



Toshi Integration for SFRA

22.1.0



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1. Component Overview

TOSHI collaborates with renowned global brands to offer their customers the convenience of in-store clienteling from the comfort of their own homes, on-demand.

1.1. Functional Overview

This guide provides a summary of all features implemented in the cartridge, as well as guidance on its installation within a Salesforce B2C Commerce environment. It also includes details about the required configurations and a checklist to ensure that the cartridge is properly installed and configured.

1.2. Use Cases

The cartridge provides implementation of a delivery method - 'Try Before you Buy', which is specifically designed for the integration of the booking service from TOSHI.

1.3. Compatibility

This cartridge has been tested against API Version: 22.6 (Compatibility Mode: 19.10) & SFRA version 6.0.0

1.4. Privacy, Payment

This integration requires access to the following customer data elements: Billing Address, Shipping Address, Order Details

2. Implementation Guide

2.1. Before you start

To ensure the success of the integration, it is essential that customers have SFRA version 6.0.0 installed and properly configured in a Salesforce B2C Commerce instance. If developers encounter issues with the setup of SFRA, we recommend visiting the Salesforce support center for assistance.

If developers have not yet obtained the necessary account details for implementation, they should reach out to team TOSHI for further assistance. The account details are vital for the execution of the integration process.

2.2. Cartridge Upload & Assignment

The SFRA package includes two cartridges which need to be uploaded on a Salesforce B2C Commerce instance to extend the native SFRA functionality with the capabilities provided by the cartridge:

- **int_toshi** – encompasses base utilities, essential Helpers classes, Services and Jobs
- **int_toshi_sfra** - provides extension to the SFRA controllers. For more information, please refer to section 2.5 on Extended Controllers

A step-by-step guide on how to add the cartridges - int_toshi and int_toshi_sfra, to an existing SFCC codebase using Visual Studio Code (VS Code) is outlined below:

1. Open your SFCC codebase in VS Code

Launch VS Code and navigate to the root folder of your SFCC codebase by using the command *File > Add Folder to Workspace*.

2. Upload cartridges into a Salesforce B2C Commerce instance

Using the WebDAV extension in VS Code, navigate to the appropriate location in your SFCC instance where the cartridges need to be uploaded.

In VS Code, right-click on **int_toshi** and **int_toshi_sfra** cartridges in the local folder where they were extracted and select *'Deploy to WebDAV'* from the context menu.

Select the target location of your Salesforce B2C Commerce instance where you want to upload the cartridges and click *'Deploy'*. This will upload the cartridges to the instance.

3. Add the cartridges to the cartridge path

Once the cartridges are uploaded to your SFCC instance, you need to add them to the cartridge path in your SFCC codebase. Open the *'dw.json'* file in the root folder of your codebase and add the following entries to the *'cartridges'* section:

```
"cartridges": [  
  "int_toshi",  
  "int_toshi_sfra"  
]
```

4. Save the "dw.json" file.

2.3. Setup of Business Manager

2.3.1. Activate the cartridge in Business Manager

To enable the functionality, developers must add the cartridges to the cartridge path of the storefront sites as follows:

1. Log in to the Salesforce B2C Commerce Business Manager:

The screenshot shows the Salesforce B2C Commerce Business Manager interface. At the top, there is a navigation bar with a "Select a Site" dropdown, "Merchant Tools", "Administration", "Storefront", and "Toolkit" buttons. Below the navigation bar, a "Welcome to the Business Manager" message is displayed, followed by a section titled "Alerts" with two cards: "Security" and "Customer Lists", each with a "Show" link.

Welcome to the Business Manager

Use the site navigation bar at the top of the page and select the site for which you would like to perform individual tasks. Depending on the rights you have been assigned by the site manager, you will be able to administer different storefront sites.

Alerts

- Security**
[Show](#)
- Customer Lists**
[Show](#)

2. Go to *Administration > Sites > Manage Sites*

The screenshot shows the "Manage Sites" page in the Salesforce B2C Commerce Business Manager. The navigation bar is updated to show "RefArch" as the selected site. Below the navigation bar, a breadcrumb trail reads "Administration > Sites > Manage Sites". The main heading is "Storefront Sites". Below this, there is a list of sites with columns for "Select All", "Name", and "ID".

Storefront Sites

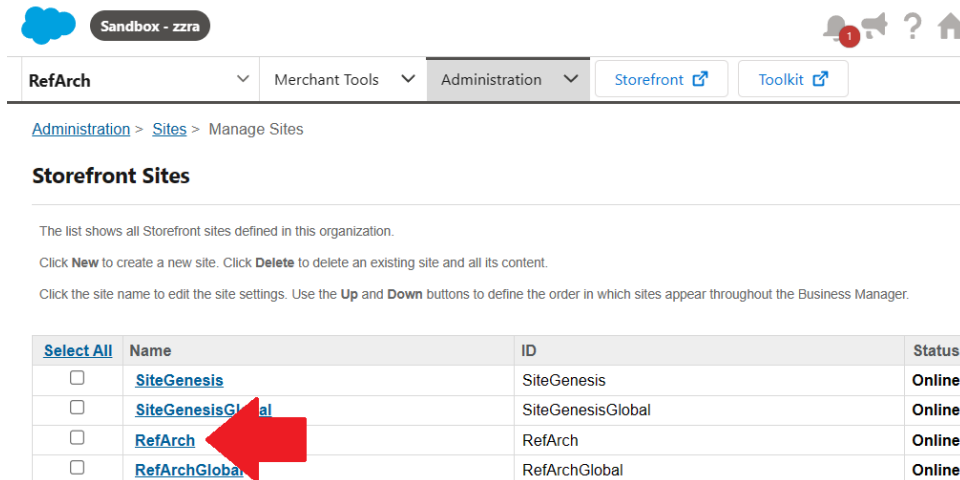
The list shows all Storefront sites defined in this organization.

Click **New** to create a new site. Click **Delete** to delete an existing site and all its content.

Click the site name to edit the site settings. Use the **Up** and **Down** buttons to define the order in which sites appear throughout the Business M

Select All	Name	ID
<input type="checkbox"/>	SiteGenesis	SiteGenesis
<input type="checkbox"/>	SiteGenesisGlobal	SiteGenesisGlobal
<input type="checkbox"/>	RefArch	RefArch
<input type="checkbox"/>	RefArchGlobal	RefArchGlobal

3. Click on the site name.



RefArch ▾ Merchant Tools ▾ Administration ▾ [Storefront](#) [Toolkit](#)

[Administration](#) > [Sites](#) > Manage Sites

Storefront Sites

The list shows all Storefront sites defined in this organization.

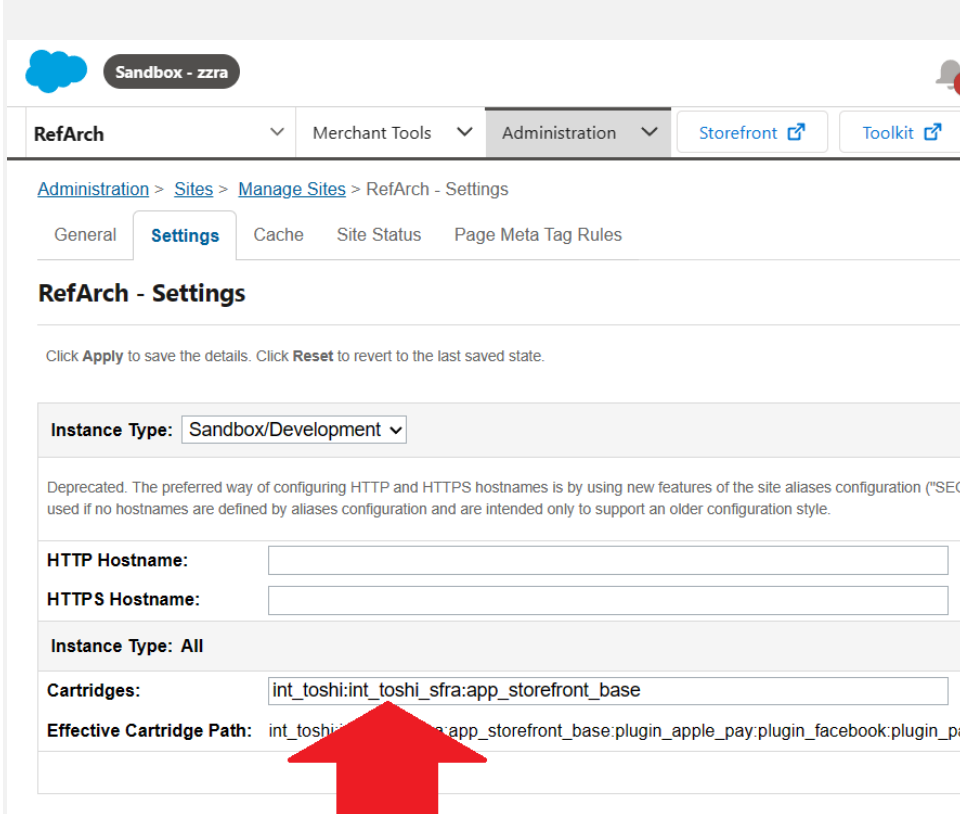
Click **New** to create a new site. Click **Delete** to delete an existing site and all its content.

Click the site name to edit the site settings. Use the **Up** and **Down** buttons to define the order in which sites appear throughout the Business Manager.

Select All	Name	ID	Status
<input type="checkbox"/>	SiteGenesis	SiteGenesis	Online
<input type="checkbox"/>	SiteGenesisGlobal	SiteGenesisGlobal	Online
<input type="checkbox"/>	RefArch	RefArch	Online
<input type="checkbox"/>	RefArchGlobal	RefArchGlobal	Online

- The Settings tab must be selected, and the following details added to the cartridge path:

```
int_toshi_sfra:int_toshi:app_storefront_base
```



RefArch ▾ Merchant Tools ▾ Administration ▾ [Storefront](#) [Toolkit](#)

[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" used if no hostnames are defined by aliases configuration and are intended only to support an older configuration style).

HTTP Hostname:

HTTPS Hostname:

Instance Type: All

Cartridges:

Effective Cartridge Path:

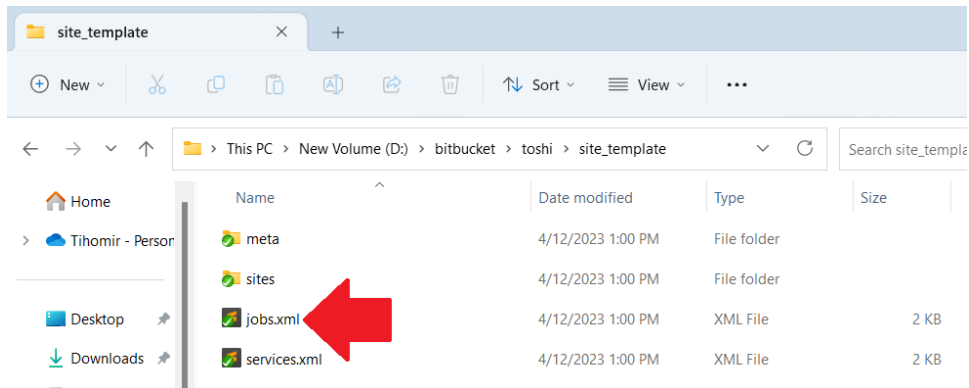
- Click **Apply**.
- Repeat steps 3 to 6 for each site that requires the functionality provided by TOSHI.

2.3.2. Importing metadata with a single site import

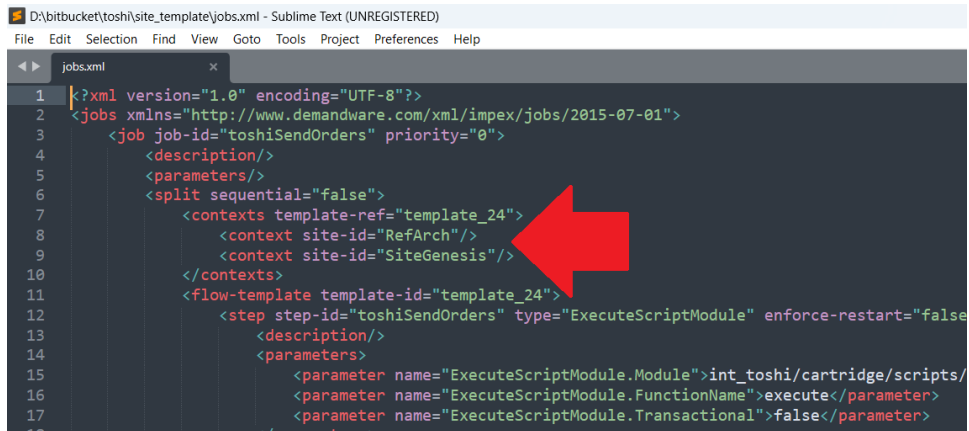
All import files are located in the import folder - *toshi/site_template*. To import the required settings, follow the

steps below:

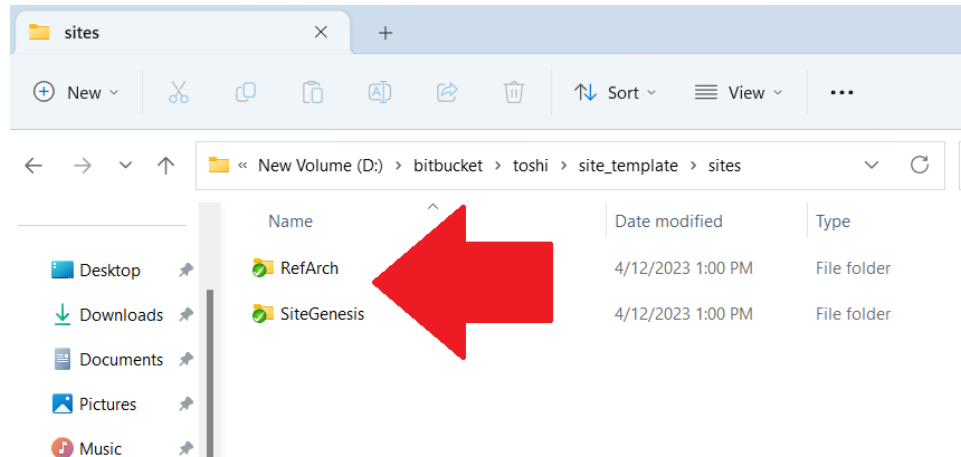
1. Open the file *toshi/site_template/jobs.xml*



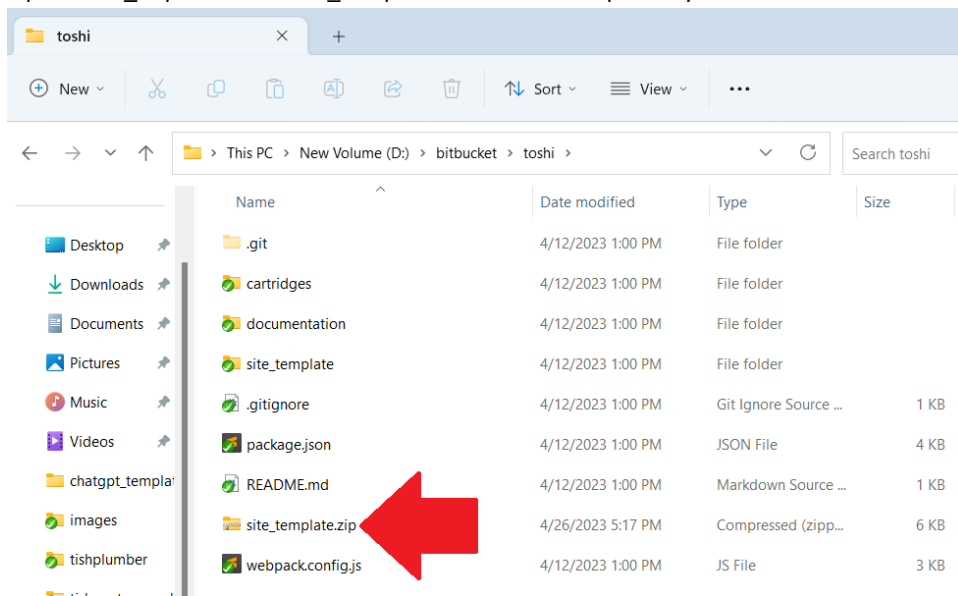
2. Change the site ID references of *RefArch* and *SiteGenesis* to your site IDs. Developers could also do it after the job is already imported.



3. Ensure that the folders for sites in the *site_template/sites* (toshi/site_templates/sites/RefArch and toshi/site_templates/sites/SiteGenesis) have the appropriate site ID of the sites where the XML is imported.
 - a. Change the folder name *RefArch* to your first site ID (Apply the same for SiteGenesis path to second site ID)
 - b. Then copy and rename this folder to the site IDs for other sites you are planning to use Toshi.

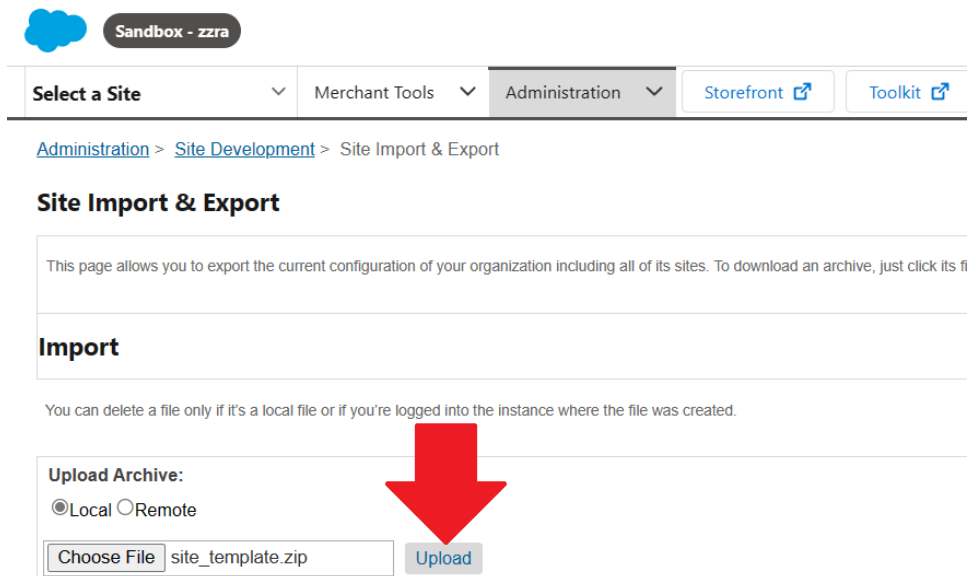


4. Zip the *site_import* folder site_template folder in the repository structure



5. Log in to Business Manager and go to *Administration/Site Development/Site Import & Export*

6. Click the **Upload** button to upload the zipped *site_import* folder



Sandbox - zzra

Select a Site ▾ Merchant Tools ▾ Administration ▾ [Storefront](#) [Toolkit](#)

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

Site Import & Export

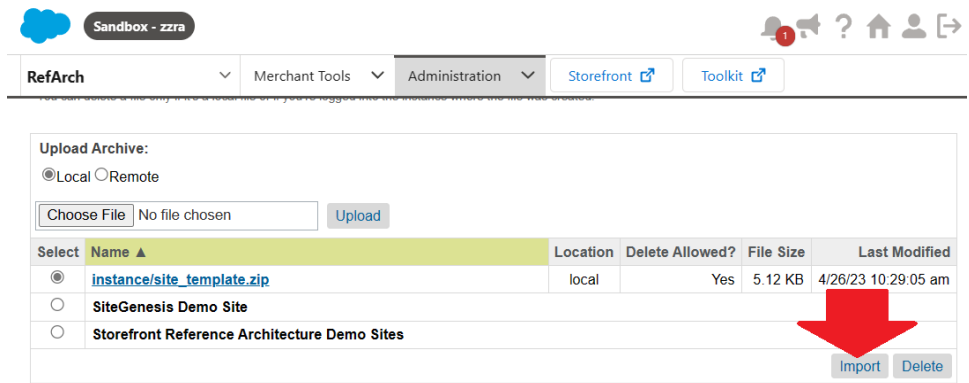
This page allows you to export the current configuration of your organization including all of its sites. To download an archive, just click its file name.

Import

You can delete a file only if it's a local file or if you're logged into the instance where the file was created.

Upload Archive:
☒ Local ☐ Remote

7. Select the uploaded file and click the **Import** button.

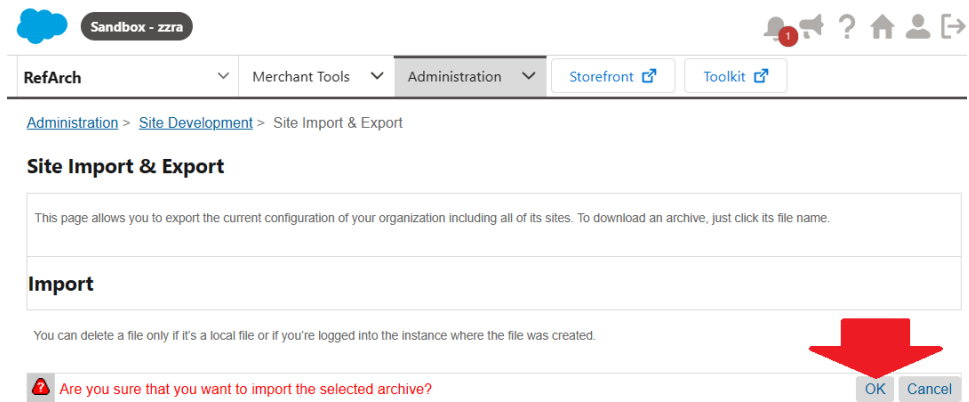


Sandbox - zzra

RefArch ▾ Merchant Tools ▾ Administration ▾ [Storefront](#) [Toolkit](#)

Upload Archive:
☒ Local ☐ Remote

Select	Name ▲	Location	Delete Allowed?	File Size	Last Modified
<input checked="" type="radio"/>	instance/site_template.zip	local	Yes	5.12 KB	4/26/23 10:29:05 am
<input type="radio"/>	SiteGenesis Demo Site				
<input type="radio"/>	Storefront Reference Architecture Demo Sites				



Sandbox - zzra

RefArch ▾ Merchant Tools ▾ Administration ▾ [Storefront](#) [Toolkit](#)


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

Site Import & Export

This page allows you to export the current configuration of your organization including all of its sites. To download an archive, just click its file name.

Import

You can delete a file only if it's a local file or if you're logged into the instance where the file was created.

 Are you sure that you want to import the selected archive?

After a successful import, all cartridge configurations will be available as per the account data provided for the merchant from team TOSHI.

<ul style="list-style-type: none"> Price Books Inventory Lists Customer Lists Global Data Assignments 	<ul style="list-style-type: none"> All price books All inventory lists All customer lists All global data All assignments
--	--

Status

Select All	Process	Start	Duration	Status
<input type="checkbox"/>	Site Import (site_template.zip)	4/26/23 10:32:32 am	00:00:02	Success

Refresh

Delete

- Verify the custom attributes for the Order object in Business Manager - go to *Site > Ordering > Order*. Open any order and go to the *'Attributes'* tab. It should look like the screenshot below:

Sandbox - zzra

RefArch

Merchant Tools

Administration

Storefront

Toolkit

[Merchant Tools](#) > [Ordering](#) > [Orders](#) > Order: 00002105(RefArch)

General

Attributes

Payment

Notes

History

Attributes for Order '00002105'

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.

Toshi

Toshi Checkout ID:

Order sent to Toshi: - None -

Toshi Store ID:

Salesforce Service Cloud

sscid:

2.4. Configuration

2.4.1. Managing Custom Site Preferences for the integration

The integration must be configured with the account details provided by team TOSHI, by following the steps below:

1. Access the Business Manager of the Salesforce B2C Commerce environment and navigate to:
 - *Site > Merchant Tools > Site Preferences > Custom Preferences*
2. Locate the preference group associated with TOSHI:
 - *Site > Merchant Tools > Site Preferences > Custom Preferences > Toshi*
3. Click on the Group Name or ID to apply the account data configurations provided by team TOSHI

2.4.2. Site Preferences Configuration Table

To access the preferences related to Toshi, please navigate to: *Site > Merchant Tools > Site Preferences > Custom Preferences > Toshi*.

Site Preference Name	Description	Sample values
Enable Toshi	The flag manages Toshi integration. If set to True, Toshi will be enabled for the site	True
Toshi Api Key Configuration	JSON holding the config for the api key per country/city	<pre>{"gb" : {"client" : "0e8ddc700a014d74a9cc968b1ee2b9ad", "server" : "88a37d6059a240029f8c41c75dde868d"}, "us" : { "client" : "5fc8074bd4ca4bab90767ccddde8ce09", "server" : "d5585ef51cf74a7ca21679987a01fa7e"}}</pre>
Disable other shipping methods when Toshi is present	When Toshi is enabled, it you can disable other shipping methods	No
Toshi Notification emails	Comma separated list of emails to send error in case of webservice error	
Basket timeout	Number of minutes customer will be redirected back to shipping page	30
Minimal Amount for Toshi method	JSON string containing currency and amount for example { "USD" : xy.00 }	{ "USD" : 2, "GBP" : 2 }
Toshi No Size Value	Value which to be sent to Toshi in case no size variants	N/A
Toshi Modal URL	Modal API URL passed in the JavaScript constructor	https://staging.toshi.co

2.4.3. Store Configuration

To configure the store details which will be utilized for the delivery method of TOSHI, please follow these steps:

1. Navigate to the Business Manager of the Salesforce B2C Commerce environment
2. Navigate to *Site > Merchant Tools > Online Marketing*
3. Click on 'Stores' to access the store settings
4. Update the 'Toshi Store' option to 'Yes' for the desired shop.

Please note that for this integration it is **recommended** to have one shop per country.

2.4.4. Shipping Method Configuration

Please consider implementing a new shipping method and configuring its Toshi flag to either 'checkout' or 'Try Before You Buy'. It is essential to ensure that only one Toshi delivery method is present at a time, based on the customer groups' configuration.

2.5. Extended Controllers

Controller	Start Node	Remarks
Checkout.js	Begin	Fetches data from the current basket and attaches it to the view data using the toshiHelpers module.
CheckoutServices.js	PlaceOrder	Performs checks on the current basket to determine if it is a Toshi order and if the Toshi expiration time has passed, and sends an appropriate JSON response with error details and redirect URL if necessary.
CheckoutShippingServices.js	UpdateShippingMethodsList, SubmitShipping	Perform various actions related to Toshi orders, such as setting Toshi expiration time on the basket, removing and creating payment instruments, and sending a JSON response with relevant information.
Order.js	Confirm	Send order information to Toshi and update the order's custom attributes, based on certain conditions.

2.6. Jobs

2.6.1. toshiSendOrders

This job is responsible for interfacing with the Toshi API to process orders and manage payments in the SFCC environment. It includes functions for checking address eligibility, sending orders to Toshi, and retrieving payment and line item details from orders.

The main functionalities of the 'execute' function are as follows:

1. 'checkAddressEligible' function: This function takes an 'address' object as an input and checks if the address is eligible for Toshi service by making a call to the Toshi API. It retrieves the country from the address object, gets the Toshi configuration from the site's custom preferences, and then makes a call to the Toshi API to check the eligibility of the address. If the address is eligible, it sets a session privacy variable with the Toshi client key.
2. 'sendOrder' function: This function sends an order to the Toshi service by creating a request object with various order details such as customer information, billing and shipping addresses, order total, currency, payment status, gift status, and payment provider. It also retrieves the line item details from the order and adds it to the request object. The function then makes a call to the Toshi API with the request object to create an order. If the order creation is successful, it sets the 'orderSent' variable to 'true'.
3. 'getPaymentInstruments' function: This function retrieves the payment instruments associated with an order and returns an array of payment method names.
4. 'getLineItemCntrContent' function: This function retrieves the line item details from a product line item container (e.g., an order or a basket) and returns an array of line item objects containing product details such as SKU, name, price, quantity, and total price.

3. Testing

After successfully installing and integrating the cartridge as per the provided instructions, it is recommended to test the functionality by placing an order in your sandbox environment.

During testing, please ensure that the Toshi payment method is presented and selectable as expected. For testing purposes, you may need to obtain test addresses from Toshi, which can be used to validate if the webservice returns that the address is eligible for Toshi.

4. Release History

Version	Date	Changes
22.1.0	2022-09-20	SFRA support
21.1.0	2021-04-15	Initial release