

# Worldpay SFRA Integration

**worldpay**  
**from FIS**



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## 1. 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 tokenization features)
  - 20) 3D/Non 3D Credit Cards (XML Redirect with tokenization and hosted payment pages lightbox/iframe feature)
  - 21) WeChat Pay
  - 22) MOTO
  - 23) Google Pay
  - 24) Apple Pay
  - 25) Klarna (PayNow/PayLater)
  - 26) ACH PAY
  - 27) Alipay Mobile
- 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

## 2. Change Log

Release Version	Date	Description
release-20.1.0		Certified Release
release-19.1.1	July 7, 2020	Certified Release
release-19.1.0	Dec 11, 2019	Certified Release
19.2.0	August 31, 2019	<ul style="list-style-type: none"> <li>• Best Practices</li> <li>• Automation Test Suite</li> <li>• US Domestic Acquiring (Prime Routing)</li> <li>• Tokenization (My Account-Add Card/Delete Card)</li> <li>• Stored Credential Improved Flow</li> <li>• 3ds2</li> <li>• Security Fixes</li> <li>• CodeCept JS</li> <li>• Previous Releases Feedbacks</li> </ul>
19.1.0	April 3, 2019	<ul style="list-style-type: none"> <li>• Google Pay</li> <li>• Stored Credentials</li> <li>• Release 18.3.0 Feedback</li> </ul>
18.3.0	Feb 20, 2019	<ul style="list-style-type: none"> <li>• WeChat implementation</li> <li>• Alternative payment method</li> <li>• Merchant token</li> <li>• MOTO payment method</li> </ul>
18.2.0	Jul 16, 2018	<ul style="list-style-type: none"> <li>• Complete SFRA implementation</li> </ul>

## 3. IMPLEMENTATION GUIDE

### 3.1 INSTALLATION

#### 3.1.1 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.

### 3.1.2 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.

### 3.1.3 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.**

Administration > Sites > Manage Sites > RefArch - Settings

General **Settings** Cache Site Status Page Meta Tag Rules

## RefArch - Settings

Click Apply to save the details. Click Reset to revert to the last saved state.

Instance Type:

Deprecated. The preferred way of configuring HTTP and HTTPS hostnames is by using new features of the site aliases configuration ("SEO > Aliases Configuration"). The HTTP/HTTPS hostname by aliases configuration and are intended only to support an older configuration style.

HTTP Hostname:

HTTPS Hostname:

Instance Type: All

Cartridges:

Effective Cartridge Path:   
int\_worldpay\_sfra  
int\_worldpay\_core  
int\_worldpay\_csc



## 3.2 CONFIGURATION

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

### 3.2.1 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 > 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
  - Check the library ID assignment to your site (here for RefArch the library assignment is RefArchSharedLibrary)

#### Libraries

The list below contains all libraries defined by your organization, along with some statistical information about the library content.

- Libraries of the type "Private" are owned by a site, can only be used by that site, and can't be deleted.
- Libraries of the type "Shared" are owned by the organization, can be shared by multiple sites, and can be deleted by the user.

The administration of content libraries, including the ability to create new ones, is located [here](#).

ID	Type	Site Assignments	Folders	Content Assets	Status
<a href="#">Library_MobileFirst</a>	Private	MobileFirst	1	0	Online
<a href="#">Library_MobileFirstGlobal</a>	Private		1	0	Online
<a href="#">Library_RefArch</a>	Private		1	0	Online
<a href="#">Library_RefArchGlobal</a>	Private		1	0	Online
<a href="#">Library_SiteGenesis</a>	Private		1	0	Online
<a href="#">Library_SiteGenesisGlobal</a>	Private		1	0	Online
<a href="#">MobileFirstSharedLibrary</a>	Shared	MobileFirstGlobal	28	109	Online
<a href="#">RefArchSharedLibrary</a>	Shared	RefArch RefArchGlobal	28	175	Online
<a href="#">SiteGenesisSharedLibrary</a>	Shared	SiteGenesis SiteGenesisGlobal	28	104	Online

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

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.

transaction Status:	
<a href="#">Add Another Value</a>	
custom	
Authorization ID:	
Refusal/Decline Code:	
AVS Result Code:	
CVC Result Code:	
Risk Score:	
Masked Card Number:	
AAV Postcode Result Code:	
AAV Address Result Code:	
Issuer Response:	
AAV Email Result Code:	
AAV Cardholder Name Result Code:	
AAV Telephone Result Code:	
SEPA Mandate ID:	
Worldpay Last Event:	VOIDED
Worldpay MAC Missing:	<input type="checkbox"/>
US Domestic Order:	<input checked="" type="checkbox"/>

## Custom Preferences Screenshot

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Name	Value	Default Value	
WorldpayEnableTokenization	Yes	No	<a href="#">Edit Across Sites</a>
Enable Client Side Encryption	Yes	Yes	<a href="#">Edit Across Sites</a>
Worldpay Disable CVV	No	No	<a href="#">Edit Across Sites</a>
Worldpay Client Side Encryption Public Key	1#10001#9054b62f59775755d937226ac89d2f8e3040b674e939c803840892f27e3c7f	1#10001#9054b62f59775755d937226ac89d2f...	<a href="#">Edit Across Sites</a>
Merchant Code for Worldpay*	SAPIENTNITROECOM		<a href="#">Edit Across Sites</a>
Worldpay MAC Secret Code*	*****		<a href="#">Edit Across Sites</a>
Worldpay Payment Method Mask Excludes	<input type="text"/> <input type="button" value="Add"/>		<a href="#">Edit Across Sites</a>
Exponent for currency*	2	2	<a href="#">Edit Across Sites</a>
Worldpay Redirect Success URL	COPlaceOrder-Submit	COPlaceOrder-Submit	<a href="#">Edit Across Sites</a>
Worldpay Redirect Failure URL	COPlaceOrder-Submit	COPlaceOrder-Submit	<a href="#">Edit Across Sites</a>
Worldpay Redirect Pending URL	COPlaceOrder-Submit	COPlaceOrder-Submit	<a href="#">Edit Across Sites</a>
Worldpay Redirect Cancel URL	COPlaceOrder-Submit	COPlaceOrder-Submit	<a href="#">Edit Across Sites</a>
Worldpay TermURL	Worldpay-HandleAuthenticationResponse	Worldpay-HandleAuthenticationResponse	<a href="#">Edit Across Sites</a>
Worldpay IDEAL Bank List	<div> None  ING (ING)  ABN AMRO (ABN_AMRO)  ASN (ASN)  Rabobank (RABOBANK)  SNS (SNS)  SIBURBANK (SIBURBANK) </div>		<a href="#">Edit Across Sites</a>
EnableAPMLookUpService	Yes		<a href="#">Edit Across Sites</a>
EnableJobMailerService	No	EnableJobMailerService	<a href="#">Edit Across Sites</a>
NotifyJobMailCC	<input type="text"/>		<a href="#">Edit Across Sites</a>
NotifyJobMailFrom	<input type="text"/>		<a href="#">Edit Across Sites</a>
NotifyJobMailTo	<input type="text"/>		<a href="#">Edit Across Sites</a>
Worldpay Configurable HPP APM	<input type="text"/> <input type="button" value="Add"/> <div> CHINAUNIONPAY-SSL <input type="button" value="Add"/> Worldpay <input type="button" value="Add"/> </div>		<a href="#">Edit Across Sites</a>

Add the APM's that require configurable hosted payment pages.

Worldpay Address Details Read Only	<input type="text" value="Yes"/>	Yes	<a href="#">Edit Across Sites</a>
Set this value to true if address details needs to be made read only			
Worldpay Hide Address Details	<input type="text" value="Yes"/>	Yes	<a href="#">Edit Across Sites</a>
Set this value to hide address details on V3 Payment pages			
Worldpay Payment Method Mask Includes	<input type="text" value=""/> <a href="#">Add</a>		<a href="#">Edit Across Sites</a>
	<a href="#">ALL</a> <a href="#">ONLINE</a>		
Worldpay Order Inquiry Lag Time	<input type="text" value="1.0"/>	15.0	<a href="#">Edit Across Sites</a>
Pick orders before lag time in minutes:			
Worldpay Merchant Number	<input type="text" value="100038056"/>		<a href="#">Edit Across Sites</a>
This will be part of mandate type for SEPA.			
Worldpay Notification IP Addresses End	<input type="text" value="195360000"/>		<a href="#">Edit Across Sites</a>
Worldpay Notification IP Addresses Start	<input type="text" value="195359000"/>		<a href="#">Edit Across Sites</a>
Worldpay SEPA Mandate Type	<input type="text" value="One-Off (ONE-OFF)"/>	One-Off	<a href="#">Edit Across Sites</a>
Worldpay SEPA Mandate Type			
Worldpay Installation Id	<input type="text" value="1,029,012"/>		<a href="#">Edit Across Sites</a>
Worldpay Validate IP Address	<input type="text" value="No"/>	No	<a href="#">Edit Across Sites</a>
CaptureServiceTrackingID	<input type="text" value="Yes"/>	No	<a href="#">Edit Across Sites</a>
Token Type	<input type="text" value="Shopper (Shopper)"/>	Shopper	<a href="#">Edit Across Sites</a>
Chose for the type of token (Shopper and Merchant)			
Enable Stored Credentials	<input type="text" value="Yes"/>	No	<a href="#">Edit Across Sites</a>
Google Pay Environment	<input type="text" value="TEST (TEST)"/>	TEST	<a href="#">Edit Across Sites</a>
Google Pay Merchant ID	<input type="text" value="32e04907d379490"/>		<a href="#">Edit Across Sites</a>
Hide App For Moto Order	<input type="text" value="Yes"/>	Yes	<a href="#">Edit Across Sites</a>
3ds Type	<input type="text" value="two3d (two3d)"/>	one3d	<a href="#">Edit Across Sites</a>
Controller	<input type="text" value="app_storefront_controllers"/>		<a href="#">Edit Across Sites</a>
Core Name	<input type="text" value="app_storefront_core"/>		<a href="#">Edit Across Sites</a>
Enable Sales request	<input type="text" value="Yes"/>	No	<a href="#">Edit Across Sites</a>
debit Networks	<input type="text" value="None"/> <input type="text" value="Accel (Accel)"/> <input type="text" value="AFPN (AFPN)"/> <input type="text" value="CURA (CURA)"/> <input type="text" value="Jeanie (Jeanie)"/> <input type="text" value="NYCE (NYCE)"/> <input type="text" value="Pulse (Pulse)"/> <input type="text" value="Shazam (Shazam)"/> <input type="text" value="Star SouthEast (Star SouthEast)"/> <input type="text" value="Star West (Star West)"/>		<a href="#">Edit Across Sites</a>
Routing Preference	<input type="text" value="signatureOnly (signatureOnly)"/>		<a href="#">Edit Across Sites</a>
Challenge Preference	<input type="text" value="challengeMandated (challengeMandated)"/>	noPreference	<a href="#">Edit Across Sites</a>
challengeWindowSize	<input type="text" value="fullPage (fullPage)"/>	390x400	<a href="#">Edit Across Sites</a>
riskData	<input type="text" value="Yes"/>		<a href="#">Edit Across Sites</a>
JWTIssuer	<input type="text" value="5bd9e0e444dce153428c940"/>	5bd9e0e444dce153428c940	<a href="#">Edit Across Sites</a>
OrganisationalUnitId	<input type="text" value="5bd9b55e4444761ac0af1c80"/>	5bd9b55e4444761ac0af1c80	<a href="#">Edit Across Sites</a>
Authentication Method	<input type="text" value="localAccount (localAccount)"/>		<a href="#">Edit Across Sites</a>
Test or Production URL	<input type="text" value="(https://secure-test.worldpay.com/shopper/3ds/ddc.html)"/>	https://secure-test.worldpay.com/shoppe...	<a href="#">Edit Across Sites</a>

Fig: 2.2

### 3.2.2 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 RedirectFailureURL: 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
<b>Merchant Code for Worldpay</b>	This field represents the specific Merchant code value.	Merchant Specific - Provided by Worldpay
<b>Worldpay MAC Secret Code</b>	The field represents the MAC secret code that configurable in Worldpay Merchant Interface.	Merchant Specific
<b>Worldpay Payment Method Mask Includes</b>	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)
<b>Worldpay Payment Method Mask Excludes</b>	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
<b>Exponent for currency</b>	This field represents the decimal places supported in the Order Amount.	Merchant Specific (Default Value : 2)
<b>Worldpay Redirect Success URL</b>	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
<b>Worldpay Redirect Failure URL</b>	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
<b>Worldpay Redirect Pending URL</b>	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

<b>Worldpay Redirect Cancel URL</b>	This field represents the Cancel URL, that the user will be redirected to in case of a cancelled transaction in APM's or Credit Card Redirect.	Default Value : COPlaceOrder-Submit
<b>Worldpay TermURL</b>	This field represents the Term URL on which the user will be redirected in case of 3D secure.	Worldpay-HandleAuthenticationResponse
<b>Worldpay iDEAL Bank List</b>	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.
<b>Worldpay Installation Id</b>	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
<b>Worldpay Address Details Read Only</b>	This field is set to true if address details needs to be made read only	Merchant Specific (Default Value : true)
<b>Worldpay Hide Address Details</b>	This field is set to true to hide address details on V3 Payment pages	Merchant Specific (Default Value : true)
<b>EnableAPMLookUpService</b>	This field can be used to Turn On/Off the Look Up service, based upon the Merchant requirement.	Merchant Specific
<b>EnableJobMailerService</b>	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
<b>NotifyJobMailCC</b>	This field represents the Email address of the people to kept in CC.	Merchant Specific: Multiple Emails can be added separated by semicolon.
<b>NotifyJobMailFrom</b>	This field represents the Email address of the people to be in From.	Merchant Specific: Multiple Emails can be added separated by semicolon.
<b>NotifyJobMailTo</b>	This field represents the Email address of the people to be in To.	Merchant Specific: Multiple Emails can be added separated by semicolon.
<b>WorldpayEnable Tokenization</b>	This field is set to true if merchant wants to enable tokenization	Merchant Specific(Default value : false)
<b>Worldpay Disable CVV</b>	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)
<b>Enable Client Side Encryption</b>	This field is set to true if merchant wants to enable Client Side Encryption	Merchant Specific(Default value : false)
<b>Worldpay Client Side Encryption Public Key</b>	This field represents the public key provided by Worldpay, used to calculate mac value of an order	Merchant Specific

<b>Worldpay Order Inquiry Lag Time</b>	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)
<b>Worldpay Configurable HPP APM</b>	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 <b>Worldpay InstallationID</b> set if some value is added to this Preference.
<b>Enable Card Selection</b>	This field represents the Merchants choice to enable /disable Card selection on the Site.	Merchant Specific: Enable /Disable Card selection on the Site.
<b>Worldpay Merchant Number</b>	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
<b>Worldpay SEPA Mandate Type</b>	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.
<b>Worldpay Notification IP Addresses End</b>	This field represents the Worldpay IP Address range which send notification, last IP Address in range	Merchant Specific - Provided by Worldpay
<b>Worldpay Notification IP Addresses Start</b>	This field represents the Worldpay IP Address range which send notification, first IP Address in range	Merchant Specific - Provided by Worldpay
<b>Token Type</b>	This field represents the type of token that merchant wants to send when there is token request.	Default value : Shopper
<b>Enable Stored Credentials</b>	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
<b>Controller</b>	Name of the controller cartridge	Merchant Specific

Core Name	Name of the core cartridge	Merchant Specific
<b>Worldpay validate IP Address</b>	This field is set to true if merchant want to validate IP address	Merchant Specific(Default value : false)
<b>CaptureServiceTrackingID</b>	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)
<b>3ds Type</b>	This is type of 3ds version you want to chose	Default value : one3d (3ds1)
<b>Hide Apm For Moto Orde</b>	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
<b>Google Pay Environment</b>	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)
<b>Google Pay Merchant ID</b>	The merchant ID is specific to the environment we are using for transactions. This will be provided by worldpay.	Merchant Specific
<b>Enable Sales request</b>	This toggle enables prime routing.	Merchant Specific (Default value : No)
<b>debit Networks</b>	This toggle lets the merchant chose the debit network to be used to process the transaction	Merchant Specific
<b>Routing Preference</b>	This field specifies the Routing Preference	Merchant Specific

<b>Challenge Preference</b>	<p>Possible Values:</p> <ul style="list-style-type: none"> <li>• noPreference - You have no preference Whether a challenge should be performed. This is the default.</li> <li>• noChallengeRequested - You prefer that no challenge should be performed.</li> <li>• challengeRequested - You prefer that a challenge should be performed.</li> <li>• challengeMandated - There are local or regional mandates that mean that a challenge must be performed.</li> </ul> <p>Note: The interpretation of this field will vary from issuer to issuer, so Worldpay cannot guarantee any particular behavior on their part as a result of you setting this field.</p>	Merchant Specific
<b>challengeWindowSize</b>	With this field, the issuer should use to display the challenge.	Merchant Specific
<b>riskData</b>	This field 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
<b>JWTIssuer</b>	This field is an identifier of who is issuing the JWT. Use "5bd9e0e4444dce153428c940" in test. Worldpay will provide values for live.	Merchant Specific
<b>OrganisationalUnitId</b>	This field is the identity associated with your Account. Use "5bd9b55e4444761ac0af1c80" in test. Worldpay will provide the values for live.	Merchant Specific
<b>Authentication Method</b>	Mechanism used by the shopper to authenticate With you.	Merchant Specific
<b>Test or Production URL</b>	This is the URL where ddc form is submitted	Merchant Specific (Default value :
<b>Test or Production URL Challenge</b>	This is the URL where ddc form is submitted	Merchant Specific
<b>JWT MAC Key</b>	MAC value is used to verify that the contents of the JWT have not been tampered with. Worldpay suggested to use fa2daee2-1fbb-45ff-4444-52805d5cd9e0 in test. Worldpay will provide the	Merchant Specific



	values for live.	
<b>Is Disclaimer Mandatory?</b>	Merchants can choose if they want to make the disclaimer option mandatory for customers when they opt to save credit card.	Merchant Specific
<b>Show Disclaimer in the Frontend</b>	This toggle facilitates the Merchant with enabling the Disclaimer feature in their site.	Merchant Specific
<b>Klarna Product Type Values</b>	There are different potential product types that define when and how your shopper pays with Klarna Payment. Merchant needs to decide what options he wants for his shoppers.	Merchant Specific
<b>Enable Exemption Engine</b>	This toggle facilitates the Merchant with enabling the Exemption Engine feature in their site.	Merchant Specific
<b>Exemption Type</b>	<p>If Exemption engine is enabled, order request must be submitted with an additional element of &lt;exemption&gt; with attributes type and placement (both required). Possible Values:</p> <ul style="list-style-type: none"> <li>• LV - Low value exemption (less than 30 EUR).</li> <li>• LR - Low risk exemption.</li> <li>• OP - Optimized exemption (highest probability of issuer acceptance determined by the EE).</li> </ul>	Merchant Specific
<b>Exemption Placement</b>	<p>If Exemption engine is enabled, order request must be submitted with an additional element of &lt;exemption&gt; with attributes type and placement (both required). Possible Values:</p> <ul style="list-style-type: none"> <li>• AUTHORISATION- Applies exemption in authorization flow.</li> <li>• AUTHENTICATION - Applies exemption in authentication flow.</li> <li>• OPTIMISED - Applies the exemption placement that has the highest probability of issuer acceptance as determined by the EE.</li> </ul>	Merchant Specific



### 3.2.3 Manage Worldpay Payment Processor

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

[Merchant Tools](#) > [Ordering](#) > [Payment Processors](#)

#### Payment Processors

The list shows all payment processors currently defined for this site. Click New to create a custom payment processor. Use the check boxes and then click Delete to delete payment processors.

Select All	Processor ID	Description
<input type="checkbox"/>	<a href="#">BASIC_CREDIT</a>	Internal credit card handling with simple card number check only.
<input type="checkbox"/>	<a href="#">BASIC_GIFT_CERTIFICATE</a>	Internal gift certificate handling.
<input type="checkbox"/>	<a href="#">CYBERSOURCE_BML</a>	'Bill Me Later' online authorization through Cybersource (test and production systems).
<input type="checkbox"/>	<a href="#">CYBERSOURCE_CREDIT</a>	Cybersource online credit card authorization (test and production systems).
<input type="checkbox"/>	<a href="#">PAYPAL_CREDIT</a>	Paypal online credit card authorization (test and production systems).
<input checked="" type="checkbox"/>	<a href="#">PAYPAL_EXPRESS</a>	Paypal Express Checkout (test and production systems).
<input type="checkbox"/>	<a href="#">VERISIGN_CREDIT</a>	Verisign online credit card authorization (test and production systems).
<input checked="" type="checkbox"/>	<a href="#">Worldpay</a>	Worldpay Payment Processor

Showing 1 - 8 of 8 items

Fig: 2.3

### 3.2.4 Manage Worldpay Payment Methods

In the integration package, a payment method definition is provided in the file that you have already 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 Custom Options 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

**Payment Methods**

Payment methods are managed here. To create a new payment method, click the **New** button. To remove a payment method click the remove icon in the payment method row. The default payment methods can't be removed, and their IDs cannot be changed. When you select the CREDIT\_CARD payment method, credit/debit cards can be reordered through drag and drop.

Language: Default

ID ▲	Name	Enabled	Sort Ord
BML	Bill Me Later	No	5
BOLETO-SSL	Boleto	Yes	9
CHINAUNIONPAY-SSL	China Union Pay	Yes	13
CREDIT_CARD	Credit Card	Yes	4
ENETS-SSL	eNets	No	14
GIFT_CERTIFICATE	Gift Certificate	No	3
GIROPAY-SSL	Giro Pay	Yes	18
IDEAL-SSL	IDEAL	Yes	7

Fig: 2.4

**Custom**

**Merchant Code:**

**User Name:**

**Type:**

**Password:**  **Confirm:**

**Days after which Order expires:**  (Number)

**ELV Mandate Number:**

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"

**Manage Credit/Debit Cards**

[New](#) Language: Default

Type	Name	Enabled
Visa	Visa	Yes
Amex	American Express	Yes
Master	Master Card	No
Discover	Discover	Yes
MasterCard	MasterCard	Yes

**Visa Details**

€  to

¥  to

\$  to

Security Code Length: 3 characters

Card Number Verification: 4  
Example: 622126-622925 (Range) or 5018,5020,5038 (Individual values)

Card Number Length: 13,16  
Example: 16-19 (Range) or 16,18,21 (Individual values)

Checksum Verification: Yes

**WorldPay**

World Pay Card Type: VISA-SSL

Fig: 2.6

### 3.2.5 Managing 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.

Administration / Operations /

#### Job Schedules

Search by IDs...		<input type="button" value="Q"/>	
<input type="button" value="Enable"/>	<input type="button" value="Disable"/>	<input type="button" value="Run"/>	<input type="button" value="Delete"/>
		<input type="button" value="Priority"/>	
<input type="checkbox"/>	ID ▲	Status	Last Run
<input type="checkbox"/>	<a href="#">InitiateCancelOrderJobs</a>	OK	4/23/2018 7:03 am
<input type="checkbox"/>	<a href="#">OrderCleanUpJob</a>	-	MobileFirst
<input type="checkbox"/>	<a href="#">OrderInquiriesUpdateJob</a>	OK	4/23/2018 5:54 am
<input type="checkbox"/>	<a href="#">OrderNotificationUpdatesJob</a>	-	MobileFirst

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.

### 3.2.6 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

### 3.2.7 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 reads 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

Administration / Operations / Job Schedules /

## OrderNotificationUpdatesJob

General
Schedule and History
Resources
Step Configurator
Notification
Failure Handling

ID\*
OrderNotificationUpdatesJob

Description
Batch job for reading Custom Objects of Order Notifications and updating Order Statuses

Priority
☒ Normal ☐ High

Administration / Operations / Job Schedules /

## OrderNotificationUpdatesJob

General
Schedule and History
Resources
Step Configurator
Notification
Failure Handling

Global Parameters 0

Scope: MobileFirst
OrderNotificationUpdatesJob

### Select and configure step

ExecuteScriptModule
Executes a function exported by a script module. The module ID has to be configured at parameter 'ExecuteScriptModule.Module'.

ID\*
OrderNotificationUpdatesJob

Description
Batch job for reading Custom Objects of Order Notifications and updating Order Statuses

ExecuteScriptModule.Module\*
artridge/scripts/jobs/OrderNotificationUpdatesJob.js
Global Parameters

ExecuteScriptModule.FunctionName
orderNotificationUpdateJob
Global Parameters

☒ ExecuteScriptModule.Transactionnal
Global Parameters

ExecuteScriptModule.TimeoutInSeconds

Back
Assign

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.Transactionnal	Enabled

### **3.2.7.1 Error Handling for Order Notification Job**

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

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

Please refer to Appendix D for mapping of different status on receipt of different order notification from WP into BM.

### **3.2.8 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. 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** is the route exposed to get the History of Notifications received by particular Order.

This service takes 2 parameters as Http Parameters,

- (i) orderNo
- (ii) 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)"
      }
    ]
}
```

### 3.2.9 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

Administration / Operations / Job Schedules /

## OrderInquiriesUpdateJob ?

General Schedule and History Resources Step Configurator Notification Failure Handling

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

Priority

☒ Normal ☐ High

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

Administration / Operations / Jobs /

## OrderInquiriesUpdateJob ?

General Schedule and History Resources Job Steps Failure Handling Notification

Job Parameters 0

Scope: MobileFirst

OrderInquiriesUpdateJob

Select and Configure Step

ExecuteScriptModule ?

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

ExecuteScriptModule.Module\*

int\_worldpay\_core/cartridge/scripts/jobs/OrderInqui Job Parameters

ExecuteScriptModule.FunctionName

orderInquiriesUpdate Job Parameters

☒ ExecuteScriptModule.Transactiona Job Parameters

ExecuteScriptModule.TimeoutInSeconds

Job Parameters

☐ Always execute on restart

Back Assign

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.Transaction	Enabled

### 3.2.10 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 or 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

EnableJobMailerService	Yes
NotifyJobMailCC	admin@worldpay.com
NotifyJobMailFrom	admin@worldpay.com
NotifyJobMailTo	admin@worldpay.com

### 3.2.11 APM Lookup Service

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

<b>EnableAPMLookUpService</b> when enabled	<ol style="list-style-type: none"> <li>1. This service works for merchant code configured in site preference, which return APMs which are enabled for respective merchant code.</li> <li>2. All active Payments methods which have different merchant code configured in payment method section will be displayed</li> <li>3. All active payment methods other than Worldpay processor will be displayed</li> </ol>
<b>EnableAPMLookUpService</b> when disabled	<ol style="list-style-type: none"> <li>1. Lookup service will not be executed</li> <li>2. All active payment methods will be displayed</li> </ol>

[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.]

### 3.2.12 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 APMs 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

Custom	
Merchant Code:	merchantcode actual
User Name:	username actual
Type:*	DIRECT (Direct) <input type="button" value="v"/>
Password:	<input type="password" value="....."/> Confirm: <input type="password"/>

Service Credential Settings when service merchant settings to be picked up

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

Fields with a red asterisk (\*) are mandatory. Click **Apply** to save the details. Click **Reset** to revert to the last saved state.

These credentials are used by 1 service:

Name:*	Merchant ID
URL:	Payment Service URL
User:	User Name
Password:	Password

### 3.2.13 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/CNPJ and Installment Number) that are required by the payment service provider in Brazil are also captured.

### 3.2.14 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 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.

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

## OrderCleanUpJob

[General](#) / [Schedule and History](#) / [Resources](#) / [Step Configurator](#) / [Notification](#) / [Failure Handling](#)

ID\*

OrderCleanUpJob

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 :

Priority

☒ Normal ☐ High

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

The screenshot displays the 'OrderCleanUpJob' configuration page. The 'Job Steps' tab is active, showing a 'Scope' dropdown set to 'Module' and a list of job steps. A modal titled 'Select and Configure Step' is open, showing the configuration for the 'ExecuteScriptModule' step. The modal includes fields for ID, Description, ExecuteScriptModule.Module, ExecuteScriptModule.FunctionName, ExecuteScriptModule.Transactional (checked), and ExecuteScriptModule.TimeoutInSeconds. There are 'Job Parameters' links for each of these fields. At the bottom of the modal are 'Back' and 'Assign' buttons.

Administration / Operations / Jobs /

### OrderCleanUpJob

General / Schedule and History / Resources / **Job Steps** / Failure Handling / Notification

Job Parameters

Scope: Module

OrderCleanUpJob

Select and Configure Step

ExecuteScriptModule

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 specified at the order level.

ExecuteScriptModule.Module\*

int\_worldpay\_core/cartridge/scripts/jobs/OrderClear

Job Parameters

ExecuteScriptModule.FunctionName

orderCleanUp

Job Parameters

☒ ExecuteScriptModule.Transactional

Job Parameters

ExecuteScriptModule.TimeoutInSeconds

Job Parameters

☐ Always execute on restart

Back Assign

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 specified 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:

The screenshot shows a 'Custom' configuration section with several fields: 'Merchant Code', 'User Name', 'Type' (set to 'DIRECT (Direct)'), 'Password', and 'Confirm'. A red box highlights the 'Days after which Order expires' field, which is set to the value '5' with a '(Number)' label next to it.

### 3.2.15 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.

Administration / Operations / Job Schedules /

## InitiateCancelOrderJobs <sup>?</sup>

General Schedule and History Resources Step Configurator Notification **Failure Handling**

ID\*

InitiateCancelOrderJobs

Description

Initiate a Call to worldpay to cancel an order.

Priority

☒ Normal ☐ High

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

The screenshot displays the 'InitiateCancelOrderJobs' configuration page with the 'Job Steps' tab selected. The main area shows a list of job steps with a 'Scope' of '3 Sites Assigned' and a single step named 'InitiateCancelOrderJobs'. A modal window titled 'Select and Configure Step' is open, showing the configuration for the 'ExecuteScriptModule' step. The modal includes fields for ID, Description, Module, FunctionName, Transactional, and TimeoutInSeconds, each with a 'Job Parameters' link. There is also a checkbox for 'Always execute on restart' and 'Back' and 'Assign' buttons at the bottom.

Administration / Operations / Jobs /

**InitiateCancelOrderJobs** <sup>?</sup>

General Schedule and History Resources **Job Steps** Failure Handling Notification

Job Parameters <sup>0</sup>

Scope: 3 Sites Assigned

InitiateCancelOrderJobs

Select and Configure Step

ExecuteScriptModule <sup>?</sup>

ID\*  
InitiateCancelOrderJobs

Description  
Initiate a Call to worldpay to cancel an order.

ExecuteScriptModule.Module\*  
Int\_worldpay\_core/cartridge/scripts/jobs/initiateCan Job Parameters

ExecuteScriptModule.FunctionName  
InitiateCancelOrder Job Parameters

☐ ExecuteScriptModule.Transactionnal Job Parameters

ExecuteScriptModule.TimeoutInSeconds  
Job Parameters

☐ Always execute on restart

Back Assign

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/InitiateCancelOrderJobs
ExecuteScriptModule.FunctionName	initiateCancelOrder
ExecuteScriptModule.Transactional	Enabled

### 3.2.16 Managing 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.

### 3.2.17 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.



Name:	Merchant Hex Code
URL:	Payment URL
User:	User
Password:	●●●●●●●●

Fig 2.9

### 3.2.18 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)

Object Type 'Site Preferences' - Attribute Value Range Definition

This section lists the attribute value definitions of the attribute. Create a new attribute value definition by providing the "Value" and "Display Value" in the "New Value" section below. Click Apply to update the attribute value definitions. Click Reset to revert your changes. Click Delete to delete selected attribute value definitions.

Search Attribute Value Definitions

Value or Display Value:  Find

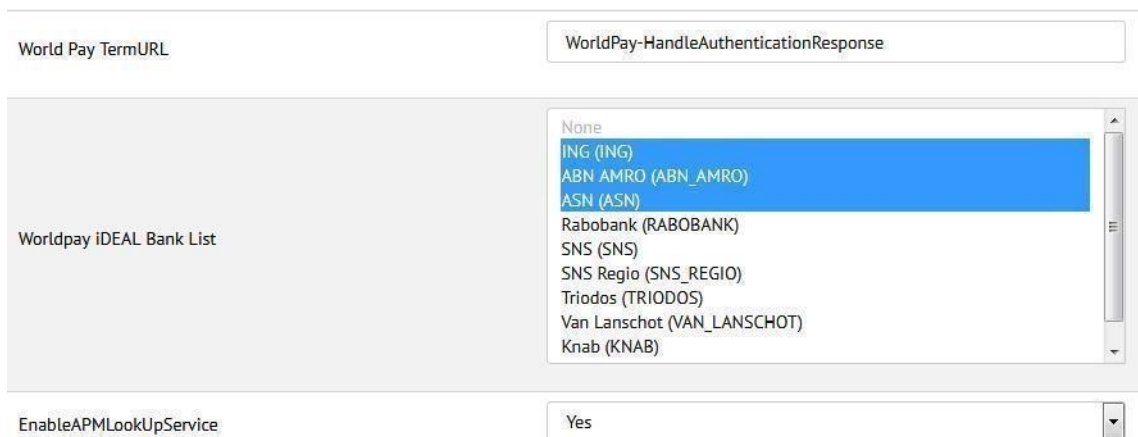
Select All	Value	Display Value	Default	Sorting
<input type="checkbox"/>	ING	ING	<input type="radio"/>	
<input type="checkbox"/>	ABN_AMRO	ABN AMRO	<input type="radio"/>	
<input type="checkbox"/>	ASN	ASN	<input type="radio"/>	
<input type="checkbox"/>	RABOBANK	Rabobank	<input type="radio"/>	
<input type="checkbox"/>	SNS	SNS	<input type="radio"/>	
<input type="checkbox"/>	SNS_REGIO	SNS Regio	<input type="radio"/>	
<input type="checkbox"/>	TRIODOS	Triodos	<input type="radio"/>	
<input type="checkbox"/>	VAN_LANSCHOT	Van Lanschot	<input type="radio"/>	
<input type="checkbox"/>	KNAB	Knab	<input type="radio"/>	
<input type="checkbox"/>	Test	Test	<input type="radio"/>	
New Value:				

Apply Reset Delete

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)



The screenshot shows a configuration form for Worldpay. At the top, there is a 'World Pay TermURL' field with the value 'WorldPay-HandleAuthenticationResponse'. Below this is a section titled 'Worldpay iDEAL Bank List' which contains a dropdown menu. The dropdown menu is open, showing a list of banks: None, ING (ING), ABN AMRO (ABN\_AMRO), ASN (ASN), Rabobank (RABOBANK), SNS (SNS), SNS Regio (SNS\_REGIO), Triodos (TRIODOS), Van Lanschot (VAN\_LANSCHOT), and Knab (KNAB). The 'None' option is currently selected. At the bottom of the form, there is a checkbox labeled 'EnableAPMLookUpService' which is checked, and a 'Yes' button.

Fig: 2.7

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

### 3.2.19 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



The screenshot shows a 'Custom' configuration form. It has a header bar labeled 'Custom'. Below the header, there are four fields: 'Merchant Code:', 'User Name:', 'Type:', and 'Password:'. The 'Type:' field is a dropdown menu with 'DIRECT (Direct)' selected. The 'Password:' field is a text input field with a 'Confirm:' label next to it.

### 3.2.20 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 to Preferences > 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** SitePreferences.

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

The screenshot shows the 'Worldpay Configurable HPP APM' configuration page. At the top, there is a text input field with an 'Add' button. Below this, the 'Worldpay Configurable HPP APM' section contains three buttons: 'WorldPay', 'CHINAUNIONPAY-SSL', and 'ENETS-SSL'. A note states: 'Add the APM's that require configurable hosted payment pages.' Below this, there are two toggle switches. The first is 'Worldpay Address Details Read Only' with a dropdown set to 'Yes' and a 'Yes' label; a note below it says 'Set this value to true if address details needs to be made read only'. The second is 'Worldpay Hide Address Details' with a dropdown set to 'Yes' and a 'Yes' label; a note below it says 'Set this value to hide address details on V3 Payment pages'. At the bottom, the 'Worldpay Installation Id' is shown as a text input field containing the value '1,029,012'.

Fig 2.9

### 3.2.21 Hosted Payment Pages iframe or light box 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

WorldPay Credit Card - Redirect

YANDEXMONEY-SSL Yandex

**WorldPay Details**

User Name:

Type:

Password:  Confirm:

Days after which Order expires: ☐ (Number)

SEPA Mandate Number:

Worldpay Statement Narrative:

HPP CustomOptions JSON: 

```
{
  "type": "iframe",
  "lightboxMaskOpacity": 50,
  "lightboxMaskColor": "#000000",
  "debug": false
}
```

[HTML Editor](#)

### 3.2.22 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

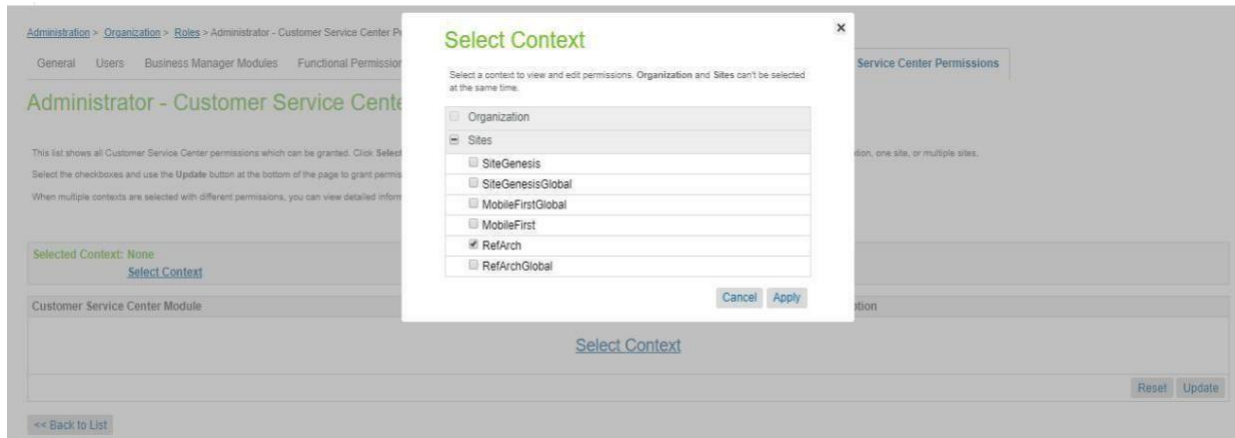
### 3.2.23 Country Currency and Locale Mapping for Klarna

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 manage

### 3.2.24 Managing the Customer 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)



### 3.2.25 Setting up Apple Pay

#### Business Manager Configuration:

##### Step 1: Enabling Applepay Payment Method

- Go to Merchant Tools > Ordering > Payment Methods
- Enable the Payment Method with the ID as *DW\_APPLE\_PAY*
- Select the Payment Processor as *Worldpay*
- Under custom section, select the type as *DIRECT*
- Finally it should like below

The screenshot shows the 'DW\_APPLE\_PAY Details' configuration form. The 'Payment Processor' is set to 'Worldpay <Worldpay>'. The 'Countries' and 'Currencies' are set to 'All', each with an 'Edit' button. The 'Customer Groups' are set to 'All' with an 'Edit' button. The 'Min/Max Payment Ranges' are set to 'Min/Max Payment Ranges'. In the 'Custom' section, the 'Type' is set to 'DIRECT (Direct)'. The 'Merchant Code' and 'User Name' fields are empty. The 'Password' and 'Confirm' fields are empty. The 'Days after which Order expires' field is empty with a '(Number)' placeholder. The 'CERD Module Number' field is empty.

S

## Step 2: Configuring the Applepay Preferences

- Go to Merchant Tools > Site Preferences > Apple Pay
- Fill in the form as shown below.

Preference Name	Configuration
Apple Pay Enabled?	Select this to enable Apple Pay
Apple Merchant ID	Enter your Apple merchant ID
Apple Merchant Name	Enter your Apple merchant name
Country Code	Enter the country code based on Worldpay account
Merchant Capabilities	Choose them based on Worldpay account
Supported Networks	Choose them based on Worldpay account
Required Shipping Address Fields	Choose them based on Worldpay account
Required Billing Address Fields	Choose them based on Worldpay account
Inject Apple Pay Button on Mini Cart?	Choose this to display Apple Pay button in Mini Cart
Inject Apple Pay Button on Cart Page?	Choose this to display Apple Pay button in Cart
Redirect Pages to HTTPS?	Redirect Pages to HTTPS
Use Commerce Cloud Apple Pay Payment API?	Not required. Leave this unchecked
Payment Provider URL	Not required. Leave this unchecked
Payment Provider Merchant ID	Not required. Leave this unchecked
API Version	Set to v1
Use Basic Authorization	This must be enabled.
Payment Provider User	Not required. Leave this unchecked
Payment Provider Password	Not required. Leave this unchecked
Use JWS?	This must be enabled.
JWS Private Key Alias	Match the name of Alias imported in Private Keys

Click on Register Sandbox/Production to register the domain accordingly.

- Click on Register Sandbox for lower environment.
- Click on Register Production for Production environment.

## Step 3: Configuring the Private Key

- Go to Administration > Operations > Private Keys and Certificates
- Select the file (.p12) from which was received from Worldpay
- Give the alias name as "applepayworldpay" for example. It can be anything.
- Note that the alias name should match with JWT Private Key Alias in Apple Pay Preferences form
- Provide the Source Password which should have received along with p12
- Leave Hostname as blank.
- Click on Import and fill the form as below.

## 4. PRODUCTION SETUP

### 4.1.1 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
  - a) Worldpay Client Side Encryption Public Key
  - b) Worldpay MAC Secret Code
  - c) Worldpay Merchant Number
  - d) Worldpay Installation Id
6. In case if for separate merchant to be used at APM level, then service detail modification to be done in “Merchant Tools > Ordering > Payment Method.



## 5. OPERATIONS, MAINTENANCE

### 5.1.1 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.

S. 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

### 5.1.2 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.

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

### 5.1.3 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

## 6. USER GUIDE

### 6.1.1 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	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, 49118300000000

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
<b>AUTHORISED</b>	Order Status: NEW Payment Status: no change Export Status: READY FOR EXPORT Confirmation Status : CONFIRMED
<b>CANCELLED</b>	Order Status: FAILED/CANCELLED Payment Status: NOT PAID Export Status: NOT EXPORTED Confirmation Status : NOT CONFIRMED
<b>CAPTURED</b>	Order Status: COMPLETED Payment Status: PAID Export Status: no change Confirmation Status : no change
<b>SENT_FOR_REFUND</b>	Order Status: no change Payment Status: no change Export Status: no change Confirmation Status : no change
<b>REFUSED</b>	Order Status: FAILED Payment Status: NOT PAID Export Status: NOT EXPORTED Confirmation Status : NOT CONFIRMED
<b>SETTLED</b>	Order Status: no change Payment Status: no change Export Status: no change Confirmation Status : no change
<b>INFORMATION_REQUESTED</b>	Order Status: no change Payment Status: no change Export Status: no change Confirmation Status : no change
<b>CHARGED_BACK</b>	Order Status: no change Payment Status: no change Export Status: no change Confirmation Status : no change
<b>EXPIRED</b>	Order Status: FAILED Payment Status: NOT PAID Export Status: NOT EXPORTED Confirmation Status : NOT CONFIRMED

## APPENDIX E: Error Codes and Error Message

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

- 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 let us say, CREDIT\_CARD, and see the Payment Processor). If it is worldpay, change it to some other desired processor (e.g. 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 worldpay.

Go to Merchant Tools > Site Preferences > 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 transactions.

### 1) Cartridge Path is set properly

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

Administration > Sites > Manage Sites > RefArch - Settings

General **Settings** Cache Site Status Page Meta Tag Rules

### RefArch - Settings

Click Apply to save the details. Click Reset to revert to the last saved state.

Instance Type:

Deprecated: The preferred way of configuring HTTP and HTTPS hostnames is by using new features of the site aliases configuration ("SEO > Aliases Configuration"). The HTTP/HTTPS intended only to support an older configuration style.

HTTP Hostname:

HTTPS Hostname:

Instance Type: All

Cartridges:

Effective Cartridge Path:

Go to Administration > Sites > Manage Sites > Business Manager – Settings  
Check if your worldpay cartridges are added there

Administration > Sites > Manage Sites > Business Manager - Settings

Settings **Cache** Hostnames

### Business Manager - Settings

Click Apply to save the details. Click Reset to revert to the last saved state.

Instance Type:

Deprecated: Up to two instance specific hostname aliases for Business Manager can be configured here:

HTTP Hostname:

HTTPS Hostname:

Instance Type: All

Cartridges:

### 2) Payment Processor with id Worldpay is available

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

Merchant Tools > Ordering > Payment Processors

### Payment Processors

The list shows all payment processors currently defined for this site. Click New to create a custom payment processor. Use the checkboxes and then click Delete to delete payment processors. Note that standard

Select All	Processor ID	Description
<input type="checkbox"/>	BASIC_CREDIT	Internal credit card handling with simple card number check only.
<input type="checkbox"/>	BASIC_GIFT_CERTIFICATE	Internal gift certificate handling.
<input type="checkbox"/>	CYBERSOURCE_BML	'Bill Me Later' online authorization through Cybersource (test and production systems).
<input type="checkbox"/>	CYBERSOURCE_CREDIT	Cybersource online credit card authorization (test and production systems).
<input type="checkbox"/>	PAYPAL_CREDIT	Paypal online credit card authorization (test and production systems).
<input type="checkbox"/>	PAYPAL_EXPRESS	Paypal Express Checkout (test and production systems).
<input type="checkbox"/>	VERISIGN_CREDIT	Verisign online credit card authorization (test and production systems).
<input checked="" type="checkbox"/>	Worldpay	Worldpay Payment Processor

### 3) 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.

ALIPAY-SSL Details

Description:

Image:  [Select](#)

Payment Processor: **Worldpay <Worldpay>**

Countries: (11) US, JP, CN, TW (missing), HK (missing), TH (missing), SG (missing), AU (missing), KR (missing), NZ (missing), CA (missing) [Edit](#)

Currencies: All [Edit](#)

Customer Groups: All [Edit](#)

Min/Max Payment Ranges: [Min/Max Payment Ranges](#)

¥ 1 to 3000

€ 0.01 to 380

¥ to

### 4) Go to Administration > Operations > Services and check if Service is available or not

Administration > Operations > Services

Services Profiles Credentials

Services [?](#)

Select All	Name	Type	Profile	Credentials	Status
<input type="checkbox"/>	int_worldpay.http.worldpay.payment.post	HTTP	worldpayprofile	SAPIENTNITROECOM	Live

[New](#) [Delete](#)

### 5) Navigate to

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

### 6) 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

### 7) Go to Administration > Operations > Custom Log Settings, and cross check if worldpay debug is on or not

Administration / Operations /

## Custom Log Settings [?](#)

On this page you can configure the writing of custom code log messages. System log messages aren't configurable

### Custom Log Filters

Active	Log Category	Log Level
<input type="checkbox"/>	<input type="text" value="Enter a log category..."/>	WARN <a href="#">Add</a>
<input type="checkbox"/>	root	DEBUG <a href="#">Add</a>
<input checked="" type="checkbox"/>	root	DEBUG <a href="#">Delete</a>
<input checked="" type="checkbox"/>	worldpay	DEBUG <a href="#">Delete</a>

