

Fast Integration - SFRA

Version 1.0



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1. Summary

Accelerate customer checkouts, increase conversion and new customer acquisition. Enable one checkout experience anywhere on the internet.

Get Started

This Integration Guide helps you

- Enable one-click checkout and log in Salesforce Commerce Cloud(B2C).
- Reduce the time a shopper spends in checkout
- Increase conversion and revenue per visit

Required Products

Product Pre-Requisites

- Salesforce B2C Commerce Enterprise
- Fast Checkout
- Fast Cartridge for Salesforce Commerce Cloud

License Requirement

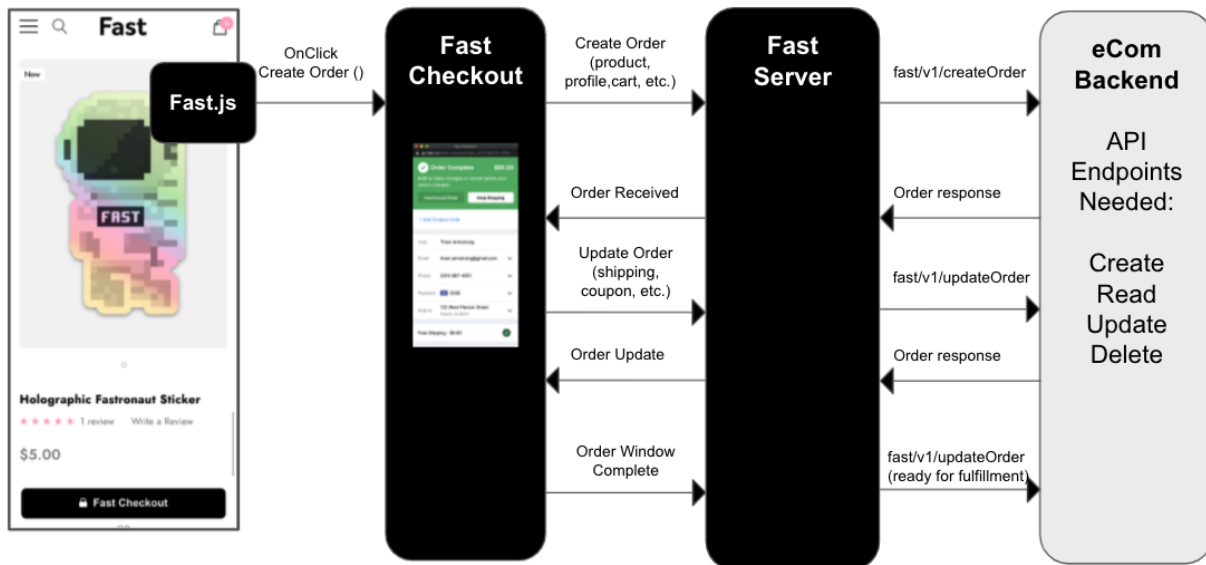
- Fast AF

Integration components

- Fast integration cartridge
- Supporting metadata package
- Modification of storefront code to place Fast Checkout button on PDP, Cart, and Minicart

2. Component Overview

Functional Overview



Supported Payment Types

- Fast accepts all major credit cards and charges a flat fee across the board. There is an additional 1% charge for international cards.

Use Cases

Enable one-click checkout on your Salesforce Commerce Cloud web storefronts with Fast Checkout network of shoppers so you can increase conversion and capitalize on intent.

Limitations, Constraints

- This integration supports one-click checkout directly on your web storefront
- Split shipments
- Split payment capture

Compatibility

- Reference integration built based on Storefront Reference Architecture(SFRA) version v6.0.0
- Integration built based on Open Commerce API(OCAP) version 21.9
- Integration was tested against compatibility mode 19.10

Privacy, Payment

- We will attribute orders only to known profiles based on email address
- Credit card data will not be processed or stored in SFCC

3. Implementation Guide

Setup of Business Manager

Install Cartridge:

- Add int_fast_sfra cartridge into UX Studio/VScode through file import and add the same into the cartridge path.

Add Cartridge Path:

- Login into BM and navigate to Administration > Sites > Manage Sites
- In the Setting tab, add int_fast_sfra in the cartridge path and Apply

Data Import :

Import Custom attribute:

In order to support Fast Checkout we will add custom attributes to the below Object using the metadata file "system-objecttype-extensions.xml":

- Basket
- Order
- OrderAddress
- Product
- ProductLineItem
- Site Preferences

Import Steps:

- In BM, Navigate to Administration > Site Development > Import & Export > Manage Import Files
- Find the "system-objecttype-extensions.xml" under "metadata/fast-meta-import/meta" and upload the file using Import & Export Files
- Navigate to Administration > Site Development > Import & Export
- Click import under Meta Data
 1. Select Import File: Select the uploaded "system-objecttype-extensions.xml" file and click Next
 2. Import File Validation: click refresh to validate the file
 3. Import: Click Import after validation is successful

Import Payment:

In order to support Fast Checkout, will add a new payment method via import

Import Steps:

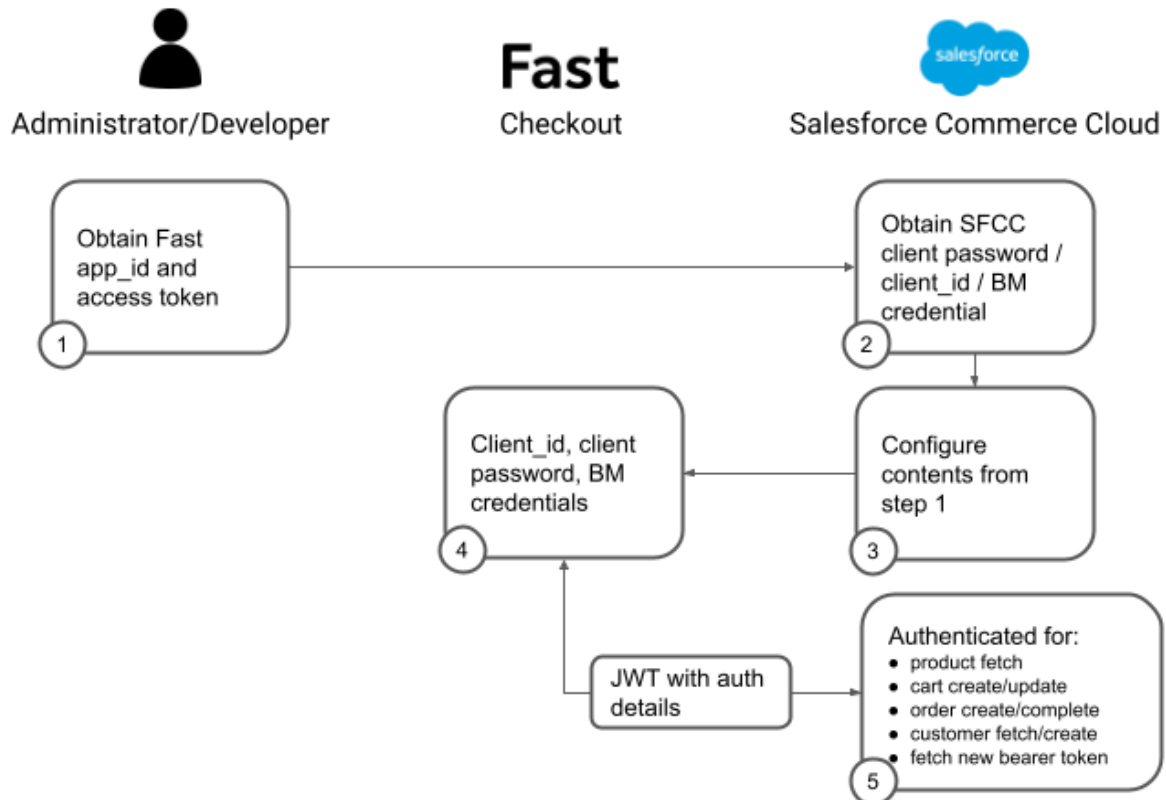
- In BM, Navigate to "Merchant Tools > Ordering > Import & Export"
- Upload the "metadata/sites/RefArch/payment-methods.xml" file through Import and Export Files
- "Merchant tools > metadata"

Configuration

Fast require below configurations steps

1. Create Account / Credentials
2. SFCC BM Configurations
3. Fast Configurations

Credentials Functional Workflow



Step #1: Create Account / Credentials

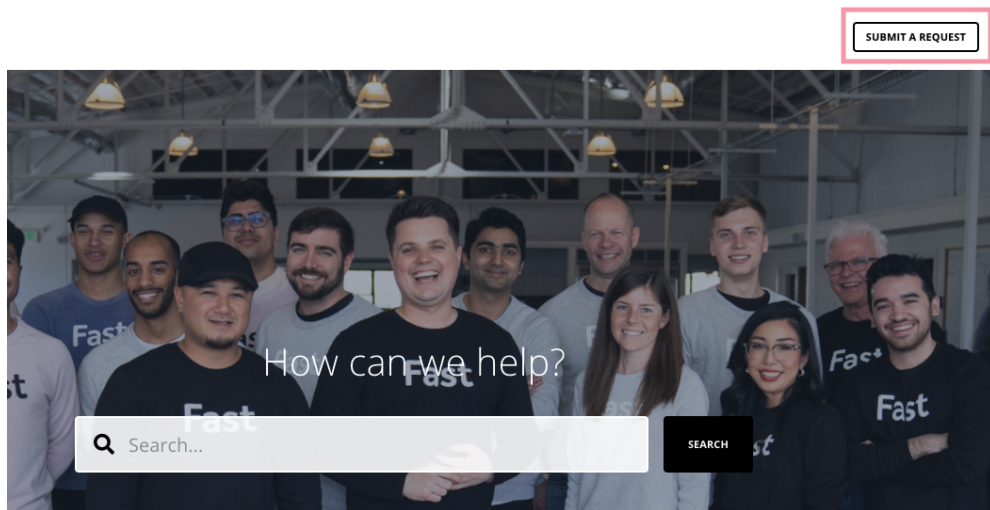
To establish the connection between Fast and SFCC, Fast needs both Fast ID and SFCC BM accounts, below steps will help for the same

- Fast Id and Access Token
- SFCC BM user
- SFCC Client

Fast Id and Access Token

- These Fast Credentials will help to connect the Fast from SFCC and Submit a Fast support ticket to create an App Id and Access token

- Navigate to: <https://help.fast.co/hc/en-us>
 - Click SUBMIT A REQUEST



- Enter your email address
- Subject:

Salesforce Commerce Cloud App Id and Token Request

- Description:

[company name]

Hi, I am working on an integration between Fast and Salesforce Commerce Cloud. I am requesting a Fast App Id and token in order to complete the necessary configurations.

Thank you,

[Your Name]

- Click SUBMIT

Submit a request

Please note, Fast is unable to provide status updates on orders placed using Fast Checkout, and cannot modify or cancel orders once they are placed. For these requests, please contact the seller you purchased from directly.

Your email address

Subject

Description

Please enter the details of your request. A member of our support staff will respond as soon as possible.

Attachments (optional)

SFCC BM user

- SFCC BM users will help to connect SFCC OCAPI from Fast
- In BM, Navigate to Administration > Organization > Users and Create a New BM user
- Prefer to have a common email to create the BM user instead of a specific email Id (example: fast-integration-user@[yourcompany].com)
- BM user Password will be reset every 90 days and updated password should update into BM configurations.

SFCC Client

- SFCC client Id will help control the access of OCAPI from outside and call the OCAPI from Fast
- In SFCC account Manager, Add new Client and obtain the Client ID and Password
- Community tool for checking OCAPI settings: <http://ocapi-settings-with-ease.herokuapp.com/>

Step #2: SFCC BM Configurations

SFCC BM requires below configurations

- Custom Preference
- Open Commerce API Settings

Custom Preference

In BM, Navigate to “Merchant Tools > Site Preferences > Custom Site Preference Groups” and open Fast Config.

- Fast JS URL
 - This config will help to connect Fast from your Storefront
 - Attribute type: String
 - Possible values are
 - Sandbox - <https://js.sandbox.fast.co/fast.js>
 - Production - <https://js.fast.co/fast.js>
- Is Fast Enabled
 - This config will help to Turn On / Off the Fast button at the site level
 - Attribute type: Boolean
- Fast AppId
 - This config will help to hold the Fast App Id
 - Attribute type: String
 - This value is obtained in Step #1 from Fast support
- Fast Theme
 - This config will help to configure the Fast button theme
 - Attribute type: String
 - Possible values are
 - None - for sites with light backgrounds(result: black button, white text)
 - Dark - for sites with dark backgrounds(result: white button, black text)

Open Commerce API Settings

- In BM, Navigate to “Administration > Site Development > Open Commerce API Settings”, select Shop Type and Global Context
- Add below setting under “Clients” after adding the SFCC client ID

```
{
  "_v": "18.7",
  "clients": [
    {
      "client_id": "<<client_id>>",
      "resources": [
        {
          "resource_id": "/baskets",
          "read_attributes": "(**)",
          "write_attributes": "(**)",
          "cache_time": 0,
          "methods": [
            "post"
          ]
        },
        {
          "resource_id": "/baskets/{basket_id}",
          "read_attributes": "(**)",
          "write_attributes": "(**)",
          "cache_time": 0,
          "methods": [
            "get",
            "delete",
            "patch"
          ]
        },
        {
          "resource_id": "/baskets/{basket_id}/items",
          "read_attributes": "(**)",
          "write_attributes": "(**)",
          "methods": [
            "post"
          ]
        },
        {
          "resource_id": "/baskets/{basket_id}/items/{item_id}",
          "read_attributes": "(**)",
          "write_attributes": "(**)",
          "methods": [
            "patch",
            "delete"
          ]
        },
        {
          "resource_id": "/baskets/{basket_id}/notes",
          "read_attributes": "(**)",

```

```

    "write_attributes": "(**)",
    "methods": [
        "get",
        "post"
    ]
},
{
    "resource_id": "/baskets/{basket_id}/customer",
    "read_attributes": "(**)",
    "write_attributes": "(**)",
    "methods": [
        "put"
    ]
},
{
    "resource_id": "/baskets/{basket_id}/shipments",
    "read_attributes": "(**)",
    "write_attributes": "(**)",
    "methods": [
        "post"
    ]
},
{
    "resource_id": "/baskets/{basket_id}/shipments/{shipment_id}",
    "read_attributes": "(**)",
    "write_attributes": "(**)",
    "methods": [
        "patch",
        "delete"
    ]
},
{
    "resource_id": "/baskets/{basket_id}/shipments/{shipment_id}/shipping_method",
    "read_attributes": "(**)",
    "write_attributes": "(**)",
    "methods": [
        "put"
    ]
},
{
    "resource_id": "/baskets/{basket_id}/shipments/{shipment_id}/shipping_address",
    "read_attributes": "(**)",
    "write_attributes": "(**)",
    "methods": [
        "put"
    ]
},
{
    "resource_id": "/baskets/{basket_id}/billing_address",
    "read_attributes": "(**)",
    "write_attributes": "(**)",
    "methods": [
        "put"
    ]
}

```

```

    ]
  },
  {
    "resource_id":"/baskets/{basket_id}/coupons",
    "read_attributes": "**",
    "write_attributes": "**",
    "methods":[
      "post"
    ]
  },
  {
    "resource_id":"/baskets/{basket_id}/coupons/{coupon_item_id}",
    "read_attributes": "**",
    "write_attributes": "**",
    "methods":[
      "delete"
    ]
  },
  {
    "resource_id":"/customers",
    "read_attributes": "**",
    "write_attributes": "**",
    "methods":[
      "post"
    ]
  },
  {
    "resource_id":"/customers/{customer_id}",
    "read_attributes": "**",
    "write_attributes": "**",
    "methods":[
      "get",
      "patch"
    ]
  },
  {
    "resource_id":"/orders",
    "read_attributes": "**",
    "write_attributes": "**",
    "methods":[
      "post"
    ]
  },
  {
    "resource_id":"/orders/{order_no}",
    "read_attributes": "**",
    "write_attributes": "**",
    "methods":[
      "get",
      "patch"
    ]
  },
  {

```

```

    "resource_id":"/products/{id}/images",
    "read_attributes": "(**)",
    "write_attributes": "(**)",
    "cache_time": 0,
    "methods": [
        "get"
    ]
  }
}
]
}
]
}
}

```

Role - OCAPI BM User

In BM, will create a new Role for the OCAPI BM User and use the below steps,

Step 1: In BM, Navigate to “Administration > Organization > Roles & Permissions” and click NEW

Step 2: In “Administration > Organization > Roles > New Access Role” Page, Add ID and Descriptions and Apply

Administration > Organization > Roles > New Access Role

General Users Business Manager Modules Functional Permissions WebDAV Permissions Locale Permissions Price Adjustment Limits Customer Service Center Permissions

New Role

This page allows you to create a new access role. Please type in an ID that uniquely identifies the access role. An error is displayed if no ID is provided or if an access role with such an ID already exists. Click **Apply** to create the access role. Click **Cancel** to abort.

ID: Fast OCAPI

Description: The OCAPI Role has the right to perform OCAPI tasks.

Apply Cancel

Step 3: Navigate to the “Functional Permissions” Tab and select the applicable SITE’s, select the below items and Apply

- Create_Order_On_Behalf_Of - Allows to create an order as an agent via the Shop API.
- Search_Orders - Allows to search for orders as an agent via the Shop API.
- Handle_External_Orders - Allows to handle external orders as an agent via the Shop API.

Administration > Organization > Roles > OCAPI - Functional Permissions

General Users Business Manager Modules **Functional Permissions** WebDAV Permissions Locale Permissions Price Adjustment Limits Customer Service Center Permissions

OCAPI - Functional Permissions

This list shows all functional permissions available in the system. Click **Select Context** to specify for which context you'd would like to modify permissions. Available context options are the organization, one site, or multiple sites. Select the checkboxes and use the **Update** button at the bottom of the page to grant certain functional permissions. Deselect the checkboxes and use the **Update** button to revoke specific functional permissions.

Selected Context: [RefArch](#), [RefArchGlobal](#)
[Select Context](#)

Permission	Description	
Login_On_Behalf	Allows administrators to log into the Storefront on behalf of a customer.	<input type="checkbox"/>
Replication_Run_For_Site	Allows to manage and start data replication processes for site-specific replication groups (i.e. search indexes).	<input type="checkbox"/>
Login_Agent	Allows to log in as an agent user to the Storefront. Restrict the access to only those Business Manager users that have the permission 'Login_Agent'.	<input type="checkbox"/>
Manage_Site_Catalog	Allows to manage the catalog and its assets in the selected site.	<input type="checkbox"/>
Manage_Site_Library	Allows to manage a library and its assets in the selected site.	<input type="checkbox"/>
Manage_Site_Pricelists	Allows to manage the price books assigned to the selected site.	<input type="checkbox"/>
Manage_Site_Inventory	Allows to manage the site inventory list and its inventory records in the selected site.	<input type="checkbox"/>
Adjust_Item_Price	Allows to add or delete a price adjustment at the item level.	<input type="checkbox"/>
Adjust_Shipping_Price	Allows to add or delete a price adjustment at the shipping level.	<input type="checkbox"/>
Adjust_Order_Price	Allows to add or delete a price adjustment at the order level.	<input type="checkbox"/>
Delete_Order_Note	Allows to delete a note at the order or basket level.	<input type="checkbox"/>
Delete_Order	Allows to delete an order.	<input type="checkbox"/>
Create_Order_On_Behalf_Of	Allows to create an order as an agent via the Shop API.	<input checked="" type="checkbox"/>
Search_Orders	Allows to search for orders as an agent via the Shop API.	<input checked="" type="checkbox"/>
Handle_External_Orders	Allows to handle external orders as an agent via the Shop API.	<input checked="" type="checkbox"/>
Access_Protected_Storefront	Allows access to a password-protected Storefront.	<input type="checkbox"/>

Step 4: Navigate to the “Locale Permissions” Tab, select applicable Locales or Select All and Apply

Step 5: Use the new Role to create the BM user for OCAPI access.

Note: a sample Role XML file is available in “/metadata/access-roles.xml” in Code

Step #3: Fast Configurations

- Navigate to the Fast account page and update the below settings
- Submit a Fast support ticket sharing the client id and password created in the previous step as well as your Business Manager integration user’s username and password

Custom Code

Customize the below pages to show the Fast checkout button. Include custom ISML files into site-specific Storefront Base or App Storefront Base Cartridge ISML files:

- PDP
- Cart
- Minicart

Add htmlHead

- Add given code into “cartridge/templates/default/common/layout/page.isml” after <isinclude template="/common/htmlHead" /> line

```
<isset name="isFastEnabled" value="{dw.system.Site.getCurrent().getCustomPreferenceValue('isFastEnabled')}"
scope="page" />
<isset name="fastJsUrl" value="{dw.system.Site.getCurrent().getCustomPreferenceValue('fastJsUrl')}"
scope="page" />
<isif condition="{isFastEnabled && fastJsUrl != null}">
  <script src="{fastJsUrl}"></script>
</isif>
```

Add for Product detail Page

- Add given code in cartridge/templates/default/product/productDetails.isml above the <isinclude template="product/components/addToCartProduct"> line

```
<div class="row">  
  <isinclude template="product/fast/fastCheckoutProduct" />  
</div>
```

Add for Cart Page

- Add given code in cartridge/templates/default/cart/cart.isml below the <isinclude template="cart/cartTotals" /> line

```
<isinclude template="common/components/fastCheckoutRenderCart" />
```

Add for Mini Cart

- Add given code in cartridge/templates/default/checkout/cart/miniCart.isml as first line in <div class="minicart-footer"> line

```
<isinclude template="common/components/fastCheckoutRenderCart" />
```

External Interfaces

No External Interfaces

Firewall Requirements

No specific firewall requirements

4. Testing

Checkout Flow Integration Tests

Positive Test Cases:

1. Create cart
2. Read cart
3. Update cart with new
 - a. shipment details
 - b. shipping option
 - c. billing details
 - d. coupon
 - e. line items
 - f. status
 - g. convert card to order
4. Delete cart

Negative Test Cases:

1. Create cart fails for invalid input
2. Read cart fails for invalid input
3. Read cart fails when order is missing
4. Update cart fails for invalid input (each field represents a separate test)
5. Update cart fails when order is missing
6. Delete cart fails for invalid input
7. Delete cart fails when order is missing

Seller -> Fast Integration Tests

Positive Test Cases:

1. Cancel order
2. Refund order
3. Send a business event
 - a. Order was fulfilled
 - b. Order was cleared, notify to collect payment

Negative Test Cases:

1. Cancel order fails for invalid input
2. Cancel order fails for cancelled/missing order
3. Refund order fails for invalid input
4. Refund order fails for already refunded/missing order
5. Send business event should fail for invalid event data

Business Manager Configuration Tests

1. Product level Fast button configuration
 - a. Disable Fast Checkout = -None-; result: button show on storefront
 - b. Disable Fast Checkout = False; result: button shown on storefront
 - c. Disable Fast Checkout = True; result: button hidden from storefront
2. Site level Fast button configuration
 - a. Is Fast Enabled = True; result: button is eligible to be displayed on storefront
 - b. Is Fast Enabled = False; result: button is ineligible to be displayed on storefront

5. Operations, Maintenance

Data Storage

Availability

Failover/Recovery Process

Contact Fast support(<https://help.fast.co/hc/en-us>) in the event Fast Checkout is down. If Fast Checkout is down there will be no interruption of your current checkout flow. You can globally disable Fast until the issue is resolved.

Support

<https://help.fast.co/hc/en-us>

6. User Guide

Roles, Responsibilities

<LIST RECURRING TASKS THAT NEED TO BE FULFILLED BY CUSTOMER, MERCHANT TO RUN THE INTEGRATION, E.G. MANUAL FEED OF CATALOG DATA INTO 3RD PARTY SERVICE, IF APPLICABLE>

Business Manager

Enable Fast Payment

Users can enable Fast payment in the below levels

- Site Level
- Product Level
- Cart / Mini Cart

Site Level

The fast checkout button can be enabled at the Site level by below steps

- In BM, Navigate to “Merchant Tools > Site Preferences > Custom Site Preference Groups” and open Fast Config
- Use the “Is Fast Enabled” attribute to enable and disable the Fast Button

Product Level

Users can Disable the Fast button on the Product level by below steps

- In BM, Navigate to “Merchant Tools > Products and Catalogs > Products “.
- Search and open a Product.
- In general tab, set Yes in Disable Fast Checkout to disable/hide the button on the Product page

The screenshot shows a configuration interface for a product. At the top, there is a header bar labeled 'Fast'. Below it, a label 'Disable Fast Checkout:' is followed by a dropdown menu. The dropdown menu is open, showing three options: '-None-' (which is selected and highlighted in blue), 'No', and 'Yes'. Below the dropdown, there is a button labeled '<< Back to List'.

Cart / Mini Cart:

If any of the products in Cart are disabled the Fast checkout, the Fast checkout button will not be visible on the Cart and Mini Cart page

Storefront Functionality

After successfully enable the Fast button in Site and Product level, the Fast button will be displayed on the below pages

- PDP
- Cart
- Mini Cart

PDP:

Purushothaman

Search (keywords,etc)

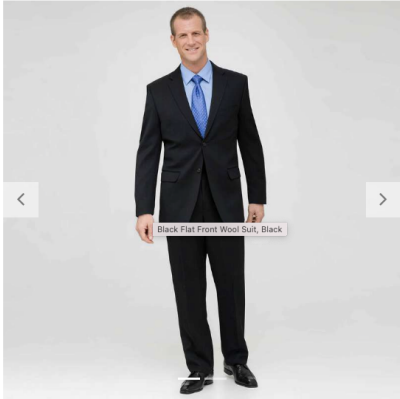
New Arrivals

Womens

Mens

Electronics

Top Sellers



Black Flat Front Wool Suit, Black

Mens / Clothing / Suits

Black Flat Front Wool Suit

Item No. 750518703107M ★★★★★

Select Color

✓

Select Size

36

Select Width

Short

Quantity

1

Availability: In Stock

Fast Checkout

OR

~~\$500.00~~ **\$299.99**

Add to Cart

Cart:


Your Cart

Continue Shopping

1 Items

Need Help? Call 1-800-555-0199

Black Flat Front Wool Suit



Color: Black
Size: 36
Width: Short
In Stock
[Edit](#)

Each

~~\$500.00~~
\$299.99

Quantity

1

Total

\$299.99

X

Enter Promo Code

Promo Code

Submit

Shipping

Ground (7-10 Business Days)

Shipping cost

\$9.99

Sales Tax

\$15.50

Estimated Total

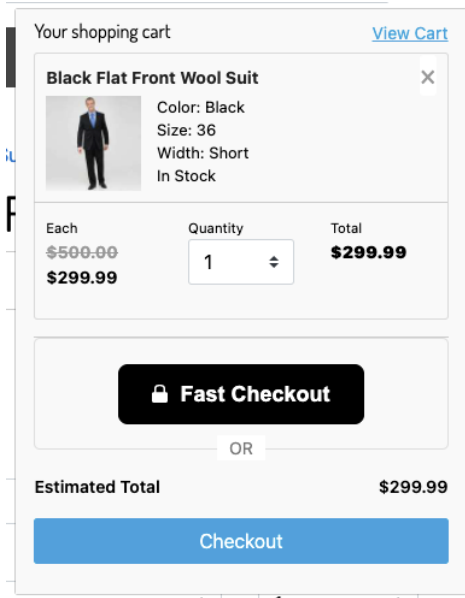
\$325.48

Fast Checkout

OR

Checkout

Mini Cart:



7. Known Issues

<LIST KNOWN ISSUES AND WORKAROUNDS>

8. Release History

<PLEASE USE THE FOLLOWING NAMING SCHEMA: THE FIRST NUMBER IS THE YEAR, THE SECOND NUMBER REFERS TO THE RELEASED VERSION OF THAT YEAR (FIRST NUMBER), A CHANGE TO THE 3RD DIGIT PROVIDES BUG FIXES WITHOUT INTRODUCING NEW FEATURES. BELOW IS AN EXAMPLE>

Version	Date	Changes
21.1.0	2021-09-30	Initial release