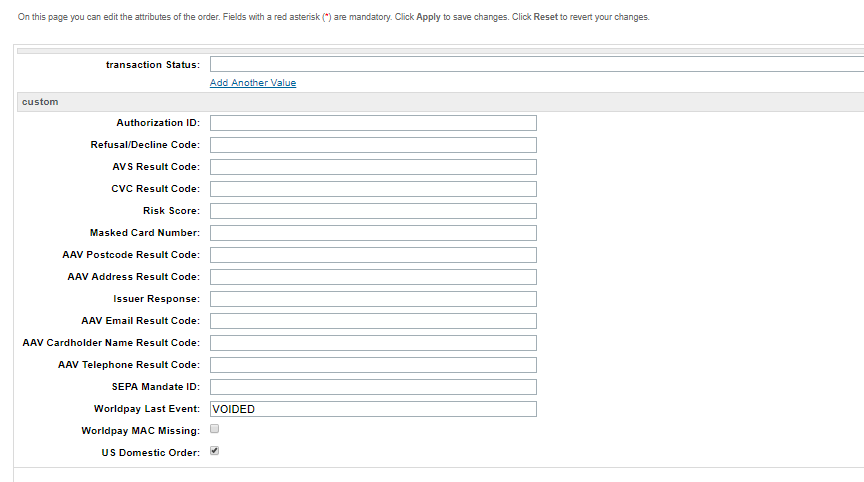
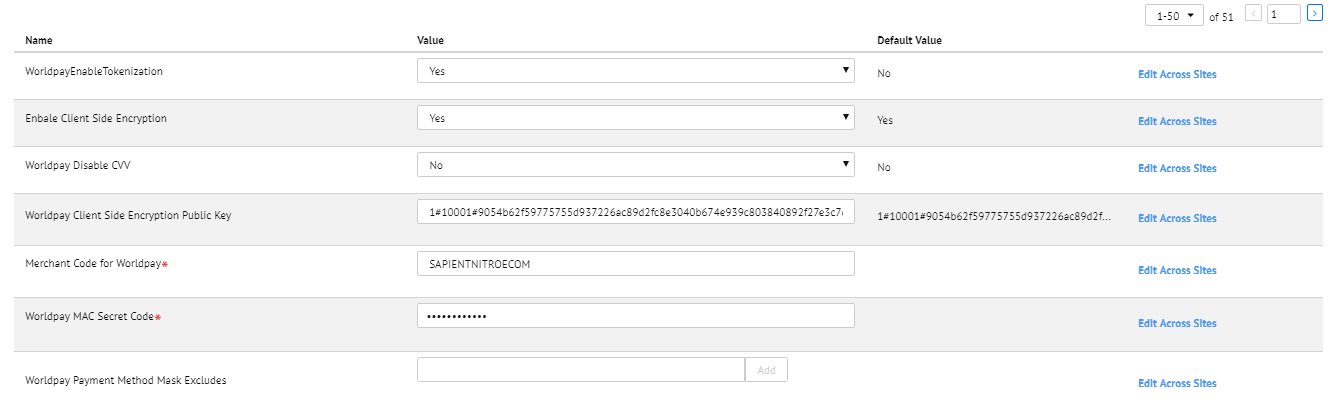
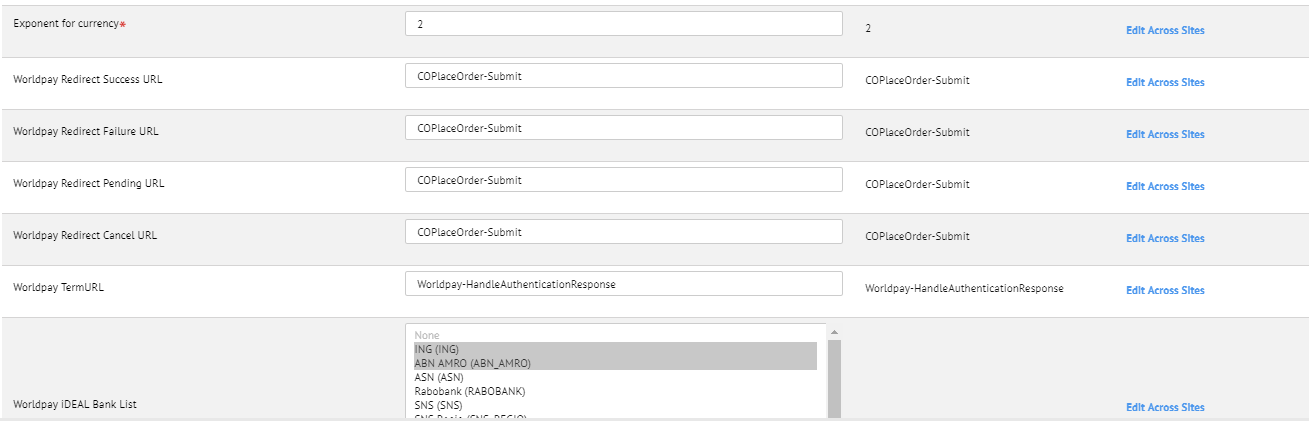
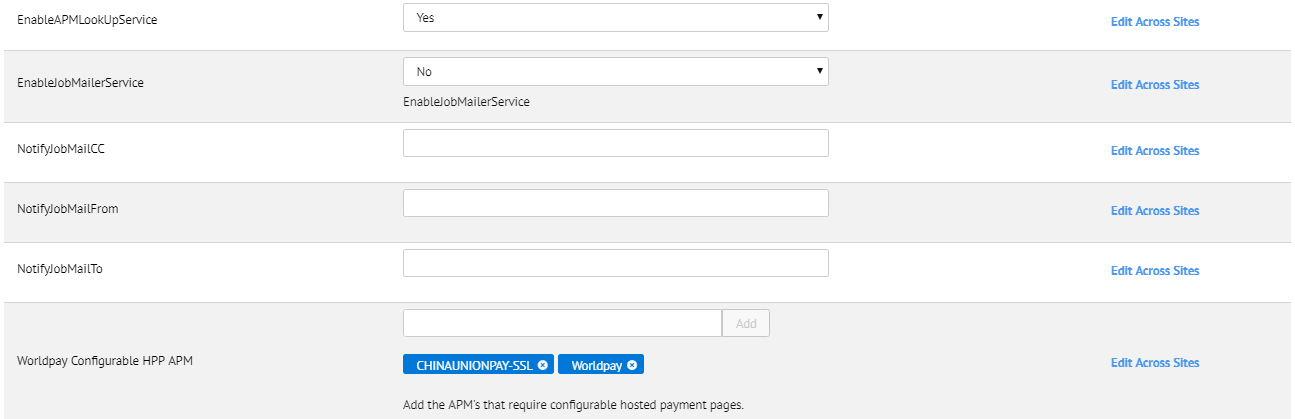


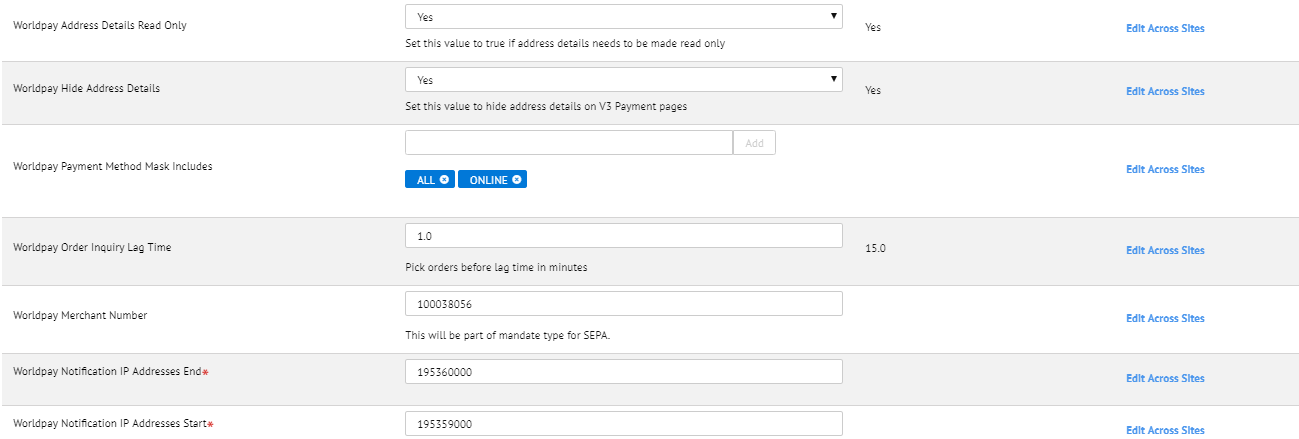
Fig: 2.1

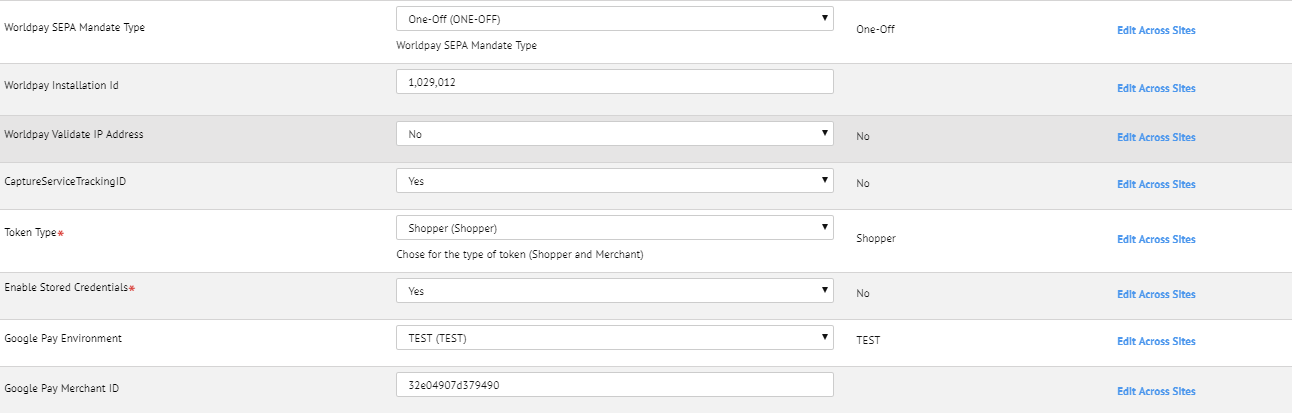
**Custom Preferences Screenshot**

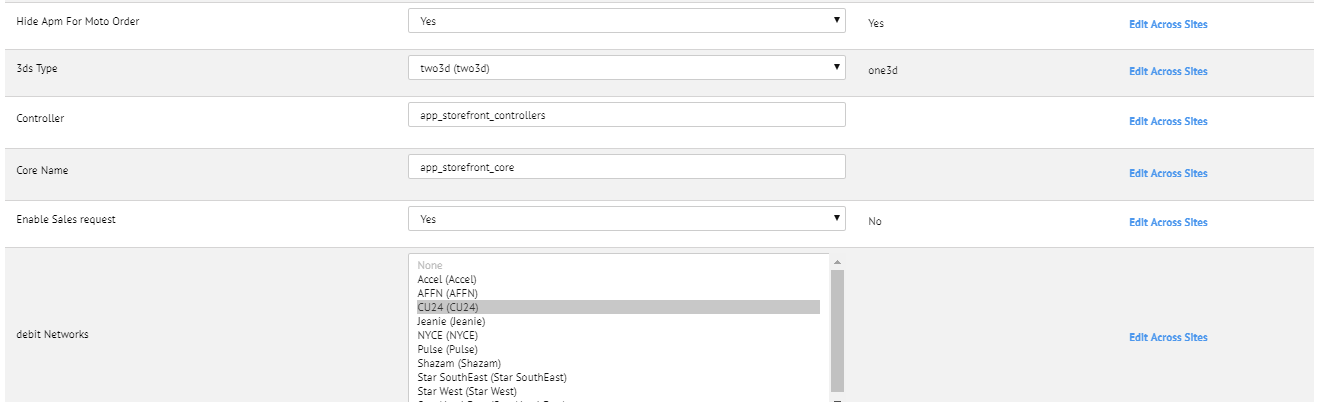












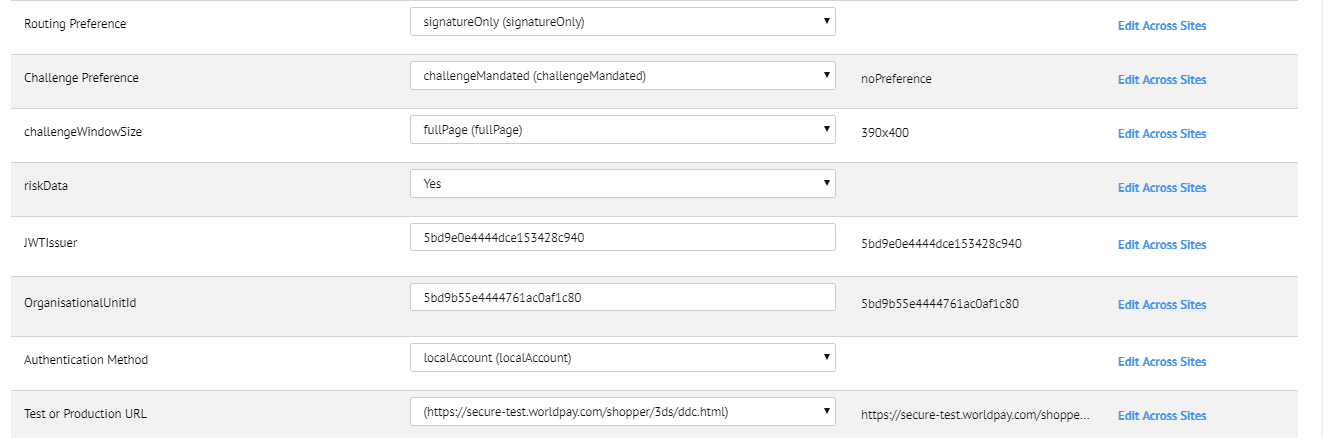


Fig: 2.2

### Managing Worldpay Custom Site Preferences

In Business Manager, navigate to the *Site🡪* Merchant Tools🡪 *Site Preferences* 🡪 *Custom Preferences*. A custom site preference group with the ID Worldpay is available. Please select it and edit the attributes according to your Worldpay account data and the data shown in figure 2.2. In addition to the ones supplied by Worldpay fill out the following properties with the values listed against them:

* *Worldpay Redirect SuccessURL: COPlaceOrder-Submit*
* *Worldpay Redirect PendingURL: COPlaceOrder-Submit*
* *Worldpay Redirect FailureURL: COPlaceOrder-Submit*
* *Worldpay Redirect CancelURL: COPlaceOrder-Submit*
* *Worldpay TermURL: Worldpay-HandleAuthenticationResponse*

\*\* The fields highlighted in blue in the below table are mandatory fields

|  |  |  |
| --- | --- | --- |
| **Site Preference** | **Description** | **Default Values** |
| **Merchant Code for Worldpay** | This field represents the specific Merchant code value. | Merchant Specific - Provided by Worldpay |
| **Worldpay MAC Secret Code** | The field represents the MAC secret code that configurable in Worldpay Merchant Interface. | Merchant Specific |
| **Worldpay Payment Method Mask Includes** | This field represents all the Cards and APM’s supported and will be shown on Hosted Payment Page. | Merchant Specific - Add the Cards /APMs supported on Hosted Payment Pages.  (Refer to Appendix A for values) |
| **Worldpay Payment Method Mask Excludes** | This field represents all the Cards and APM’s that are needs to be excluded and will not be shown on Hosted Payment Page. | Merchant Specific |
| **Exponent for currency** | This field represents the decimal places supported in the Order Amount. | Merchant Specific  (Default Value : 2) |
| **Worldpay Redirect Success URL** | This field represents the Success URL, that the user will be redirected to incase of a successful transaction in APM’s or Credit Card Redirect. | Default Value : COPlaceOrder-Submit |
| **Worldpay Redirect Failure URL** | This field represents the Failure URL, that the user will be redirected to incase of a Failure transaction in APM’s or Credit Card Redirect. | Default Value : COPlaceOrder-Submit |
| **Worldpay Redirect Pending URL** | This field represents the Pending URL, that the user will be redirected to incase of a Pending or Pending-Open transaction in APM’s or Credit Card Redirect. | Default Value : COPlaceOrder-Submit |
| **Worldpay Redirect Cancel URL** | This field represents the Cancel URL, that the user will be redirected to incase of a cancelled transaction in APM’s or Credit Card Redirect. | Default Value : COPlaceOrder-Submit |
| **Worldpay TermURL** | This field represents the Term URL on which the user will be redirected in case of 3D secure. | Worldpay-HandleAuthenticationResponse |
| **Worldpay iDEAL Bank List** | This field represents the Bank’s supported for iDEAL APM. The merchant can select the Banks that needs to be displayed on the Merchant Site. | Merchant Specific - Select the ones to be supported. |
| **Worldpay Installation Id** | This field represents the installation ID provided by Worldpay, it will determine the look and feel of the Hosted Payment Pages. | Merchant Specific - Provided by Worldpay |
| **Worldpay Address Details Read Only** | This field is set to true if address details needs to be made read only | Merchant Specific  (Default Value : true) |
| **Worldpay Hide Address Details** | This field is set to true to hide address details on V3 Payment pages | Merchant Specific  (Default Value : true) |
| **EnableAPMLookUpService** | This field can be used to Turn On/Off the Look Up service, based upon the Merchant requirement. | Merchant Specific |
| **EnableJobMailerService** | This field can be used to Turn On/Off the Email Service. The Emails are triggered in-case the cartridge logic fails to handle the Order Notification/Enquiry and update its status in Order transaction field. | Merchant Specific |
| **NotifyJobMailCC** | This field represents the Email address of the people to kept in CC. | Merchant Specific: Multiple Emails can be added separated by semicolon. |
| **NotifyJobMailFrom** | This field represents the Email address of the people to be in From. | Merchant Specific: Multiple Emails can be added separated by semicolon. |
| **NotifyJobMailTo** | This field represents the Email address of the people to be in To. | Merchant Specific: Multiple Emails can be added separated by semicolon. |
| **WorldpayEnable**  **Tokenization** | This field is set to true if merchant wants to enable tokenization | Merchant Specific(Default value : false) |
| **Worldpay Disable CVV** | This field is set to true if merchant want to disable CVV check for Saved Card with token and new card.  We are suppressing the cvv field in the request of the order placed with saved card having token and new card. | Merchant Specific(Default value : false) |
| **Enable Client Side Encryption** | This field is set to true if merchant wants to enable Client Side Encryption | Merchant Specific(Default value : false) |
| **Worldpay Client Side Encryption Public Key** | This field represents the public key provided by Worldpay, used to calculate mac value of an order | Merchant Specific |
| **Worldpay Order Inquiry Lag Time** | This field represents the maximum time(in minutes) for which orders to be look-up in Worldpay for Order Enquiry or order cancel/refund Job | Merchant Specific(Default value : 15) |
| **Worldpay Configurable HPP APM** | This field represents the APM’s for which the site supports configurable Hosted Payment Pages (Look & Feel configuration). | Merchant Specific - Add the APM's that support configurable Hosted Payment Pages.  Ensure that the **Worldpay** **InstallationID** set if some value is added to this Preference. |
| **Enable Card Selection** | This field represents the Merchants choice to enable /disable Card selection on the Site. | Merchant Specific: Enable /Disable Card selection on the Site. |
| **Worldpay Merchant Number** | This field represents a Merchant specific number provided by Worldpay; this is sent as a part of request for SEPA. | Merchant Specific - Provided by Worldpay |
| **Worldpay SEPA Mandate Type** | This field represents the Mandate type to be sent in the SEPA request. (Default value ONE-OFF) | Merchant Specific – This represents the mandate type to be set for SEPA request. The merchant can choose to set it either as ONE-OFF or RECURRING. |
| **Worldpay Notification IP Addresses End** | This field represents the Worldpay IP Address range which send notification, last IP Address in range | Merchant Specific - Provided by Worldpay |
| **Worldpay Notification IP Addresses Start** | This field represents the Worldpay IP Address range which send notification, first IP Address in range | Merchant Specific - Provided by Worldpay |
| **Token Type** | This field represents the type of token that merchant wants to send when there is token request. | Default value : Shopper |
| **Enable Stored Credentials** | This field is set to true to comply with scheme mandates for storing (and subsequently using) card payment credentials for cardholder and merchant-initiated transactions. | Default value : No |
| **Controller** | Name of the controller cartridge | Merchant Specific |
| **Core Name** | Name of the core cartridge | Merchant Specific |
| **Worldpay validate IP Address** | This field is set to true if merchant want to validate IP address | Merchant Specific(Default value : false) |
| **CaptureServiceTrackingID** | This field is set to true if merchant want to Validates the order id and token upon match it will proceed for capture service initiation with tracking ID | Merchant Specific(Default value : false) |
| **3ds Type** | This is type of 3ds version you want to chose | Default value : one3d (3ds1) |
| **Hide Apm For Moto Orde** | This toggle facilitates the admin to hide/unhide the available payment methods in the CSC area. Since this is particular to the MOTO orders, only credit card is applicable. | Default value : Yes |
| **Google Pay Environment** | Google Pay is supported in the Worldpay Sandbox. Please use the TEST parameter for any test transactions and the PRODUCTION parameter for production transactions. | Mechant Specific (Default value : TEST) |
| **Google Pay Merchant ID** | The merchant ID is specific to the environment we are using for transactions. This will be provided by worldpay. | Merchant Specific |
| **Enable Sales request** | This toggle enables prime routing. | Merchant Specific (Default value : No) |
| **debit Networks** | This toggle lets the merchant chose the debit network to be used to process the transaction | Merchant Specific |
| **Routing Preference** | This field specifies the Routing Preference | Merchant Specific |
| **Challenge Preference** | Possible Values:   * noPreference - You have no preference whether a challenge should be performed. This is the default. * noChallengeRequested - You prefer that no challenge should be performed. * challengeRequested - You prefer that a challenge should be performed. * challengeMandated - There are local or regional mandates that mean that a challenge must be performed.   Note: The interpretation of this field will vary from issuer to issuer, so Worldpay cannot guarantee any particular behaviour on their part as a result of you setting this field. | Merchant Specific |
| **challengeWindowSize** | With this field, the issuer should use to display the challenge. | Merchant Specific |
| **riskData** | This filed lets you Provide additional information in the <riskData> element to increase the chances that the shopper won't be challenged, for 3ds2 orders. | Merchant Specific |
| **JWTIssuer** | This fileld is an identifier of who is issuing the JWT. Use "5bd9e0e4444dce153428c940" in test. Worldpay will provide values for live. | Merchant Specific |
| **OrganisationalUnitId** | This filed is the identity associated with your account. Use "5bd9b55e4444761ac0af1c80" in test. Worldpay will provide the values for live. | Merchant Specific |
| **Authentication Method** | Mechansim used by the shopper to authenticate with you. | Merchant Specific |
| **Test or Production URL** | This is the url where ddc form is submitted | Merchant Specific  (Default value : |
| **Test or Production URL Challenge** | This is the url where ddc form is submitted | Merchant Specific |

### Manage Worldpay Payment Processor

In Business Manager Select the required Site from the dropdown and Navigate to*🡪Merchant Tools* *🡪 Ordering 🡪 Payment Processors*.

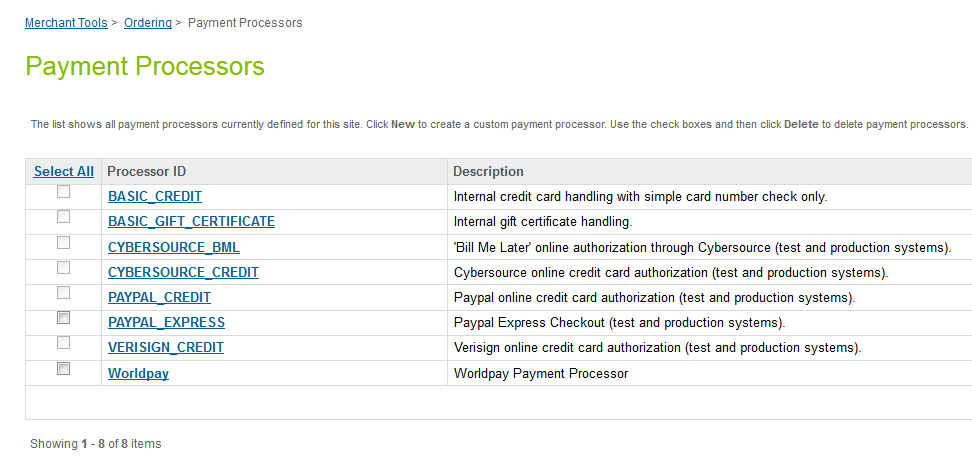


Fig: 2.3

### Manage Worldpay Payment Methods

In the integration package, a payment method definition is provided in the file that you have alredy imported

1. Navigate to🡪 Merchant Tools 🡪 Ordering🡪 Payment Methods.
2. Enable the Payment Method under **Ordering -> Payment Methods section** that needs to be activated. Repeat these steps for all the Payment Methods that are required to be supported on the site. (Refer to Fig: 2.4)

Set below custom attributes of Payment method as provided by merchant: (Refer to Fig: 2.5)

|  |  |
| --- | --- |
| **Custom Attribute** | **Description** |
| Merchant Code | This field represents the hex code provided by merchant |
| User Name | This field represents the username provided by merchant |
| Type | Select the Payment Method Type to DIRECT/REDIRECT as per the one that needs to be supported on the merchant site. (Refer to Fig: 2.5) |
| Password | This field represents the password provided by merchant |
| Days after which Order expires | Configure the number of days after which the Order should be cleaned up |
| SEPA mandate number | This will be part of mandate type for SEPA. |
| HPP CustomOptions JSON | This would only be populated in case of payment method as “Credit Card Redirect” where merchant defines JSON which determines the type as iframe/lightbox in which Hosted Payment Page appears on Merchant site.  Default Value is blank represent Worldpay redirection page appears |

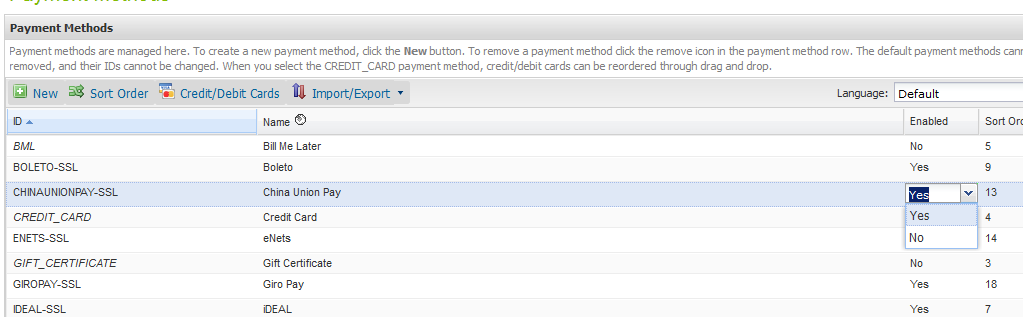
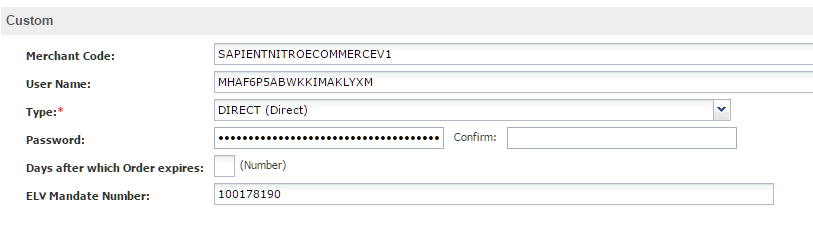


Fig: 2.4

Fig: 2.5

* Once the payment methods are added and enabled successfully, update credit or debit card details as provided by merchant under Payment method-> Credit/Debit Cards section.Enable the credit/debit card under **Credit/Debit Cards Section** that needs to be activated. Ensure custom attribute named “Worldpay Card Type” is populated for all active cards with corresponding Worldpay type like for VISA it is “VISA-SSL”. Repeat these steps for all the cards that need to be supported on the site. (Refer to Fig: 2.6)

Set below card details of Payment method as provided by merchant. All these fields are optional (Refer to Fig: 2.6)

|  |  |
| --- | --- |
| **Card Attribute** | **Description** |
| Security Code Length | This field represents maximum length of security code for card type |
| Card Number Verification | This field represents maximum length of CVV for card type |
| Card Number Length | This field represents maximum length of card number(range between 13-16) for card type |
| Checksum Verification | This field is set to True if merchant wants to verify the card details |
| Worldpay Card Type | This field represents the card type in Worldpay like for VISA it is “VISA-SSL” |

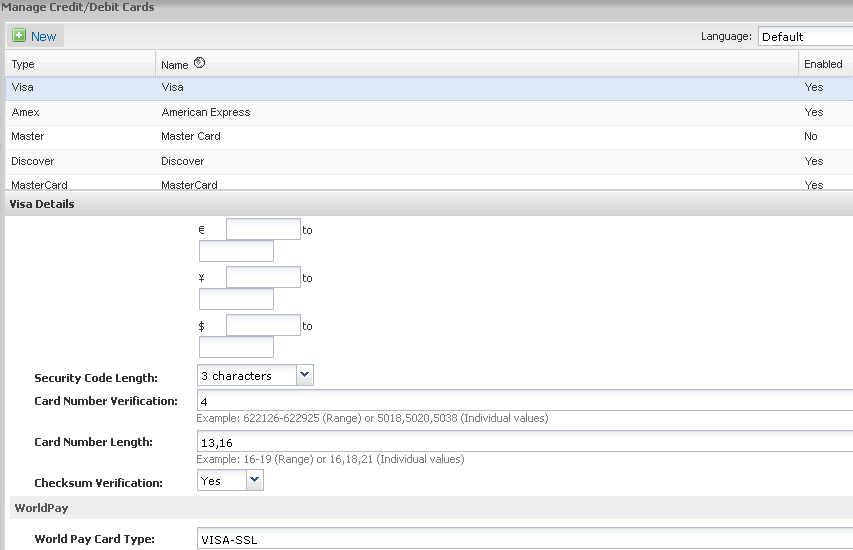
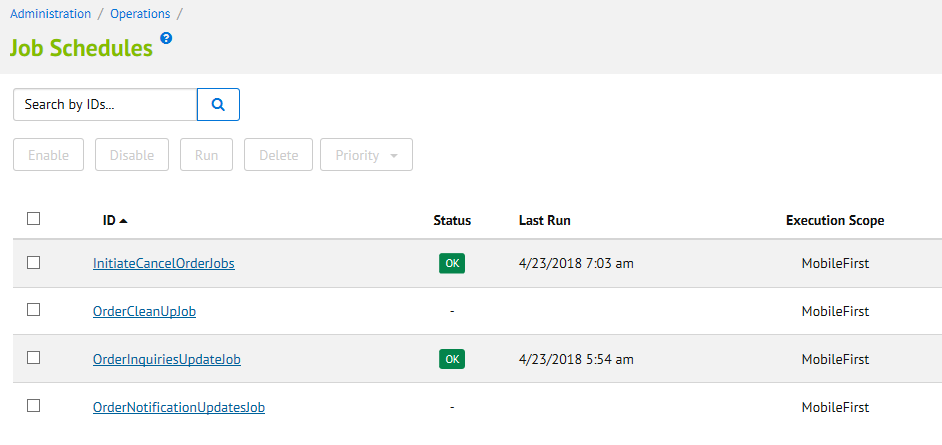


Fig: 2.6

### Manging Job

In the integration package, a job definition is provided in the ***import zip*** file (jobs.xml).

1. Make sure to Associate the jobs to respective merchant site.



2) Make sure to Enable the jobs to be active, apply the configurations setting of scheduling into General and Sites sections one by one while managing/manipulating.

### Order Notifications

The int\_worldpay\_core cartridge provides a service to update all the SFCC Order status according to status changes of individual payments in Worldpay. (PUSH mechanism)

**Worldpay-Notify** is the secure route function exposed to Worldpay to receive Order Notifications i.e. a HTTPS message whenever a payment status changed at Worldpay. Following URL (**https://mechantsandbox/Worldpay-Notify**) has been exposed to Worldpay to send the notifications. SFCC will send an HTTP 200 [OK] response to Worldpay to acknowledge the receipt of notification. Corresponding to each Order Notification received a custom object is created with the Order Number and Order Notification XML captured. A SFCC Job is then run (manually or scheduled), to process those custom objects and update the Orders corresponding to each Order Notification.

If the Worldpay system does not receive an [OK] in reply to an HTTPS order notification it waits for approximately an hour to deliver the notification again. Then it will resend the order notification approximately every five minutes for a week until it is acknowledged. Worldpay places order notifications in a queue and the first notification in the queue will be resent until it is acknowledged. If acknowledged, or if after a week still no [OK] is returned, the retry mechanism stops sending the message and proceeds with the next order notification from the queue.

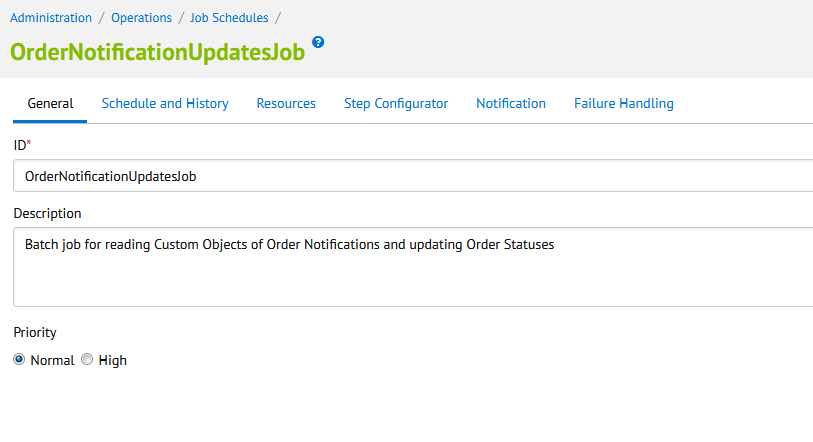
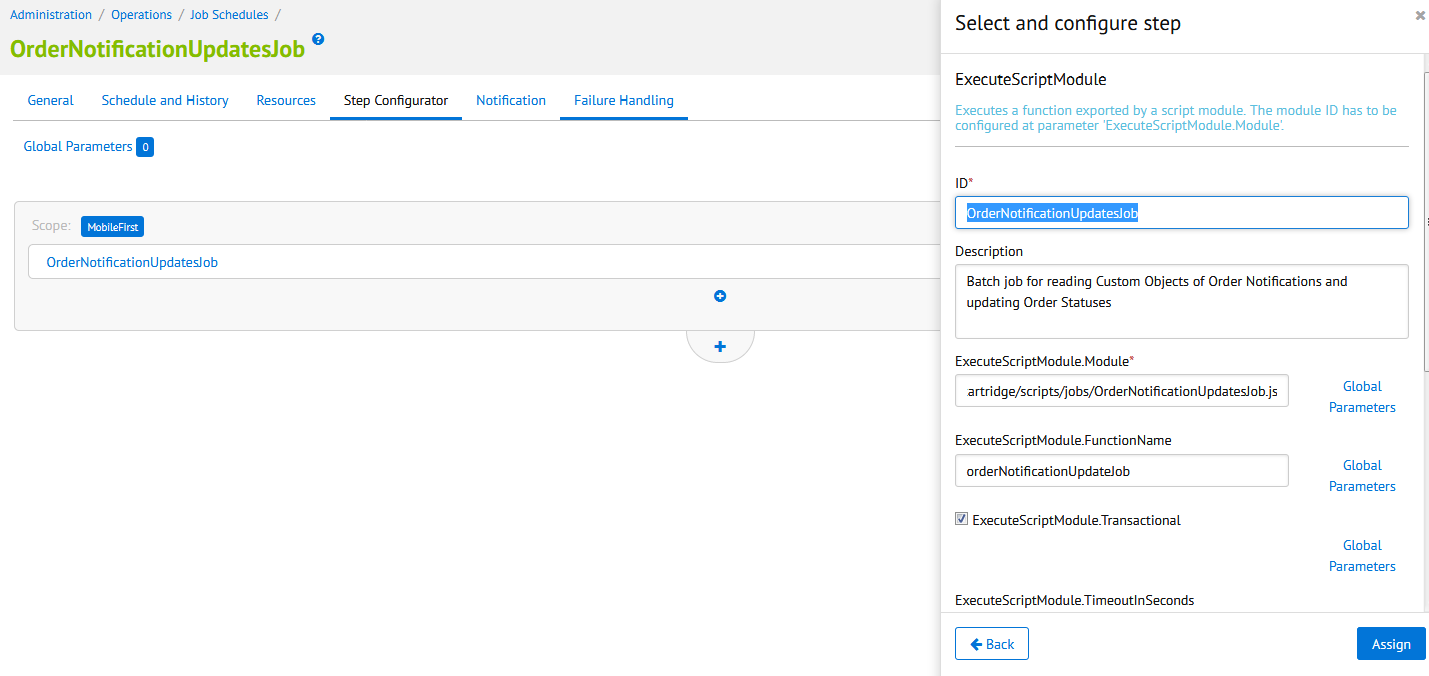
This URL (**https://mechantsandbox/Worldpay-Notify**) needs to be updated in Worldpay Admin console by the merchant to receive the Order Notifications. The order notifications are captured from Worldpay Payment Service when a payment reaches one of the following statuses:

* AUTHORISED
* CANCELLED
* CAPTURED
* EXPIRED
* SENT\_FOR\_REFUND
* REFUSED
* SETTLED
* INFORMATION\_REQUESTED
* CHARGED\_BACK
* POST AUTH CANCELLED

#### Order Notification job

The OrderNotificationUpdatesJob is a batch job which can be run manually or scheduled at a specific interval of time -i.e., 2 mins, 5 mins. Each time the job runs, it will pick all the custom objects created because of the prior received Order Notifications, sorted by the creation time. The job read the custom objects one by one, will update the statuses in Business Manager (Order Status/Payment Status/Confirmation Status) depending on the notification status in xml string and update the token details in order/customer card and finally remove the custom object post processing from SFCC.

Refer below Step configuration section in job to execute script and their functions

|  |  |
| --- | --- |
| Fields | Fields data |
| ID | OrderNotificationUpdatesJob |
| Description | Batch job for reading Custom Objects of Order Notifications and updating Order Statuses |
| ExecuteScriptModule.Module | int\_worldpay\_core/cartridge/scripts/jobs/OrderNotificationUpdatesJob.js |
| ExecuteScriptModule.FunctionName | orderNotificationUpdateJob |
| ExecuteScriptModule.Transactional | Enabled |

#### Error Handling for Order Notification Job

Please refer to[Appendix C](#_APPENDIX_C:_Error) for error codes and error messages for Order Notifications

#### Transaction payment status handling for Order Notification Job

Please refer to [Appendix D](#_APPENDIX_D:_Order) for mapping of different status on receipt of different order notification from WP into BM.

#### Notification update Service

[The Cartridge provides feature to expose the history of the Payment Transaction change (Order Notifications) for a particular Order in SFCC business manager.](https:// /WorldPay-GetNotificationUpdates  is%20the%20pipeline%20exposed%20to%20get%20the%20History%20of%20Notifications%20received%20by%20particular%20Order. )A JSON object is returned by the notifications updates service. This service is provided in 2 flavors, depending upon the need to fetch the entire status history or just the latest status. If order no or status history is not found an error JSON is returned.

**[Worldpay-GetNotificationUpdates](https://merchantSandbox/WorldPay-GetNotificationUpdates  is the pipeline exposed to get the History of Notifications received by particular Order.)** [is the route exposed to get the History of Notifications received by particular Order.](https://merchantSandbox/WorldPay-GetNotificationUpdates  is the pipeline exposed to get the History of Notifications received by particular Order.)

This service takes 2 parameters as Http Parameters,

1. orderNo
2. allupdates

If ‘allupdates’ is true, all notifications received for the order will be returned as JSON response.

If ‘allupdates’ is false, only the latest notifications received for the order will be returned as JSON response.

All values for ‘allupdates’ i.e. true, TRUE, True will be considered as true, any value other than these will be considered as false.

Example for the JSON response when ‘allupdates’ = true is as below:

**RESPONSE:**

{"statusList":

[{"status":"AUTHORISED:Mon Nov 10 2014 08:11:24 GMT-0000 (GMT)"},

{"status":"CANCELLED:Mon Nov 11 2014 08:11:24 GMT-0000 (GMT)"}

]

}

Example for the JSON response when ‘allupdates’ = false is as below:

**RESPONSE:**

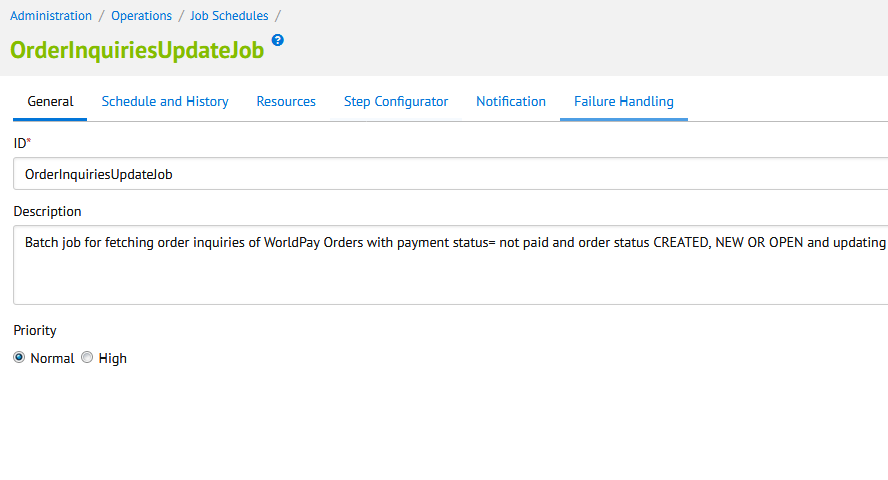
{"latestStatus":

[{"Status":"AUTHORISED:Mon Nov 10 2014 08:11:24 GMT-0000 (GMT)"}]

}

### Order Inquiry job

The OrderInquiryUpdatesJob is a batch job which can be run manually or scheduled at a specific interval of time -i.e., 2 mins, 5 mins. Each time the job runs, it will pick all the orders with status as CREATED/ NEW/OPEN and payment status as NOT PAID and order placed at least 15 mins back (configurable custom preference in business manager) by the creation time. The job iterates the orders and make order inquiry service call, will update the statuses in Business Manager (Order Status/Payment Status/Confirmation Status) depending on the response status in xml response of order enquiry and update the token details in order/customer card



Refer below Step configuration section in job to execute script and their functions

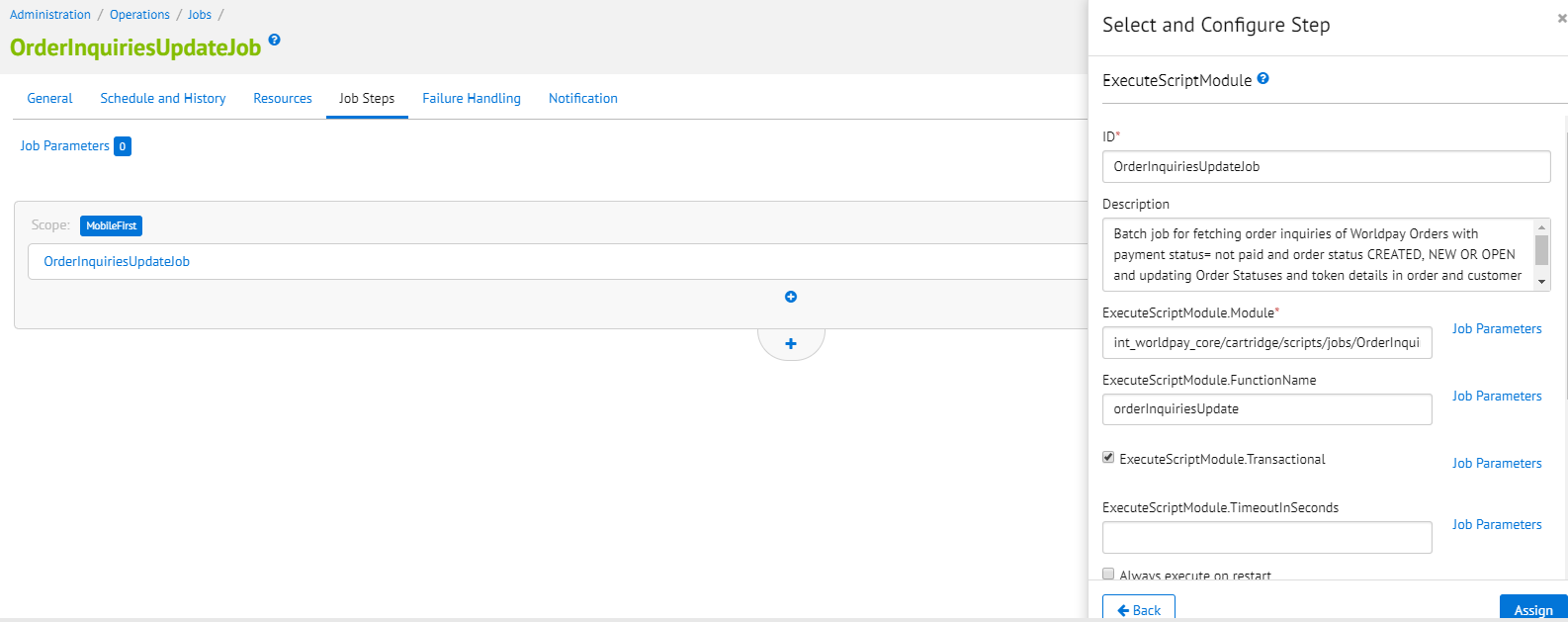


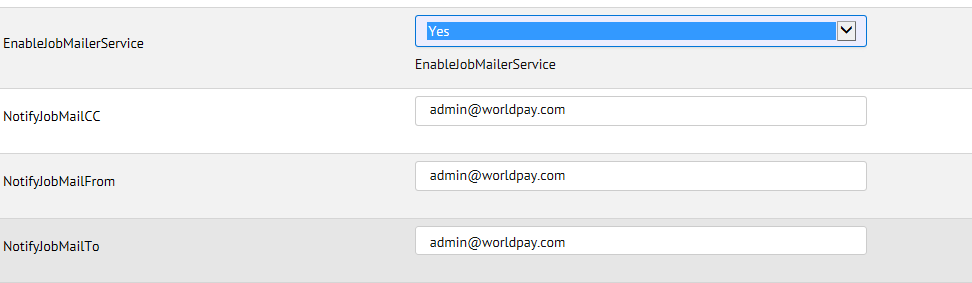
Table for Reference:

|  |  |
| --- | --- |
| Fields | Fields data |
| ID | OrderInquiriesUpdateJob |
| Description | Batch job for fetching order inquiries of Worldpay Orders with payment status= not paid and order status CREATED, NEW OR OPEN and updating Order Statuses and token details in order and customer saved payment instruments |
| ExecuteScriptModule.Module | int\_worldpay\_core/cartridge/scripts/jobs/OrderInquiriesUpdateJob.js |
| ExecuteScriptModule.FunctionName | orderInquiriesUpdate |
| ExecuteScriptModule.Transactional | Enabled |

### Job Failure Mailer Service

The cartridge also provides a feature to send Emails to the registered Emails in case of failure of any Order Notification update. On receipt of any Order Notification a custom object is created in SFCC with the Order Number and the Order Notification XML, if for any reason the XML captured is incorrect of some error occurs while the execution of the job an email is triggered.

To enable job mailer service to notify BM admin for any failure happens while processing the Order Notification Batch Job, the site preference EnableJobMailerService needs to be select **Yes** from the dropdown. Also, the below site preferences needs to be set



### APM Lookup Service

To enable APM look up service, the site preference **EnableAPMLookUpService** needs to be selected Yes from dropdown.

|  |  |
| --- | --- |
|  |  |
| **EnableAPMLookUpService** when enabled | 1. This service works for merchant code configured in site preference, which return APMs which are enabled for respective merchant code. 2. All active Payments methods which have different merchant code configured in payment method section will be displayed 3. All active payment methods other than Worldpay processor will be displayed |
| **EnableAPMLookUpService** when disabled | 1. Loookup service will not be executed 2. All active payment methods will be displayed |

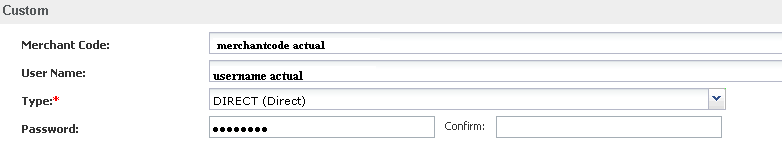
[Note: If merchant supports multiple merchant Ids through payment methods in that case APM Look service may not work so, it should not be enabled in site preference.]

### Multiple Merchant ID Support

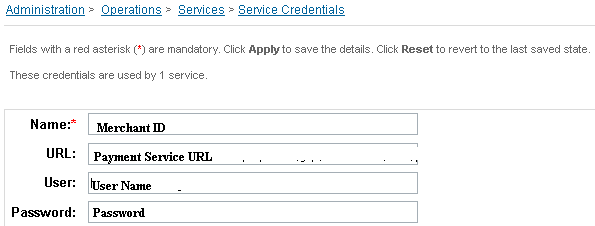
Worldpay cartridge also supports a mechanism to provide separate Merchant ID’s at APM level. This is primarily required for Merchants that need to configure different Merchant ID for financial purpose or if a specific APM is of a different version (to support both V1 and V3 APM’s on a single Merchant Site).

This is achieved, by setting a different MID and its details (Username & password) in the Payment Methods section in Business Manager. If merchant ID, username and password present at payment method level then would get preference compare to merchant ID in site preference, username and password from service credentials. If they are not configured at payment method level then merchant ID (in site preference), username and password provided in service credential will be used in request.

Payment Method Merchant ID Support Settings



Service Credential Settings when service merchant settings to be picked up

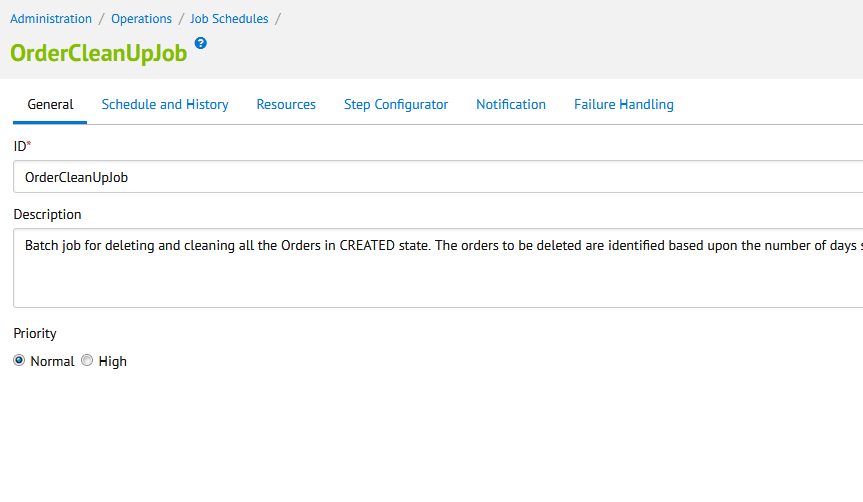


### Brazil Integration

The Worldpay cartridge provides support to Credit Cards and supported APM’s (BOLETO) in Brazil. The implementation ensures that all the additional information (Example: CPF/CNJP and Installment Number) that are required by the payment service provider in Brazil are also captured.

### Order CleanUp Batch Job

The Worldpay cartridge provides support to a batch job that will mark all the orders with status as **CREATED** and aged by a defined time interval. The time interval field is Business Manager configurable and also configurable at Payment Method level. A Batch Job configured in Business Manager shall run (as per the set schedule) and check the orders with order status **CREATED** which are old to a defined interval and will mark those orders in **FAILED** status in demandware system. This ensures that all the inventory transactions and coupon redemptions associated with the Order are rolled back. Job can be Enabled/Disabled or from Business Manager itself. Email will be sent to BM configured recipients once the job run with Job run status.



Refer below Step configuration section in order to execute script and their functions

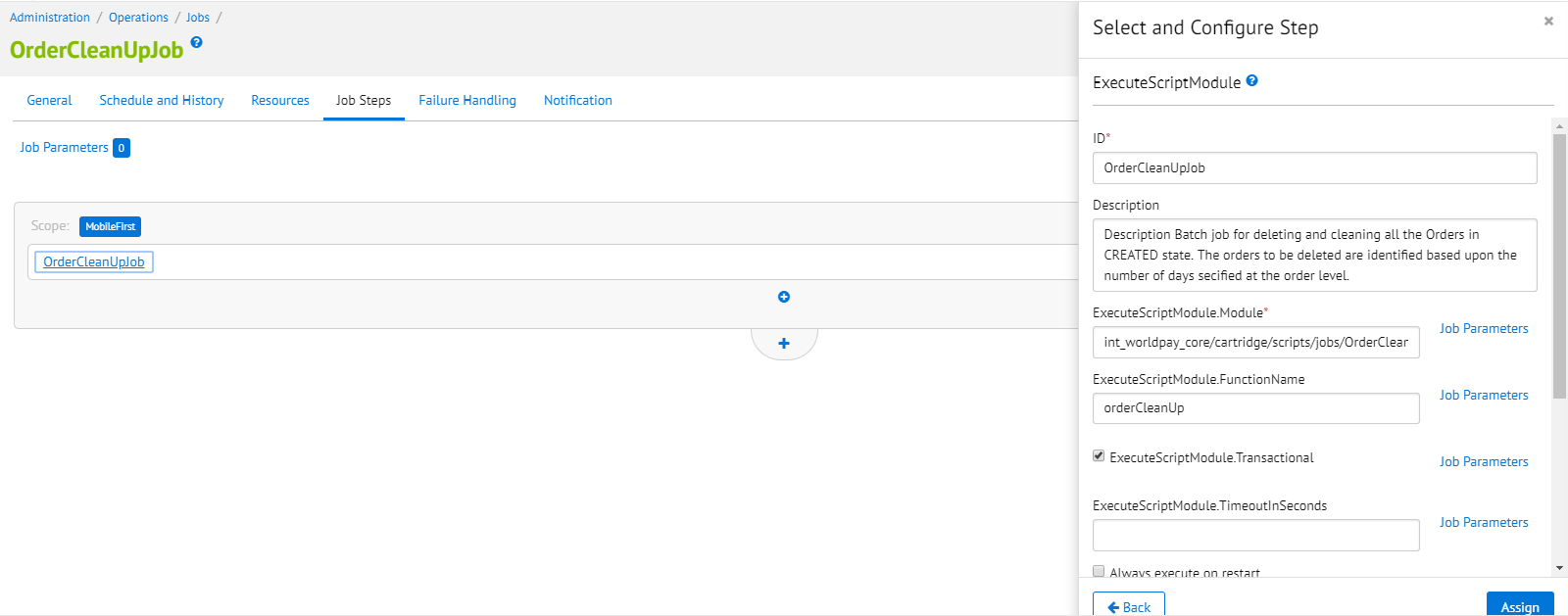
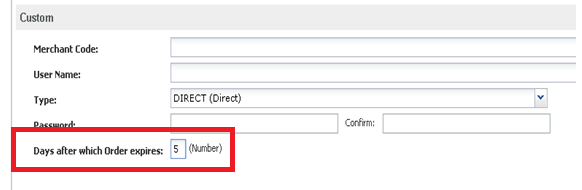


Table for Reference:

|  |  |
| --- | --- |
| Attributes Fields | Attributes |
| ID | OrderCleanUpJob |
| Description | Description Batch job for deleting and cleaning all the Orders in CREATED state. The orders to be deleted are identified based upon the number of days secified at the order level. |
| ExecuteScriptModule.Module | int\_worldpay\_core/cartridge/scripts/jobs/OrderCleanUpJob.js |
| ExecuteScriptModule.FunctionName | orderCleanUp |
| ExecuteScriptModule.Transactional | Enabled |

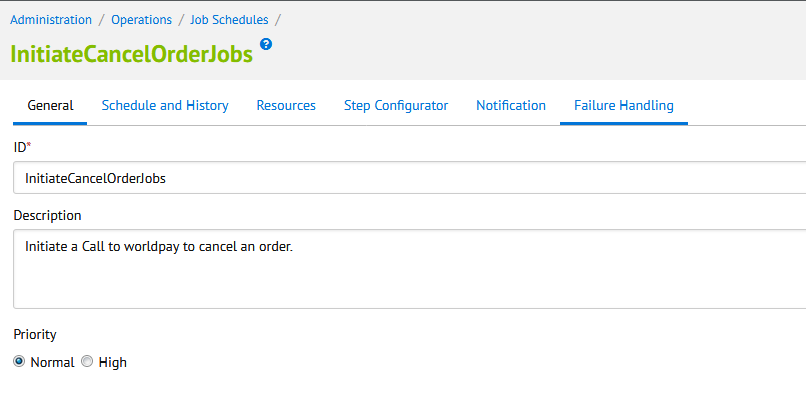
Note: Please ensure before running batch job every payment method in site has attribute “Days after which order expires” value configured.

Business Manager Configuration field:



### Initiate Cancel Order Job

The Worldpay cartridge provides support to a batch job that cancels or refunds FAILED orders with the attribute Worldpay MAC Missing. The time interval for selecting orders defined in the custom preference Worldpay Order Inquiry Lag Time. A Batch Job configured in Business Manager shall run (as per the set schedule) and check orders with order status FAILED, with Worldpay MAC Missing which are old to a defined interval of time and will send a request to Worldpay System to either cancel or refund.  Job can be Enable/Disable from Business Manager itself. Email will be sent to BM configured recipients after job run with Job run status.



Refer below Step configuration section in order to execute script and their functions

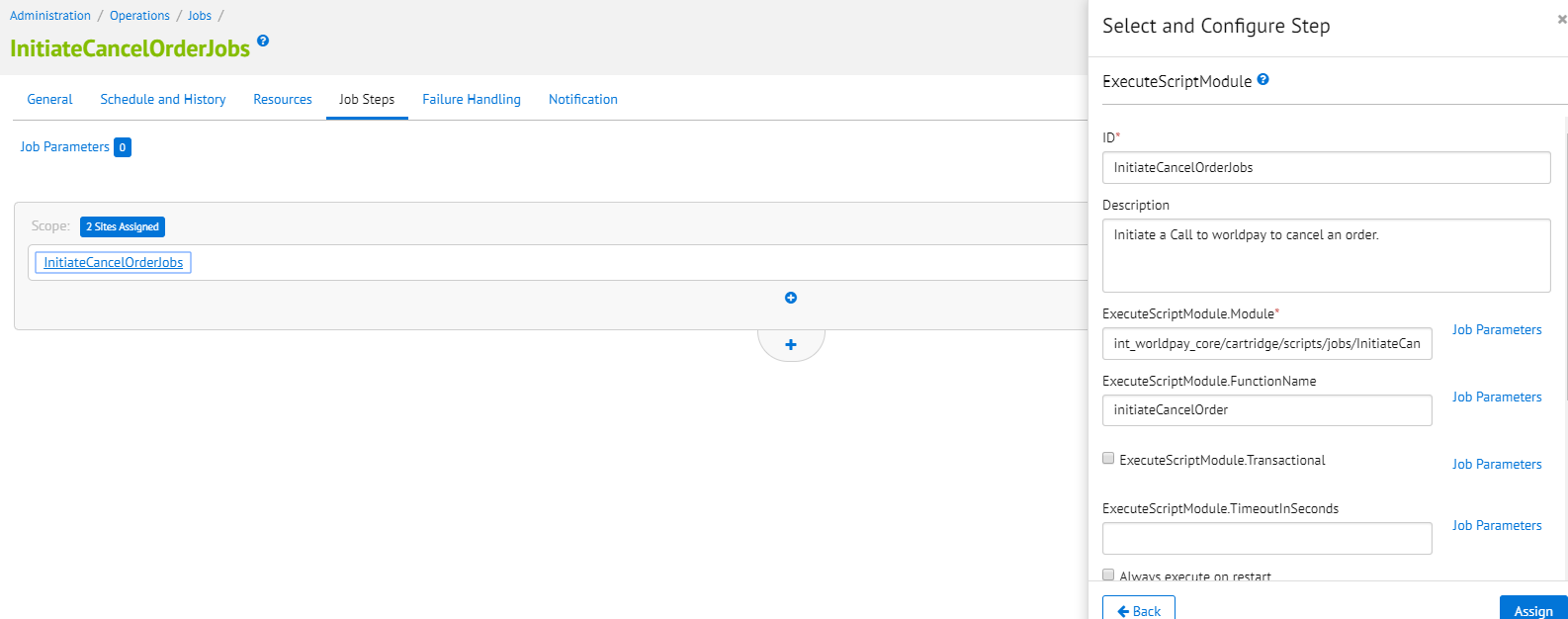


Table for Reference:

|  |  |
| --- | --- |
| Fields | Fields data |
| ID | InitiateCancelOrderJobs |
| Description | Initiate a Call to worldpay to cancel an order. |
| ExecuteScriptModule.Module | int\_worldpay\_core/cartridge/scripts/jobs/InitiateCancelOrderJob.js |
| ExecuteScriptModule.FunctionName | initiateCancelOrder |
| ExecuteScriptModule.Transactional | Enabled |

### Manging Content Asset

All import files are available in the site import folder (metadata) within the cartridge installation pack.

Note: Ensure content assets in the import has appropriate library Id of the site where XML to be imported

1. Navigate to*🡪Merchant Tools* *🡪 Content🡪Content Asset.*
2. Ensure that Content Assets with IDs “worldpayhelper” and “worldpay-elv-consent” are added.

### Managing Service

Go to Services🡪Service Profile🡪 Worldpay Profile with the values listed against them:

|  |  |
| --- | --- |
| **Worldpay Profile** | **Description** |
| Name | Default “worldpayprofile”. Merchant can give any name as per need |
| Timeout (ms) | Default 30000 Timeout value in milli sec as per Merchant contract with Worldpay for webservice timeout |
| Circuit Breaker | Circuit break settings when connection not established for long time |
| Rate limits | Rate Limits after which service resumed back once circuit breaks |

Ensure that the following properties under Worldpay credentials with the values listed against them:

All the above service credentials are used by one Worldpay service only. (Refer Fig. 2.9)

|  |  |
| --- | --- |
| **Worldpay Credentials** | **Description** |
| Name | Merchant Hex Code provided by Worldpay |
| URL | This field represents the Web service URL that is invoked while calling Worldpay service. |
| User | This field represents the User Name provided specifically to the above mentioned Merchant Code. |
| Password | This field represents the Password provided specifically to the above mentioned Merchant Code. |

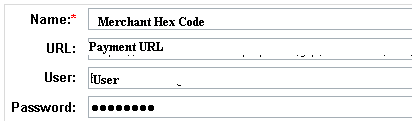


Fig 2.9

### IDEAL APM Integration

Bank configurations in Business Manager:

All the supported Bank List values are preconfigured. However, Modify/Delete the list if required. Follow the below steps to add additional banks:

1. Log into Business Manager
2. Navigate to *Administration 🡪 Site Development 🡪 System Object Definition 🡪 SitePreferences*
3. Open the tab Attribute Definition and find “*WorldpayIdealBankList*“
4. Ensure that the required *Bank ID* and *Bank Name* in the *Value* and *Display Value* correspondingly.

(For more details refer Appendix B)

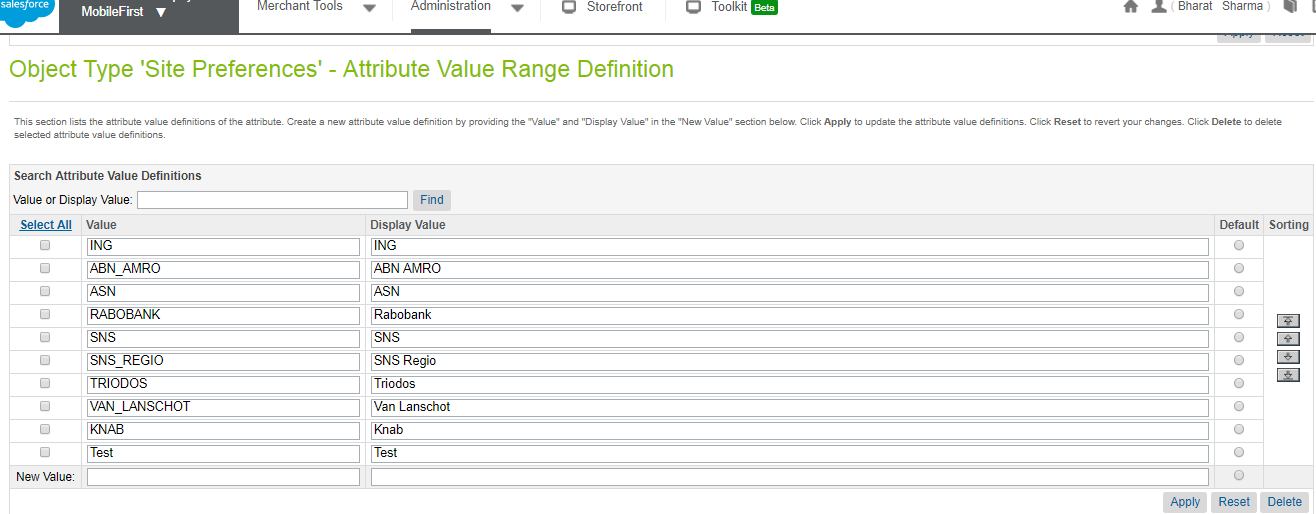


Fig: 2.6

Select the specific banks using the below steps:

1. Log into Business Manager
2. From the top bar select the required site for which configurations are to be done.
3. Navigate to 🡪Merchant Tools🡪 *Site Preferences 🡪 Custom Preferences 🡪 Worldpay*
4. Select the banks to be supported. (Multiple banks can be selected from the drop down)

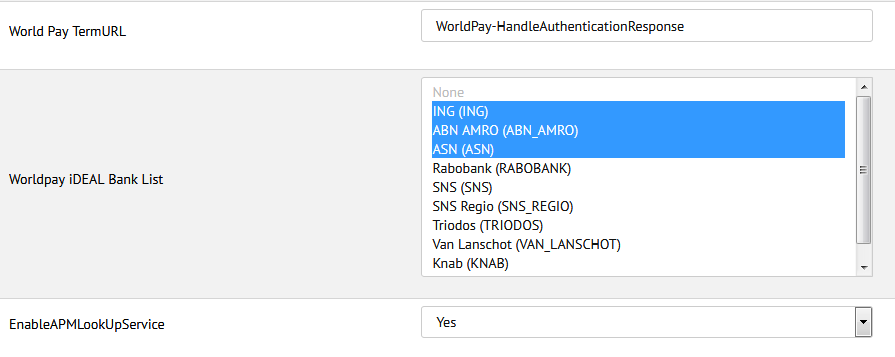


Fig: 2.7

**Note:** Please ensure list of bank should be updated; please contact Worldpay to get the latest list of Bank.

### Multiple Merchant ID Support Integration

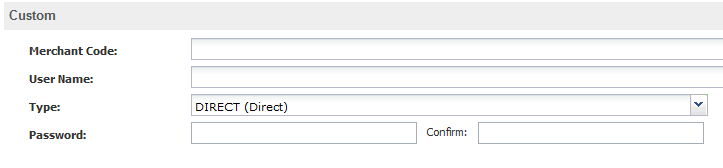
After importing metadata provided with Worldpay cartridge, additional fields (merchant ID, username, and password) will be created in payment methods in BM.

1. Log into Business Manager
2. From the top bar select the required site for which configurations are to be done
3. Navigate to🡪Merchant Tools 🡪 Ordering🡪 Payment Methods.
4. Input the required details for the below field:

Merchant ID

Username

Password



### Look and Feel Customization for Worldpay Redirect Pages

Configurations that needs to be done in Business Manager to support look and feel customization:

1) Log into Business Manager

2) From the top bar select the required site for which configurations are to be done.

3) Navigate toPreferences 🡪 Custom Preferences 🡪 Worldpay

4) Input the required details for the below field:

*Worldpay Configurable HPP APM*

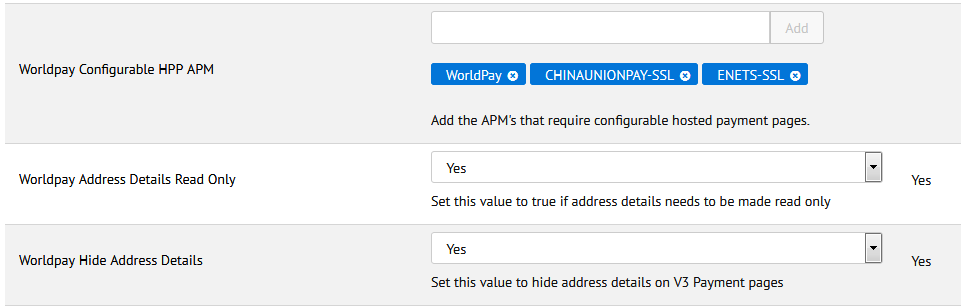
*Worldpay Installation Id*

*Worldpay Address Details Read Only*

*Worldpay Hide Address Details*

\*\* Ensure that the Payment Method ID (refer to APPENDIX A – KEY column), which needs to be supported for customizable is added to the **Worldpay Configurable HPP APM** sitepreference.

\*\*Please contact the Worldpay contact person for values of the above details.



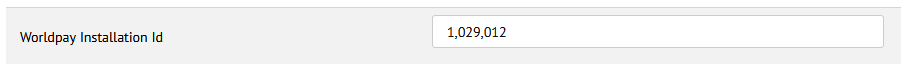


Fig 2.9

### Hosted Payment Pages iframe or lightbox for Worldpay Redirect Payment Method

Configurations that needs to be done in Business Manager to support look and feel customization:

1) Log into Business Manager

2) Navigate to Merchant Tools *🡪 Ordering 🡪 Payment Methods*

3) Select “Credit Card Redirect” payment method and add the following data under worldpay HPP CustomOptions JSON attribute.

4) Write JSON specifically type as iframe or lightbox. Click on Apply to enable the Iframe/Light box on HPP.

Example:

*{*

*“type”:”iframe”*

*}*

OR

*{*

*"type": "lightbox",*

*"lightboxMaskOpacity": 50,*

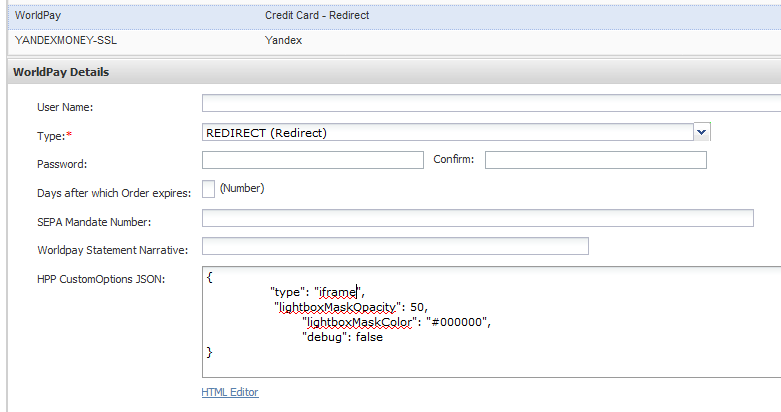
*"lightboxMaskColor": "#000000",*

*"debug": false*

*}*

For lightbox JSON settings below two attributes can be specified with merchant specific values.

* lightboxMaskOpacity
* lightboxMaskColor



### Country Currency Mapping

|  |  |
| --- | --- |
| **Country** | **Currency** |
| United States | US Dollars |
| UNITED KINGDOM | Pound Sterling |
| GERMANY | Euro |
| SINGAPORE | Singapore Dollar |
| JAPAN | Japanese Yen |
| SWEDEN | Yuan Renminbi |
| CHINA | Euro |
| FRANCE | Euro |
| RUSSIAN FEDERATION | Russian Ruble |
| BELGIUM | Euro |
| ITALY | Euro |
| CANADA | Canadian Dollar |
| AUSTRALIA | Australian Dollar |

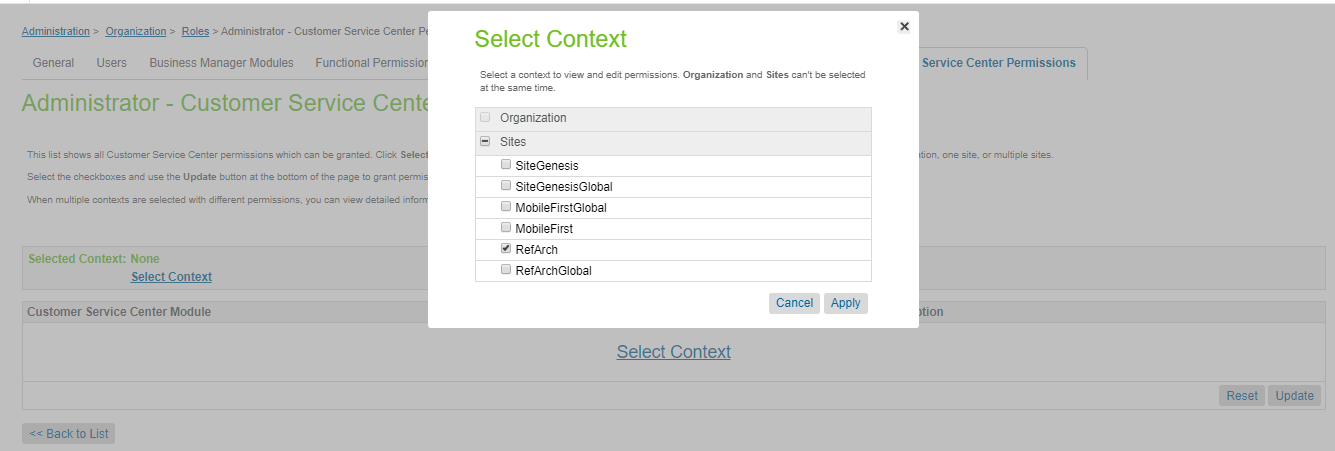
### Country Currency and Locale Mapping for Klarna

|  |  |  |  |
| --- | --- | --- | --- |
| purchase\_country | purchase\_currency | locale | extra locale |
| AT | Euro | de-at | en-at |
| FI | Euro | fi-fi | en-fi , sv-fi |
| DE | Euro | de-de | en-de |
| NL | Euro | nl-nl | en-nl |
| NO | NOK | nb-no | en-no |
| SE | SEK | sv-se | en-se |
| GB | GBP | gb-gb | en-sb |

* Ensure the appropriate locale ,currencies and countries setting are available in business manager.

### Managing the Custome Service Center (int\_worldpay\_csc)

* Go to **Administration > Organization > Roles > Administrator - Customer Service Center Permissions**
* Select context for your site and apply



**•** Select void sale and Update (This is for voiding sale for Prime Routing orders)



# PRODUCTION SETUP



### Production Service Setup

Steps for setting up the production service in business manager

1. In business manager navigate to “Administration > Operations > Services”
2. Click on “Credentials” Tab
3. Create new credentials by providing the merchant code, production URL, username and password
4. Now, navigate to “Merchant Tools > Site Preferences > Custom Preferences”
5. Inside “Worldpay” group “Merchant Code for Worldpay” as created in step 3. Also modify the other desired preferences on need basis
6. Worldpay Client Side Encryption Public Key
7. Worldpay MAC Secret Code
8. Worldpay Merchant Number
9. Worldpay Installation Id
10. In case if for separate merchant to be used at APM level, then service detail modification to be done in “Merchant Tools > Ordering > Payment Methods”

# OPERATIONS, MAINTAINENCE



### Order Payment Instrument Attributes

Apart from capturing the Order Attributes we also capture some Order Payment Instrument attributes. These are specific to the Payment Method and are captured in <payment> tag.

|  |  |  |
| --- | --- | --- |
| Sr. No. | Additional Custom Fields | Attribute Id |
| 1 | Bank | bank |
| 2 | Installments | installments  Note: Please contact Worldpay for further information on the max number of installments. |
| 3 | CPF | cpf |
| 4 | BankCode | bankCode |
| 5 | Worldpay Merchant ID | Merchant Hex Code whose order is placed |
| 6 | Worldpay Token Requested | Token requested value where selected for cards |

### Order Notification Custom Object

The attributes for custom Object ‘**OrderNotifyUpdates’** are defined in the below table. A new custom Object is created each time a notification is received with all these attributes and the custom object will be retained until it is deleted by the Notification job.

|  |  |  |
| --- | --- | --- |
| Sr. No. | Additional Custom Fields | Attribute Id |
| 1 | Order No | orderNo |
| 2 | Xml String | xmlString |
| 3 | Custom Object ID | ID |
| 4 | Time Stamp | timeStamp |

### Order Payment Instrument Attributes

|  |  |  |
| --- | --- | --- |
| **Name** | **Email** | **Support Type** |
| Lochan Sim | Lochan.Sim@worldpay.com | Primary |
| Rhuta Patel | Rhuta.Patel@worldpay.com | Secondary |
| Jonathan Berry | jonathan.berry@worldpay.com | Secondary |

# USER GUIDE

### Production Service Setup

Typically, the backend developer does most of the integration works. We expect that the person doing this integration is familiar with the web service, xml processing and has hands on experience with the SFCC platform

# APPENDIX A: APM/Card mapping keys

Supported Cards Mapping table:

|  |  |  |
| --- | --- | --- |
| **Card Name** | **Key Value** | **Test card number** |
| Airplus | AIRPLUS-SSL | 122000000000003 |
| American Express | AMEX-SSL | 34343434343434 |
| Dankort | [DANKORT-SSL](http://dtd.worldpay.com/v1/paymentService_v1.dtd.html#ElementDef161) | 5019717010103742 |
| Diners | DINERS-SSL | 36700102000000 |
| Discover card | DISCOVER-SSL | 6011000400000000 |
| JCB | JCB-SSL | 3528000700000000 |
| Laser | LASER-SSL | 630495060000000000 630490017740292441 |
| Maestro | MAESTRO-SSL | 6759649826438453, 6799990100000000019 |
| MasterCard | ECMC-SSL | 5555555555554444, 5454545454545454 |
| Visa | VISA-SSL | 4444333322221111,  4911830000000 |

Supported Payment Method Mapping table:

|  |  |
| --- | --- |
| **Payment Method Name** | **Key Value** |
| Konbini | KONBINI-SSL |
| Poli | POLI-SSL |
| Poli NZ | POLINZ-SSL |
| Przelewy24 | PRZELEWY-SSL |
| SEPA-DD | ELV-SSL |
| Alipay | ALIPAY-SSL |
| Boleto | BOLETO-SSL |
| CashU | CASHU-SSL |
| Credit Card – Direct | CREDIT\_CARD |
| Credit Card – Redirect | Worldpay |
| China Union Pay | CHINAUNIONPAY-SSL |
| ENETS | ENETS-SSL |
| Giropay | GIROPAY-SSL |
| IDEAL | IDEAL-SSL |
| Mistercash | MISTERCASH-SSL |
| Paypal | PAYPAL-EXPRESS |
| Sofort | SOFORT-SSL |
| Qiwi | QIWI-SSL |
| Yandex | YANDEXMONEY-SSL |

# APPENDIX B: IDEAL Bank List

|  |  |
| --- | --- |
| **Bank Name** | **Bank Code** |
| ABN | ABN\_AMRO |
| ASN | ASN |
| ING | ING |
| Knab | KNAB |
| Rabobank | RABOBANK |
| SNS | SNS |
| SNS Regio | SNS\_REGIO |
| Triodos | TRIODOS |
| Van Lanschot | VAN\_LANSCHOT |

# APPENDIX C: Error Codes and Error Messages for Transaction Notification

|  |  |
| --- | --- |
| **Master Error Code** | **Error Message** |
| 111 | XML Parse error has occurred |
| 112 | XML Corrupted, Could not find Order No. |
| 113 | XML in Custom Object Corrupted |
| 114 | Error occurred while deleting Custom Object |
| 115 | Error occurred while reading status history from Order Object |
| 116 | Error occurred while Updating Order Object |
| 117 | Error occurred while reading Custom Object |
| 118 | No Transaction History Available |
| 119 | Last status Not available as No Transaction History is Available |
| 120 | Wrong Order Number |

# APPENDIX D: Order Notification and SFCC Order status mapping

|  |  |
| --- | --- |
| **Order Notifications Received From Worldpay** | **Changes in Order object in Business Manager** |
| **AUTHORISED** | Order Status: NEW                  Payment Status: no change                  Export Status: READY FOR EXPORT                  Confirmation Status : CONFIRMED |
| **CANCELLED** | Order Status: FAILED/CANCELLED  Payment Status: NOT PAID                  Export Status: NOT EXPORTED  Confirmation Status : NOT CONFIRMED |
| **CAPTURED** | Order Status: COMPLETED                  Payment Status: PAID                  Export Status:  no change                  Confirmation Status :  no change |
| **SENT\_FOR \_REFUND** | Order Status:  no change                  Payment Status:  no change                  Export Status: no change                  Confirmation Status :  no change |
| **REFUSED** | Order Status: FAILED  Payment Status: NOT PAID                   Export Status: NOT EXPORTED  Confirmation Status : NOT CONFIRMED |
| **SETTLED** | Order Status: no change                  Payment Status: no change                  Export Status:  no change                  Confirmation Status :  no change |
| **INFORMATION\_REQUESTED** | Order Status:  no change                  Payment Status:  no change                  Export Status: no change                  Confirmation Status : no change |
| **CHARGED\_BACK** | Order Status:  no change                  Payment Status:  no change                  Export Status: no change                  Confirmation Status : no change |
| **EXPIRED** | Order Status:   FAILED                  Payment Status:   NOT PAID                  Export Status:   NOT EXPORTED           Confirmation Status :  NOT CONFIRMED |

# APPENDIX E: Error Codes and Error Messages

|  |  |
| --- | --- |
| **Master Error Code** | **Error Message** |
| worldpay.error.code1 | Internal error has occurred , please choose a different Payment Method or try again later. |
| worldpay.error.code2 | Parse error has occurred, please choose a different Payment Method or try again later. |
| worldpay.error.code3 | Invalid amount error, please choose a different Payment Method or try again later. |
| worldpay.error.code4 | Security error , please choose a different Payment Method or try again later. |
| worldpay.error.code5 | Invalid request, please choose a different Payment Method or try again later. |
| worldpay.error.code6 | Please choose a different Payment Method or try again later. |
| worldpay.error.code7 | Payment details in the order element are incorrect, please choose a different Payment Method or try again later. |
| worldpay.error.code8 | Submission error , please choose a different Payment Method or try again later. |
| worldpay.error.generalerror | Please choose a different Payment Method or try again later. |
| worldpay.error.cancelerror | Your transaction has been cancelled. |

# APPENDIX F: Enabling and disabling worldpay integration

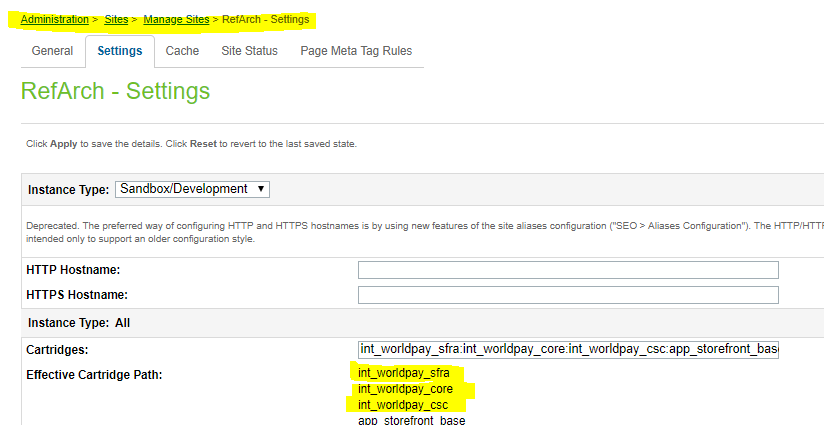
* Go to Merchant tools > Ordering > Payment Methods
* Disable all the worldpay specific payment methods
* Also cross check one by one for the type of processor, the payment method is using (To check it, click on any of the payment method lets say, CREDIT\_CARD, and see the Payment Pocessor). If it is worldpay, change it to some othe desired processor( eg. For CREDIT\_CARD, BASIC\_CREDIT).
* Enable the payment methods we want to use with the type of processor.
* To enable it again change the processor type to worldapy.
* Go to [Merchant Tools](https://worldpay02-tech-prtnr-eu04-dw.demandware.net/on/demandware.store/Sites-Site/default/ViewApplication-ExpandMenuGroup?MenuGroupID=SiteMenu&OverviewPage=SiteNavigationBar-ShowSiteOverview&csrf_token=J3jXHp4dwSBWpuaRTzOUTrs6vGohZn7ad2s3-pYNg6YDwoYT6ntqxJZdivSIfyCzzKwcICillPMHO-KHy-gvqE_nIve3vxlhtmUH1QW5V-uxdyw0UfzUHLmc3MFCB1kuhT-UwLvUA3pd27IKSC-A4qrF8ngGXYE3-077CND_5AalPq5yoY0) > [Site Preferences](https://worldpay02-tech-prtnr-eu04-dw.demandware.net/on/demandware.store/Sites-Site/default/SiteNavigationBar-ShowMenuitemOverview?CurrentMenuItemId=site-prefs&itemType=Site&csrf_token=J3jXHp4dwSBWpuaRTzOUTrs6vGohZn7ad2s3-pYNg6YDwoYT6ntqxJZdivSIfyCzzKwcICillPMHO-KHy-gvqE_nIve3vxlhtmUH1QW5V-uxdyw0UfzUHLmc3MFCB1kuhT-UwLvUA3pd27IKSC-A4qrF8ngGXYE3-077CND_5AalPq5yoY0) > custom Preferences > worldpay and disable ‘Enable Apm look up service’.

# APPENDIX G: CHECKLIST

This Section will help you ensure that all the Business Manager required configurations for worldpay are in Place and you are able to proceed with the trasactions.

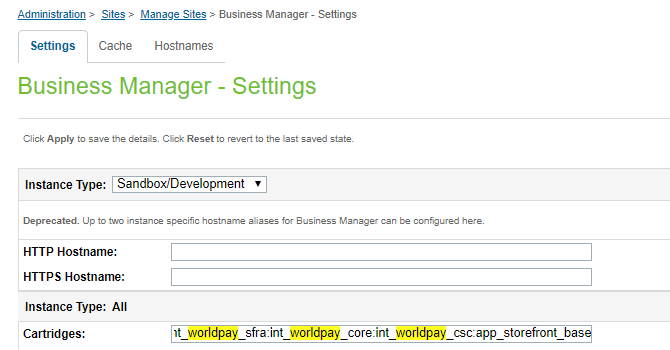
1. Cartridge Path is set properly

Go to Administration > Sites > Manage Sites > Your site - Settings



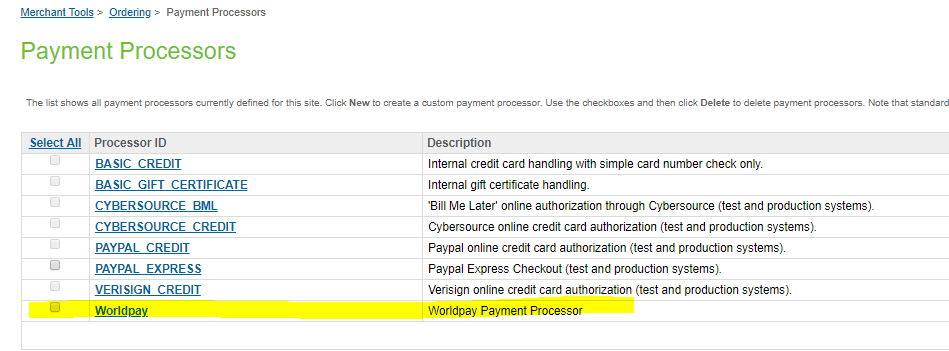
Go to Administration > Sites > Manage Sites > Business Manager – Settings

Check if your worldpay cartridges are added there



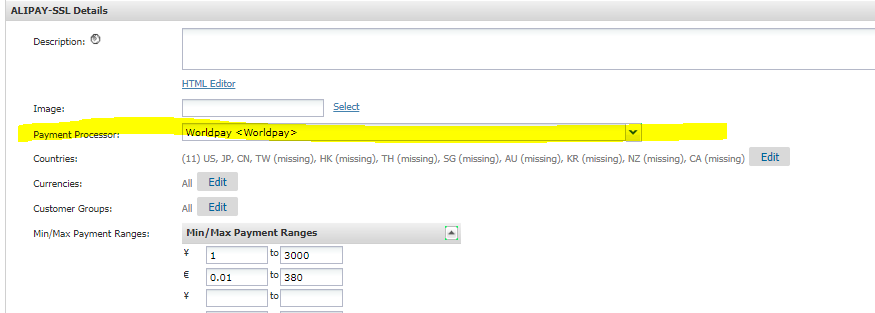
1. Payment Processor with id Worldpay is available

Go to **Merchant Tools > Ordering > Payment Processors**

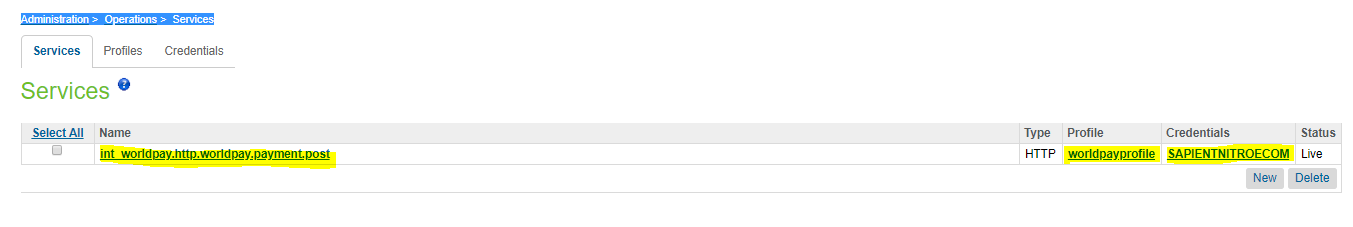


1. Payment methods are enabled and have worldpay as their processors set

* Go to **Merchant Tools > Ordering > Payment Methods,** and check for the availability of payment methods
* Open the Payment method and check if processor is worldpay or not.



1. Go to Administration > Operations > Services and check if Service is available or not



* Navigate to Merchant Tools > Content > Content Asset.
* Ensure that Content Assets with IDs “worldpayhelper” and “worldpay-elv-consent” are added.

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

Check for worldpay group availability.

If it’s there, open the group to see for all the custom preferences

1. Go to Administration > Operations > Custom Log Settings, and cross check if worldpay debug is on or not.

