

**Affirm[[1]](#footnote-1)**

Version 15.1.0



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# Summary

This document describes how to implement Affirm cartridge in Demandware site. This cartridge can be configured in the Business Manager and contains all elements necessary to perform a successful best practices implementation of Affirm.

# Component Overview

## Functional Overview

“Buy with Affirm” is a closed-end installment loan product with standard terms of 3, 6, or 12 months offered by [Cross River Bank](http://www.crossriverbank.com/) through Affirm’s technology platform. “Buy with Affirm” allows you to buy goods or services offered by online merchants with whom Affirm partners (“Merchants”). If you agree to use “Buy with Affirm,” Cross River Bank will pay the Merchant on your behalf in exchange for your promise to repay the same amount plus a finance charge as determined by your creditworthiness.

## Use Cases

Customers can use Affirm payment method to pay their purchases.

On PDP Customers can see Affirm promotions beneath the price displayed monthly payment.

## Limitations, Constraints

Affirm cartridge is having following limitation for purchasing product. List of good that is excluded from cartridge support for buying:

* Gift Certificates

Cartridge is handing default implementation of Gift Certificates in Demandware platform. Any 3rd integration that is not based on Demandware Gift Certificate functionality will NOT be handle by cartridge and requires additional development.

## Compatibility

Cartridge we design and develop for: Demandware platform version 15.5, SiteGenesis 2.0 version 15.5 and Compatibility mode 15.5

## Privacy, Payment

Affirm stores and processes your information maintaining physical, electronic and procedural safeguards. We maintain physical security measures to guard against unauthorized access to systems and use safeguards such as firewalls and data encryption. We enforce physical access controls to our buildings, and we authorize access to personal information only for those employees who require it to fulfill the responsibilities of their jobs.

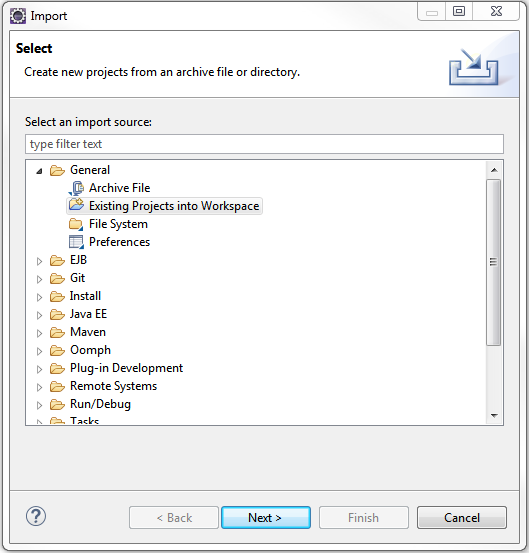
# Implementation Guide

## Setup

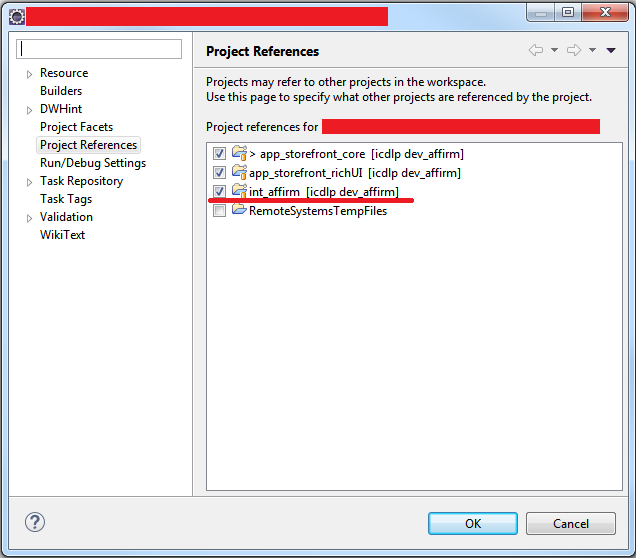
Section describes step that should be done before cartridge configuration in Business Manager.

### *Deploying cartridge to a sandbox*

1. Download cartridge source code.
2. Import affirm cartridge to a workspace in Demandware UX Studio.



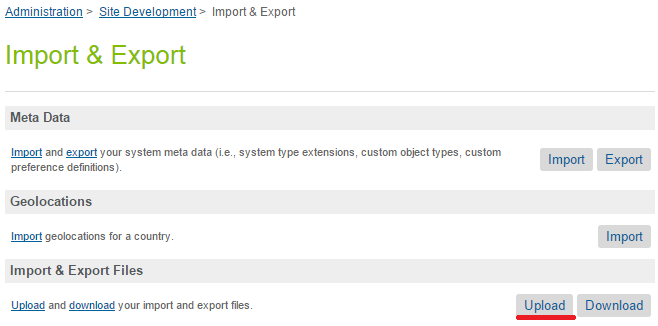
1. Add affirm cartridge to Project Reference of Demandware Connection.



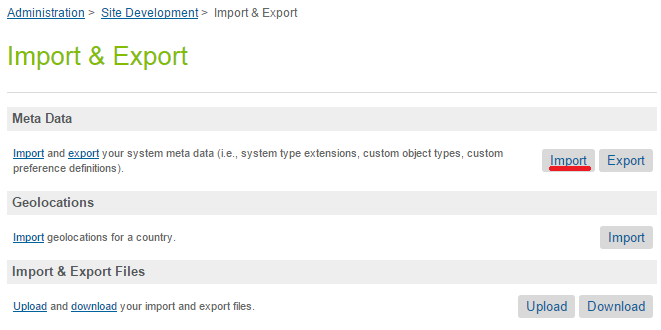
1. Wait until Demandware completes workspace built and uploading source codes to a sandbox.

### *Sandbox setup*

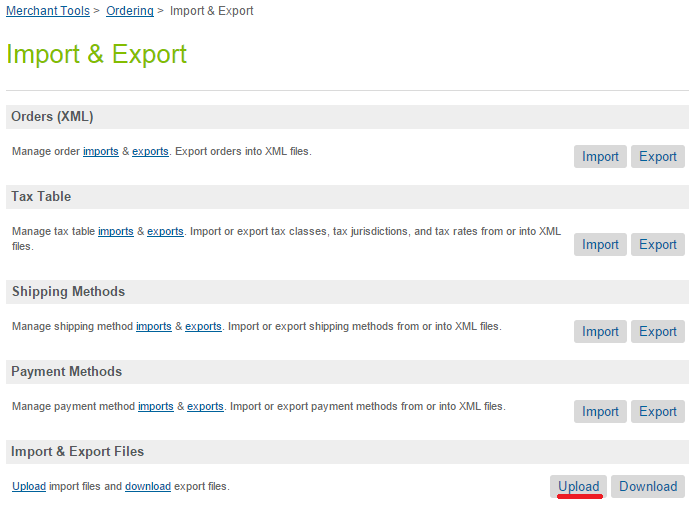
1. Download cartridge source code.
2. Find affirm\_metadata.xml in folded metadata.
3. Go to Administration > Site Development > Import & Export. Click Upload button and select affirm\_metadata.xml.



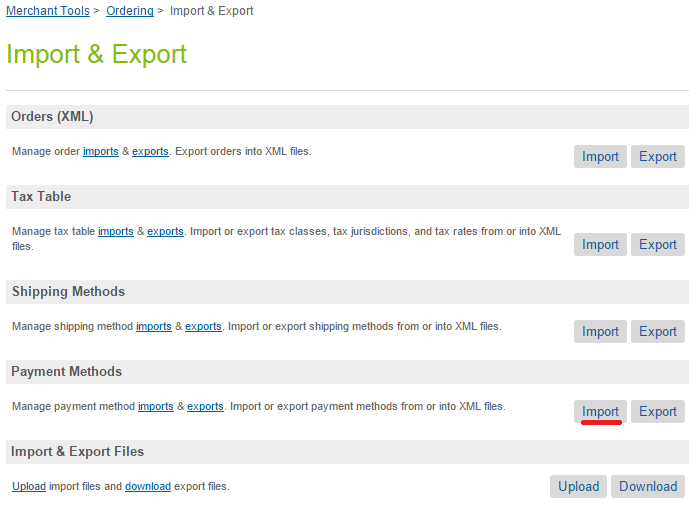
1. Click Import button and select affirm\_metadata.xml.



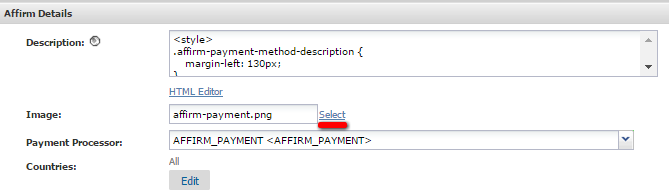
1. Go to Merchant Tools > Ordering > Import & Export. Click Upload button and select affirm\_payment.xml.



1. Click Import button and select affirm\_payment.xml.



1. Go to [Merchant Tools](https://astound17.alliance-prtnr-eu01.dw.demandware.net/on/demandware.store/Sites-Site/default/ViewApplication-SelectSite?MenuGroupID=ChannelMenu&ChannelID=cdDHIiaag164kaaadmbwQoeF7W&SelectedSiteID=cdDHIiaag164kaaadmbwQoeF7W) > [Ordering](https://astound17.alliance-prtnr-eu01.dw.demandware.net/on/demandware.store/Sites-Site/default/SiteNavigationBar-ShowMenuitemOverview?CurrentMenuItemId=orders) > Payment Processors. Click NEW button and create payment processor with ID - AFFIRM\_PAYMENT.
2. Verify that Site Preferences group was created with id - AFFIRM\_PAYMENT and name – Affirm.
3. Verify that Payment Method was created with id - Affirm and name – Affirm. Enable Affirm payment method
4. You can add image for your payment method.



## Configuration

This section describes configuration of sandbox.

### Site Preferences configuration

1. Go to Merchant Tools > Site Preferences > [Custom Site Preferences](https://astound17.alliance-prtnr-eu01.dw.demandware.net/on/demandware.store/Sites-Site/default/CustomPreferences-View?PreferenceType=SITE) > Affirm
2. Enable attribute - Affirm Online Status. This attributes defines status (enable/disable) of Affirm integration.
3. Fill site preference attribute - Affirm Finance Key with provided finance key from Affirm.
4. Fill site preference attribute - Affirm Public Key with provided public key from Affirm.
5. Fill site preference attribute - Affirm Private Key with provided private key from Affirm.
6. Select a value from Affirm Payment Action dropdown. This attribute defines what Affirm’s payment actions will be done in checkout process
7. Select a value from dropdown Affirm Mode. This attributes defines in which mode cartridge will work.
8. Enable attribute - Affirm Cart Promo Status. This attributes defines status (enable/disable) of Monthly Payment Promotion.
9. Fill site preference attribute - Affirm Apr Value with annual percentage rate.
10. Fill site preference attribute - Affirm Promo Text with promo template, which will be displayed in the Cart and Product Detail Page. Next placeholders are allowed: {dollars} and {cents}. They will be replaced appropriately for dollars and cents values.
11. Select a value from Affirm Promo Month dropdown. This attribute defines term of the loan.

### Affirm Services configuration

1. Go to Administration > Operations > Services and select Credentials tab.
2. Click NEW button and create new Credential with provided data:

* Name – should be filled with value – Affirm.
* URL – can be left empty.
* User – fill with Affirm Public Key.
* Password – fill with Affirm Private Key.

1. Go to Administration > Operations > Services and select Profile tab.
2. Click NEW button and create new Profile with provided data:

* Name – should be filled with value – Affirm.
* Timeout – fill with correct value.

1. Go to Administration > Operations > Services and select Services tab.
2. Click NEW button and create new Service with provided data:

* Name – should be filled with value – affirm.auth.
* Type – HTTP.
* Enable – checked.
* Service Mode – select Live value from dropdown.
* Log Name Prefix - should be filled with value – affirm.
* Communication Log Enabled - checked.
* Profile – select Affirm value from dropdown.
* Credentials – select Affirm value from dropdown.

1. Click NEW button and create new Service with provided data:

* Name – should be filled with value – affirm.capture.
* Type – HTTP.
* Enable – checked.
* Service Mode – select Live value from dropdown.
* Log Name Prefix - should be filled with value – affirm.
* Communication Log Enabled - checked.
* Profile – select Affirm value from dropdown.
* Credentials – select Affirm value from dropdown.

1. Click NEW button and create new Service with such provided data:

* Name – should be filled with value – affirm.refund.
* Type – HTTP.
* Enable – checked.
* Service Mode – select Live value from dropdown.
* Log Name Prefix - should be filled with value – affirm.
* Communication Log Enabled - checked.
* Profile – select Affirm value from dropdown.
* Credentials – select Affirm value from dropdown.

1. Click NEW button and create new Service with provided data:

* Name – should be filled with value – affirm.void.
* Type – HTTP.
* Enable – checked.
* Service Mode – select Live value from dropdown.
* Log Name Prefix - should be filled with value – affirm.
* Communication Log Enabled - checked.
* Profile – select Affirm value from dropdown.
* Credentials – select Affirm value from dropdown.

### Affirm Job configuration

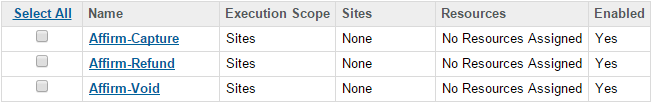
1. Go to Administration > Operations > Import & Export.
2. Click Upload button and select affirm\_jobs.xml.



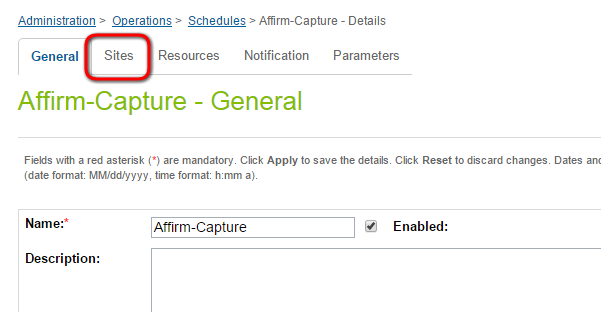
1. Click Import button and select affirm\_jobs.xml.



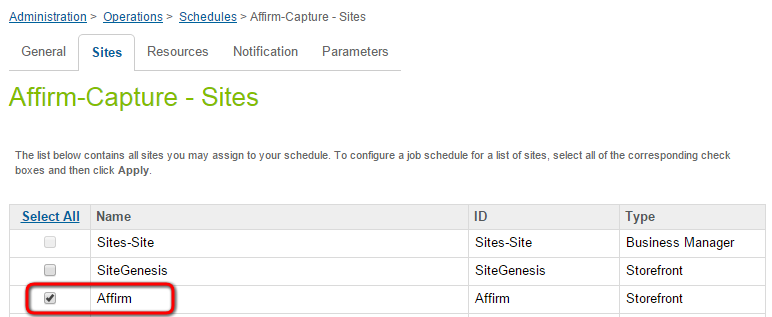
1. Go to Administration > Operations > Schedules
2. Verify that each imported job was created.



1. Go into job “Affirm-Capture” and click on tab “Sites”



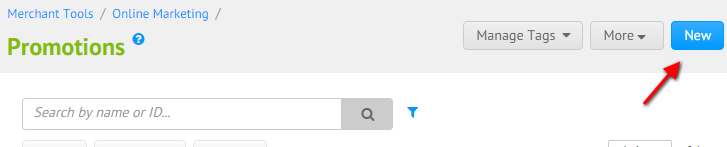
1. Check needed site and click “Apply”



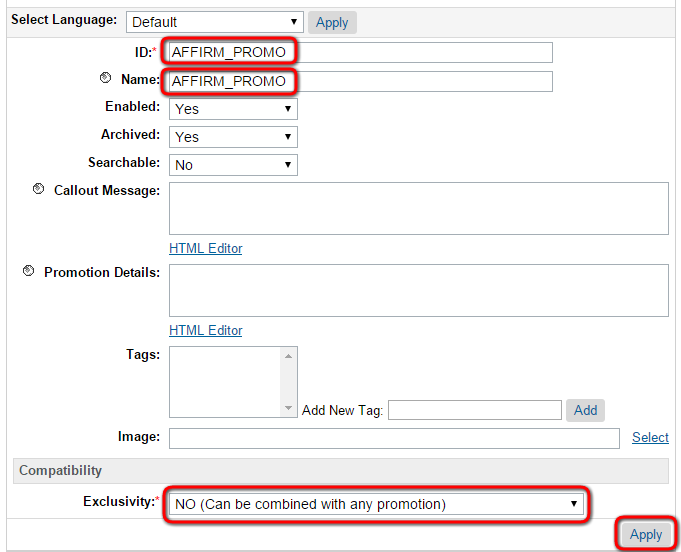
1. Go to Administration > Operations > Schedules and repeat step 5-7 for other jobs

### Monthly Payment promotion configuration

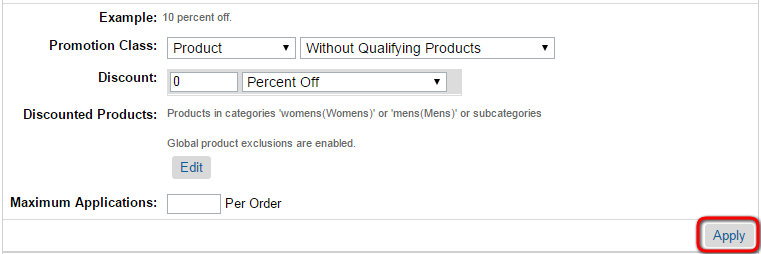
1. Go to Merchant Tools > Online Marketing > Promotions
2. Click the button “New”.



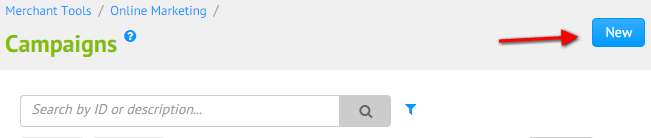
1. Fill the promotion “ID”, “Name” and select option “No” of selector “Exclusivity”. After that click button “Apply”. ID “AFFIRM\_PROMO” is obligatory.



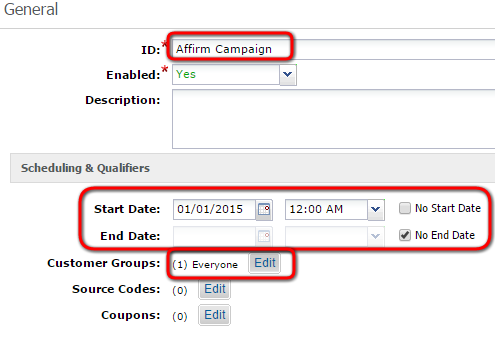
1. Create fake promotion rule for displaying monthly payment.



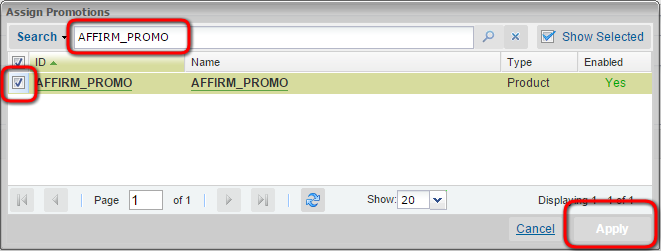
1. Go to Merchant Tools > Online Marketing > Campaigns
2. Click the button “New”



1. Set the promotion ID, start and end dates, and select the target customer groups.



1. Click button “Add Experience” and select “Add promotion”. In opened window find promotion “AFFIRM\_PROMO”, check it and click “Apply” button.



1. Click “Apply” for creating campaign.

## Custom Code

This section describes changes that should be done to a merchant storefront cartridge.

1. Find and open template –

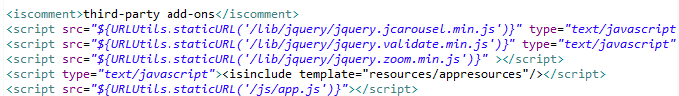
storefront/cartridge/templates/default/components/header/htmlhead\_UI.isml. Find following code.

D:\projects\Afirm\documentation\IG\head_ua.png

Paste code after.

<isinclude template=*"affirm/affirmheader"* />

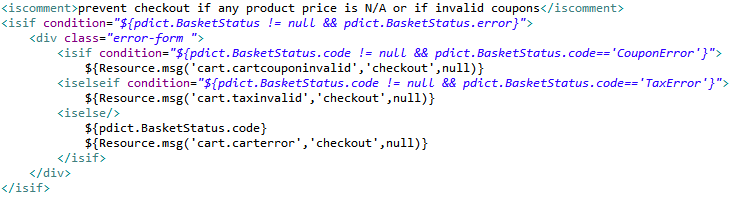
1. Find and open template – storefront/cartridge/templates/default/components/footer/footer\_UI.isml. Find following code.



Paste code after.

<isinclude template=*"affirm/affirmfooter"* />

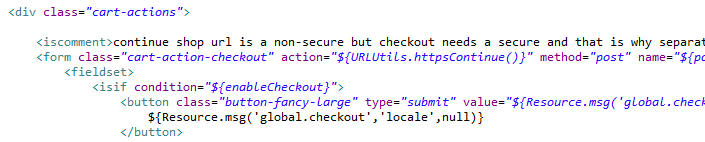
1. Find and open template – storefront/default/checkout/cart/cart.isml. Find following code.



Paste code after.

<isinclude template=*"affirm/affirmerrors"* />

Find following code.

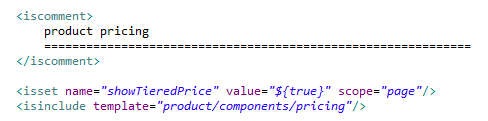


Paste code above.

<isinclude template=*"affirm/affirmpromo"*/>

1. Find and open template –

torefront/cartridge/templates/default/product/productcontent.isml. Find following code.



Paste code after.

<isinclude template=*"affirm/affirmpromo"* />

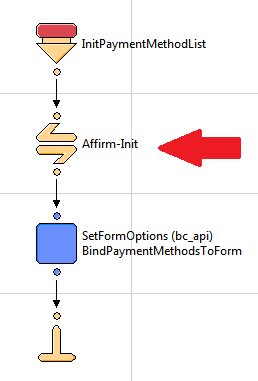
1. Find and open template – storefront/default/checkout/billing/paymentmethods.isml. Find following code.



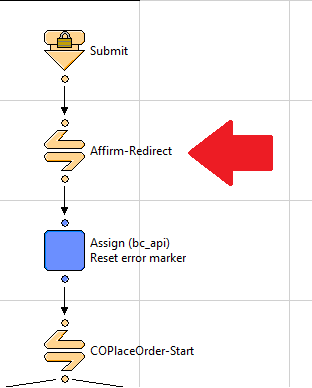
Paste code after.

<isinclude template=*"affirm/affirmpaymentmethod"* />

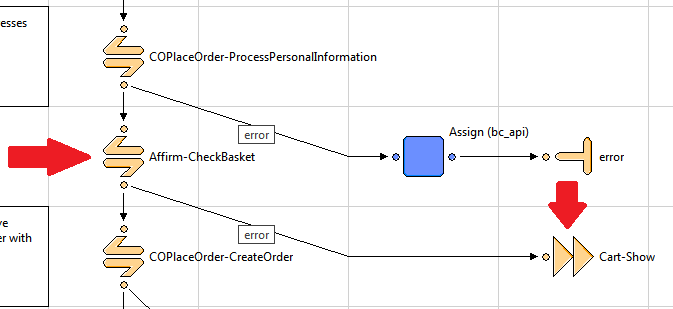
1. Find and open pipeline – storefront/pipelines/COBilling.xml. Find start node – InitPaymentMethodList. Modify pipeline by adding additional call node – Affirm-Init



1. Find and open pipeline – storefront/pipelines/COSummary.xml. Find start node – Submit. Modify pipeline by adding additional call node – Affirm-Redirect.



1. Find and open pipeline – storefront/pipelines/COPlaceOrder.xml. Find start node – Start. Modify pipeline by additional call node – Affirm-CheckBasket.



## External Interfaces

Commutation between Affirm service and Demandware Platform is based on Affirm REST API. All outside traffic from Demandware instance is handled by HTTPS protocol.

In Demandware platform each API call to Affirm is wrapped into Demandware Service that is handling monitoring, logging functionality.

Affirm API documentation description - <http://docs.affirm.com/>

## Testing

Test scenarios and test cases are included in document Affirm Test Cases.docx

# Operations, Maintenance

## Data Storage

Affirm cartridge is extending Demandware system objects to store related Affirm data form request. Following objects that were extended: Order.

Order object store following data from Affirm side:

| Name | Type | Description |
| --- | --- | --- |
| Affirm Status | Enum of String | Affirm status of an order |
| Affirm External Id | String | Affirm Charge ID |
| Affirm Payment Action | Enum of String | Defines by what action order was placed |
| Affirm Token | String | Affirm Checkout token |

## Support

In case of any availability issues, Affirm support can be reached via email at [help@affirm.com](mailto:help@affirm.com).

# User Guide

## Roles, Responsibilities

There are no recurring tasks that need to be fulfilled to get Affirm cartridge works. As long as the configuration details are correct in your Site Preferences based on instructions in section 3.1 3.2 and 3.3 that is all you’ll need to do.

## Business Manager

Cartridge doesn’t extend Business Manager

## Storefront Functionality

Affirm cartridge is an implementation of Affirm payment method. In Affirm is represented as a default payment method in Demandware platform. Such implementation provides native support of Demandware Payment method.

# Known Issues

|  |  |
| --- | --- |
| **#** | **Description** |

# Release History

|  |  |  |
| --- | --- | --- |
| **Version** | **Date** | **Changes** |
| 15.1.0 | 07/03/2015 | Initial release |

1. e.g. <int\_affirm> [↑](#footnote-ref-1)