# TABBY SFRA INTEGRATION GUIDE



## 1. Introduction

Tabby is a **simple** and **secure** way to check out online. Shoppers don’t have to enter their card details at the checkout. tabby pays you immediately. We then collect the funds for the purchased items directly from the shopper.

Tabby offers 3 products: installments, pay later (customers pay in 14 days after placing an order or after product delivery) and monthly billing (a subtype of pay later where customers pay in the end of the month for all their purchases in one bill).

This implementation guide describes how to integrate the tabby SFRA payment cartridge into an SFCC reference application.

The tabby LINK cartridge package contains 3 folders:

1. int\_tabby\_core – tabby core implementations both for sitegenesis and sfra
2. int\_tabby\_sfra – tabby sfra changes/implementations
3. bm\_tabby – tabby Business Manager module

Compatibility: SFRA v6.0.0 Compatibility Mode 21.7

## 2. Implementation Guide

2.1 Installation

* + 1. Adding the Cartridges in Salesforce Commerce Cloud Studio

1. Open package.json and ensure the base path mentioned is correctly resolved (please provide the correct path to app\_storefront\_base),
2. Open the command prompt and run ‘npm install’ (assuming node.js (12.21.0 and above) is installed) to install all of the local dependencies.
3. Run the “npm run compile”.
4. Create the dw.json file

{

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

"username": "yourlogin",

"password": "yourpwd",

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

}

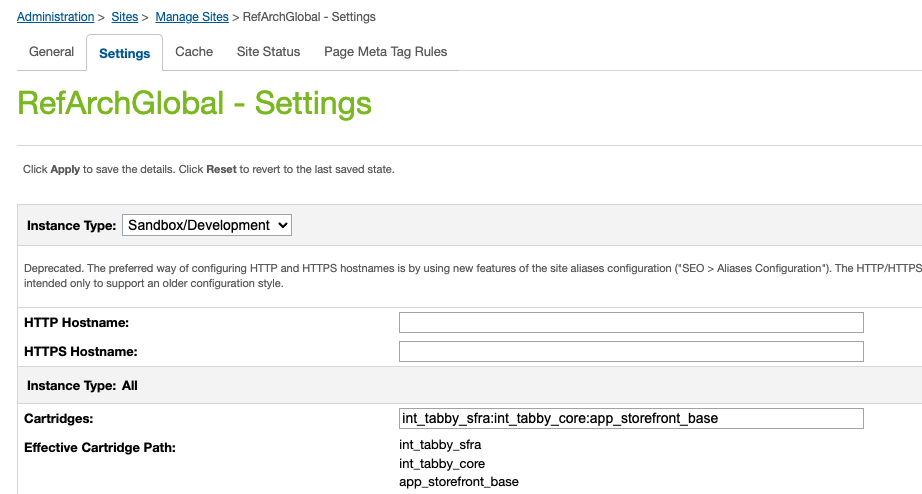
1. Upload the code to the environment using the command ‘npm run uploadCartridge’, that will upload the **int\_tabby\_core** , **int\_tabby\_sfra** and **bm\_tabby** cartridges to the sandbox you specified in dw.json file.
   * 1. Activating the Cartridges in Business Manager

Before the Tabby functionality can become available to Reference Architecture, the cartridges needs to be added to the cartridge path of the Site. 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 before **app\_storefront\_base**

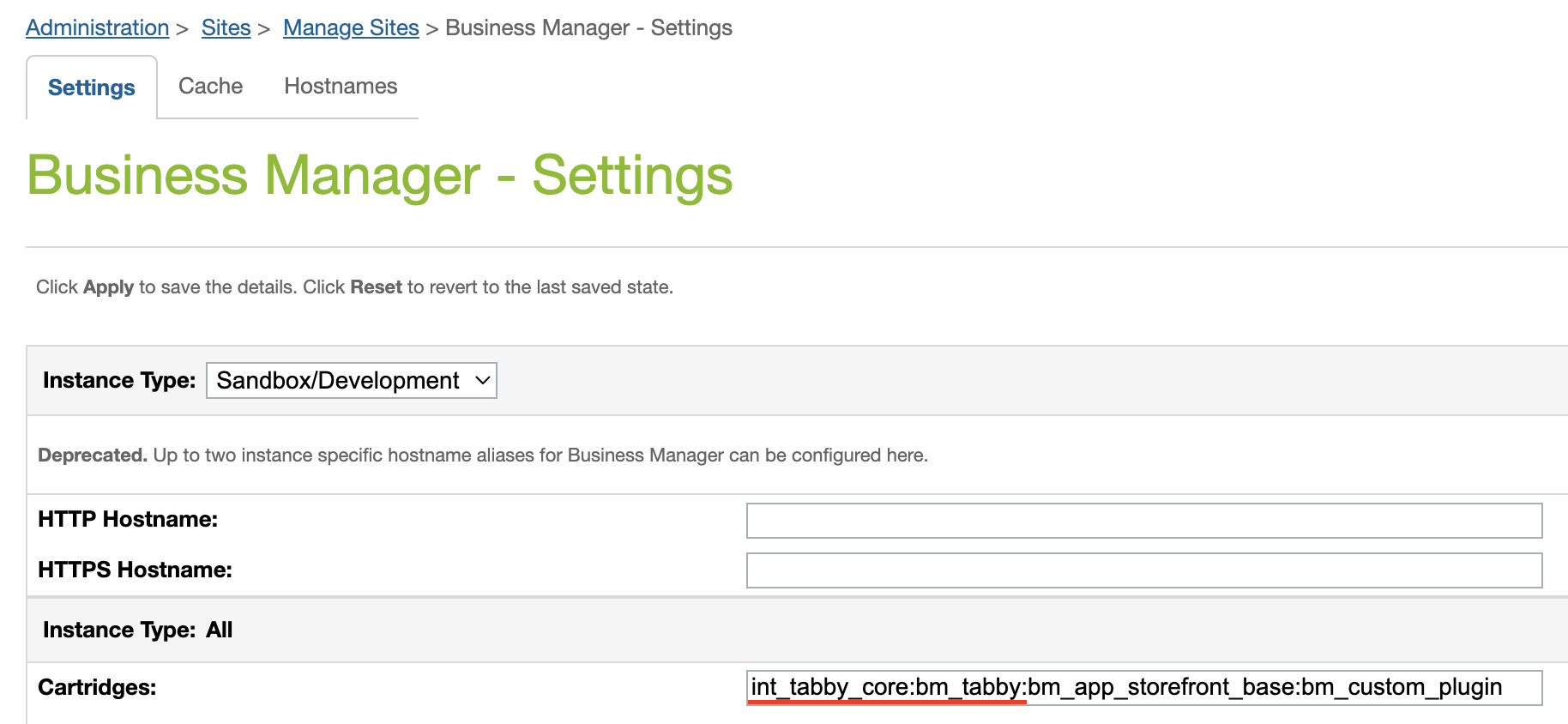
**int\_tabby\_sfra:int\_tabby\_core**

example: **int\_tabby\_sfra:int\_tabby\_core: app\_storefront\_base**



1. Click Apply
2. Repeat steps 3 to 5 for each site that is to use Tabby.
3. To run the Jobs and have tabby BM module, Navigate to Administration > Sites > Manage Sites.
4. Go to “Manage the Business Manager site”
5. In the textbox cartridges add to the start:

**int\_tabby\_core:bm\_tabby**



* 1. Configuration
     1. Importing Meta Data with a single Site Import

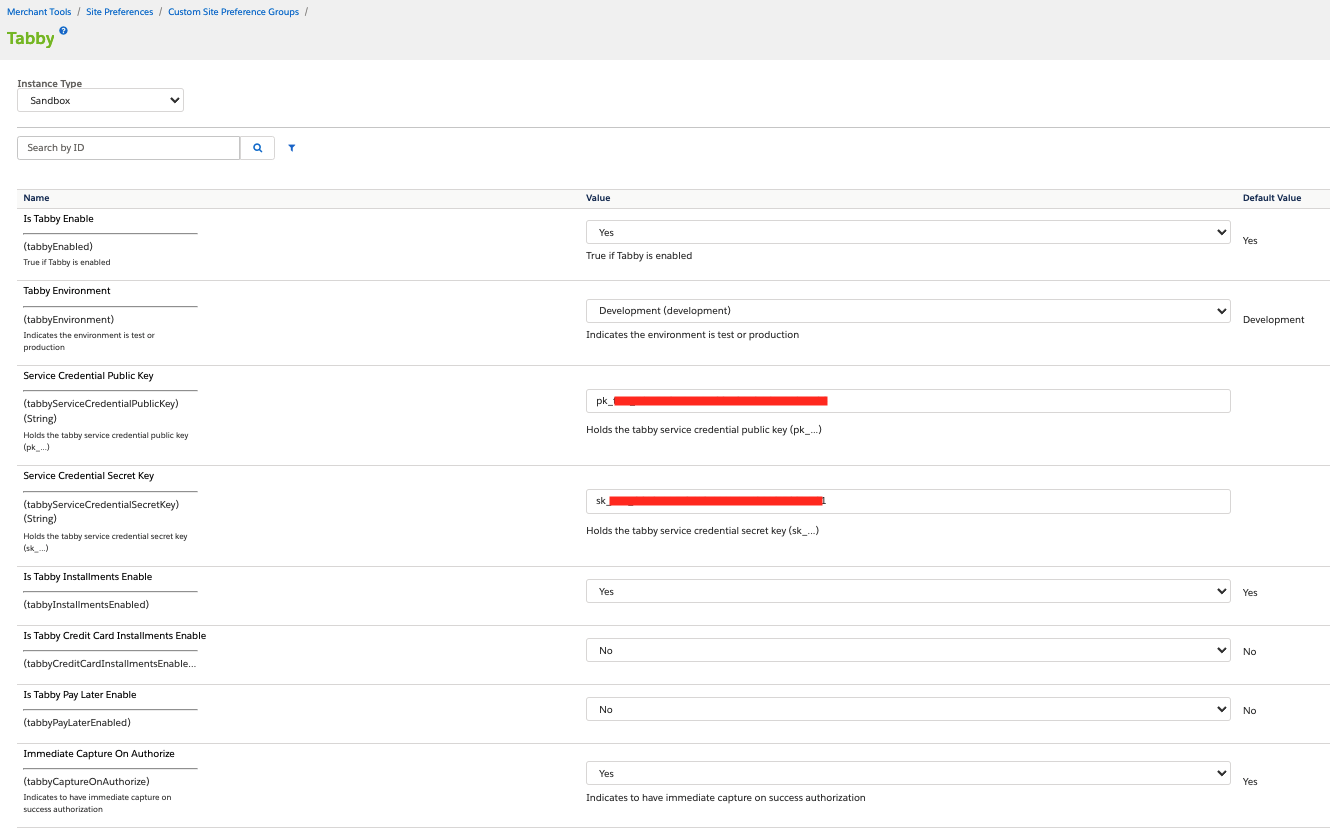
All import files are in the import folder (metadata) within cartridge installation pack. To import all necessary Tabby settings,

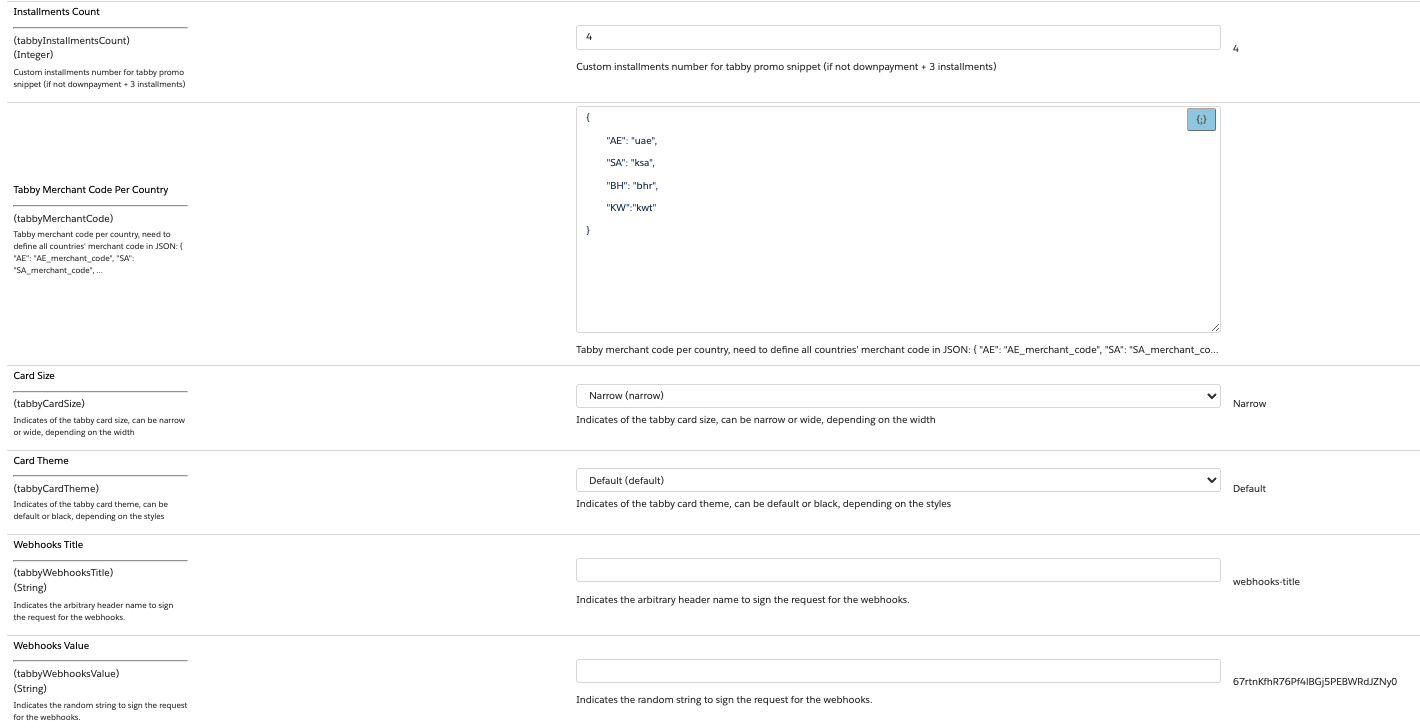
* Open the metadata folder from the repository structure > open jobs.xml > change the references of RefArchGlobal to your site id
* Open the metadata/sites folder from the repository structure, there is RefArchGlobal folder, change the folder name from RefArchGlobal to your site id. If you have multiple sites to have Tabby, then copy RefArchGlobal folder and rename it with your other site id(s).
* Open the metadata/sites/YourSiteID/preferences.xml file from the repository structure,
  + fill the **tabbyServiceCredentialPublicKey** and **tabbyServiceCredentialSecretKey** values that Tabby provided for your service account
  + fill the **tabbyWebhooksTitle** and **tabbyWebhooksValue** values
    - **tabbyWebhooksTitle** -> Arbitrary header name to sign the request. Suggest to fill a unique value for your site. Default value is “**webhooks-title**”. Will be used to verify webhook requests that tabby system sends.
    - **tabbyWebhooksValue** -> Random string to sign the request. Suggest to fill a unique value for your site. Default value is “**67rtnKfhR76Pf4lBGj5PEBWRdJZNy0**”. Will be used to verify webhook requests that tabby system sends.
* 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 tabby is available to you is according to your Tabby account data.

2.2.2 Managing Tabby Custom Site Preferences

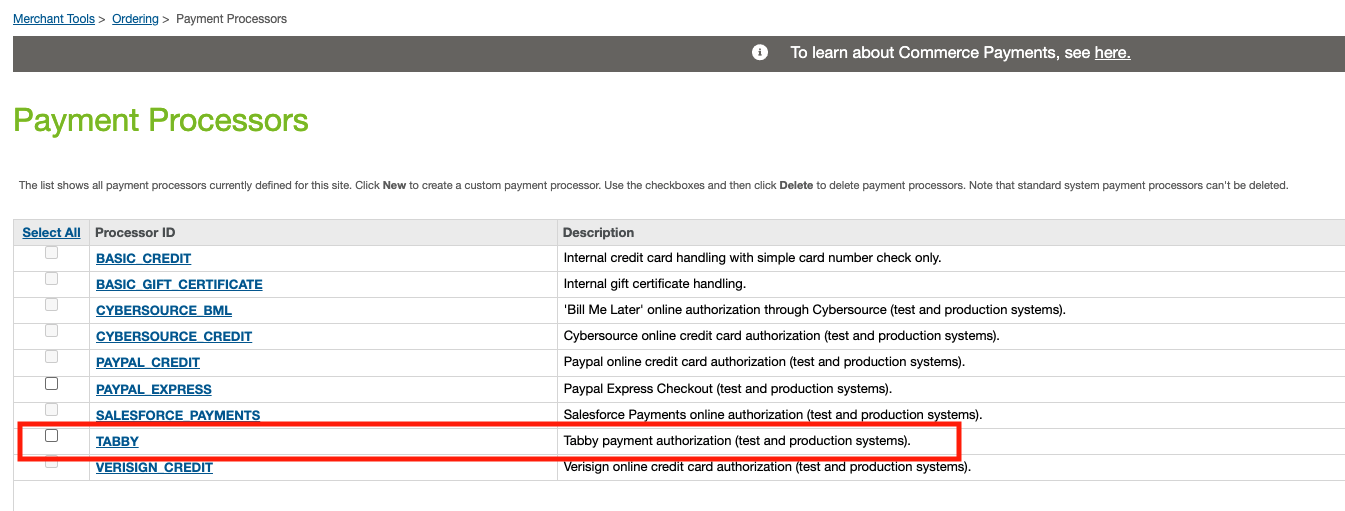
In Business Manager, navigate to the *Site > Merchant Tools > Site Preferences > Custom Preferences*. A custom site preference group with the ID Tabby is available. Please select it and edit the attributes according to your Tabby account data.

Site CustomPreferences Screenshot





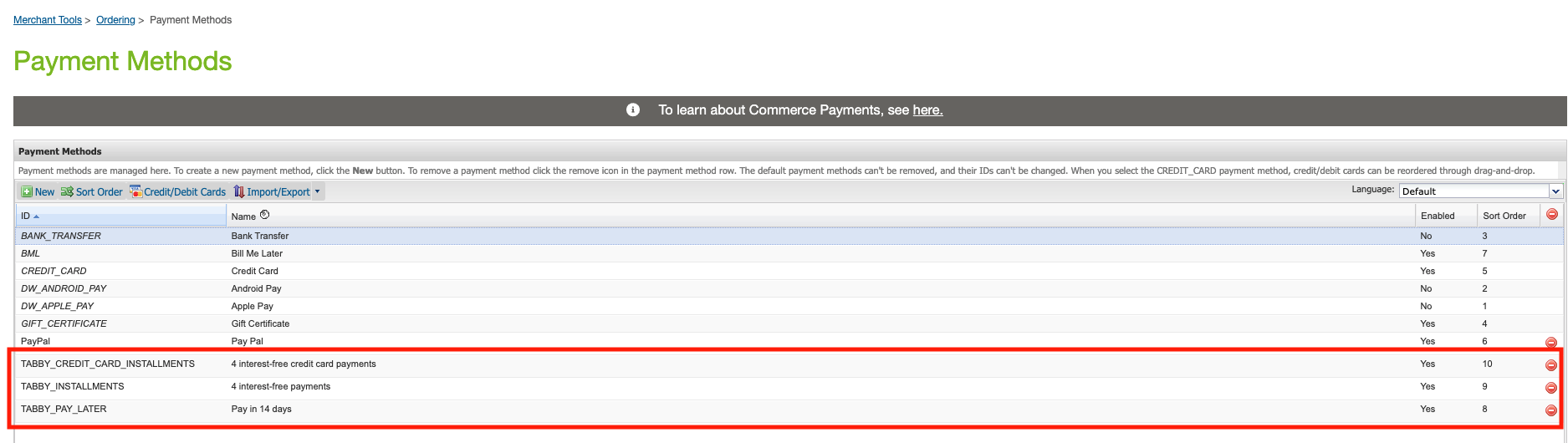
|  |  |  |
| --- | --- | --- |
| **Site Preference** | **Description** | **Values** |
| Is Tabby Enable | This field represents the enable/disable tabby implementation. | Boolean:  True/False  Default: True |
| Tabby Environment | This field represents the type of the environment. | Enum of String: Development -> Development instances  Production -> Production instances  Default: Development |
| Service Credential Public Key | This field represents the tabby service credential public key (pk\_...). | String: (Mandatory) The public API key that Tabby provided to you |
| Service Credential Secret Key | This field represents the tabby service credential secret key (sk\_...). | String: (Mandatory) The secret API key that Tabby provided to you |
| Is Tabby Installments Enable | This field represents the Installments payment method is enabled. | Boolean: True/False  Default: True |
| Is Tabby Credit Card Installments Enable | This field represents the Credit Card Installments payment method is enabled. | Boolean: True/False  Default: False |
| Is Tabby Pay Later Enable | This field represents the Pay Later payment method is enabled. | Boolean: True/False  Default: False |
| Immediate Capture On Authorize | This field represents if the Immediate Capture on Authorize is enabled. If Yes -> Capture request will be triggered automatically after success Authorization. If No -> Tabby-Capture scheduled job will send the capture request. | Boolean: True/False  Default: True |
| Installments Count | This field represents Installments counts. | Integer:  Default: 4 |
| Tabby Merchant Code Per Country | This field represents the Merchant codes per country in a JSON format: { "AE": "uae",  "SA": "ksa",  "BH": "bhr",  "KW":"kwt"  } | Text (JSON) { "AE": "uae",  "SA": "ksa",  "BH": "bhr",  "KW":"kwt"  }  - need to define Site countries only. |
| Card Size | This field represents the tabby card size, can be narrow or wide, depending on the width | Enum of String: Narrow/Wide  Default: Narrow |
| Card Theme | This field represents the tabby card theme, can be default or black, depending on the styles | Enum of String: Default/Black  Default: Default |
| Webhooks Title | This field represents the arbitrary header name to sign the request for the webhooks.  Will be used to verify webhook requests that tabby system sends. | String: |
| Webhooks Value | This field represents the random string to sign the request for the webhooks.  Will be used to verify webhook requests that tabby system sends. | String: |

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


2.2.4 Managing Tabby Payment Methods

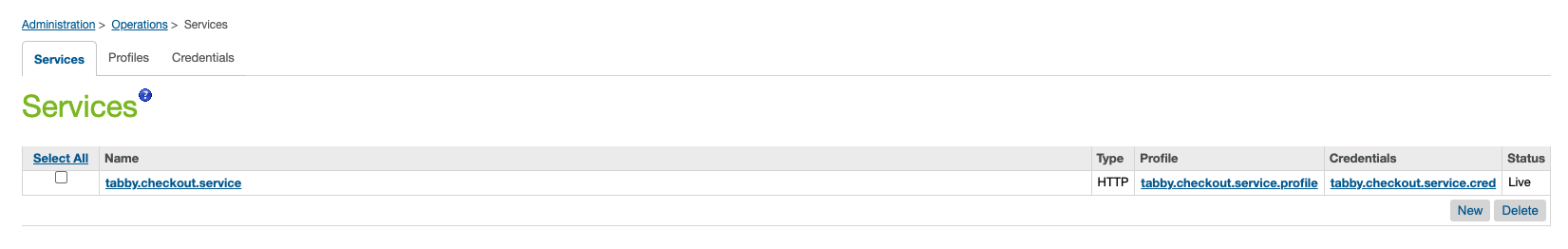
In the integration package, a payment method definition is provided in the file that you have already imported

1. Navigate to Merchant Tools > Ordering > Payment Methods.
2. Enable/Disable 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.

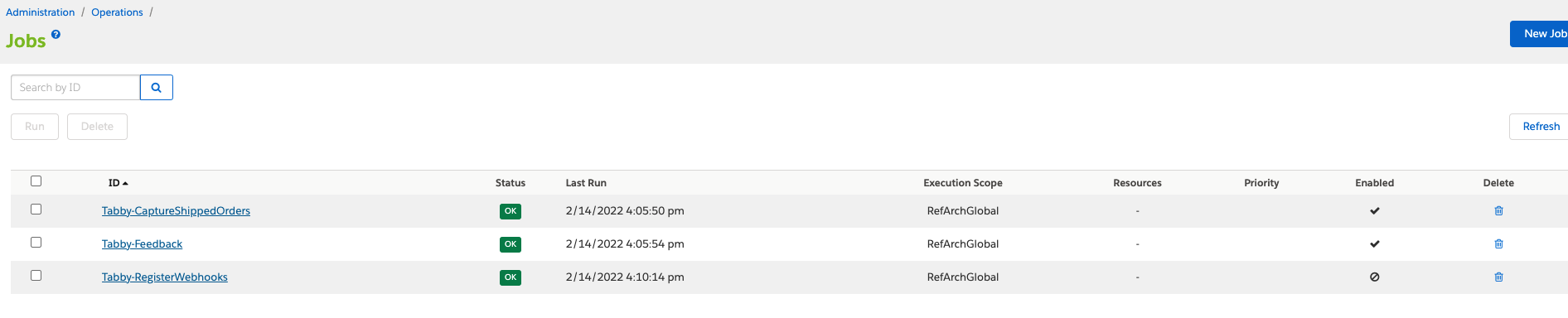


2.2.5 Managing Services

In the integration package, the service, the service profile and the service credential definitions are provided in the import zip (metadata.zip) file (services.xml). Make sure to set public and secret key that are provided by Tabby into the tabby service credentials.



2.2.6 Managing Jobs

In the integration package, a job definition is provided in the import zip (metadata.zip) file (jobs.xml). Make sure to associate the jobs to respective merchant site.  
  


2.2.6.1 Tabby-CaptureShippedOrders

Captures the payments that are authorized with Tabby payment methods. This job fetches the orders which are confirmationStatus=CONFIRMED and paymentStatus=NOTPAID and shippingStatus=SHIPPED and custom.tabbyPaymentStatus: AUTHORIZED.

Script file: int\_tabby\_core/cartridge/scripts/jobs/capture.js

If site preference “**Immediate Capture On Authorize**” is True (enabled) then no need to enable this job.

2.2.6.2 Tabby-RegisterWebhooks

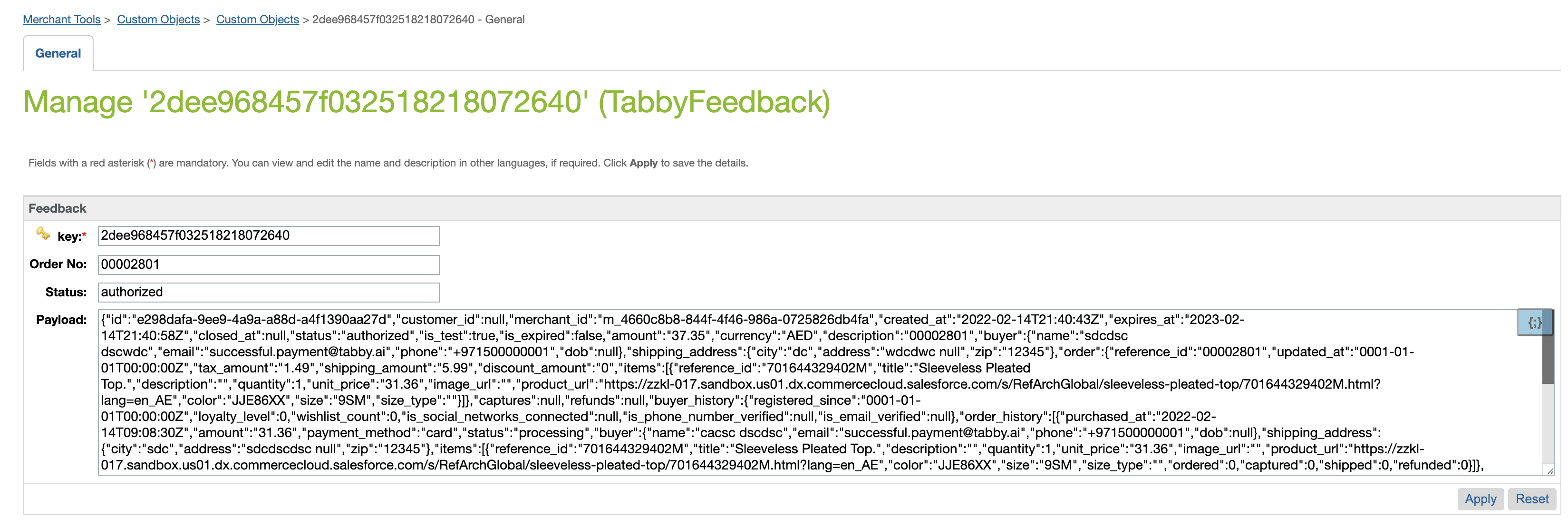
Registers the webhooks for the job scoped sites defined Merchant codes that are defined in the Site preference. Each Merchant code needs to be registered separately. This job is one time job to register the webhooks. It is important to fill “Webhooks Title” and “Webhooks Value” Site Preferences before run this job.

Script file int\_tabby\_core/cartridge/scripts/jobs/webhooks.js

What are Webhooks:

Webhooks are user-defined HTTPS callbacks. tabby uses Webhooks as an additional way of notifying you about payment-related events and token-related events. A Webhook endpoint is the URL to which you want to receive event notifications. Once you register a URL as a Webhook endpoint, tabby sends notifications to that URL whenever an event occurs related to your account.

Once the Tabby Webhooks for Merchant codes are registered, Tabby will send the updates fort he payment status changes to https://yoursite/TabbyWebhooks-Process endpoint. This endpoint will validate the request and save the payment details in a TabbyFeedback custom object.



2.2.6.3 Tabby-Feedback

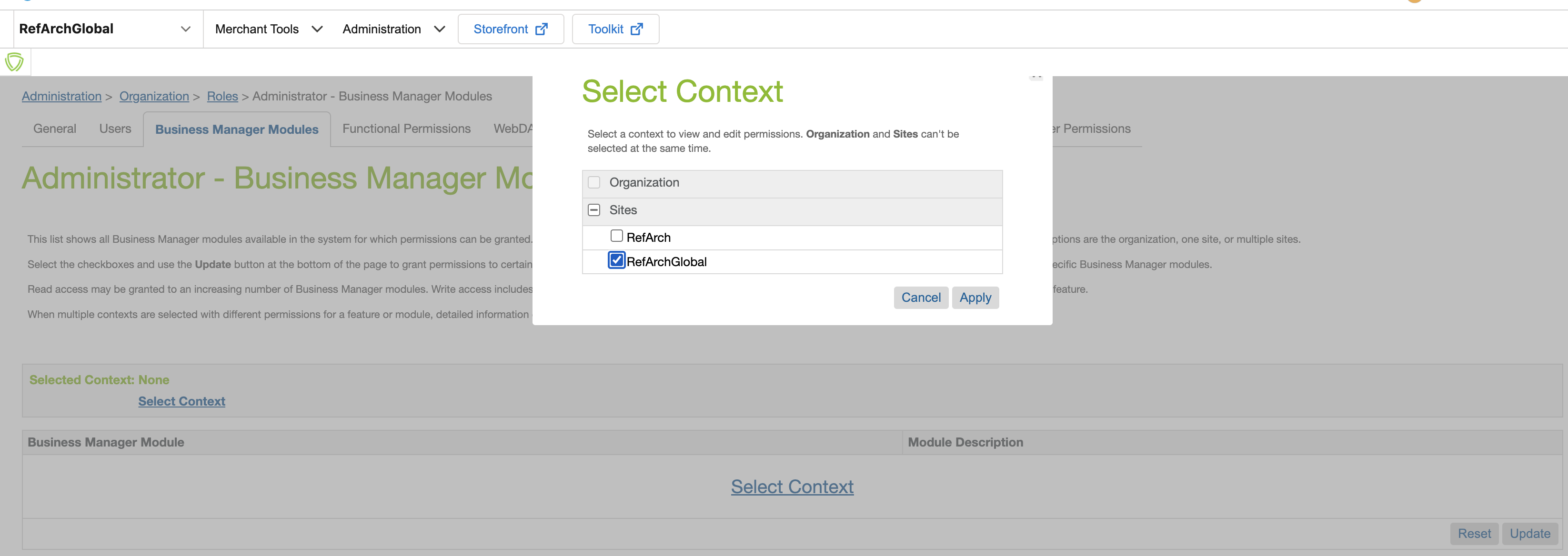
Processes the TabbyFeedback custom objects that are saved with the TabbyWebhooks-Process endpoint. Custom object details are being compared with order payment statuses. If any difference between the order/payment statuses, the job will synchronize the order/payment statuses based on the TabbyFeedback details.

Script file int\_tabby\_core/cartridge/scripts/jobs/feedback.js

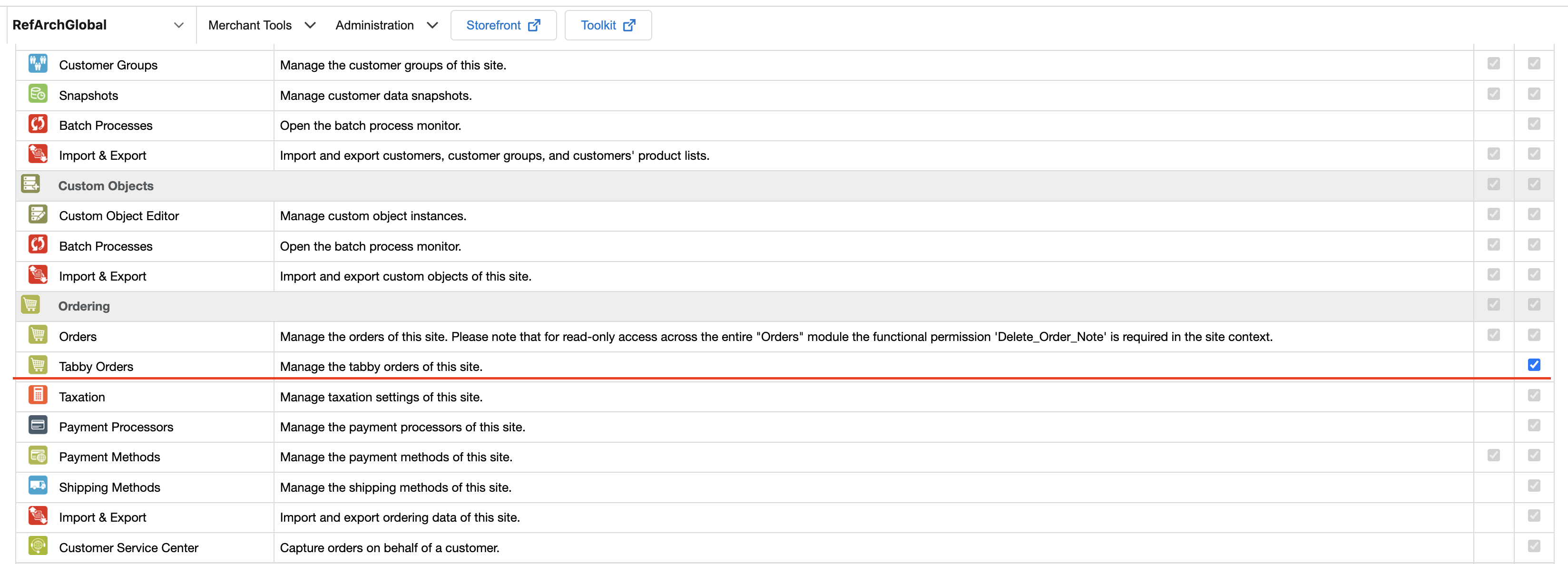
2.2.7 Tabby Business Manager Module

In the integration package, the cartridge for Business Manager module bm\_tabby is present. To enable/activate the tabby module:

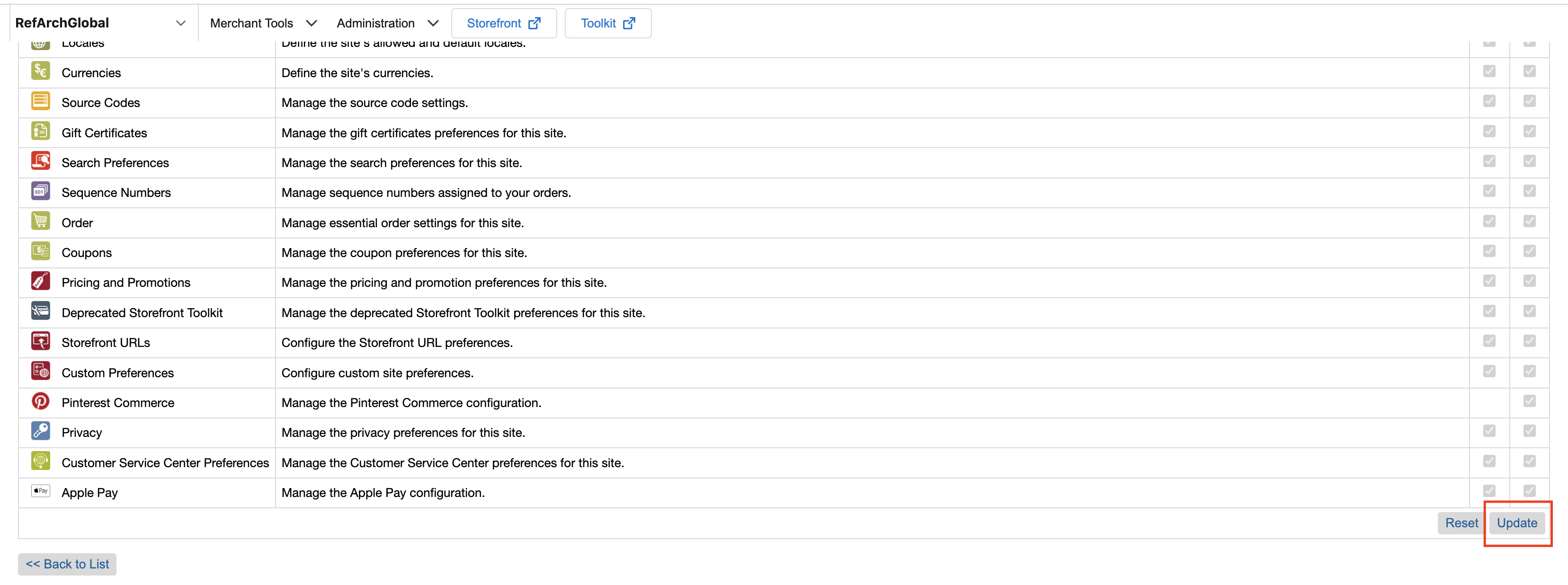
1. Navigate to Administration > Organization > Roles & Permissions
2. Click Administrator in the Roles
3. Click Business Manager Modules
4. Select the Sites that you have tabby



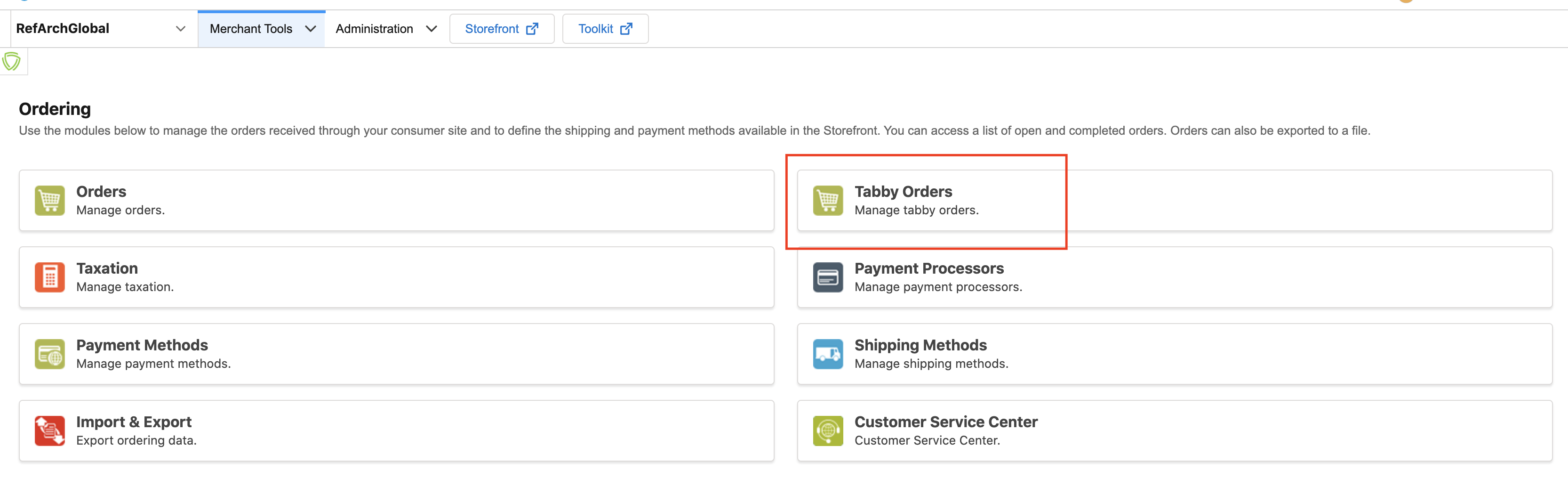
1. Click Apply
2. Scroll to Ordering > Tabby Orders, check the checkbox



1. Click Update button at the end of the page

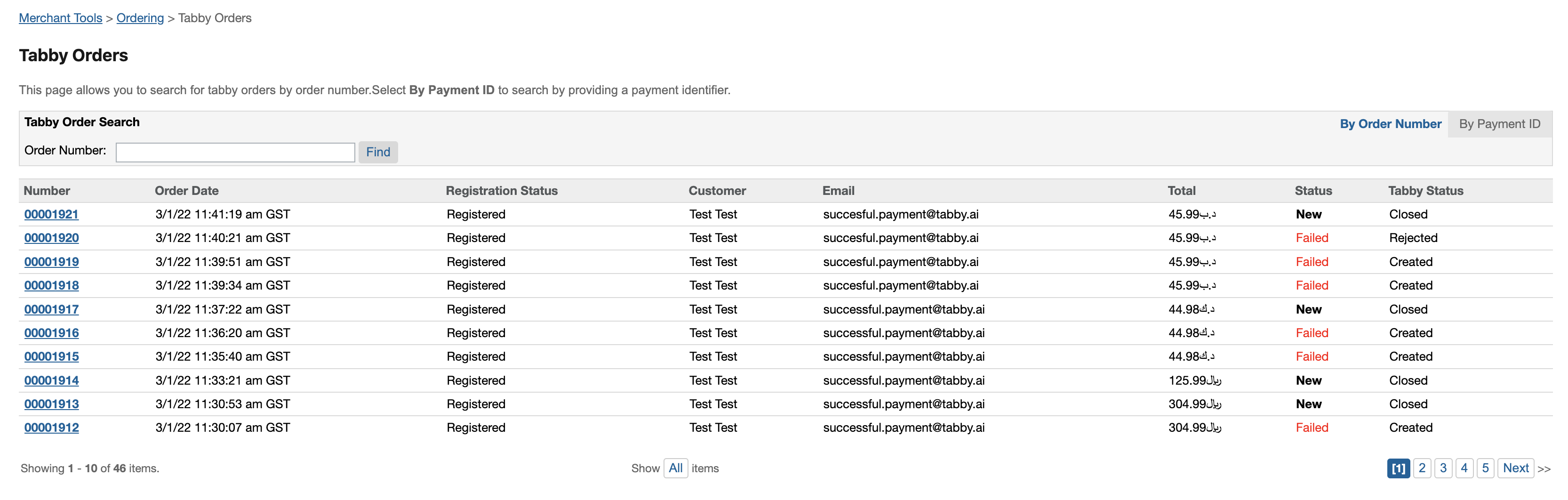


Once it is enabled the “Tabby Orders” BM module, “Tabby Orders” will be placed under

Merchant Tools > Ordering  


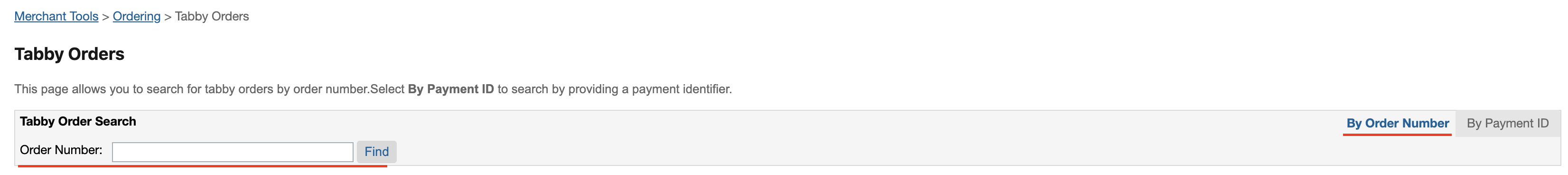
1. **Tabby Orders**

Listing the orders which has tabby as at least one payment method.

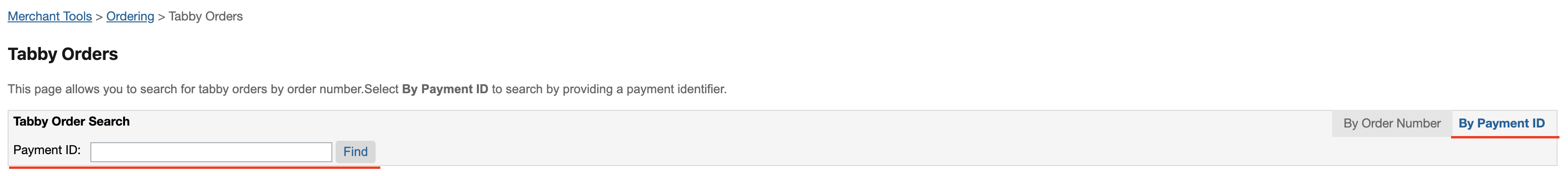


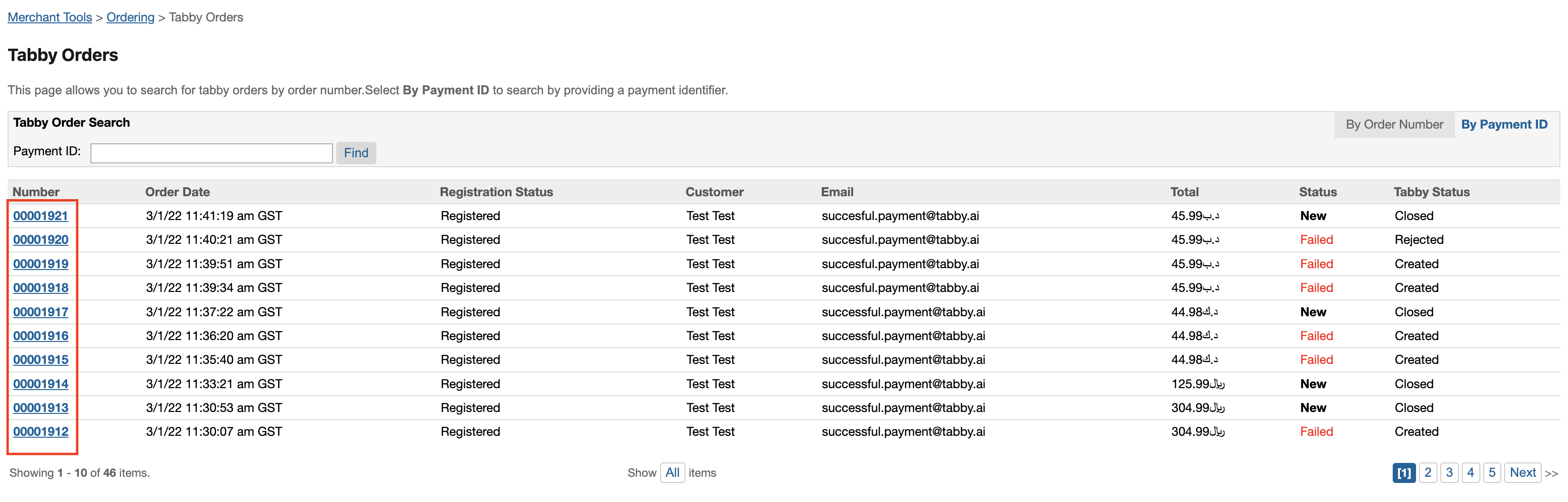
It is allowed to search tabby orders by order number or by payment id (transaction id)

1. By Order Number



1. By Payment ID



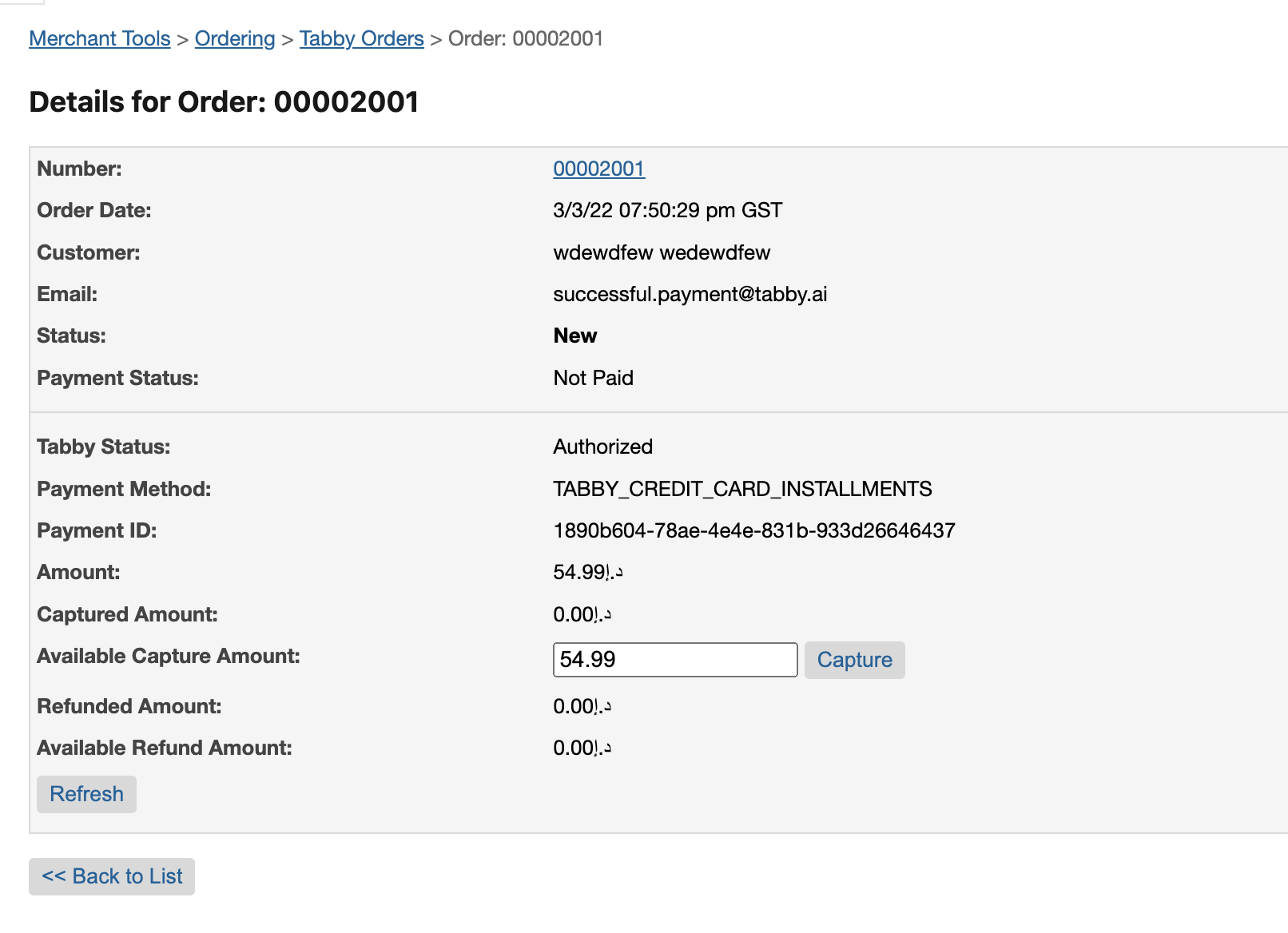
Once it is clicked to a Order Number in the list, the page will be redirected to the tabby order detail page:

1. **Tabby Order Detail**

In Tabby Order Detail Page, it is found the basic details of the orders. If the order number is clicked, the page will be redirected to the SFCC Order Detail page. It is allowed to do below actions in Tabby Order Detail page:

1. **Partial/Full Capture for “Authorized” orders**

The partial or full tabby amount can be captured for tabby status: “Authorized” orders.



1. **Partial/Full Refund for “Closed” orders**

The partial or full tabby amount can be refunded for tabby status: “Closed” orders.

