



Integration Document

SFRA

Version 22.2.1



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1. Overview

The Limepay payment cartridge enables commerce cloud to integrate with the Limepay payment service. It offers only non hosted checkout service to storefront. The purpose of the document is to guide through an easy installation of Limepay payment cartridge onto a commerce cloud store.

The integration is based on the SFRA demo store, on version 6.0.0, provided by SFCC. The integration consists of an archive with contents as described in the below table.

Name	Purpose
cartridges	Contains Limepay integration cartridges
cartridges\int_limepay_sfra	This cartridge contains the SFRA specific changes required for Limepay integration
cartridges\int_limepay	This cartridge contains the API calls for Limepay integration and common code
metadata	Contains system object extensions and configurations required for the integration
Documentation	Contains this document "Limepay SFRA Integration Document"

2. Features

The integration described in this document supports the following features:

- Limepay one time settlement and pay later instalment payment for checkout
- Pay later payment in 4 instalments over a frequency of 2 weeks each
- Adjustable initial amount and instalment due dates
- Limepay payment widgets on product and cart displays breakdown of prices for one time and pay later options
- Service for transactions in AUD currency
- Ability to enable/disable one time payments for store encouraging only pay later payments
- Ability to adjust the threshold value for which pay later payments would be allowed for store
- Ability for customer to select Limepay payment mode for checkout from product / cart pages through widget interaction
- Ability to disallow certain products or category from pay later payment
- Merchant refunds
- Ability to perform 3DS transactions.

2.1. Payment Modes

A store can be configured to allow any one of the following Limepay payment options for checkout :

- One time and pay later
- Pay later only

2.1.1. Limepay One Time Payment

Limepay one time settlement payment allows customer to pay the whole order total in one go entering card details (Refer section 2.1.3 for supported cards) and successfully place the order. Payment details are entered in a Limepay iFrame provided under the payment tabs. Merchant can customize the iFrame styles through cartridge supported file system. One time payments can be disabled throughout for any store through configuration thereby allowing only pay later payment.

2.1.2. Limepay Pay Later Payment

Limepay pay later payment allows customer to pay the order amount in total of 4 instalments each defaulting to a value of one fourth the order amount due over a period of 2 weeks. However, Limepay provides the ability for the customer to change the first instalment amount up to a certain extent (as per Limepay threshold rules) and have the subsequent instalments and their due dates adjusted. Products and categories can be configured to be disabled for pay later payment at checkout. Merchant also has the control over the order amount threshold allowing pay later payment. Following scenarios disqualifies a customer from pay later payment mode at checkout :

- At least one pay later disabled product in cart
- Order total exceeds the pay later threshold range*

* Limepay configures the pay later threshold range for a merchant used at checkout. (Refer point 4 under section 7.2.4)

2.1.3. Supported Payment Types

Supported cards by Limepay:

- Visa
- Mastercard
- American Express

Limepay also provides support to 3DSecure cards

For any other supported cards please check with Limepay

2.2. Limepay Payment Widget

Payment widget for product and cart pages provides the customer a breakdown information of the price between one time and pay later payment modes and thereby providing a means for the customer to opt between the 2 modes for checkout. Customers get to know the instalments at product total or cart total level. Widget gets a toggle state when both payment modes are configured for the store as mentioned in the above section, allowing the customer to interact and he/she can preselect

a particular payment mode for checkout from product or cart pages. User toggled state of the widget is remembered throughout the user session among product/cart widgets and checkout pages. Widget gets a simple textual state and calls out the instalment breakdown when one time is disabled and pay later is only configured for the store. However, cart and product pages can be configured by merchant to independently display either of the textual or toggle widget when payment mode selected for the site is one time and pay later. Whereas when payment mode is configured for only pay later, textual widget takes precedence and toggle widget shall not be seen anywhere across the storefront user flow.

2.3. Limepay 3DS

Limepay 3DS payments allow brands to perform 3DS transaction via Limepay payment methods. When place order on review page, an API call made to Limepay for creating payment and SFCC pass the 3DS true in API request and Limepay Payment API return a 403 response along a payment action which requires to perform 3DS challenge by customer. In this case an Popup widget appears on front end rendered by Limepay and customer have to go through all 3DS verification in Limepay 3DS Popup widget. Limepay either return error or success after verifying the 3DS that leads to place the order in case of success and show the error in case of any 3DS challenge failure.

2.4. Supported API

API	Description	Relative Endpoint
Create Order	Creates a new order at Limepay system during payment authorization	/orders
Pay Order	Pay for an order using existing payment token	/orders/{limepay_order_id}/pay
Create Refund	Create a new refund for Limepay transaction	/refunds
Upsert Customer	Create a new Limepay customer	/customers/plugin
Signin Customer	Sign in Limepay Customer With Customer ID and generate customer token	/authn/tenants/accounts:signinCustomerWithCustomerId

Also refer section 5.2.1. for complete endpoint details

3. Limitations, Constraints

Limepay service supports only transactions in AUD currency. Any other site currency is not supported and or need to be checked with Limepay service team.

4. Privacy, Payment

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

No credit card details are stored within SFCC using this integration.

4. Compatibility

Compatible with Commerce Cloud Platform Release 21.5, SFRA 6.0.0.

5. Installation

5.1. Cartridges

Upload the following cartridges to the code version in Business Manager

- int_limepay
- int_limepay_sfra

Configure the cartridge path as shown below by adding to the beginning of the cartridge path

Site Cartridge Path	int_limepay_sfra:int_limepay
---------------------	------------------------------

5.2. Metadata

All BM configurations related to the below components have been configured within **metadata/site-template** folder

- System object extensions
- Services
- Payment Processors
- Payment Methods
- Customer Groups

Follow the below steps to import the BM configurations for the above-mentioned components

1. Locate the folder **metadata** in the installation package
2. Review the contents within **site-template** folder
3. Change the site ID under path **site-template\sites** to merchant site ID
4. Archive the folder to 'site-template.zip' and the Import the file via Site Import & Export

5.2.1. Services

New service 'limepay.http.service' has been added as part the integration

Service ID	Service Profile	Service Credential
limepay.http.service	limepay.http.profile	limepay.http.credentials

Map the URLs for the sandbox and production endpoints as follows

Environment	URL
Non-production instances	https://api.sandbox.limepay.com.au
Production instances	https:// api.limepay.com.au

Service credentials requires no user/password rather refers the public/secret key combinations mapped to site preferences.

Note : Do not use hyphenated hostnames to access Open Commerce API (OCAPI) or Storefront while setting up the URL for the calls made internally for OCAPI and Storefront. Instead of use vanity host names such as brand.com , www.brand.com etc.

5.2.2. Payment Processor

New payment processor used by the cartridge

Payment Processor ID	Purpose
LIMEPAY	Unified payment processor for processing Limepay one time and pay later transactions

5.2.3. Payment Methods

Two new payment methods are used by the cartridge

Payment Method ID	Purpose
Limepay	Main payment method used for Limepay one time and pay later checkout
Limepay_instalment	Dummy payment method used for configuring pay later threshold range. Not used for placing orders.

5.2.4 Customer Groups

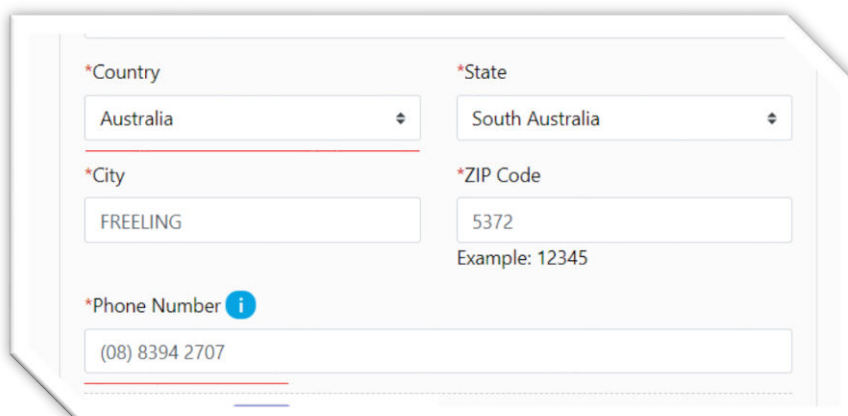
New dynamic customer group '*ExcludeLimepayPayLater*' is used by the cartridge based on user storefront custom session attribute. When a customer adds at least one pay later disabled product to cart he/she gets added to this customer group thereby being disqualified for pay later option at checkout.

5.3. Google Phone Number Library – Node.js extension

Limepay checkout API accepts customer billing country and phone number as input for rendering the checkout iFrame. A Node.js extension package *'google-libphonenumber'* is used by the cartridge to parse these two customer fields resulting in E164 formatted phone number as required by the API. For this add the node package *'google-libphonenumber'* to your project package.json dev dependencies and build

```
"author":  
"devDependencies": {  
  "google-libphonenumber": "^3.2.20",  
  "node-sass": "^4.11.0",  
  "postcss-loader": "^2.1.5",  
  "eslint": "^4.19.1",
```

For example, customer selects billing country as *Australia* and enters billing phone number as shown in below image, the library then parses it to E164 format output as *'+61883942707'* where *'+61'* is mapped from billing country and the remaining digits from the actual billing phone field. The formatted number is then passed to Limepay checkout iFrame for rendering and proceeding with checkout by customer. Note, One Time Password (OTP) SMS are generated by Limepay systems onto this phone number while proceeding with pay later payment option and is required to be authenticated by the storefront customer before successfully placing order



The image shows a checkout form with the following fields:

- *Country**: Australia (dropdown menu)
- *State**: South Australia (dropdown menu)
- *City**: FREELING (text input)
- *ZIP Code**: 5372 (text input) with an example: 12345
- *Phone Number**: (08) 8394 2707 (text input) with an information icon (i)

For more details on *'google-libphonenumber'* library, [see](#)

6. Configurations

The below sections explain how to set up the Limepay integration related configurations within Business Manager

6.1. Configuring Site Preferences

Refer to the following table for the different site preferences used by Limepay integration

Site Preference	Value	Description
Limepay Enabled	Yes	Centralized control to turn on/off Limepay payments for the site
Limepay Client Public Key	<i>Merchant's public key</i> <i>Limepay</i>	Key for rendering Limepay payment iFrame at checkout page under payment tab, used by Limepay checkout API. Also utilized for acquiring payment tokens for completing an order
Limepay Client Secret Key	<i>Merchant's secret key</i> <i>Limepay</i>	Key for authenticating a merchant for Limepay service by backend server. Place order works with correct pair of merchant specific public/secret keys.
Limepay Payment Options	<ul style="list-style-type: none"><i>Full Payment & Split Payment (multiple)</i><i>Split Payment Only (splitOnly)</i>	Allowed Limepay payment options for site. Full Payment & Split Payment provide the customer with the choice to opt between the 2 for checkout. Whereas Split Payment Only allows pay later as a payment and no one time settlements allowed.
Limepay Multi Option Default	<ul style="list-style-type: none"><i>Full Payment (full)</i><i>Split Payment (split)</i>	This preference is used only when 'multiple' is selected for the above preference 'Limepay Payment Options'. Lets merchants decide which among the 2 modes would be defaulted as payment option for a site.
Limepay PDP Widget Mode	<ul style="list-style-type: none"><i>Textual (textual)</i> <i>Message</i><i>Toggle (toggle)</i> <i>Button</i>	Decides product page / quick view Limepay widget behavior. Toggle button displays breakdown of one time and pay later options and allows customer to choose between 2 for checkout. Toggle default state matches to above preference 'Limepay Multi Option Default'. Toggle widget is applicable for a site when both payments are allowed as per preference 'Limepay Payment Options'. However, a merchant may also configure to display textual widget despite both payments are allowed. The textual widget shows a

		breakdown of pay later payment. When 'splitOnly' is configured for 'Limepay Payment Options' irrespective of this preference widget behavior shall always fall back to textual mode as customer has no options to choose between.
Limepay Cart Widget Mode	<ul style="list-style-type: none"> • <i>Textual (textual)</i> <i>Message</i> • <i>Toggle (toggle)</i> <i>Button</i> 	Decides cart page Limepay widget behavior. Toggle button displays breakdown of one time and pay later options and allows customer to choose between 2 for checkout. Toggle default state matches to above preference 'Limepay Multi Option Default'. Toggle widget is applicable for a site when both payments are allowed as per preference 'Limepay Payment Options'. However, a merchant may also configure to display textual widget despite both payments are allowed. The textual widget shows a breakdown of pay later payment. When 'splitOnly' is configured for 'Limepay Payment Options' irrespective of this preference widget behavior shall always fall back to textual mode as customer has no options to choose between.
Lime Pay Script API URL	(See below)	Limepay API url for rendering iFrame payment section at checkout and acquiring payment token for processing order based on storefront basket details. This URL works with merchant's public key preference mentioned above
Limepay Customer Service Email	(Merchant email id's)	Comma or semi colon separated email id's to which Limepay refund failure notification would be sent
3DS Enabled	Yes/No depending on enable/disable 3DS Flow	Control to turn off/on the Limepay 3DS functionality.
Limepay 3DS Minimum Amount	Any value in number.	<p>Minimum Total Amount added to enable the Limepay 3DS Verification.</p> <ul style="list-style-type: none"> • Only check if 3DS is enable and see if order total is greater or equal to this amount then 3DS verification is allowed.
Primary Color	Any Hex Color Code.	Color that loads on Limepay render widget
Apple Pay Domain Association	Domain Association Code	Used to Limepay Integration with Apple Pay

Environment	Limepay Script API URL
Non-production instances	https://checkout.limepay.com.au/v2/checkout-v2.1.0.min.js
Production instances	https://checkout.limepay.com.au/v2/checkout-v2.1.0.min.js

6.2. Configuring Payment Methods

Refer below table for configuring Limepay payment methods

Payment Method Setting	Payment Method : Limepay	Payment Method : Limepay_instalment	Description
Enabled	Yes	Yes	Though <i>Limepay_instalment</i> is a dummy payment method it requires to be enabled to allow threshold price range validation by storefront. However the same payment method has been skipped from rendering as a payment method at checkout.
Payment Processor	LIMEPAY	<i>Do not configure</i>	Only payment method used for checkout is 'Limepay' and is mapped to a valid processor. 'Limepay_instalment' is only for configurations
Min/Max Payment Ranges	<i>Do not configure</i>	<i>Min/Max payment ranges allowed for pay later payment (Use the min/max range provided by Limepay)</i>	Do not configure the min/max payment ranges for 'Limepay' as it is the main payment method used to place orders. Set it for supported AUD currency against 'Limepay_instalment' to limit payment range allowed for pay later.
Currencies	AUD	AUD	Please configure the applicable currencies based on your requirements.
Countries	<i>Based on requirements</i>	<i>Based on requirements</i>	Please configure the applicable countries based on your requirements.

7. User Guide

7.1. Custom CSS

Limepay allows merchant to redesign the checkout iFrame content through custom css file hosted by cartridge and rendered by the Limepay checkout API

File Location : `int_limepay_sfra\cartridge\client\default\scss\limepay.scss`

CSS added to the custom file will override the Limepay default CSS

Compile the scss file to the equivalent .css which is being invoked by Limepay checkout API as shown below

File : `int_limepay_sfra\cartridge\client\default\js\limepay.js`

```
    }  
  });  
  LimepayCheckout.render({  
    elementId: 'limepay-cont',  
    currency: order.orderInfo.currency,  
    amount: order.orderInfo.amount,  
    paymentType: context.preselectedPaymentType == 'full' ? 'paycard' : 'payplan',  
    showPayNow: false,  
    showPayPlanSubmit: false,  
    checkoutCSSOverride: context.checkoutCSSOverride  
  });  
  LimepayCheckout.errorHandler(function (err) {  
    // Handle errors
```

For more detail [see](#)

7.2. Limepay Widget

Limepay provides widgets on product pages / quick views and cart page allowing the customer to know a breakdown of price for each payment modes i.e, one time and pay later. There are 2 types of widget the first being a toggle widget allowing customer interaction whereas the second a plain textual one and requires no customer interaction. Widget enhances customer experience on the store letting him/her know what mode of payment will be allowed for checkout. The toggle widget is identical to the toggle button observed within the checkout iFrame as shown below, with the widget and checkout toggle states being synced throughout the site on customer choice basis

The screenshot displays the Limepay checkout interface. At the top, there is a card number field showing '(08) 8394 2101'. Below this, a 'CREDIT' button is visible. To the right, the text 'Card Payment or Payment Plan' is shown, followed by logos for VISA, Mastercard, and American Express. A horizontal line separates this section from the payment options below. The payment options section features a toggle switch. On the left, 'ONE TIME PAYMENT' is selected, showing a price of '\$52.99'. On the right, '4 INTEREST FREE PAYMENTS OF \$13.25' is shown. At the bottom, there are three input fields: a card number field with the placeholder '1234 1234 1234 1234', an expiration date field with the placeholder 'MM / YY', and a CVC field.

NB: Widgets are visible on product/cart pages only when the followings conditions are satisfied

- 'Limepay Enabled' preference is set as true
- Payment method 'Limepay' is active for site
- User session currency matches the configured currency, here AUD for the 'Limepay' payment method

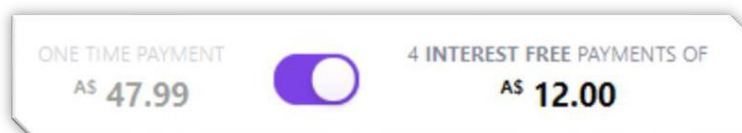
7.2.1. Toggle Widget

Limepay`s toggle widget has two states, with one time payment on the left and pay later payment on the right. Each side also shows the price breakdown when used for checkout by the customer. One time price split up on the left matches with the full price as seen on product or cart level. Whereas pay later price split up on the right matches to an instalment amount of one fourth the full product or cart total that the customer would pay equally in 4 different slots over a duration of 2 weeks each. Toggle widgets are allowed for a site only when the preference 'Limepay Payment Options' is mapped to 'multiple'. Followingly a merchant can configure to have the toggle button be preselected for all customers on a particular side through preference 'Limepay Multi Option Default'. The customer can change the state by clicking on widget and have a particular mode of payment preselected for his/her checkout. Once a customer views the toggle widget, and changes the state either from product, cart or checkout pages it is then recorded against user session and the same state would be retained throughout the storefront session for product/cart/checkout pages.

A. Toggle widget selected for one time payment

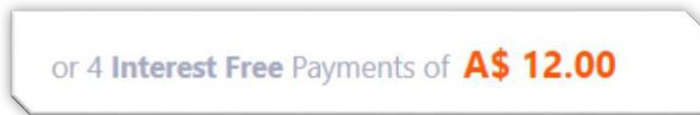


B. Toggle widget selected for pay later payment



7.2.2. Textual Widget

Limepay's textual widget calls out only the pay later price breakdown with a plain text message. This widget requires no customer interaction.

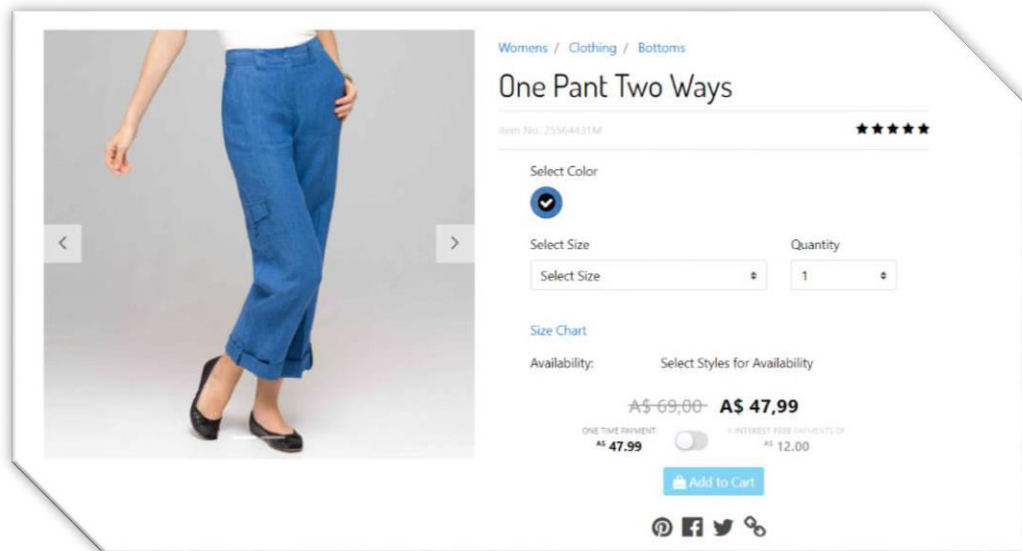


7.2.3. Product Widget

Limepay toggle and textual widgets are supported in product pages and quick views for all type of products, and positioned beneath the product price section. Merchant can configure to show either toggle or textual widget through preference '*Limepay PDP Widget Mode*'. However for preference '*Limepay Payment Options*' selected as '*splitOnly*' product widget would always fallback to textual mode irrespective of the selected preference value for '*Limepay PDP Widget Mode*'. Certain products and or categories can be configured to disallow pay later option through custom attributes '*disableLimepayPayLater*'. Products viewed would not show any form of the widget if the above attribute is set as '*true*'. The attribute look up for product viewed follows the hierarchy as product > product's primary category. No other factors have control over the display of product widgets unlike in the cart page related to customer scenarios like basket including pay later disabled products and or total exceeding pay later threshold range. This will be discussed below in the cart widget section.

Let us see how product widgets are shown for different scenarios as follows

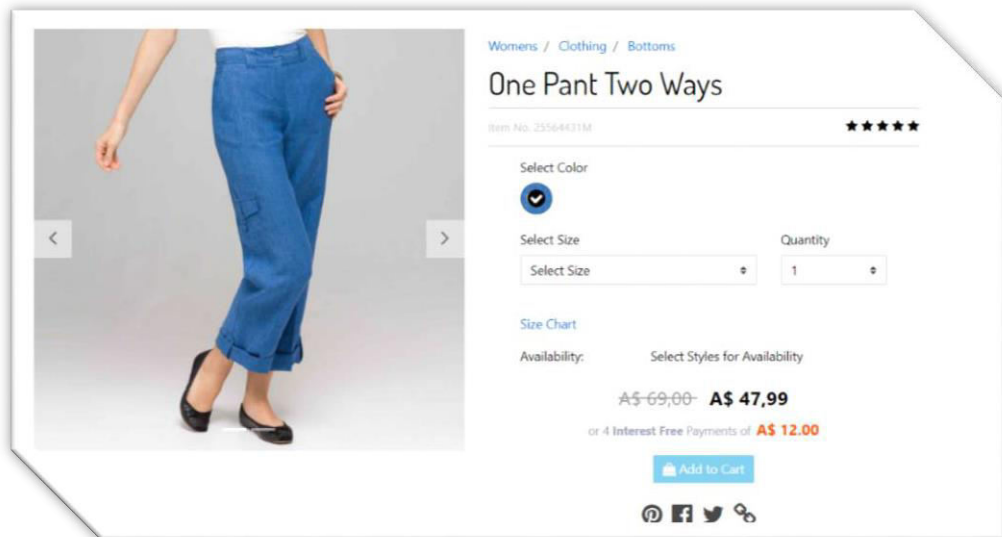
1. 'Limepay Payment Options' set as 'multiple' and 'Limepay PDP Widget Mode' set as 'toggle', product attribute 'disableLimepayPayLater' is set as 'no'. Product widget would be as shown below



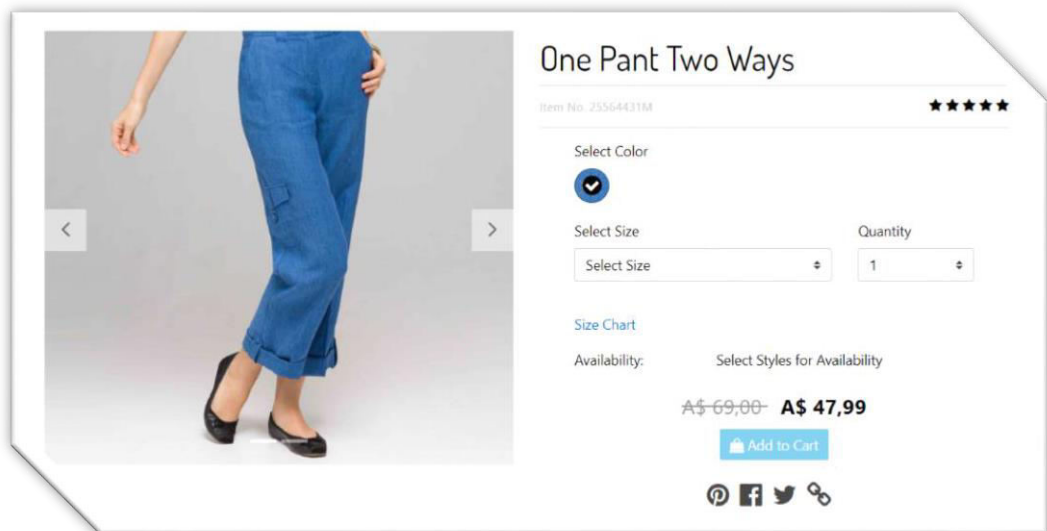
2. 'Limepay Payment Options' set as 'multiple' and 'Limepay PDP Widget Mode' set as 'textual', product attribute 'disableLimepayPayLater' is set as 'no'. Product widget would be as shown below



3. 'Limepay Payment Options' set as 'splitOnly' and 'Limepay PDP Widget Mode' set as 'toggle' or 'textual', product attribute 'disableLimepayPayLater' is set as 'no'. Product widget would be as shown below



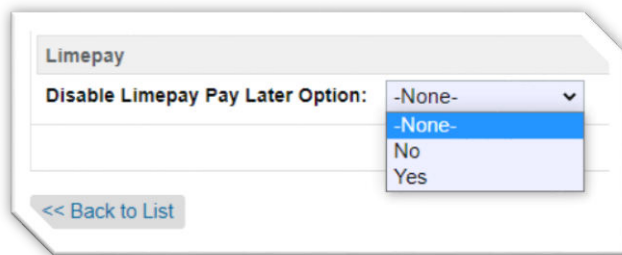
4. When product attribute 'disableLimepayPayLater' is set as 'yes', Limepay preferences matches either of the above configurations 1,2 or 3 OR when 'Limepay Enabled' is set as 'no', product widget would not be shown



NB : Merchant can set the 'disableLimepayPayLater' at category level also, products viewed whose primary category attribute have 'disableLimepayPayLater' value as checked (true) do hide the product widget. Product's 'disableLimepayPayLater' attribute is looked upon for a true/checked value in the following order

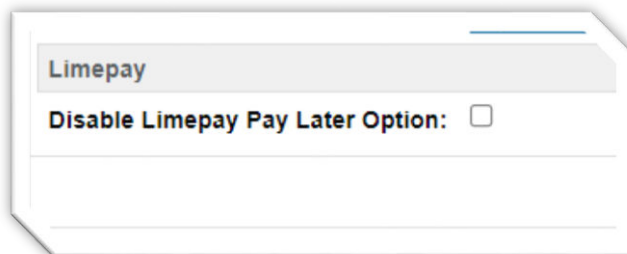
1. Product
2. Product's primary category

Product level disable pay later attribute :



The screenshot shows a configuration widget for Limepay. It has a header 'Limepay' and a label 'Disable Limepay Pay Later Option:'. A dropdown menu is open, showing options: '-None-', '-None-', 'No', and 'Yes'. The '-None-' option is currently selected. At the bottom left, there is a button labeled '<< Back to List'.

Category Level disable pay later attribute :



The screenshot shows a configuration widget for Limepay. It has a header 'Limepay' and a label 'Disable Limepay Pay Later Option:'. Next to the label is an unchecked checkbox. Below the label is a text input field.

NB: Product page widgets are placed within the cached product container, while the textual widgets are cached toggle widgets are not, in order to render customer dynamic toggle state. So changing the widget behavior through preference '*Limepay PDP Widget Mode*' requires cache clear for effective display of widget behaviour

When widget is configured for Toggle mode, they are rendered through remote include. This is to synchronize the toggle widget with the customer dynamic selection throughout the storefront session. While textual widget are always cached requires no dynamic content other than product price.

7.2.4. Cart Widget

Limepay cart widgets supports toggle and textual modes and is positioned below cart total in summary section. Merchant can configure to show either toggle or textual widget through preference '*Limepay Cart Widget Mode*'. However, for preference '*Limepay Payment Options*' selected as '*splitOnly*' cart widget mode would always fallback to textual mode irrespective of the selected preference value for '*Limepay Cart Widget Mode*'. This is same as the product widget behavior. Configured mode of cart widget would not be visible if basket contains at least one pay later disabled product described in above section AND/OR cart total exceeds the pay later threshold range configured for the dummy payment method '*Limepay_instalment*'.


1. 'Limepay Payment Options' set as 'multiple' and 'Limepay Cart Widget Mode' set as 'toggle'. Basket do not contain pay later disabled product. Cart widget would be as shown below

[Continue Shopping](#)

1 ITEMS

[Need help? Call 1800-222-222](#)

One Pant Two Ways



Color: Indigo

Size: 4

In Stock

Edit

Each

~~A\$ 69.00~~ **A\$ 47.99**

Quantity

1

Total

A\$ 47.99

X

Enter Promo Code

Submit

Shipping

Standard AU

⌵

Shipping cost

A\$ 5.00

Sales Tax

A\$ 2.53

Estimated Total

A\$ 52.99

ONE TIME PAYMENT

A\$ 52.99

☒


4 INTEREST FREE PAYMENTS OF

A\$ 13.25

Checkout

2. 'Limepay Payment Options' set as 'multiple' and 'Limepay Cart Widget Mode' set as 'textual'. Basket do not contain pay later disabled product. Cart widget would be as shown below

One Pant Two Ways



Color: Indigo

Size: 4

In Stock

Edit

Each

~~A\$ 69.00~~ **A\$ 47.99**

Quantity

1

Total

A\$ 47.99

X

Enter Promo Code

Submit

Shipping

Standard AU

⌵

Shipping cost

A\$ 5.00

Sales Tax

A\$ 2.53

Estimated Total

A\$ 52.99

or 4 Interest Free Payments of

A\$ 13.25

Checkout

3. 'Limepay Payment Options' set as 'splitOnly' and 'Limepay Cart Widget Mode' set as 'toggle' or 'textual'. Basket do not contain pay later disabled product. Cart widget would be as shown below

One Pant Two Ways

Color: Indigo
Size: 4
In Stock
[Edit](#)

Each	Quantity	Total
A\$ 69.00 A\$ 47,99	1	A\$ 47,99

Enter Promo Code

Shipping

Shipping cost A\$ 5,00
 Sales Tax A\$ 2,53
Estimated Total A\$ 52,99

or 4 Interest Free Payments of **A\$ 13.25**

4. When basket contains at least one pay later disabled product AND/OR Limepay pay later threshold exceeded for cart total, Limepay preferences matches either of the above configurations 1,2 or 3 OR when 'Limepay Enabled' is set as 'no', cart widget would not be shown

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

One Pant Two Ways

Color: Indigo
Size: 4
In Stock
[Edit](#)

Each	Quantity	Total
A\$ 69.00 A\$ 47,99	1	A\$ 47,99

Enter Promo Code

Shipping

Shipping cost A\$ 5,00
 Sales Tax A\$ 2,53
Estimated Total A\$ 52,99

NB: Threshold range configured for pay later payment 'Limepay_instalment' has to be in sync with range provided by Limepay for the merchant to have unified checkout payment and widget experience among product, cart and checkout pages.

Synchronising the range between systems is to keep the behaviour of the widget and checkout iFrame identical (product pages / quick views widget don't rely on threshold check). For example when both payment modes are configured for site, and cart widget is set for toggle, if cart total exceeds pay later threshold no widget will be shown. Likewise iFrame at checkout won't allow pay later payment. If cart

widget is set for textual widget and cart total exceeds pay later threshold no widget will be shown and checkout iFrame will be rendered with a message signalling pay later threshold breach.

Pay later threshold range configuration

Configure range provided by Limepay for merchant under payment method

Payment Method	Configuration	Yes/No	Count
Limepay	Card Payment or Payment Plan	Yes	11
Limepay_instalment	Limepay Pay Later configuration	Yes	12
PayFlex	Payflex	Yes	10
PayPal	Pay Pal	No	6
QuadPay	QuadPay	Yes	9
Zip	Zip	Yes	8

Limepay_instalment Details

Image: [Select](#)

Payment Processor:

Countries: [Edit](#)

Currencies: [Edit](#)

Customer Groups: [Edit](#)

Min/Max Payment Ranges: **Min/Max Payment Ranges**

Currency	Min	Max
A\$	5	1200
¥		
€		

Since 'Limepay' is the main payment method is used for checkout no range shall be set here

Payment Method	Configuration	Yes/No	Count
GIFT_CERTIFICATE	Gift Certificate	Yes	4
Limepay	Card Payment or Payment Plan	Yes	11
Limepay_instalment	Limepay Pay Later configuration	Yes	12
PayFlex	Payflex	Yes	10
PayPal	Pay Pal	No	6
QuadPay	QuadPay	Yes	9
Zip	Zip	Yes	8

Limepay Details

Description:

Image: [Select](#)

Payment Processor:

Countries: [Edit](#)

Currencies: [Edit](#)

Customer Groups: [Edit](#)

Min/Max Payment Ranges: **Min/Max Payment Ranges**

Currency	Min	Max
A\$		

7.2.5. Checkout Content & Stages

Limepay payment section for checkout is rendered within an iFrame appearing when the customer selects Limepay payment method for billing. The customer must enter the card details in the iFrame and then proceeds. Upon progressing the customer might encounter subsequent stages if applicable within the same iFrame, that has to be filled in before completing the order. The subsequent stages for one time / pay later checkout could be as follows :

One time settlement stages

- 3D Secure page for 3DS supported cards

Pay later payment stages

- email/phone OTP verification
- Identity Details – Name/address/DOB details for KYC (for new customer who have not KYCed before)
- Identity Details – Passport/DL details for KYC (for new customer who have not KYCed before)
- Review payment plan, accepting terms and conditions
- 3D Secure page for 3DS supported cards

As the customer advances with each stage within the iFrame and click on the place order button, a payment token is generated by the Limepay API and saved against the order to be used for the create order service. Customer then lands on order summary page, and upon clicking the place order button a service call is triggered to Limepay to complete the order. On successful service response customer gets the order placed and lands on the order confirmation page.

Limepay payment iFrame in checkout billing :

The screenshot displays the Limepay payment interface within a checkout iFrame. At the top, it says "Description Test on Dev". Below this, there are two payment options: "Pay \$94.99 today" with a subtext "Pay now in full" and a circular icon, and "Pay \$23.75 today" with a subtext "Buy Now Pay Later" and a circular icon. The "Payment source" section shows "Credit/Debit Card" with Visa and Mastercard logos. Below this, there is a card number field containing "1234 1234 1234 1234", an expiration date field with "MM / YY", and a CVC field. At the bottom, there is a blue button labeled "Next: Place Order". A small disclaimer at the bottom of the iFrame states: "This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#)."

iFrame content when toggle switched to pay later option

CREDIT

Card Payment or Payment Plan

VISA

MasterCard

American Express

Description Test on Dev

Pay \$905.99 today

Pay now in full

☐

Pay \$226.50 today

Buy Now Pay Later

with 3 future payments

☒

\$226.50

17 JUN

\$226.50

1 JUL

\$226.49

15 JUL

Contact Details

Phone

+61 9234567890

Email

abduravoof@gmail.com

By continuing, you consent to your personal information being disclosed and used to help check and verify your identity. Limepay collect and use the information you provide to administer your payment plan on behalf of the merchant. It is a condition of the payment plan that you provide this information. You can check the information we hold about you at any time. You can learn more by reading our [Privacy Policy](#) and [Terms of Use](#)

Verify contact details

3D Secure page (test page for sandboxes)

CREDIT

Card Payment or Payment Plan

VISA

MARCA

3D SECURE

To protect your card against unauthorised use, enter your bank issued code below.
They may reference our payment provider, Limepay, and pre-authorise a zero amount.

3D Secure 2 Test Page

This is a test 3D Secure 2 authentication for a transaction with **Limepay Pty Ltd**.
In live mode, customers will be asked to verify their identity with a push notification, a text message, or another method chosen by their bank.

FAIL

COMPLETE


[Next: Place Order](#)


NB: 3DS page is shown within the iFrame in subsequent stages of customer billing

Pay later email & phone OTP verification

DID YOU RECEIVE THE CODE(S)?

We've sent codes to +917907163740 and fiaz.raffi@tryzens.com

 Mobile code

 Email code

[Resend Code](#)

[Resend Code](#)

Confirm →

Go back

Identity Details

IDENTITY VERIFICATION

We need to collect some personal information to verify your identity

Name:

Date of Birth:

Australian Residential Address:

Identification Method:

▼

▼

Verify Identity →

Go back

Pay later review payment plan stage

[← Back](#)

YOUR PAYMENT PLAN

Due Today: 25.14 [Change todays payment amount →](#)

3 fortnightly payments of 25.12, starting 3 Jul 2021 [Change →](#)

☐ I've read and agree to the [Payment Plan Terms](#) and consent to the collection, use and disclosure of my personal information in accordance with the Limepay [Privacy Policy](#)

Pay later change today's payment

TODAY'S PAYMENT

How much would you like to pay today? (Minimum 25.14)

We may add a couple of cents so your future payments are equal.

\$ 25.14

[← Cancel](#) [Update →](#)

Pay later change payment dates (+/- 2days from the proposed dates)

← Back

YOUR PAYMENT PLAN

FIRST PAYMENT	SECOND PAYMENT
19 JUN 2021	3 JUL 2021
\$30.00	\$23.50
Change	Change
THIRD PAYMENT	FOURTH PAYMENT
17 JUL 2021	31 JUL 2021
\$23.50	\$23.50
Change	Change

☒ I've read and agree to the [Payment Plan Terms](#) and consent to the collection, use and disclosure of my personal information in accordance with the Limepay [Privacy Policy](#)

Once customer has successfully advanced through all stages applicable for one time or pay later payments, customer can finally proceed for order completion.

Once customer place an order, payment is created on Limepay and if customer has 3DS card then customer has to complete the 3DS challenge.

Shipping

Shipping Address:
Test Test
1 Marlin Parade
Cairns QLD 4870
+926174051010

Shipping Method:
Ground (7-10 Business Days)

Payment

Billing Address:
Test Test
1 Marlin Parade
Cairns QLD 4870
ahsamsiddiquewarraich@gmail.com
+926174051010

Payment:
Card Payment or Payment Plan

Sales Tax:
Total

3D Secure

Test Payment Page

This is a test payment of **\$349.89 AUD** using **3D Secure**.
In live mode, customers will be asked to verify their identity with a push notification, a text message, or another method chosen by their bank.

[COMPLETE AUTHENTICATION](#) [FAIL AUTHENTICATION](#)

Place Order

Once 3DS authentication fails then customer sends back to the payment page with an error explain the payment issue.

Invalid payment confirmation request

Customer

Customer Information:

ahsandsiddiquewarraich@gmail.com

Shipping

Shipping Address:

Test Test

1 Marlin Parade

Cairns QLD 4870

+926174051010

Shipping Method:

Ground (7-10 Business Days)

A\$ 9,99

Payment

Billing Address

Test Test 1 Marlin Parade Cairns QLD 4870

Update Address

Add New

*Phone Number

+926174051010

Card Payment or Payment Plan

1234 1234 1234 1234

MM / YY

CVC

Description Test on Dev

Next: Place Order

Order

Subtot

Shippin

Sales T

Total

10 Item

Long 5

Each

A\$ 49

33,99

Once the 3DS performed successfully then customer land successfully on the order confirmation page.

Thank you for your order.

You will receive an email confirmation shortly at
ahsandsiddiquewarraich@gmail.com

Save My Information

* Password

* Confirm Password

Create Account

Receipt

Order Number: 00007709

Order Date: 3/22/22

Shipping Address:

Test Test

1 Marlin Parade

Cairns, QLD 4870

+926174051010

Shipping Method:

Ground (7-10 Business Days)

A\$ 9,99

Billing Address:

Test Test

1 Marlin Parade

Cairns, QLD 4870

ahsandsiddiquewarraich@gmail.com

+926174051010

Payment:

Card Payment or Payment Plan

7.2.6. Customer Applicable Checkout View

The iFrame rendered for Limepay payment section differs based on configuration and customer basket state. Let us see different possible payment iFrame checkout view offered to customer based on following rules :

A. Limepay one time and pay later allowed

When both mode of payments are configured for the site (preference '*Limepay Payment Options*' set as '*multiple*')

1. And storefront customer has no pay later disabled product in cart nor pay later threshold exceeded for cart total, iFrame renders as shown below. Customer can choose between the 2 modes for payment for checkout by toggling to the desired state

Description Test on Dev

Pay \$94.99 today
Pay now in full

Pay \$23.75 today
Buy Now Pay Later

Payment source

Credit/Debit Card

1234 1234 1234 1234

MM / YY CVC

This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#)

Next: Place Order

2. Pay later disabled product added to cart by customer, iFrame renders as shown below. Limepay payment falls back to only allowing one time settlement for placing order and customer cannot toggle nor check out with pay later option

CREDIT Card Payment or Payment Plan

Description Test on Dev

Pay \$905.99 today
Pay now in full

Pay \$226.50 today
Buy Now Pay Later with 3 future payments

\$226.50 17 JUN	\$226.50 1 JUL	\$226.49 15 JUL
--------------------	-------------------	--------------------

Contact Details

Phone
+61 9234567890

Email
abduravoof@gmail.com

By continuing, you consent to your personal information being disclosed and used to help check and verify your identity. Limepay collect and use the information you provide to administer your payment plan on behalf of the merchant. It is a condition of the payment plan that you provide this information. You can check the information we hold about you at any time. You can learn more by reading our [Privacy Policy](#) and [Terms of Use](#)

Verify contact details

3. Pay later threshold exceed for cart total (no pay later disabled product in cart), iFrame renders as shown below. Limepay payment falls back to only allowing one time settlement for placing order and customer cannot toggle nor check out with pay later option

Description Test on Dev

Pay \$94.99 today
Pay now in full

Pay \$23.75 today
Buy Now Pay Later

Payment source

Credit/Debit Card

1234 1234 1234 1234

MM / YY CVC

This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#).

Next: Place Order

4. Basket contains pay later disabled products (rule A2 above) and basket total also exceeds pay later threshold (rule A3 above), rule A2 takes precedence over A3. Here Limepay payment falls back to only allowing one time settlement for placing order

Description Test on Dev

Pay \$94.99 today
Pay now in full

Pay \$23.75 today
Buy Now Pay Later

Payment source

Credit/Debit Card

1234 1234 1234 1234

MM / YY CVC

This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#).

Next: Place Order

B. Limepay pay later only allowed

When only pay later payment is configured for the site (preference '*Limepay Payment Options*' set as '*splitOnly*')

1. And storefront customer has no pay later disabled product in cart nor pay later threshold exceeds, iFrame renders as shown below. Customer can only checkout with pay later advancing through different stages, one time settlements not allowed for site

The screenshot shows a checkout page with a 'CREDIT' tab selected. Below the tab, there's a 'Description Test on Dev' section. The main offer is 'Pay \$905.99 today' with a 'Pay now in full' option. Below this, a dark box highlights 'Pay \$226.50 today' with the subtext 'Buy Now Pay Later with 3 future payments'. A table shows the payment schedule: \$226.50 on 17 JUN, \$226.50 on 1 JUL, and \$226.49 on 15 JUL. Below the table, there's a 'Contact Details' section with fields for 'Phone' (+61 9234567890) and 'Email' (abduravoo@gmail.com). A consent statement is present, and a 'Verify contact details' button is at the bottom.

2. Pay later disabled product added to cart, no Limepay payment method option is shown for checkout rather only shows other applicable payment methods. Limepay payment stays disabled entirely for customer until basket is cleared form pay later disabled products.

The screenshot shows a checkout page with a 'CREDIT' tab selected. Below the tab, there's a 'Card Payment or Payment Plan' section. It includes fields for '*Card Number', '*Expiration Month' (dropdown), '*Expiration Year' (dropdown), and '*Security Code' (with an info icon). There's a checkbox for 'Save Card to Account' and a 'Back to Saved Payments' button. At the bottom, a blue button says 'Next: Place Order'.

3. Pay later threshold exceed for cart total and no pay later disabled product in cart, iFrame renders as shown below. A message is displayed to customer within iFrame signalling breach of pay later threshold. Customer cannot checkout using Limepay in this scenario unless cart total is adjusted within the stipulated range

The screenshot shows a payment interface with a header bar containing a "CREDIT" logo, the text "Card Payment or Payment Plan", and logos for VISA, Mastercard, and American Express. Below the header, a message states: "Split the cost over 4 payments on purchases of up to \$1200.00." At the bottom of the interface is a blue button labeled "Next: Place Order".

4. Basket contains pay later disabled product (rule B2 above) and basket total exceeds pay later threshold (rule B3 above), rule B2 takes precedence over B3 and customer iFrame behavior would be the same as of rule B3. Where no Limepay payment methods are offered for checkout. Customer must proceed with other payment methods for placing order

The screenshot shows a payment interface with a header bar containing a "CREDIT" logo. Below the header, there are input fields for card payment details: "*Card Number" (a text input field), "*Expiration Month" (a dropdown menu with "month" selected), "*Expiration Year" (a dropdown menu with "year" selected), and "*Security Code" (a text input field with an information icon). Below these fields is a checkbox labeled "Save Card to Account" which is checked. At the bottom of the interface is a blue button labeled "Next: Place Order".

7.2.7. Payment Method Description

Limepay display's a configurable description text '*Pay upfront or in instalments, using your credit or debit card*' to the top of the iFrame content once a customer has selected the Limepay payment

The screenshot shows a payment interface titled "Description Test on Dev". It features two payment options: "Pay \$94.99 today" (Pay now in full) and "Pay \$23.75 today" (Buy Now Pay Later). Below these is the "Payment source" section, which includes a "Credit/Debit Card" option with a Visa logo. The card number field is masked with "1234 1234 1234 1234". There are also fields for "MM / YY" and "CVC". At the bottom, a blue button says "Next: Place Order". A small disclaimer at the bottom of the form states: "This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#)."

method. See below

Merchant may decide to remove or amend the description text through payment methods configuration from Business Manager

The screenshot shows the "Limepay" configuration interface. It has a table with two columns: "Limepay" and "Card Payment or Payment Plan". The first row is "Limepay_instalment" with the value "Limepay Pay Later configuration". The second row is "PayPal" with the value "Pay Pal". Below the table is a section titled "Limepay Details". It contains the following fields: "Description: ©" with the value "Pay upfront or in instalments, using your credit or debit card." and a link to "HTML Editor"; "Image:" with an empty field; "Payment Processor:" with a dropdown menu showing "LIMEPAY <LIMEPAY>"; "Countries:" with a button "Edit"; and "Currencies:" with the value "(1) AUD" and a button "Edit".

7.2.8. Changing Billing Email / Phone

Limepay accepts customer's billing address details for rendering the checkout iFrame. Any change made to billing form fields customer email (for guest user) or billing phone number after checkout iFrame has been loaded and customer focusses out of the field, iFrame auto refreshes. It does so for Limepay checkout API to accept the updated email/phone value. Note OTP is sent to phone and mailbox, and this is the reason why iFrame has to refresh to send codes to the last entered customer details.

For checking out with pay later payment, customer email address will be auto populated within the iFrame, whereas customer will have to enter their billing phone number in E164 format (prefixed by + [country code]) onto the phone field within the iFrame. Limepay has a future enhancement in pipeline to auto populate the phone number in E164 onto the iFrame field rather than customer entering it manually as mentioned above.

7.2.9. Limepay Control Switch

Limepay provides a control switch to turn off Limepay payments for site at checkout and hiding product/cart widgets. This is based on the preference '*Limepay Enabled*', setting it as '*No*' hides all instances of Limepay widgets and billing payment method on checkout for the site.

Note, for effective display of Limepay widgets and billing payment methods make sure the following configurations are correct with respect to the storefront currency allowed for the site :

- Preference '*Limepay Enabled*' is set as '*Yes*'
- Main payment method '*Limepay*' enabled status is '*Yes*' i.e, Active
- Main payment method '*Limepay*' is configured with currency "*AUD*" and storefront currency matches with the same

8. Refunds & Backend Operations

8.1. Refunds

The cartridge provides the ability for merchants to trigger refunds through code. As SFCC does not offer refund functionality OOB, merchant to implement the following code wherever applicable to trigger refund

Use the following code hooks to trigger a refund

```
if (HookMgr.hasHook('limepay.payment.refund')) {  
    // Invokes Limepay refund hooks  
    refundResult = HookMgr.callHook('limepay.payment.refund', 'ProcessRefund', order, refundAmount);  
}
```

Function Argument	Data Type	Value
order	dw.order.Order	SFCC Order object
refundAmount	String	Refunding amount Please refer link for more details

8.2. Payment Flow Processes

It is important to know what backend processes takes place while placing a storefront order through Limepay. This knowledge gives merchant an idea of adding new customisations wherever required. The process begins all with rendering the billing payment form in iFrame. The iFrame is loaded when Limepay payment method at billing section is selected by the customer. At this moment all necessary billing details that the customer has entered is parsed by the Limepay Checkout API through `init()` and `render()` functions

File : int_limepay_sfra\cartridge\client\default\js\limepay.js

```
LimepayCheckout.init({
  publicKey: context.publicKey,
  email: limepayEmail,
  phone: formattedPhoneNo,
  customerFirstName: billingDetails.firstName,
  customerLastName: billingDetails.lastName,
  customerResidentialAddress: billingDetails.customerResidentialAddress,
  customerToken: limepayCustomerToken,
  hidePayLaterOption: context.hidePayLaterOption,
  hideFullPayOption: context.hideFullPayOption,
  paymentType: context.preselectedPaymentType == 'full' ? 'paycard' :
    'payplan',
  paymentToken: function (token) {
    savePaymentToken(token);
  }
});
LimepayCheckout.render({
  elementId: 'limepay-cont',
  currency: order.orderInfo.currency,
  amount: order.orderInfo.amount,
  paymentType: context.preselectedPaymentType == 'full' ? 'paycard' :
    'payplan',
  showPayNow: false,
  showPayPlanSubmit: false,
  checkoutCSSOverride: context.checkoutCSSOverride,
  primaryColor: limepayPrimaryColor
});
LimepayCheckout.errorHandler(function (err) {
  // Handle errors
});
LimepayCheckout.eventHandler(function (event) {
  $('body').trigger('limePayment:handleLimePayEvents',
  { event: event });
});
```

Once customer has filled in all the payment details within the iFrame and advances through all subsequent stages and clicks on the place order button, then the Limepay submit() API is invoked

```
LimepayCheckout.submit();
```

Upon invoking `submit()`, Limepay generates a payment token for the amount initialized in the `init()` call and on success returns to the callback function `paymentToken()` initialized under the `init()`. Here `savePaymentToken(token)`. The purpose of the callback is to save the generated token that is used later for placing order

```
LimepayCheckout.init({  
  .  
  .  
  .  
  paymentToken: function (token) {savePaymentToken(token);  
}  
});
```

NB: Changes to order total, billing phone and email needs after iFrame has been rendered and is in view to customer, the same changes has to be parsed again by the checkout API through init() and then iFrame has to be reloaded through render() function. This is because payment tokens are generated based on the order amount that is being declared inside the init(), and OTP has to be sent to the latest email/phone entered by the customer for pay later payment option. OOTB cart update scenario do currently invoke the init() and render() methods, however any merchant specific requirement has to follow the same.

Inside the callback function the generated payment token and E164 formatted phone number from customer billing is saved to basket custom attributes. Later on upon clicking the placing order button from order summary page the same data is copied to order object and then used for the Pay Order service API.

Next, during place order Limepay executes two service calls one after the other to complete a transaction, they are Create Order followed by Pay Order API (Refer section 2.3). Make sure during integration the quota limit related to HTTPClient services are not exceeded that would lead to an error during checkout.

3DS Initialization

File : int_limepay_sfra\cartridge\client\default\js\limepay.js

```
/**
 * Intiate the 3DS flow
 * @param {Object} threeDSDData - 3DS object for performing actions
 */
exports.initLimePay3DS = function (threeDSDData) {
    // Intialize 3DS flow, display action prompt
    if (window.LimepayCheckout && threeDSDData &&
        threeDSDData.paymentResult.paymentActionRequired) {
        LimepayCheckout.handlePaymentActionRequired(
            threeDSDData.paymentResult.paymentActionRequired, // from PayOrder
            HTTP 403 error response
            function () {
                $.ajax({
                    url: threeDSDData.threeDSURL,
                    type: 'POST',
                    success: function (data) {
                        if (!data) {
                            window.location.href = URLs.cartShow;
                        } else {
                            var paymentResult = data.paymentResult || {};

                            if (paymentResult.paymentActionRequired) {
                                initLimePay3DS(data.paymentResult);
                            }
                        }
                    }
                });
            }
        );
    }
}
```

```

        } else if (data.error || data.submitOrder) {
            // redirect customer to billing page with error
            var $orderForm = $('.submit-order');
            var $orderSubmitURL =
$orderForm.attr('action');
            $orderSubmitURL =
util.removeParamFromURL($orderSubmitURL, 'format');
            $orderSubmitURL =
util.appendParamsToUrl($orderSubmitURL, data);
            $orderForm.attr('action', $orderSubmitURL);
            window.submitOrder = true;

$orderForm.find('button[name="submit"]').click();
        }
    },
    error: function (err) {
        //redirect to error page
        window.location.href = URLs.cartShow;
    }
});
// action completed, reattempt PayOrder request
},
function (error) {
    window.location.href = URLs.cartShow;
}
);
}
};

```

9. Testing

Important, test with cache *'enabled'* for the site as product page and quick views are cached. If product pages are configured for toggle widget, widget rendering is not at all cached in order to reflect the customer specific toggle state. But when configured for textual widget, widget renders from the usual product content cache. Cart and checkout pages have no caching so widget or iFrame would always be respective to current configuration and customer basket state. When testing with cache enabled, and switching preference values for product widget behaviour *'Limepay Cart Widget Mode'*, requires cache to be cleared each time for rendering the expected widget behaviour.

9.1. Checkout with One Time Payment

Add suitable products to cart and proceed by entering shipping details

Customer Billing page

The screenshot displays the 'Customer Billing page' during the checkout process. The page is divided into several sections:

- Shipping Method:** Ground (7-10 Business Days) AS 5,99
- Payment Section:**
 - Billing Address:** Abdu Ravoof Street1 Street2 Otta QLD 12345. Below the address are links for [Update Address](#) and [Add New](#).
 - *Phone Number:** 9234567890.
 - Payment Options:** A section with a 'CREDIT' button and a 'Card Payment or Payment Plan' option, which includes logos for Visa, Mastercard, and American Express.
- Description Test on Dev:** A scrollable area containing two payment options:
 - Pay \$94.99 today:** Pay now in full (selected with a radio button).
 - Pay \$23.75 today:** Buy Now Pay Later (unselected with a radio button).
- Payment source:** A dropdown menu currently showing 'Credit/Debit Card' with Visa and Mastercard logos.
- Footer:** A blue button labeled 'Next: Place Order'.

At the top right, there is a small 'In Stock' indicator and a table showing the cart summary:

Each	Quantity	Total
AS 89,00	1	AS 89,00

Below the payment options, there is a small disclaimer: 'This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#)'.

Payment Form

Customer could use the one time payment for checkout as outlined in above section by entering details onto the respective form. The payment form viewed could be either one according to following scenarios (based on the group of configurations and customer basket state)

1. *'Limepay Payment Options'* set as *'multiple'*, basket has no pay later disabled products and cart total threshold is not exceeded. Customer has set the toggle towards one time payment option

The screenshot shows a payment form titled "Description Test on Dev". It features two payment options: "Pay \$94.99 today" (selected with a checked radio button) and "Pay \$23.75 today" (unselected). Below these is the "Payment source" section, which includes a "Credit/Debit Card" option with a dropdown arrow. The card details field shows "1234 1234 1234 1234". There are also fields for "MM / YY" and "CVC". At the bottom, a blue button labeled "Next: Place Order" is visible. A small disclaimer at the bottom states: "This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#)."

OR

2. *'Limepay Payment Options'* set as *'multiple'*, basket has pay later disabled products and cart total threshold is not exceeded

The screenshot shows a payment form titled "Description Test on Dev". It features two payment options: "Pay \$94.99 today" (unselected) and "Pay \$23.75 today" (selected with a checked radio button). Below these is the "Payment source" section, which includes a "Credit/Debit Card" option with a dropdown arrow. The card details field shows "1234 1234 1234 1234". There are also fields for "MM / YY" and "CVC". At the bottom, a blue button labeled "Next: Place Order" is visible. A small disclaimer at the bottom states: "This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#)."

OR

3. 'Limepay Payment Options' set as 'multiple', basket has no pay later disabled products and cart total threshold is exceeded

The screenshot shows a checkout page with a 'Description Test on Dev' header. Below the header, there are two payment options: 'Pay \$905.99 today' (Pay now in full) and 'Pay \$226.50 today' (Buy Now Pay Later with 3 future payments). The 'Pay \$226.50 today' option is selected. Below the payment options, there is a 'Contact Details' section with fields for 'Phone' (+61 9234567890) and 'Email' (abduravoof@gmail.com). At the bottom, there is a purple button labeled 'Verify contact details'.

Amount	Due Date
\$226.50	17 JUN
\$226.50	1 JUL
\$226.49	15 JUL

OR

4. 'Limepay Payment Options' set as 'multiple', basket has pay later disabled products and cart total threshold is exceeded

The screenshot shows a checkout page with a 'Description Test on Dev' header. Below the header, there are two payment options: 'Pay \$905.99 today' (Pay now in full) and 'Pay \$226.50 today' (Buy Now Pay Later with 3 future payments). The 'Pay \$226.50 today' option is selected. Below the payment options, there is a 'Contact Details' section with fields for 'Phone' (+61 9234567890) and 'Email' (abduravoof@gmail.com). At the bottom, there is a purple button labeled 'Verify contact details'.

Amount	Due Date
\$226.50	17 JUN
\$226.50	1 JUL
\$226.49	15 JUL

Enter the one time settlement card details. Proceed through 3DS page if applicable and click on place order button to proceed to the order summary page

Order Summary Page

Customer

[Edit](#)

Customer Information:

fiaz.raffi2@tryzens.com

Shipping

[Edit](#)

Shipping Address:

Poppy Salter
72 Peninsula Drive
KINCUMBER NSW 2251
(02) 9807 4342

Shipping Method:

Ground (7-10 Business Days)

A\$ 5.99

Payment

[Edit](#)

Billing Address:

Poppy Salter
72 Peninsula Drive
KINCUMBER NSW 2251
fiaz.raffi2@tryzens.com
(02) 9807 4342

Payment:

Card Payment or Payment Plan

Order Summary

Subtotal A\$ 95.99

Shipping A\$ 5.99

Sales Tax A\$ 4.86

Total A\$ 101.98

1 Items A\$ 95.99

Show Stopper Dot Print Skirt


Color: Black & Ivory
Size: 6
In Stock

Each	Quantity	Total
A\$ 129.00	1	A\$ 95.99

Place Order

Click the place order button on summary page, to complete the order

Order Confirmation Page



Thank You

Thank you for your order.

You will receive an email confirmation shortly at flaz.raffiq@tryzens.com

Save My Information

* Password

* Confirm Password

Create Account

Receipt

Order Number: 00000001
Order Date: 5/22/21

Shipping Address:
Poppy Satter
72 Peninsula Drive
KINCUMBER, NSW 2251
(02) 9807 4342


Shipping Method:
Ground (7-10 Business Days) **AS 5.99**

Billing Address:
Poppy Satter
72 Peninsula Drive
KINCUMBER, NSW 2251
flaz.raffiq@tryzens.com
(02) 9807 4342

Payment:
Card Payment or Payment Plan

1 Items **AS 95.99**

Show Stopper Dot Print Skirt



Color: Black & Ivory
Size: 6

Quantity	Total
1	AS 95.99

Subtotal AS 95.99

Shipping AS 5.99

Sales Tax AS 4.96

Total AS 101.98

Continue Shopping

9.2. Checkout with Pay Later Payment

Add suitable products to cart and proceed by entering shipping details

Customer Billing page

Shipping Method:
Ground (7-10 Business Days) **AS 5,99**

Payment

Billing Address
Abdu Ravoof Street1 Street2 Otta QLD 12345
[Update Address](#) [Add New](#)

*Phone Number ⓘ
9234567890

CREDIT

Card Payment or
Payment Plan

VISA MASTERCARD

Description Test on Dev

Pay \$94.99 today
Pay now in full


Pay \$23.75 today
Buy Now Pay Later

Payment source

Credit/Debit Card
VISA MASTERCARD

This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#)

Next: Place Order

 In Stock

Each	Quantity	Total
AS 89,00	1	AS 89,00

Payment Form

Customer could use the pay later payment for checkout as outlined in above section by entering details onto the respective form. The payment form viewed could be either one according to following scenarios (based on the group of configurations and customer basket state)

1. 'Limepay Payment Options' set as 'multiple', basket has no pay later disabled products and cart total threshold is not exceeded. Customer has set the toggle towards pay later payment option

Description Test on Dev

Pay \$94.99 today
Pay now in full

Pay \$23.75 today
Buy Now Pay Later

Payment source

Credit/Debit Card

1234 1234 1234 1234

MM / YY CVC

This payment will be processed by Limepay Pty Ltd. Limepay collect and use the information you provide to process this payment on behalf of Tryzens trading as Tryzens and comply with applicable laws. You can learn more by reading Limepay's [Privacy Policy](#) and the Tryzens trading as Tryzens and Limepay [Terms of Use](#).

Next: Place Order

OR

2. 'Limepay Payment Options' set as 'splitOnly', basket has no pay later disabled products and cart total threshold is not exceeded

The screenshot shows the Limepay payment interface. At the top, there's a 'CREDIT' button and a 'Card Payment or Payment Plan' section with Visa and Mastercard logos. Below this, a 'Description Test on Dev' is visible. The main payment options are: 'Pay \$905.99 today' (Pay now in full) and 'Pay \$226.50 today' (Buy Now Pay Later with 3 future payments). The 3-payment plan is detailed as follows:

Amount	Due Date
\$226.50	17 JUN
\$226.50	1 JUL
\$226.49	15 JUL

Below the payment plan, there's a 'Contact Details' section with fields for 'Phone' (+61 9234567890) and 'Email' (abduravoof@gmail.com). A disclaimer states: 'By continuing, you consent to your personal information being disclosed and used to help check and verify your identity. Limepay collect and use the information you provide to administer your payment plan on behalf of the merchant. It is a condition of the payment plan that you provide this information. You can check the information we hold about you at any time. You can learn more by reading our [Privacy Policy](#) and [Terms of Use](#).' At the bottom, there's a purple button labeled 'Verify contact details'.

Enter the pay later payment details. Proceed to subsequent OTP verification stage by clicking on the 'Review payment plan' button within the iFrame.

The screenshot shows the OTP verification stage. At the top, it says 'Pay \$905.99 today' (Pay now in full). Below this, a modal titled 'Verify your contact details' is displayed. The modal contains the text: 'We've sent codes to ***012 and abduravoof@gmail.com. Please enter them below.' There are two input fields: 'Mobile code' and 'Email code'. Below these fields is a link 'Resend codes'. At the bottom of the modal are two buttons: 'Cancel' and 'Verify'. Below the modal, there's a purple button labeled 'Verify contact details'.

Enter OTP received on billing email & phone number inbox. Then click on 'Confirm' button on iFrame and proceed to next stage

[← Back](#)

YOUR PAYMENT PLAN

Due Today: 25.14 [Change todays payment amount →](#)

3 fortnightly payments of 25.12, starting 3 Jul 2021 [Change →](#)

☐ I've read and agree to the [Payment Plan Terms](#) and consent to the collection, use and disclosure of my personal information in accordance with the Limepay [Privacy Policy](#)

Customer can adjust the payment plan in this stage, and finally check the terms and condition checkbox before clicking on the place order button to proceed to the order summary page

Order Summary Page

Customer [Edit](#)

Customer Information:
fiaz.raffi2@tryzens.com

Shipping [Edit](#)


Shipping Address:
Poppy Salter
72 Peninsula Drive
KINCUMBER NSW 2251
(02) 9807 4342
Shipping Method:
Ground (7-10 Business Days) **A\$ 5.99**

Payment [Edit](#)

Billing Address:
Poppy Salter
72 Peninsula Drive
KINCUMBER NSW 2251
fiaz.raffi2@tryzens.com
(02) 9807 4342
Payment:
Card Payment or Payment Plan

Order Summary

Subtotal A\$ 95.99
Shipping A\$ 5.99
Sales Tax A\$ 4.86
Total A\$ 101.98

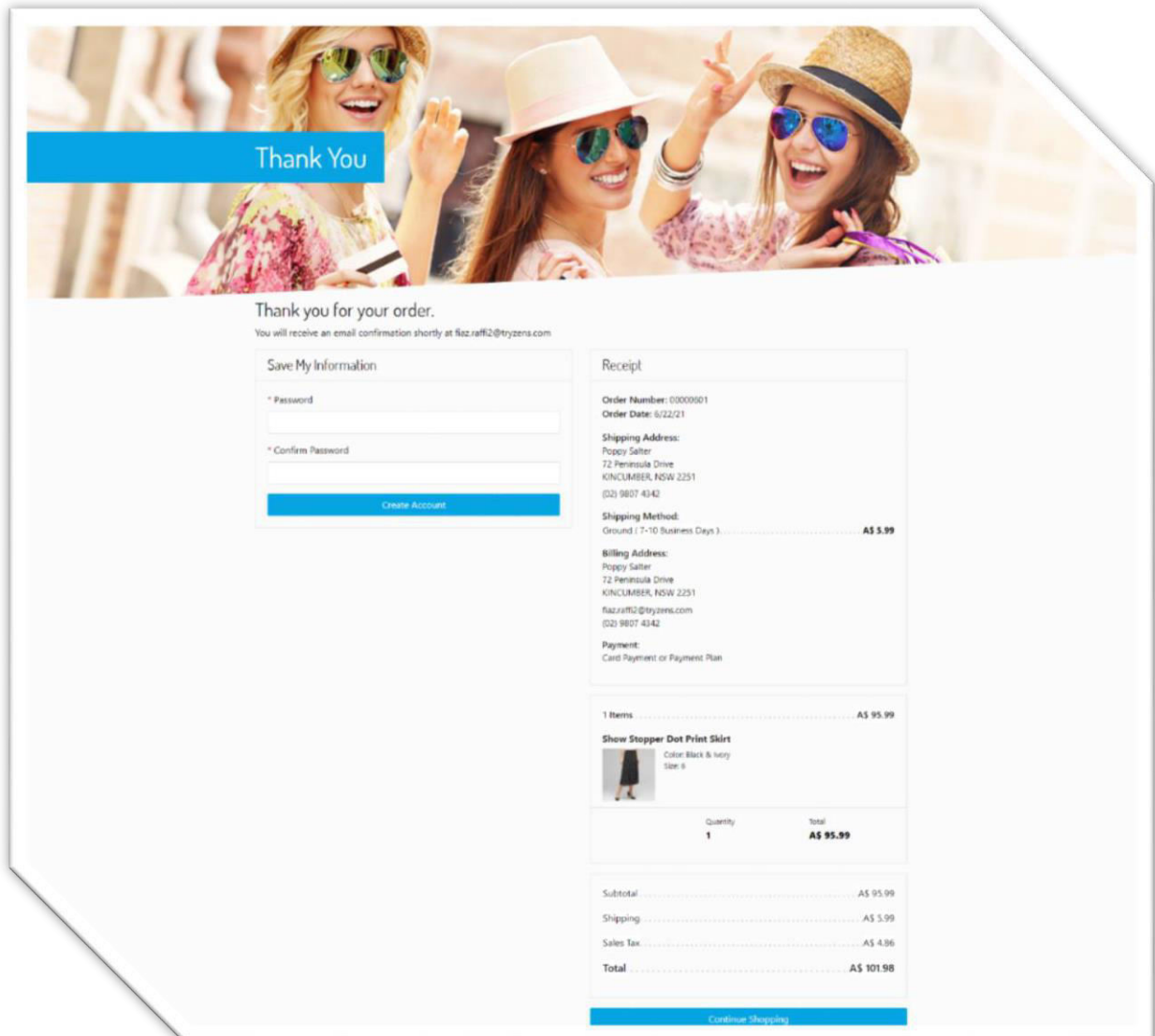
1 Items **A\$ 95.99**
Show Stopper Dot Print Skirt
 Color: Black & Ivory
Size: 6
In Stock

Each	Quantity	Total
A\$-129.00	1	A\$ 95.99

[Place Order](#)

Click the place order button on summary page, to complete the order

Order Confirmation Page



The image shows a web page for an order confirmation. At the top, there is a banner with three smiling women wearing hats and sunglasses. Below the banner, a blue bar contains the text "Thank You". Underneath, a message says "Thank you for your order." followed by "You will receive an email confirmation shortly at flaz.raffiq@tryzens.com". The page is divided into two main sections: "Save My Information" on the left and "Receipt" on the right. The "Save My Information" section has fields for "Password" and "Confirm Password", with a "Create Account" button below. The "Receipt" section contains order details: Order Number: 00000001, Order Date: 6/22/21, Shipping Address: Poppy Satter, 72 Peninsula Drive, KINCUMBER, NSW 2251, (02) 9807 4342, Shipping Method: Ground (7-10 Business Days) for A\$ 5.99, Billing Address: Poppy Satter, 72 Peninsula Drive, KINCUMBER, NSW 2251, flaz.raffiq@tryzens.com, (02) 9807 4342, and Payment: Card Payment or Payment Plan. Below this, it lists "1 Items" for A\$ 95.99, specifically a "Shew Stopper Dot Print Skirt" in black & ivory, size 6. A table shows the quantity of 1 and a total of A\$ 95.99. At the bottom, a summary shows Subtotal: A\$ 95.99, Shipping: A\$ 5.99, Sales Tax: A\$ 4.86, and a Total of A\$ 101.98. A "Continue Shopping" button is at the very bottom.

Thank You

Thank you for your order.
You will receive an email confirmation shortly at flaz.raffiq@tryzens.com

Save My Information

* Password

* Confirm Password

[Create Account](#)

Receipt

Order Number: 00000001
Order Date: 6/22/21

Shipping Address:
Poppy Satter
72 Peninsula Drive
KINCUMBER, NSW 2251
(02) 9807 4342

Shipping Method:
Ground (7-10 Business Days) **A\$ 5.99**

Billing Address:
Poppy Satter
72 Peninsula Drive
KINCUMBER, NSW 2251
flaz.raffiq@tryzens.com
(02) 9807 4342

Payment:
Card Payment or Payment Plan

1 Items **A\$ 95.99**

Shew Stopper Dot Print Skirt
Color: Black & Ivory
Size: 6

Quantity	Total
1	A\$ 95.99

Subtotal A\$ 95.99
Shipping A\$ 5.99
Sales Tax A\$ 4.86
Total **A\$ 101.98**

[Continue Shopping](#)

9.3. Test Cards

Refer [link](#), for Limepay test card details

Refer [link](#), for Limepay pay later plan test values

Please check with Limepay for 3DS and other test details

10. Operation, Maintenance

10.1. Availability

In case of problems with the connection to Limepay Payments, please contact Limepay support

Please supply as much information as possible (Merchant account, time, order number,). Also, check the log files.

10.2. Failover / Recovery Process

In case the Limepay service is unavailable, the user will not be able to checkout using Limepay payment methods and an error message would be displayed on the checkout pages.

The service availability can be tracked in SFCC using the Service Status.

10.3. Support

In case of problems with the integration, missing features, etc. please contact the Limepay support

11. Appendix

11.1. System Extensions

In addition to the changes mentioned above, the below system extensions were done as part of the cartridge.

11.1.1. Order

ID	Purpose
limepayOrderId	Stores the Limepay order id generated during payment authorization in Create Order API
limepayPaymentToken	Stores the payment token generated at billing used for completing an order with Pay Order API. Value copied from equivalent basket attribute during place order.
limepayFormattedPhoneNo	Stores the E164 format phone number obtained from billing details. This is sent in with Pay Order API to complete order and value is copied from equivalent basket attribute during place prder.
limepayRefundResponse	Stores array of response objects containing refund id and amount obtained after Create Refund API

11.1.2. PaymentTransaction

ID	Purpose
limepayPaymentResponse	Stores the response of Pay Order API

11.1.3. Basket

ID	Purpose
limepayPaymentToken	Stores the payment token generated at billing before proceeding to order summary page
limepayFormattedPhoneNo	Stores the E164 format phone number obtained from billing details before proceeding to the order summary page

11.1.4. Site Preference

ID
limepayEnabled
limepayClientPublicKey
limepayClientSecretKey
limepayPaymentOptions
limepayMultiOptionDefault
limepayPDPWidgetMode
limepayCartWidgetMode
limepayScriptAPIUrl
limepayCustomerServiceEmail
3DSEnabled
limePayMin3DSAmount
limepayPrimaryColor
applePayDomainAssociation

Refer section for 6.1. for their purpose

11.1.5. Category

ID	Purpose
----	---------

11.1.6. Product

ID	Purpose
disableLimepayPayLater	Stores pay later payment enable/disable status for product

11.1.7 Profile

ID	Purpose
limepayCustomerId	Stores limepay customer ID

11.2. Locating Code Changes

Developers can locate code changes done for the Limepay integration by searching for the following comments pattern

JS

// Limepay changes - START

Limepay code changes

// Limepay changes - END

Eg. int_limepay_sfra\cartridge\client\default\js\cart\cart.js

```

//
// Limepay changes - START
// Update Limepay widget
var cartWidget = $('#limepay-widget-cart');
var limepayCartData = data.limepayCartData;
if ($(cartWidget).find('.limepay-textual').length > 0) {
    // Textual widget price update
    $(cartWidget).find('.limepay-textual span.installment-value').html(limepayCartData.installment.toFixed(2));
} else if ($(cartWidget).find('.limepay-option').length > 0) {
    // Toggle widget price update
    $(cartWidget).find('.limepay-option .limepay-pay-onetime span.value').html(limepayCartData.amount.toFixed(2));
    $(cartWidget).find('.limepay-option .limepay-payin-four span.value').html(limepayCartData.installment.toFixed(2));
    $(cartWidget).find('.limepay-switch input[name=limepay-selection]').prop('checked', limepayCartData.togglePreselection == 'split');
}

// Show or hide widget based on response data
if (limepayCartData.userWidgetDisplayMode == 'hidden' && !$(cartWidget).hasClass('d-none')) {
    $(cartWidget).addClass('d-none');
} else if (limepayCartData.userWidgetDisplayMode != 'hidden' && $(cartWidget).hasClass('d-none')) {
    $(cartWidget).removeClass('d-none');
}
// Limepay changes - END

```

Find updated file in code repository under cartridge int_limepay_sfra:

int_limepay_sfra\cartridge\client\default\js\checkout\checkout.js

int_limepay_sfra\cartridge\client\default\js\checkout\billing.js

Controllers

link_limepay\cartridges\int_limepay_sfra\cartridge\controllers\CheckoutServices.js

ISML

<!-- Limepay changes - START -->

Limepay code changes

<!-- Limepay changes - END -->

Eg. int_limepay_sfra\cartridge\templates\default\checkout\checkout.isml

```
        <isinclude template="checkout/orderProductSummary" />
    </div>
</div>
<isinclude template="checkout/shipping/shippingAddressTemplate" />

<!-- Limepay changes - START -->
<isinclude template="limepay/limepayCheckoutInclude" />
<!-- Limepay changes - END -->
</isdecorate>
```

12. Known Issues

No known issues

13. Release History

Version	Date	Changes
21.1.0	22 June 2021	Initial Release
22.1.0	22 March 2022	2 nd Release
22.2.0	26 June 2022	Logged in users - upserting the Limepay customer details. Primary color & JS changes. Enabling and verification of Apple Pay. Change of Message and Detail field for error messages.
22.2.1	04 July 2022	Update Documentation