



commerce cloud

Till Payments Integration



WWW.TILLPAYMENTS.COM

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1. Overview

This document describes the technical integration of Till Payments link cartridge.

Till Payments services all verticals in need for multi-step payment services.

Till provides a cartridge to integrate with Salesforce Commerce Cloud (SFCC). The cartridge allows SFCC storefront to integrate with Till Payments payment service.

1.1 Compatibility

This Cartridge works best with the SFRA version of 5.0.1 and compatibility mode 19.10.

1.2 Limitations, Constraints

1.3 Privacy, Payment

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

1.4 Supported Locales

This Cartridge supports the following Locales

- English (Australia)
- English (United States)
- English (United Kingdom)

2. Integration Components

2.1 Components

Till Payments Integration has the following cartridges.

- **int_tillpayment_sfra** - This cartridge has controllers and other script files necessary for integration on SFRA site.
- **bm_tillpayment** - Business Manager extension cartridge for transaction management.

2.1.1 Signature Generation

To begin the checkout of a customer that chooses Till Payments method on your website, Till Payments implements a signing mechanism based on HMAC-SHA512 to prevent against malicious attacks and hijacking of browser session.

2.1.2 Prepare Redirect

Once signature is generated, a post request will send to the Till Payments gateway with transaction information in application/json encoded format for redirection to Till Payments page.

2.2 Adding the cartridge in SFCC UX Studio

To upload the cartridges into the SFCC server, you first need to add the cartridges in SFCC UX Studio. In order to do this, follow these instructions.

1. In UX Studio, select in the menu File > Import.
2. In the import dialog, select General > Existing Projects in the workspace and click on 'Next'.
3. Ensure 'Select archive file' is selected and select the compressed cartridge file by clicking on the 'Browse' button.
4. Click on 'Finish' button to import the cartridges.
5. Studio will now ask you if you want to link the cartridge to your active DigitalServer connection. Click on yes or manually link the cartridge to your server by checking the project under project references in the server connection properties.

2.3 Business Manager Configurations

For the Till Payments integration to work, the following needs to be configured in the Business manager.

2.3.1 Activating the cartridge in Business Manager

Before the Till Payments functionality can become available to Site, the cartridges have 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 'Cartridges' input field add 'int_tillpayment_sfra' in front of base cartridge.
5. Click on 'Apply' button.
6. To activate the cartridge for the Sandbox/Development/Production 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 Till Payments.
8. Go to 'Manage the Business Manager site'.
9. In the Cartridges input field add ' bm_tillpayment:int_tillpayment_sfra:app_storefront_base'.
10. Click on 'Apply' button.

2.3.2 Enable cartridge module

To enable Cartridge module,

1. Go to Administration > Organization > Roles & Permissions.
2. Click on "Administrator" and click on "Business Manager Modules" tab.
3. In Select Context dialog, check your site ID checkbox and click on "Apply" button.
4. Find 'Till Payment' and check the checkbox to enable it.
5. Press 'Update' button

2.3.3 Importing Metadata

For the Till Payments integration to work, the following object structures (metadata) needs to be imported and configured in the Business manager. Follow the below steps:

1. In the cartridge bundle find metadata/ tillpayment-meta-import folder.
2. Find the sites folder and inside it find RefArch folder.
3. Rename this RefArch folder to the ID of your site. If you have multiple sites to which these meta has to be imported, then copy and paste this RefArch folder to replicate for other sites. Renames those folders with ID of corresponding sites.
4. In the cartridge bundle, inside metadata folder compress tillpayment-meta-import folder to generate tillpayment-meta-import.zip file.
5. Go to Business Manager Menu > Administration > Site Development > Site Import & Export
6. Under Import: Upload Archive: Ensure that the radio button with label Local is enabled (Else click on the radio button to enable it)
7. Click on Choose File input field, select the tillpayment-meta-import.zip file from open dialog box and click on upload button

2.3.4 Type Extensions

Custom site preference

After the successful metadata import following attributes should have been created:

In Business Manager, navigate to the Merchant Tools > Site Preferences > Custom Preferences. Custom site preference groups with the ID 'Tillpayment' will be available after the successful import of metadata. Please select it and edit the attributes according to your Till Payments account data.

For each site, set the values for your site preferences.

Group ID: Tillpayment

1. **Enable Tillpayment** (ID - enableTillpayment, Type - Boolean) - To enable or disable Till Payments and its functionality in a single point.
2. **Payment Mode** (ID - tillPaymentMode, Type - enum-of-string) – Mode of payment, ‘Preatuhorize’ OR ‘Debit’.
3. **JSON API Key** (ID - tillpaymentJsonApiKey, Type - String) – API Key of JSON API in Till Payments.
4. **JSON Shared Secret** (ID - tillpaymentJsonSharedSecret, Type - String) – Shared Secret Key of JSON API in Till Payments.
5. **JSON API Username** (ID - tillpaymentJsonApiUsername, Type - String) – API Username of JSON API in Till Payments.
6. **JSON API Password** (ID - tillpaymentJsonApiPassword, Type - password) - API Password of JSON API in Till Payments.
7. **XML API Key** (ID - tillpaymentXmlApiKey, Type - String) – API Key of XML API in Till Payments.
8. **XML Shared Secret** (ID - tillpaymentXmlSharedSecret, Type - String) – Shared Secret Key of XML API in Till Payments.
9. **XML API Username** (ID - tillpaymentXmlApiUsername, Type - String) – API Username of XML API in Till Payments.
10. **XML API Password** (ID - tillpaymentXmlApiPassword, Type - password) - API Password of XML API in Till Payments.
11. **Tillpayment APM Api Key** (ID - tillpaymentApmApiKey, Type - String) – API Key of APM connector in Till Payments.
12. **APM extraData** (ID - tillpaymentApmExtraData, Type - Text) – extraData object part of the APM connector in Till Payments
13. **3D Secure Mode** (ID - tillpayment3DSecureMode, Type - enum-of-string) – 3D Secure Mode of Till Payments Credit Card
14. **Show confirm box on closing popup?** (ID - tillpaymentShowCloseButtonConfirm, Type - Boolean) – Enable/Disable confirmation dialog box when customer clicks on close button of payment banking popup on checkout in storefront.

2.3.5 Payment Methods

Under Merchant Tools > Ordering > Payment Methods, check that payment methods with IDs ‘CREDIT_CARD’ and ‘TILL_APM’ are created.

2.3.6 Payment Processors

Under Merchant Tools > Ordering > Payment Processors, check that payment processors with IDs 'TILLPAYMENT_CREDIT' and 'TILLPAYMENT_APM' are created.

Assign payment processor 'TILLPAYMENT_CREDIT' to payment method 'CREDIT_CARD'.

Assign payment processor 'TILLPAYMENT_APM' to payment method 'TILL_APM'.

2.3.7 HTTP Service

Under Administration > Operations > Services, check that services with IDs 'tillpayments.json.version.service' and 'tillpayments.xml.version.service' are created.

3. Testing

Once the cartridge is installed and integrated based on instructions, please try to place an order on your sandbox to test the functionality.

3.1 Storefront Checkout flow

The screenshot shows a storefront interface for a commerce platform. At the top, there is a banner with the text "FREE 2-Day SHIPPING FOR ORDERS OVER \$300". Below the banner, there is a navigation bar with links for "Login", "New Arrivals", "Womens", "Mens", "Electronics", and "Top Sellers". The main content area features a large image of a woman wearing a black sheath dress. To the right of the image, the product details are displayed: "Womens / Clothing / Dresses", "Boardroom Sheath Dress", "Item No. 701644508081M", "Select Color" (with a black circle icon), "Select Size" (dropdown menu showing "4"), "Quantity" (dropdown menu showing "1"), "Availability: In Stock", and a price of "A\$138.00". A blue "Add to Cart" button is located below the price. The bottom right corner of the screenshot shows a small watermark with a checkmark and the number "7".

FREE 2-DAY SHIPPING FOR ORDERS OVER \$300



Login



Search (keywords,etc)



1

New Arrivals ▾ Womens ▾ Mens ▾ Electronics ▾ Top Sellers

Your Cart

[Continue Shopping](#)

1 Items

Need Help? Call [1-800-555-0199](#)

Boardroom Sheath Dress



Color: Black
Size: 4
In Stock

[Edit](#)

Each

A\$138.00

Quantity

1

Total

A\$138.00



Enter Promo Code

Promo Code

[Submit](#)

Shipping

Ground



Shipping cost

A\$7.99

Sales Tax

A\$7.30

Estimated Total

A\$153.29

[Checkout](#)

* Country

Australia

State

Australian Capital Territory

* City

Wellington

* ZIP Code

4470

Example: 12345

* Phone Number

9123456745

Example: 9234567890

Shipping Method

- 2-Day Express
- Ground
- Overnight

A\$9.99

A\$7.99

A\$19.99

This is a Gift

Payment

[Next: Payment](#)

ITEMS

Boardroom Sheath Dress



Color: Black
Size: 4
In Stock

Each

A\$138.00

Quantity

1

Total

A\$138.00

3.1.1 Till Payments Credit Card

Payment

Billing Address

Pradeep Paraperuthady Paraperuthady Kasaragod Wellington ACT 4470
[Update Address](#)
[Add New](#)

*Email [i](#)
*Phone Number [i](#)

test@tillpayments.com
9123456745

PayPal
CREDIT

*Card Number

VISA

*Expiration Month
*Expiration Year

03
2022

*Security Code [i](#)

[Next: Place Order](#)

9123456745

Shipping Method:

Ground **A\$7.99**

Total
A\$153.29

1 Items **A\$138.00**

Boardroom Sheath Dress



Color: Black
Size: 4
In Stock

Each
Quantity
Total

A\$138.00
1
A\$138.00

Payment

[Edit](#)

Billing Address:

Pradeep Paraperuthady
Paraperuthady
Kasaragod
Wellington ACT 4470

9123456745

Payment:

Credit Visa

*****1111

Ending 3/2022

[Place Order](#)

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9123456745

Shipping Method:
Ground

Total A\$153.29

Payment

Billing Address:
Pradeep Paraperuthady
Paraperuthady
Kasaragod
Wellington ACT 4470

9123456745

Payment:
Credit Visa
*****1111
Ending 3/2022

Pla

Locate Store

The Store Locator is designed to help you find the closest store near you.

Ac

M

C

Choose Verification Result

Authenticated (ECI 05)

Submit

Total A\$138.00

Death Dress

Color: Black
Size: 4
In Stock

Quantity 1

Total A\$138.00

About

About Us

Privacy

Terms

X

3.1.2 Till Payments APM PayPal

Ground

A\$7.99

Payment

Billing Address

Pradeep Paraperuthady Paraperuthady Kasaragod Wellington ACT 4470

Update Address Add New

*Email  test@tillpayments.com

*Phone Number  9123456745

PayPal **CREDIT**

You will be redirected to Pay Pal in the next page

Next: Place Order

1 Items A\$138.00

Boardroom Sheath Dress

 Color: Black
Size: 8
In Stock

Each **A\$138.00** Quantity 1 Total **A\$138.00**

91234567

Shipping Method:
Ground

Payment

Billing Address:
Pradeep Paraperuthady
Paraperuthady
Kasaragod
Wellington, ACT 4470
test@tillpayments.com
9123456745

Payment:
TILL_APM

Total A\$153.29

Pay with PayPal

With a PayPal account, you're eligible for free return shipping, Purchase Protection, and more.

Email or mobile number

Password

Stay logged in for faster purchases [\(?\)](#)

Log In

Having trouble logging in?

or

Pay with Debit or Credit Card

Close

Death Dress
Color: Black
Size: 8
In Stock

Quantity 1 Total **A\$138.00**

About
About Us
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Thank You

You will receive an email confirmation shortly at test@tillpayments.com

Save My Information

* Password

* Confirm Password

Create Account

Receipt

Order Number: 00002701
Order Date: 11/2/20

Shipping Address:
Pradeep Paraperuthady
Paraperuthady
Kasaragod
Wellington, ACT 4470
9123456745

Shipping Method:
Ground **A\$7.99**

Billing Address:
Pradeep Paraperuthady
Paraperuthady

3.2 Backend Transaction

Go to Merchant Tools > Till Payment > Transactions Management:

The screenshot shows the Salesforce Merchant Tools interface. At the top, there is a navigation bar with links for Sandbox - zzyy RefArchAU, Merchant Tools, Administration, Storefront, Toolkit, and user notifications. A red circle highlights the Merchant Tools link. Below the navigation bar is a search bar labeled "Merchant Tools feature lookup..." with a magnifying glass icon.

The main content area is organized into several sections:

- Content**: Libraries, Library Folders, Content Assets, Import & Export, Page Designer.
- Customers**: Customers, Customer Groups, Snapshots, Batch Processes, Import & Export.
- Custom Objects**: Custom Object Editor, Batch Processes, Import & Export.
- SEO**: URL Rules, URL Redirects, Static Mappings, Dynamic Mappings, Robots, Aliases, Customer CDN Settings, Sitemaps, URL Request Analyzer.
- Products and Catalogs**: Products, Product Sets, Catalogs, Product Options, Variation Attributes, Recommendations, Price Books, Inventory, Catalog Feeds, Batch Processes, Import & Export.
- Search**: Search Indexes, Search Index Rebuild Schedule, Search Index Query Testing, Search Dictionaries, Searchable Attributes, Search Driven Redirects, Stop Word Dictionary, Category Name Exclusions, Synonym Dictionary, Hypernym Dictionary, Compound Word Dictionary, Common Phrase Dictionary, Search Suggestions, Stemming Exceptions, Keyword Groups, Sorting Rules, Storefront Sorting Options, Search Preferences, Import & Export.
- Online Marketing**: Campaigns, A/B Tests, Promotions, Content Slots, Coupons, Source Code Groups, Active Data, Stores, Gift Certificates, Import & Export.
- Site Preferences**: Locking, Baskets, A/B Tests, Locales, Currencies, Source Codes, Gift Certificates, Search Preferences, Sequence Numbers, Order, Coupons, Promotions, Deprecated Storefront Toolkit, Storefront URLs, Custom Preferences, Pinterest Commerce, Privacy, Customer Service Center Preferences, Apple Pay.
- Analytics**: Reports and Dashboards (New!), Conversion Reports, Purchase Reports, Catalog Reports, Search and Navigation Reports, Customer Reports, Traffic Reports, A/B Testing Reports, Technical Reports, Legacy Reports.
- Till Payment**: This section is highlighted with a red circle and contains a sub-link [Transactions Management](#).

To the right of the main content area, there is a table showing transaction history:

Total	Status
AUD 153.29	DEBIT
AUD 154.34	DEBIT
AUD 154.34	REFUNDED
AUD 153.29	REFUNDED
AUD 325.48	DEBIT
AUD 325.48	REFUNDED
AUD 325.48	DEBIT

Below the table, the URL "Merchant Tools > Till Payment > Transactions Management" is shown, followed by the heading "Transactions Management".

The "Transactions Management" page displays a table of orders:

Order ID	Order Date	Email	Total	Status
00002701	2020-11-02 06:34	ttest@tippayments.com	AUD 153.29	DEBIT
00002519	2020-10-30 14:04	ppratdeep.p@ideatarmac.com	AUD 154.34	DEBIT
00002514	2020-10-30 13:58	ppratdeep.p@ideatarmac.com	AUD 154.34	REFUNDED
00002513	2020-10-30 13:56	ppratdeep.p@ideatarmac.com	AUD 153.29	REFUNDED
00002512	2020-10-30 12:47	sskasi@ideatarmac.com	AUD 325.48	DEBIT
00002511	2020-10-30 11:00	sskasi@ideatarmac.com	AUD 325.48	DEBIT
00002510	2020-10-30 10:53	sskasi@ideatarmac.com	AUD 325.48	DEBIT
00002509	2020-10-30 10:52	sskasi@ideatarmac.com	AUD 325.48	DEBIT
00002508	2020-10-30 10:49	sskasi@ideatarmac.com	AUD 325.48	REFUNDED
00002506	2020-10-30 10:46	sskasi@ideatarmac.com	AUD 325.48	DEBIT

At the bottom of the page, there are pagination controls: "Showing 1 - 10 of 12 items", "Show 50 100 items", "Next", and "Last".

Transactions Management

Order Search					
Order ID:			Find		
Order ID	Order Date	Email	Total	Status	
00002701	2020-11-02 06:34	ttest@tillpayments.com	AUD 153.29	DEBIT	
00002519	2020-10-30 14:04	p.pra@tillpayments.com	AUD 154.34	DEBIT	
00002514	2020-10-30 13:58	p.pra@tillpayments.com	AUD 154.34	REFUNDED	
00002513	2020-10-30 13:56	p.pra@tillpayments.com	AUD 153.29	REFUNDED	
00002512	2020-10-30 12:47	skasif@tillpayments.com	AUD 325.48	DEBIT	
00002511	2020-10-30 11:00	skasif@tillpayments.com	AUD 325.48	DEBIT	
00002510	2020-10-30 10:53	skasif@tillpayments.com	AUD 325.48	DEBIT	
00002509	2020-10-30 10:52	skasif@tillpayments.com	AUD 325.48	DEBIT	
00002508	2020-10-30 10:49	skasif@tillpayments.com	AUD 325.48	REFUNDED	
00002506	2020-10-30 10:46	skasif@tillpayments.com	AUD 325.48	DEBIT	

Showing 1 - 10 of 12 items

Show 50 100 items

Next Last

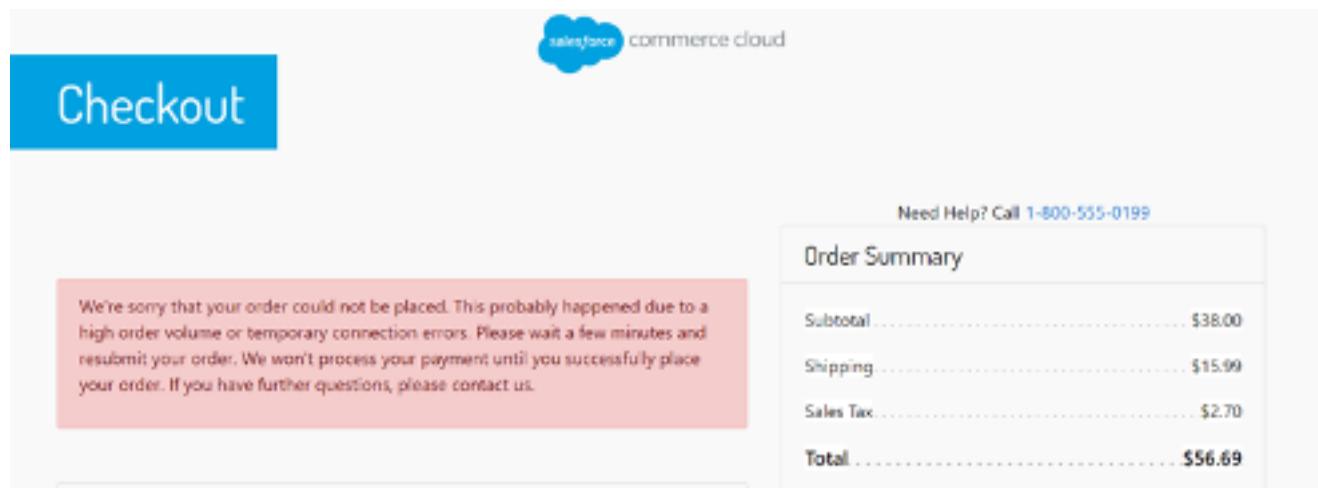
000012010	TILL_APM
	Pradeep Paraperuthady Paraperuthady Kasaragod Wellington ACT 4470 AU

Transaction Reference	Type	Status	Amount	
93c4c40f15cc6c0eed64	PREAUTHORIZE	OK	AUD 74.53	2020-11-04 1
5ca760010381eee53eb8	CAPTURED	FINISHED	AUD 74.53	2020-11-04 1

4. Operations, Maintenance

4.1 Availability

If Till Payments API service is down, customers will see the following error message when they try to place an order.



The screenshot shows a Till Payments checkout interface. At the top right, there's a "salesforce commerce cloud" logo. Below it, a large blue button says "Checkout". In the center, there's a red error message box containing the text: "We're sorry that your order could not be placed. This probably happened due to a high order volume or temporary connection errors. Please wait a few minutes and resubmit your order. We won't process your payment until you successfully place your order. If you have further questions, please contact us." To the right of the error message, there's a "Need Help? Call 1-800-555-0199" link. Further down, there's an "Order Summary" section with a table showing the following details:

Subtotal	\$38.00
Shipping	\$15.99
Sales Tax	\$2.70
Total	\$56.69

There will be errors detailing the exact issue in **custom-tillpayment-ecom**...log and **service-tillpayments-ecom**...log log files which will look something like below.

```
ERROR PipelineCallServlet|998628096|Sites-RefArch-Site|CheckoutServices-PlaceOrder|PipelineCall|FKp9Wjm6Bb custom.service.tillpayments.xml.version.service.HEAD [] service=tillpayments.xml.version.service status=SERVICE_UNAVAILABLE errorCode=0 errorMessage=The service is not enabled
```

If Till Payments API service is down, then contact the Support team. Details are in Support section.

4.2 Support

For any issues or support related enquiries for merchants, please contact us at support@tillpayments.com

5. Known Issues

None

6. Release History

Version	Date	Changes
20.1.0	1-Dec-2020	Initial Release

Need a bit of help? Contact us

Please contact
support@tillpayments.com
or call 1300 369 692

Our dedicated team of experts can assist you over the phone 24/7 with questions, problem resolution and extra training.