



Version 21.0.0 for Salesforce
Commerce Cloud - SFRA

Upgrade Guide - Express Checkout

Summary

This guide describes how to upgrade your existing Afterpay SFRA cartridge to add Express Checkout functionality.

Afterpay's Version 21.0.0 cartridge provides the following features:

- Provides Afterpay Express Checkout feature
- Supports Afterpay's v2.0 API

Where To Download The Cartridge

The cartridges and full documentation can be downloaded from:

<https://github.com/afterpay/afterpay-salesforce-commerce-cloud>

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Component Overview

Functional Overview

Afterpay provides a payment processing gateway. Afterpay's payment gateway connects your storefront to process transactions that allow customers to make purchases.

Use Cases

Allows checkout using the Afterpay payment method at the checkout screen.

Allows checkout using the Afterpay Express Checkout feature at the cart, minicart, and product details screen.

Limitations

The following Afterpay APIs are supported.

1. [Direct Capture Payment](#)
2. [Authorize Payment](#)
3. [Create Checkout](#)
4. [Get Checkout](#)
5. [Get Configuration](#)

The following Afterpay APIs are not supported or applicable

1. [Void Authorization](#) - Merchants will need to implement this in the event that orders can be cancelled from SFCC.
2. [Capture Payment](#) - If using our deferred payment flow the capture payment call will typically happen from an Order Management System
3. [Update Shipping Courier](#) - this will typically be implemented in the Order Management System.

Compatibility

Available since SFCC 16.4

Compatibility mode version this was tested against is SFRA 5.3.0

Privacy, Payment

This integration requires access to the following customer data elements:

- Billing Address
- Shipping Address
- Order Details
- Customer Profile.

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

New Features in v21.0.0

Express Checkout

Express Checkout is a new feature which will reduce the overall checkout steps on desktop and mobile, so that your shoppers can complete their orders quickly. It enables shoppers to checkout directly from the shopping cart or product page; and use their previously provided information to Afterpay - name, shipping address, phone number, and email, to complete their orders on your website.

After adding Afterpay's v21.0.0 cartridge, the following will be added to your site:

- “Checkout with Afterpay” buttons on the cart page
- “Buy Now with Afterpay” button on the product detail page .
(Optional but Highly Recommended)

When the shopper clicks on the checkout buttons, the following will occur:

- Express Checkout begins and Afterpay's popup form appears.
- Shoppers who have used Afterpay in the past and have enabled saved shipping and payment information will be defaulted with those options and will not have to reenter that information, but can change as desired.
- Price and shipping methods will be presented to the shopper (with integrated shipping option enabled).
- Upon clicking the confirmation button, the shopper will be redirected back to the merchant site for review or immediate order creation (BuyNow option enabled)

V2 API Support

The V2 API is the most recent update to Afterpay's API for ecommerce integrations. This API allows a merchant to choose between capturing funds at the time of order or authorizing funds and capturing at the time of shipment. See
<https://developers.afterpay.com/afterpay-online/docs/api-calls-and-payment-flows>

Upgrade Guide (for v20.0.0 cartridge users)

Integrating v21.0.0 Cartridge to an Existing v20.0.0 Install

1. Download the v21.0.0 cartridge

The current version of the Afterpay cartridge is available directly from Afterpay.

<https://github.com/afterpay/afterpay-salesforce-commerce-cloud>

The version hosted on the Salesforce Commerce Cloud Partner Marketplace is an older version and should not be used.

2. Build Client-Side Resources

This is required in order to build the client-side css and js files that are specific to Afterpay.

- Make sure package.json contains the correct reference to the location of the SFRA base cartridge:

```
"paths": {  
  "base": "../storefront-reference-architecture/cartridges/app_storefront_base/"  
},
```

- Run the following commands:

```
$ npm install  
$ npm run compile:js  
$ npm run compile:scss
```

3. Import the Cartridge

Import the cartridge using UX Studio. Alternatively, can also use npm run uploadCartridge, or VSCode Prophet plugin.

The import will overwrite the old Afterpay cartridge (in int_afterpay_sfra). Please back-up the previous contents by downloading with Business Manager or by using a different code deployment version to avoid overwriting existing files.

4. Import XML file for the site metadata

All import files can be found in the metadata/ folder within cartridge installation. To import all necessary Afterpay settings, log in to the Business Manager and navigate to Administration > Site Development > Import & Export. Now upload the SystemObjects.xml file using the upload button and, finally go back and use the import button to import the file. After a successful import, you will be able to see the additional attributes created by the new Afterpay cartridge.

[Administration](#) > [Site Development](#) > [Import & Export](#) > Step 1 - Select Import File

System Type Extension Import - Select File

Step 1 of 3. Next Step: Validate Import File

The list below shows all uploaded import files. Please select the file that you want to import.

Select	Name
<input checked="" type="radio"/>	SystemObjects.xml

Showing 1 - 1 of 1 items

5. Check for File Conflicts

Make sure the template, controller, and client JS and SCSS changes required for the cartridge do not interfere with changes you've made for your own site, or plugins that are running on your site.

The following templates are present in the Afterpay's SFRA Cartridge as well as the app_storefront_base cartridge. Thus, the template in Afterpay's cartridge will override the base template. Since Afterpay's cartridge was built to work with the

base cartridge, this should be fine. However, if you've made custom changes to these templates in the base cartridge, or have installed plugins which override these templates, you will need to merge the changes yourself. A 3-way visual merge tool such as Meld (<https://meldmerge.org/>) may be useful for making any necessary changes.

Afterpay's cartridge was developed using SFRA v5.3.0. In cases where templates, client JS, or CSS have been overridden, it may be useful to refer to that version to see the Afterpay-specific changes in the overridden file. In general, comments have been left in the files to make it easier to identify Afterpay-specific changes vs. base-SFRA content.

Template File	Location & Purpose for Change
cart.isml	cartridge/templates/default/cart/cart.isml Includes /js/afterpay.js and /css/afterpaystyle.js . Default error messaging on page will also display Afterpay-specific error messages.
cartTotals.isml	cartridge/templates/default/cart/cartTotals.isml Display Afterpay messaging under cart totals on the cart page.
paymentOptionsTab.s.isml	cartridge/templates/default/checkout/billing/paymentOptions/paymentOptionsTabs.isml Adds a payment tab for Afterpay.
paymentOptionsContent.isml	cartridge/templates/default/checkout/billing/paymentOptions/paymentOptionsContent.isml Include content displayed in the Afterpay payment tab.
paymentOptionsSummary.isml	cartridge/templates/default/checkout/billing/paymentOptions/paymentOptionsSummary.isml Include content displayed in the payment summary when Afterpay is the payment method.
checkout.isml	cartridge/templates/default/checkout/checkout.isml Make all default SFRA checkout buttons hideable with CSS. Add Afterpay checkout button. Add Afterpay Checkout Widget. Include Afterpay client-side JS and CSS.
addToCartButtonExtension.isml	cartridge/templates/default/product/components/addToCartButtonExtension.isml

	Add express checkout buttons on the PDP page.
setItems.isml	cartridge/templates/default/product/components/setItems.isml
bundleDetails.isml	cartridge/templates/default/product/bundleDetails.isml Add Afterpay messaging for bundles. Include Afterpay JS / CSS.
productDetails.isml	cartridge/templates/default/product/productDetails.isml Include Afterpay JS / CSS. Display Afterpay messaging on product details page.
productTile.isml	cartridge/templates/default/product/productTile.isml Display Afterpay messaging on product tile page.
setDetails.isml	cartridge/templates/default/product/setDetails.isml Include Afterpay JS/CSS
catLanding.isml	cartridge/templates/default/rendering/category/catLanding.isml Include Afterpay JS/CSS
searchResults.isml	cartridge/templates/default/search/searchResults.isml Include Afterpay JS/CSS

Similarly, if you've made customizations to the following JS and SCSS files, you may need to merge the Afterpay changes.

JS File	Location & Purpose for Change
productTile.js	cartridge/client/default/js/productTile.js Include Afterpay client-side JS

SCSS File	Location
homePage.scss	cartridge/client/default/scss/homePage.scss Adds CSS for Afterpay's checkout button. Specifically used by the minicart when opened on the store home page.

6. Upload Changes if Necessary

If you changed any files in the previous step, either in the Afterpay cartridge, or your store's cartridge, upload those changes to the store server.

7. Express Checkout Configuration

After installing the cartridge, the following new configuration options will be available in the Business Manager.

In the Business Manager, go to Merchant Tools > Site Preferences > Custom Preferences > Integration_Afterpay

Preference Name	Description	Default
apEnableExpressCheckout	Enables the Express Checkout feature.	Yes
apExpressCheckoutJS	URL for the Javascript snippet used to launch the Express Checkout popup window	https://portal.sandbox.afterpay.com/afterpay.js?merchant_key=demo
apEnableExpressCheckoutBuyNow	Enables the BuyNow mode. Skips review page on merchant checkout.	Yes
apExpressCheckoutShippingStrategy	Select either Integrated Shipping (Afterpay Checkout prompts for shipping method), or deferred (merchant site handles shipping method selection)	Integrated
apStorePickupDescription	prompt to use in Afterpay Express Checkout for in-store pickup orders	Available for next-day pickup
apEnableExpressCheckoutPdp	enable Express Checkout directly from the product detail page	No

By default, Express Checkout will be enabled, Integrated Shipping will be enabled, and the BuyNow option will be enabled. Make sure to change these settings to the ones you wish to use on your site.

Testing

Sandbox Customer Accounts

Please consult Afterpay's online documentation for testing the integration.

<https://developers.afterpay.com/afterpay-online/docs/test-environment>

Brief steps will be outlined below, but the online documentation will be more detailed and will be more up-to-date.

By default, the cartridge will point to a sandbox environment at Afterpay.

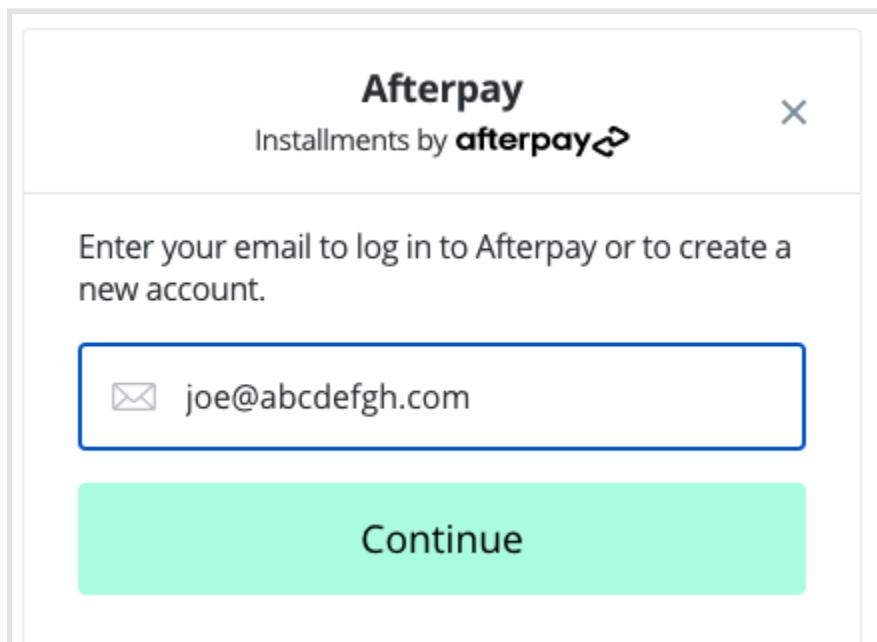
You can create pre-existing test customer (shopper) accounts in the Sandbox environment at <https://portal.sandbox.afterpay.com/us> or within your checkout redirect flow. Each Sandbox customer account requires a unique email address and unique phone number. Having a test customer will make it easier to test the checkout process.

Account Data	Unique	Description
First Name	No	A first name. Do not use 'null'
Last Name	No	A last name. Do not use 'null'
Email Address	Yes	Your email address
Phone Number	Yes	Unique 10-digit US phone #
Billing Address	No	A US address. Does not need to be unique.
SMS Verification Code	No	111111
Credit Card Number Expiry CCV	No	4111 1111 1111 1111 01/22 000

Checkout Flow

Once the cartridge is installed and integrated based on the instructions, please try to place an order on your sandbox to test the functionality. Even if you've enabled Express Checkout, place a non-Express-Checkout order by putting items in the cart and proceeding to the checkout page before placing an order using Afterpay.

- After you click on Place order then you should be redirected to Afterpay Payment Page. If you are not registered then you will be asked to create an account



Express Checkout Flow

If you've enabled Express Checkout, please try to place an order on your sandbox to test the functionality. Use the Express Checkout buttons on the cart page and verify that Afterpay's Express Checkout popup appears and proceed through the checkout.

Features and Usage

Afterpay Payment on Checkout

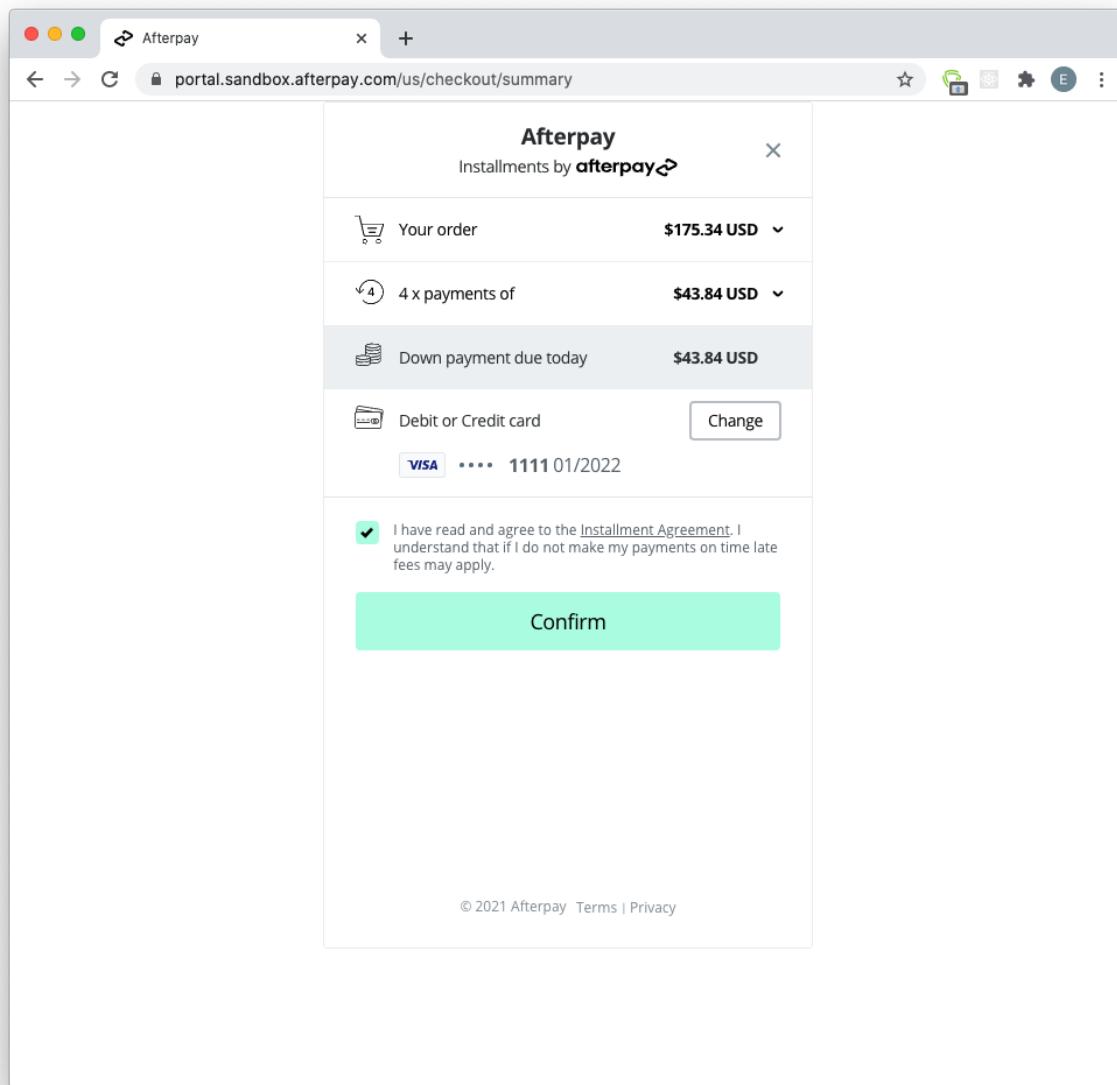
When the shopper selects the Afterpay payment method at checkout and clicks the **Place Order** button, they will be redirected to Afterpay servers to handle the payment. After the payment is complete, the shopper is redirected back to the confirmation or order review page on your store

The screenshot shows the SFCC checkout interface. At the top right, there's a "salesforce commerce cloud" logo. On the left, a large blue "Checkout" button is visible. The main content area is divided into several sections:

- Shipping:** Shows a shipping address for "Joe User" at "123 Main St, San Francisco CA 95040" and a shipping method of "Ground (7-10 Business Days)" costing "\$7.99".
- Payment:** Contains fields for "Billing Address" (set to "Joe User 123 Main St San Francisco CA 95040"), "Email" (placeholder "Email"), "Phone Number" (placeholder "4152222222"), and buttons for "Update Address" and "Add New". Below these are payment method options: "CREDIT" (selected), "Afterpay", and "afterpay" (highlighted in green).
- Order Summary:** A table showing the breakdown of costs:

Subtotal	\$159.00
Shipping	\$7.99
Sales Tax	\$8.35
Total	\$175.34
- Product Details:** A section for "1 Items" showing a "Mixed Media Dress" in "Chino Multi" color, size "4", and "In Stock". It includes a small image of the dress.
- Afterpay Summary:** A summary of the 4 interest-free payments:

1	\$43.84 Today
2	\$43.84 In 2 weeks
3	\$43.84 In 4 weeks
4	\$43.82 In 6 weeks
- Bottom Buttons:** "Down payment due today" (\$43.84) and a large blue "Next: Place Order" button.



Afterpay Product Messaging

Afterpay adds messaging on various pages in the store.

Messaging on Product Details Page:

New Arrivals ▾ Womens ▾ Mens ▾ Electronics ▾ Top Sellers



Womens / Clothing / Dresses

Mixed Media Dress.

Item No. 701644333591M ★★★★★

Select Color 

Select Size Quantity

Availability: In Stock

[Heart Wishlist](#) [Gift Registry](#)

Store Pickup: Select Store

\$159.00

or 4 payments of \$39.75 with  [Learn more](#)



Messaging on Product List Page:

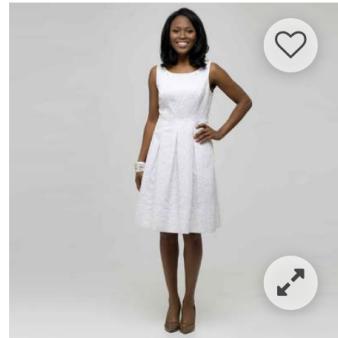


 Heart Compare

Mixed Media Dress.
\$159.00
or 4 payments of \$39.75 with  [Learn more](#)

 Heart Compare

Floral V-Neck Dress Tiered
\$128.00
or 4 payments of \$32.00 with  [Learn more](#)

 Heart Compare

White Dress with Jewel Neckline
\$148.00
or 4 payments of \$37.00 with  [Learn more](#)

Messaging on Cart Page:

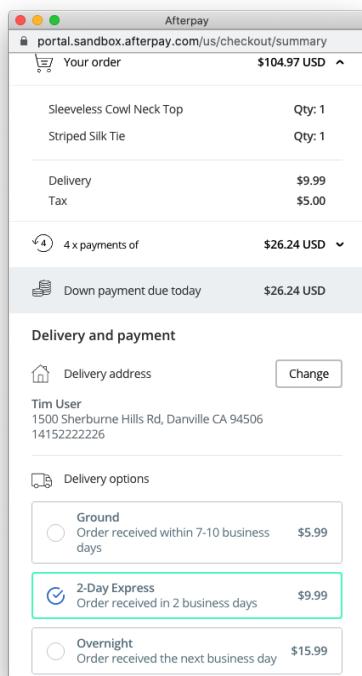
The screenshot shows a cart page with one item: a "Mixed Media Dress" priced at \$159.00. The page includes fields for entering a promo code, selecting shipping (Ground, 7-10 business days), and calculating taxes. A large blue "Checkout" button is at the bottom. The "Checkout with afterpay" button is present but not highlighted.

Express Checkout

Checkout from Cart Page

When the Express Checkout feature is enabled, new buttons will appear on the cart page and the mini cart page.

The screenshot shows the same cart page as above, but with the "Checkout with afterpay" button highlighted with a red border. This indicates that Express Checkout is active, making it easier for users to proceed directly to payment.



A screenshot of a web browser showing a commerce website. The URL is "zzgn-001.sandbox.us01.dx.commercecloud.salesforce.com/s/RefArch/home?lang=en_US". The page features a "Summer Style" banner with a woman's face. The navigation menu includes "New Arrivals", "Womens", "Mens", "Electronics", and "Top Sellers".

The right side of the screen shows a "Your shopping cart" section. It contains a single item: "Mixed Media Dress" (Color: Chino Multi, Size: 8, In Stock). The item details are:

Each	Quantity	Total
\$159.00	1	\$159.00

The "Estimated Total" is \$159.00. Below the cart, there are "Checkout" and "Checkout with afterpay" buttons. The "Checkout with afterpay" button is highlighted with a red box.

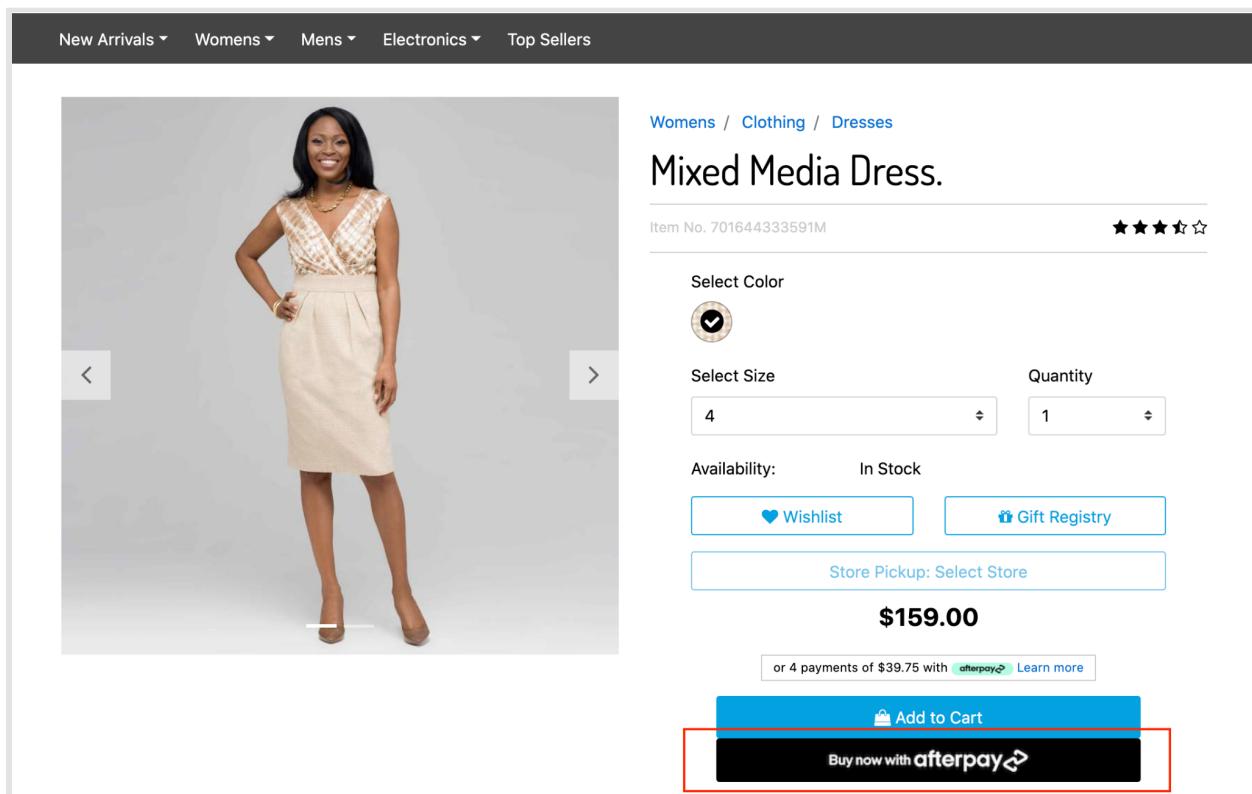
The bottom of the page shows product thumbnails for sunglasses and a close-up of lips.

The URL at the bottom of the page is "https://zzgn-001.sandbox.us01.dx.commercecloud.salesforce.com/s/RefArch/cart?lang=en_US".

When the shopper presses either of these buttons, it will launch Afterpay Express Checkout. A popup window will appear and depending on whether the shopper has preset default checkout settings with Afterpay, they will be prompted for payment information and a shipping address. Assuming the **integrated shipping** option has been selected by the merchant, Afterpay will call a webservice, in the background, on the merchant store to get available shipping options and pricing, and display that to the shopper in the same popup window. If the BuyNow option has been selected by the merchant, the shopper can simply click “Buy Now” and will be redirected back to the merchant site, where an order will be immediately created and payment auth or capture performed (see [API Docs for Payment Flows](#)).

Checkout From Product Details Page

When the apEnableExpressCheckoutPdp setting is enabled, the product details page will display a “Buy now with Afterpay” button, whenever the item is eligible to be added to the cart and when the item is below the maximum threshold amount for Afterpay (typically \$2000 USD).



The screenshot shows a product details page for a "Mixed Media Dress". The top navigation bar includes "New Arrivals", "Womens", "Mens", "Electronics", and "Top Sellers". The main content area features a large image of a woman wearing the dress, with navigation arrows on the sides. To the right of the image, the product title "Mixed Media Dress." is displayed, along with the item number "Item No. 701644333591M" and a five-star rating. Below this, there are dropdown menus for "Select Color" (with "Black" selected) and "Select Size" (with "4" selected). The "Quantity" is set to "1". Underneath, the "Availability" is listed as "In Stock". There are buttons for "Wishlist" and "Gift Registry". A "Store Pickup: Select Store" button is also present. The price is listed as "\$159.00". At the bottom, there is a "Learn more" link for payment terms, followed by a "Add to Cart" button and a prominent "Buy now with afterpay" button, which is highlighted with a red border.

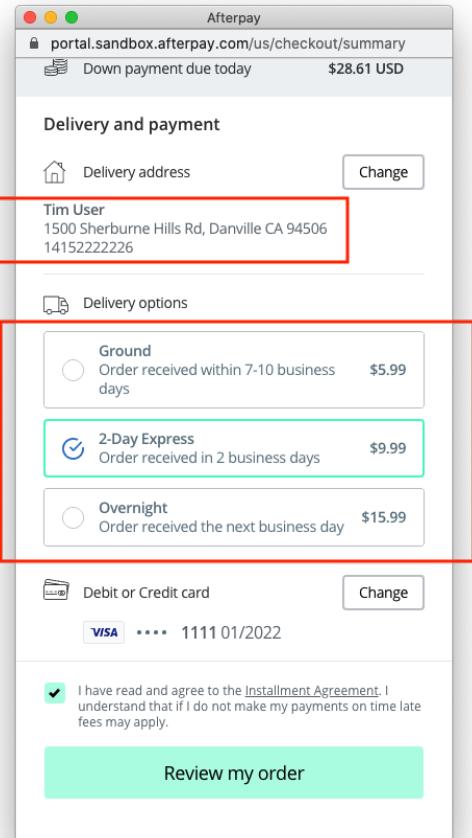
When this button is clicked, the current item and quantity will immediately be added to the cart, and Afterpay Express Checkout will start with all the cart contents.

Integrated Shipping

This feature improves the user experience by integrating your shipping options directly into the Afterpay Express checkout. It streamlines the checkout process and can be combined with the BuyNow option to create a one-stop checkout.

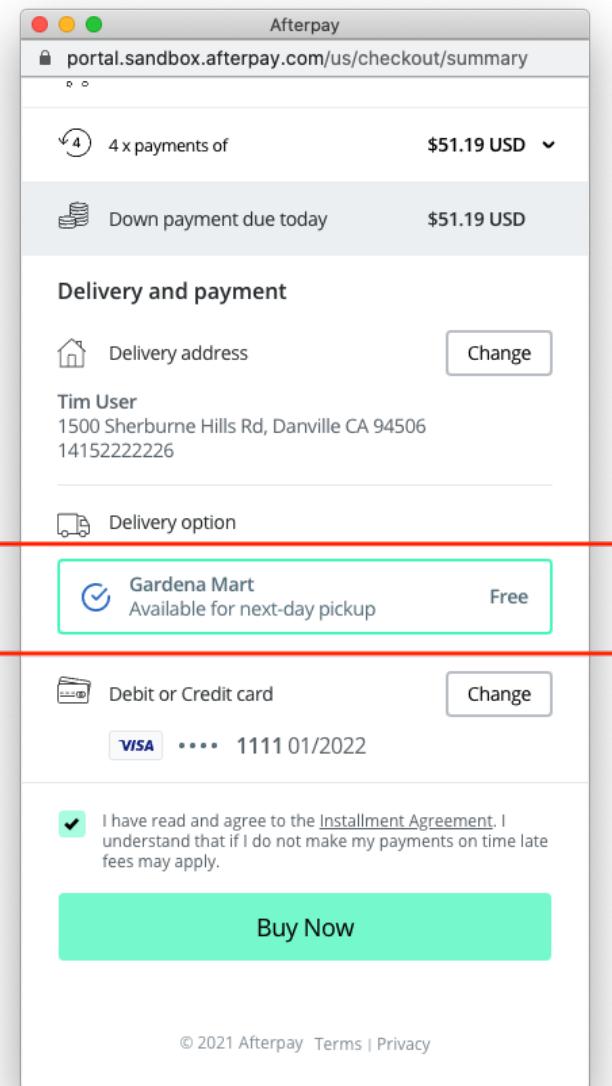
To enable Integrated Shipping, in **Business Manager**, make sure to set the custom preference **apExpressCheckoutShippingStrategy** to **integrated**.

During Afterpay Express Checkout, once the shopper's delivery address is known, and whenever the shopper changes their delivery address, the Afterpay popup will send a request to the merchant server to supply valid shipping options and costs for that address to the popup. The shopper makes the selection in the Afterpay popup, and the selected shipping option is passed back to the merchant site for order creation. This avoids the need for having the shopper make the shipping method selection on the merchant site.



In-Store Pickup and Integrated Shipping

In-Store pickup is supported out of the box by **Integrated Shipping**. All items in the cart must be picked up from the same store, and there can not be a mix of in-store pickup items and home delivery items in the cart. When those conditions are met, when the Afterpay checkout button is pressed (**from the cart and mini cart page only**), the store information is passed to Afterpay in the **Create Token** request and the shopper will be presented with an in-store pickup interface.



If the Afterpay checkout button is pressed from the product details page, the checkout will assume the order is for home delivery.

Deferred Shipping

In order to handle shipping method selection on your site instead of via Afterpay's checkout popup window, please enable the **Deferred Shipping** feature. This allows you to use the Afterpay Express Checkout to simplify the shopper's checkout process, and quickly get the shopper's name, email and shipping address and skip having to enter them in your checkout forms. After the shopper has gone through

the Afterpay checkout process, they will be redirected back to the Shipping/Order Review page on your site to proceed with checkout.

The image contains two side-by-side screenshots of an e-commerce checkout process. The left screenshot is from the Afterpay portal, showing a summary of a \$175.34 USD order with 4 estimated payments of \$43.84 USD. It includes a delivery address for 'Tim User' at 1500 Sherburne Hills Rd, Danville CA 94506, and a payment method of Debit or Credit card ending in 1111 01/2022. A checkbox for agreeing to the 'Installment Agreement and Payment Authorization' is checked. The right screenshot is from a Salesforce Commerce Cloud site, showing a 'Checkout' page. It displays a 'FREE 2-Day SHIPPING FOR ORDERS OVER \$300' offer. The 'Shipping' section lists four options: Ground (7-10 Business Days) at \$7.99, 2-Day Express (2 Business Days) at \$11.99, Overnight (Next Day) at \$19.99, and Store Pickup at \$0.00. The 'Order Summary' section shows a Subtotal of \$159.00, Shipping of \$7.99, Sales Tax of \$8.35, and a Total of \$175.34. The '1 Items' section shows a 'Mixed Media Dress' in Chino Multi, Size S, In Stock, with a price of \$159.00, quantity 1, and total \$159.00. A red box highlights the shipping and payment address fields on the Checkout page.

To enable Integrated Shipping, in Business Manager, make sure to set the custom preference **apExpressCheckoutShippingStrategy** to **integrated**.

BuyNow (Immediate capture) Feature

When the Express Checkout is complete, you may either capture payment immediately or continue the checkout on your site. If you are capturing immediately, set the **apEnableExpressCheckoutBuyNow** custom preference setting to **Yes** - this shows the user a "Buy Now" button at the end of their Afterpay checkout. Upon clicking, control is returned to your site for payment capture, and an order summary will be displayed.

The image shows two side-by-side screenshots. On the left is a Mac OS X window titled 'Afterpay' showing the 'portals.sandbox.afterpay.com/us/checkout/summary' page. It displays delivery information for 'Tim User' at '1500 Sherburne Hills Rd, Danville CA 94506' and three shipping options: 'Ground' (\$5.99), '2-Day Express' (\$9.99, selected), and 'Overnight' (\$15.99). Below these are payment options for a VISA card ending in '1111 01/2022'. A checkbox for an 'Installment Agreement' is checked, and a 'Buy Now' button is visible. At the bottom is a copyright notice: '© 2021 Afterpay Terms | Privacy'. On the right is a web browser window titled 'Sites-RefArch-Site | Salesforce' showing the 'commerce cloud' homepage with a 'Thank You' message, a search bar, and navigation links for New Arrivals, Womens, Mens, Electronics, and Top Sellers. The main content area features a photo of three women shopping and a message: 'Thank you for your order. You will receive an email confirmation shortly at tim@abcdef.com'. To the right of the message are sections for 'Save My Information' (with fields for Password and Confirm Password) and a 'Receipt' (listing Order Number: 00005504, Order Date: 4/18/21, Shipping Address: Tim User, 1500 Sherburne Hills Rd, Danville, CA 94506, 4152222226, Shipping Method: 2-Day Express (2 Business Days), \$11.99, Billing Address: Tim User, 1500 Sherburne Hills Rd, Danville, CA 94506, tim@abcdef.com, 4152222226, Payment: AFTERPAY_PBI, and a total of 1 Item(s) \$159.00).

Note: The BuyNow feature only applies to the Integrated Shipping option. For Deferred Shipping control needs to return to your site for shipping method selection, so a BuyNow feature would not make sense.

Afterpay Widget

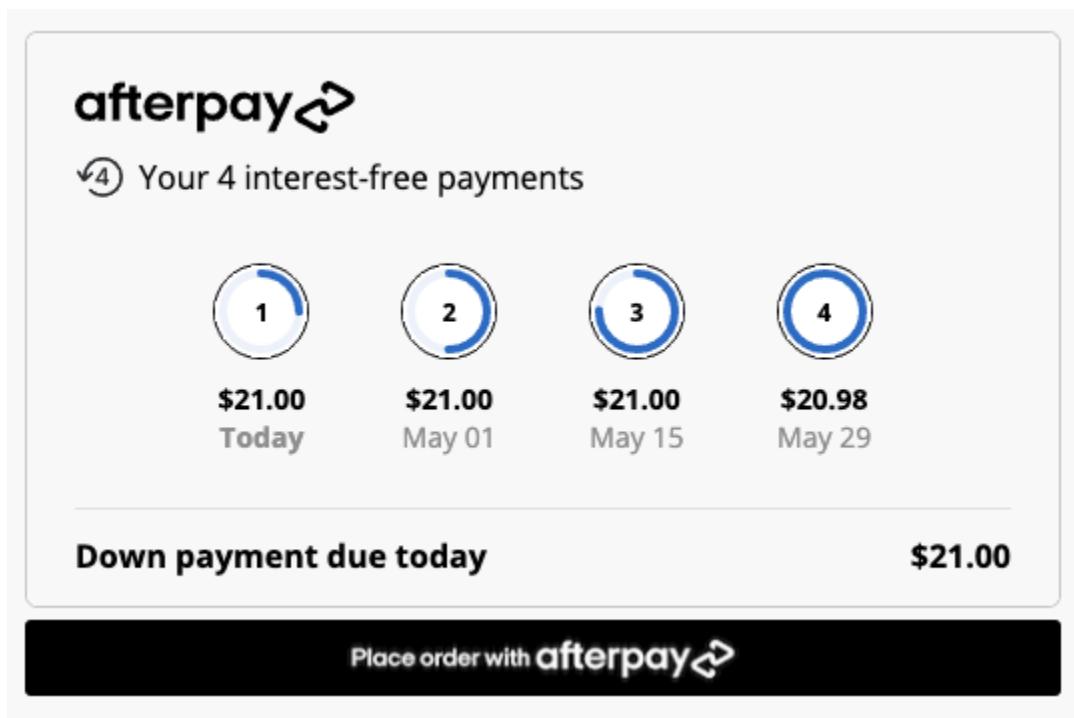
The Afterpay Widget is not a new feature in and of itself, but is an essential component that needs to be placed on your site if the order value is going to change after the Afterpay Express checkout has finished. This will be the case unless the **Integrated Shipping** and **BuyNow** features are enabled.

It serves several purposes:

1. To ensure the user has seen and agreed to an accurate payment schedule.

2. To verify that the final amount captured matches what the user has seen.
3. To provide information to the merchant such as the first payment amount for display purposes.
4. To inform the merchant of any barriers to purchase, for instance the user having gone over their payment limit with Afterpay.

The Afterpay Widget will be displayed on the final checkout summary screen (for deferred shipping):



It will also be displayed on the billing screen if the shopper has already been through the Afterpay checkout process and are now back on your site to complete the checkout (see Express Checkout Finalization Flow below). It is only displayed when Afterpay is the active payment instrument for the cart.

The **Place order with Afterpay** button will always be placed below the Afterpay Widget to ensure that the shopper has seen the widget before placing the order.

Express Checkout Finalization Flow (ECFF)

Unless you are using the **Integrated Shipping** feature with the **BuyNow** option, the shopper will be redirected back to your site after the Afterpay checkout. During this

phase, in SFRA, the shopper can still make arbitrary changes to their cart (e.g. add/remove items, apply coupons and gift certificates, change shipping address and methods, etc) . However, Afterpay's link cartridge will remember (using session state) that the user is currently in the Express Checkout Finalization Flow. This will affect the behavior of the Afterpay checkout buttons:

- When the “Checkout with Afterpay” button is clicked, instead of redirecting to Afterpay to checkout again and generate a new token, the button will take the shopper to the cart summary page, where the Afterpay Widget will be displayed, along with the “Place Order with Afterpay” button.

Sites-RefArch-Site | Salesforce

FREE 2-Day SHIPPING FOR ORDERS OVER \$300

salesforce commerce cloud

Checkout

Need Help? Call 1-800-555-0199

Shipping	
Shipping Address: Tim User 1500 Sherburne Hills Rd Danville, CA 94506 4152222226	Edit
Shipping Method: Ground (7-10 Business Days) \$5.99	

Order Summary	
Subtotal.....	\$73.99
Shipping	\$5.99
Sales Tax.....	\$4.00
Total	\$83.98

Payment	
Billing Address: Tim User 1500 Sherburne Hills Rd Danville, CA 94506 tim@abcdef.com 4152222226	Edit
Payment: AFTERPAY_PBI	

1 Items \$73.99		
Pencil Skirt		
	Color: Cobalt Multi Size: 14 In Stock	
Each \$99.00	Quantity 1	Total \$73.99

afterpay

④ Your 4 interest-free payments

	\$21.00 Today		\$21.00 May 01		\$21.00 May 15		\$20.98 May 29
---	-------------------------	---	--------------------------	---	--------------------------	---	--------------------------

Down payment due today **\$21.00**

Place order with afterpay

- When the “Buy now with Afterpay” button is clicked on the product detail page, the product will be added to the cart and the shopper will be directed to the summary page as well. The default shipping method used in the rest of the order will be used for the newly added product as well. The Afterpay Widget will display the total order amount, and upon clicking the “Place Order with Afterpay” button, the order will be created and payment will be captured.

Exiting from Express Checkout Finalization Flow:

There are several conditions which will cause the shopper to exit from ECFF:

- If the user explicitly chooses another payment method on the billing page, and clicks submit, Afterpay will be removed as a payment method.
- If the user navigates to any page which normally contains an Afterpay Widget (the billing page and summary page), but does not have Afterpay set as a payment instrument for the cart, they will no longer be in ECFF.
- After the shopper clicks **Place Order with Afterpay**, regardless of whether the transaction was successful or not, they will no longer be in ECFF. The **Place Order with Afterpay** button will also fail if the user is not in “Express Checkout Finalization Flow”, but this should not happen unless the shopper opens multiple browser windows and clicks on the button in an old window when the session state has already changed.
- The user’s browser session expired

After exiting from the Express Checkout Finalization Flow, clicking on “Checkout with Afterpay”, or “Buy Now with Afterpay” buttons will start the Afterpay checkout process again.

Express Checkout Behavior

Order Fields

Orders created via Afterpay Express Checkout will look the same as non-Express Checkout orders, with the following exceptions:

- The Billing Address field will display the shipping address. Since Afterpay is handling the checkout, after the express checkout popup closes, the shipping address is returned from Afterpay and used to populate both the shipping address and billing address in the cart. Thus, when the order is created, it will

be the shipping address unless the shopper has specifically modified the billing address before finalizing the transaction.

- **Afterpay Express Checkout** - will be true for express checkout orders
- **Afterpay Express Checkout Capture Checksum** - this is a checksum generated by the Afterpay Widget, and indicates the total amount and payment schedule the shopper was shown before placing the order

Merchant Tools > Ordering > Orders > Order: 00005304(RefArch)

General Attributes Payment Notes History

Payment Information for Order '00005304'

Order Total:	\$175.34	
Amount Paid:	\$0.00	
Balance Due:	\$175.34	
Invoice Number:	00087001	
Payment Status:	Paid	
Payment Method:	AFTERPAY_PBI Processor: AFTERPAY_CREDIT Transaction: 100101439948 Amount: \$175.34	Billing Address: Tim User 1500 Sherburne Hills Rd Danville CA 94506 US
Afterpay Authorise Status: APPROVED Afterpay Express Checkout: true Afterpay Express Checkout Capture Checksum: a935075e36d9b00ad47265c0e296f1dfa64544d453843aa03c0ff1e2ad6dbfd5 Afterpay Initial Status: SUCCESS Afterpay Order ID: 100101439948 Afterpay Payment Mode: AUTHORISE Afterpay Token: 002.srah9p5i3m6piahq21seu9q6uqjkqbrv17ltb4trgg1qfsr		

[Print Invoice](#)

[<< Back to List](#)

Billing Page Address Changes During ECFF

On the Billing Page, if the billing address is changed right before the shopper clicks "Place order with Afterpay" (during ECFF), the changed data will be ignored since the form is not actually submitted to the server. This should be unimportant since Afterpay is handling the payment process and the billing address fields would typically be prepopulated with the shipping address.

salesforce commerce cloud

Checkout

Need Help? Call 1-800-555-0199

Order Summary	
Subtotal	\$159.00
Shipping	\$7.99
Sales Tax	\$8.35
Total	\$175.34

1 Items		
Mixed Media Dress. Color: Chino Multi Size: 8 In Stock	\$159.00	
Each \$159.00	Quantity 1	Total \$159.00

Payment

Billing Address

Joe User 123 Main St San Francisco CA 95040

*First Name Joe *Last Name User

*Address 1 123 Main St

Address 2

*Country United States *State California

*City San Francisco *ZIP Code 95040

Example: 12345

*Email testing12@gmail.com *Phone Number 4152222222

CREDIT Afterpay afterpay

Billing Address changes ignored when Place order with Afterpay button is clicked.

afterpay

4 Your 4 interest-free payments

\$43.84 Today	\$43.84 May 18	\$43.84 Jun 01	\$43.82 Jun 15
---------------	----------------	----------------	----------------

Down payment due today \$43.84

Place order with afterpay

Error Behavior

When there are payment-related errors, the shopper will be redirected back to the billing page and an error message will be displayed.

salesforce commerce cloud

Checkout

Payment attempt was not successful. A Payment has not been processed for this order

Shipping [Edit](#)

Shipping Address:
Joe User
123 Main St
San Francisco, CA 95040
4152222222

Shipping Method:
Ground (7-10 Business Days) \$7.99

Need Help? Call 1-800-555-0199

Order Summary

Subtotal	\$159.00
Shipping	\$7.99
Sales Tax	\$8.35
Total	\$175.34

1 Items \$159.00

Mixed Media Dress.

	Color: Chino Multi Size: 10 In Stock	
Each \$159.00	Quantity 1	Total \$159.00

Payment

Billing Address

Joe User 123 Main St San Francisco, CA 95040 [▼](#)

[Update Address](#) [Add New](#)

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

testing12@gmail.com 4152222222

CREDIT Afterpay afterpay

*Card Number

*Expiration Month [month](#) *Expiration Year [year](#)

*Security Code [i](#)

[Next: Place Order](#)

Note that if the shopper was in Express Checkout Finalization Flow, they will no longer be after a payment-related error.

When there is a payment-related error, an order will generally already have been created by SFCC. This can occur in the following scenarios:

- Capture was declined
- Shopper modified the cart in the short period between when SFCC created the order, and before the payment capture via Afterpay.
- The merchant site was unable to communicate with Afterpay's payment servers

The order will have a “Failed” status in these cases, and the payment status will be “Not Paid”.

Screenshot of the SFCC Order Details page for Order '00005505(RefArch)'. The page shows general order information, order status, shipping status, and a detailed shipment table.

General Tab (Active):

- Information:** Contains 2 line items to 1 shipping location. The total price is \$397.93.
- Date Received:** 4/18/21 5:45:22 am Etc/UTC
- Site:** RefArch
- Created By:** Customer
- Customer:** Tim User (unregistered customer)
- Customer No.:** n/a
- IP Address:** 73.233.186.163
- Email:** tim@abcdef.com
- Phone:** 415222226

Order Status: Failed **Confirmation Status:** Not Confirmed

Shipping Status: Not Shipped **Export Status:** Not Exported

Shipment:

Qty	Product ID	Name	Status	Manufacturer	Tax Rate	Unit Sales Price	Tax Basis	Item Total
1	701643406630M	Pencil Skirt	CANCELLED		5.00 %	\$73.99	\$73.99	\$73.99
1	883360524276M	Casual Spring Easy Jacket	CANCELLED		5.00 %	\$295.00	\$295.00	\$295.00

Shipment Shipping Cost: CANCELLED **Total Shipping Cost (001):** \$0.00

Shipping Total: \$0.00 **Tax Total:** \$18.95 **Total:** \$397.93

[Send Email](#) [Print Order](#)

[<< Back to List](#)

Merchant Tools > Ordering > Orders > Order: 00005505(RefArch)

General Attributes Payment Notes History

Payment Information for Order '00005505'

Order Total:	\$397.93
Amount Paid:	\$0.00
Balance Due:	\$397.93

Invoice Number:

Payment Status: Not Paid

Payment Method: AFTERPAY_PBI
Processor:
Transaction:
Amount: \$397.93
The payment processor is unknown. The payment data can't be displayed.
Afterpay Express Checkout: true
Afterpay Express Checkout Capture Checksum: abb2476956a487781c5fbef3ff89ac7e4e081ea3af8f22917866270191370a7
Afterpay Initial Status: SUCCESS
Afterpay Token: 002.g12gc1fe3dinkr07jpalpvimoueta8m84hfla47n43q21ol

Billing Address:
Tim User
1500 Sherburne Hills Rd
Danville CA 94506
US

[Print Invoice](#)

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ECFF Behavior

Because the shopper can make arbitrary changes to their billing address and shipping address during ECFF, occasionally the shipping and billing address on-file at Afterpay may not match the information created in the order. However, this should not matter since you (the merchant), will always have the correct shipping address, and Afterpay will always have the correct billing address.

Express Checkout Limitations

No Multiple Shipping Destinations Prior to Afterpay Express Checkout

Express Checkout will only work when all items in the cart are set for **Home Delivery** OR all items in the cart are set for **In-Store Pickup** from the same store. If neither of these are true, and the shopper clicks the “Checkout with Afterpay” button, an error message will appear indicating that Afterpay is unavailable for the current cart.

Afterpay Express Checkout unavailable for your cart (multiple destinations). Please proceed through normal checkout. X

New Arrivals ▾ Womens ▾ Mens ▾ Electronics ▾ Top Sellers

Your Cart

Continue Shopping 2 Items Need Help? Call 1-800-555-0199

Mixed Media Dress.  Color: Chino Multi Size: 8 In Stock Move to Wishlist	Each \$159.00	Quantity 1	Total \$159.00	X
Front Rise Straight Leg Pants  Color: Beige Size: 30 In Stock Move to Wishlist	Each \$175.00	Quantity 1	Total \$175.00	X

Picking up From:
Super Electronics
110 Smith St Providence, RI 02903
+1-401-312-6284

Enter Promo Code
 Submit

Shipping
Ground (7-10 Business Days)

Shipping cost \$7.99
Sales Tax \$17.10
Estimated Total \$359.09
or 4 payments of \$89.77 with  [Learn more](#)

Checkout **Checkout with afterpay**

The shopper can still pay with Afterpay using the standard checkout process (selecting Afterpay on the billing page), but will not be able to use express checkout features.

Even though the shopper will not be able to use Express Checkout in these instances, the exception is if they've already gone through the Afterpay Express Checkout, and are now in the ECFF on your site. They will be able to add items to cart, ship to multiple locations, and/or pick up from multiple stores. The order can still be created and payment captured once they click on the "Pay now with Afterpay" button. At this point, since Afterpay is only capturing payment, the shipping limitations no longer matter.

Billing Address is not Passed to Merchant

If a shopper uses Afterpay Express Checkout, the billing address is typically not passed back to your site from Afterpay. In non-BuyNow checkout flows, the billing address will instead be populated with the shipping address.

Other Limitations

- Currently, there is no support for a “Buy Now with Afterpay” from a wishlist page.
- Currently, there is no support for a “Buy Now with Afterpay” button on a product bundle page.
- For in-store pickup orders, Afterpay Express checkout does not support adding a message to the store. If finalization happens at the merchant site, the shopper could go back to the shipping screen and add the message.

Express Checkout Implementation Details

Overview

Particularly for sites that have made substantive changes to the base SFRA store, we've provided some details on how certain features were implemented. This would make it easier to understand how your site's customizations may potentially require some modifications to Afterpay's cartridge to work properly.

Checkout Button Behavior during ECFF

In the isml templates, buttons which behave differently during ECFF will have an `<isif condition="${isExpressCheckoutFinalize}">` to control the button behavior. In [**int_afterpay_sfra/cartridge/templates/default/cart/checkoutButtons.isml**](#), during ECFF, a button will be displayed that upon clicking, will run the "AfterpayExpress-ContinueFinalize" endpoint. This is an endpoint that will navigate to the cart summary page. When not in ECFF, the button has the `(id="afterpay-express-button")`, which has been set as the target for launching the Afterpay Express Checkout popup.

```
7  <iscomment>Start of Afterpay</iscomment>
8  <isset name="afterpayExpressCheckoutPage" value="cart" scope="page" />
9  <isinclude template="product/components/afterpayexpresscheckout" />
10 <isif condition="${dw.system.Site.current.preferences.custom.enableAfterpay
11   && dw.system.Site.current.preferences.custom.apEnableExpressCheckout}">
12   <div class="mb-sm-3">
13     <isif condition="${isExpressCheckoutFinalize}">
14       <a href="${URLUtils.url('AfterpayExpress-ContinueFinalize')}" class="afterpay-checkout-button btn b
15         &nbsp;
16       </a>
17     <iselse/>
18     <a id="afterpay-express-button" class="afterpay-checkout-button btn btn-block checkout-btn ${pdct.
19       &nbsp;
20     </a>
21   </isif>
22 </div>
23 </isif>
24 <iscomment>End of Afterpay</iscomment>
25
```

If your site is designed in such a way that ECFF wouldn't make sense and you'd prefer the user go through Express Checkout again whenever they click the "Checkout with Afterpay" or "Buy now with Afterpay" buttons, this is behavior that's easily changeable in the template.

Client-Side Javascript for Express Checkout

In order to support Express Checkout in the SFRA checkout flow, we run client-side JavaScript to determine when to hide/show the Express Checkout Widget and the Place Order with Afterpay buttons. Most of this logic is located in:

customCheckout.js

```
// Call handleStage when page is loaded/reloaded
handleStateChange();

let cm_elem = document.querySelector('#checkout-main');
// Call handleStage with new stage whenever we detect the stage change
// SFRA base changes attributes on #checkout-main to indicate stage of checkout flow changes
if (window.MutationObserver) {
    var observer = new MutationObserver(function(mutations) {
        for (let mutation of mutations) {
            if (mutation.type === 'attributes') {
                handleStateChange();
            }
        }
    });
    observer.observe(cm_elem, { attributes: true });
}
```

```
}
```

```
// Call handleStage with new stage whenever afterpay payment tab is pressed
let tablem = document.querySelector('.afterpay_pbi-tab');
if (window.MutationObserver) {
    var observer = new MutationObserver(function(mutations) {
        handleStateChange();
    });
    observer.observe(tablem, { attributes: true });
}
```

We use 2 MutationObservers that look for attribute changes on the '#checkout-main' - the attributes on this element change as the checkout progresses through the stages of shipping / payment / placeOrder / submitted, so we use that as well to determine if the stage changed. The other MutationObserver checks if the Afterpay payments tab has been clicked.

Individual elements then use the following css classes to indicate whether the element should be shown in a certain state.

```
.ap-checkout-ship - only shown during shipping stage
```

```
.ap-checkout-pay-tab-ecf - only shown during payment stage if Afterpay tab is active and shopper is in Express Checkout Finalization Flow
```

```
.ap-checkout-pay-tab-noecf - only shown during payment stage if Afterpay tab is active and shopper is NOT in Express Checkout Finalization Flow
```

```
.ap-checkout-pay-notab-ecf - only shown during payment stage if Afterpay tab is NOT active and shopper is in Express Checkout Finalization Flow
```

```
.ap-checkout-pay-notab-noecf - only shown during payment stage if Afterpay tab is NOT active and shopper is NOT in Express Checkout Finalization Flow
```

```
.ap-checkout-po-ecf - only shown during checkout stage during Express Checkout Finalization Flow
```

```
.ap-checkout-po-noecf - only shown during checkout stage if shopper is NOT in Express Checkout Finalization Flow
```

If you've customized the checkout UI for your site, please make sure there are no conflicts between this and your customizations.

Add To Cart from PDP Page

When the shopper clicks the Buy Now with Afterpay button on a PDP page, the item is added to the cart and the Express Checkout widget is displayed. In order to make this feature as flexible and easy to integrate as possible, the button acts as a normal Add to Cart button of the store, but has an additional onclick handler which starts the Express Checkout widget and waits 200ms before running the CreateToken controller endpoint on the server. The 200ms delay ensures that the item has been added to the basket.

In order to achieve this, we call initAfterpay and specify a commenceDelay value of 200.

In afterpay.js:

```
if ($('#afterpay-express-pdp-button').length > 0) {
    initAfterpay({pickupflag: "false", commenceDelay: 200, target:
    '#afterpay-express-pdp-button'});
}
```

This makes the Express Checkout widget wait 200ms before running the CreateToken controller route.

Operations / Maintenance

Data Storage

Some additional custom attributes are stored against system objects. The following table lists these attributes and their uses, other than Site Preferences (which are listed under section 3.3.2).

Object	Attribute	Type	Description
OrganizationPreferences	flowIPAddresses (flowIPAddresses)	Text	IP addresses
Order	Afterpay Payment Method (apIsAfterpayOrder)	Boolean	Flags the order as an Afterpay order
PaymentTransaction	Afterpay Token (aToken)	String	The token used to place order in Afterpay
PaymentTransaction	Afterpay Initial Status (apInitialStatus)	String	The pre-approval status first returned
PaymentTransaction	Afterpay Payment Mode (apPaymentMode)	String	The payment mode used PaymentTransaction
PaymentTransaction	Afterpay Direct Payment (apDirectPayment Status)	String	The status of Direct Payment, if this payment mode is used
PaymentTransaction	Afterpay Authorise Status (apAuthoriseStatus)	String	The status of Authorise, if this payment mode is used
PaymentTransaction	Afterpay Order ID (apPaymentD)	String	The Payment ID generated by Afterpay
PaymentTransaction	Afterpay Refund ID (apRefundID)	String	Refund ID
PaymentTransaction	Auth Expiry (apAuthExpiry)	String	The time the Afterpay Order Auth Expires
PaymentTransaction	Payment Event ID (apPaymentEventID)	String	The unique ID for the Afterpay Auth event

PaymentTransaction	Afterpay Express Checkout (apExpressCheckout)	Boolean	Flags the order as an express checkout order
PaymentTransaction	Afterpay Express Checkout Checksum (apExpressCheckoutChecksum)	String	Checksum from the Afterpay Widget displayed before the order was created.

Availability

If the Afterpay service is unavailable, the shopper will not be able to checkout using this payment method.

The service availability can be tracked in SFCC using **Administration > Operations > Service Status**.

Support

For support, please contact your Afterpay account contact.

Release History

Version	Date	Changes
21.1.0	30 Apr 2021	Express Checkout, V2 API
20.1.0	10 Jan 2020	No changes
18.3	07 May 2018	Controller version
18.3	03 Sep 2016	Initial release