• A Commerce Cloud account and the Client ID and Client Secret of your store • Basic understanding of object-oriented programming or JavaScript An access token

Customers

Manage customers

**Products and Catalogs** 

Extend customer resources

Extend product resources

Summary of steps required Create a custom Flow for shipping providers

1. Create shipping provider flow 2. Create a name and cost fields **Extend orders Flow** 1. Create consignment id field 2. Create shipping provider relationship field that links to the orders flow. Create shipping providers

1. Create entries that will store your shipping providers. Extend a cart 1. Extend carts flow 2. Create shipping provider relationship field that will link to the carts flow Create an order 1. Get a cart

2. Add an item to a cart 3. Add a custom item that contains shipping charges to a cart 4. Checkout your cart 5. Create shipping provider relationship field that links to the orders flow 6. Update the order to add shipping details Step-by-step walkthrough 1. Create a custom Flow to store shipping providers. 2. Extend the existing resource carts, so that you can charge your customer for shipping. 3. Extend an existing resource orders, so it displays shipping provider details and the consignment number for each order

The walkthrough shows you how to: charged with a shipping fee. Create a custom Flow (shipping provider) We start with creating a custom Flow that will store our shipping providers. -H "Authorization:XXXX" \ -H "Content-Type:application/json" \ -d \$'{ "name": "shipping\_provider", "slug": "shipping\_provider",

curl -X POST https://api.moltin.com/v2/flows \ details accordingly.

**Create Fields for Shipping Provider Flow** curl -X POST https://api.moltin.com/v2/fields \ -d \$'{

The Fields will be returned when you call the object you created. Replace FLOW-ID with the ID that was generated for the Flow (see step 2). In this scenario we will create two fields: Name for storing each shipping providers name and Cost to store the shipping charges. Code example below shows you how to add the Name field. Repeat the request for the Cost field, changing the

Create a core Flow for orders Create a new core Flow that will extend your orders resource. The slug must match the plural name of the resource you're

extending, such as orders. (i) NOTE If you already have a Flow for your existing resource, skip this step. You need the ID of the orders Flow to continue. curl -X POST https://api.moltin.com/v2/flows \ -H "Authorization: XXXX" \

-d \$'{ Take note of the Flow ID that is returned. You need the ID to create a Flow field. Create a Consignment ID Field The Field will be returned when you call the object you extended. Replace FLOW-ID with the ID that was generated for the Flow. We will create the Consignment ID field that will store and display the consignment number for each order. This scenario assumes that every order can only have one shipping provider associated with it. To cater to this requirement, we will need to add a oneto-one relationship as part of the validation rules.

curl -X POST https://api.moltin.com/v2/fields \

-H "Content-Type: application/json" \

Now we need to create a relationship between orders and shipping provider Flows. To do this, we need to add a relationship type

Entries represent the actual content each Field will contain. Create an Entry for every Field added. In this example, we will add

Now it's time to create a relationship between the Shipping Provider Flow and the carts Flow, just like we did in step 6 for the

Create a Shipping Provider relationship Field

of a field\_type.

-d \$'{

curl -X POST https://api.moltin.com/v2/flows \ -H "Authorization: XXXX" \ -d \$'{ "name": "Shipping Provider", "slug": "shipping-provider", "description": "The shipping provider used to send the order",

Create shipping providers Entries

Create a Shipping Provider relationship

curl -X POST https://api.moltin.com/v2/flows \

3. Add a custom item (shipping charge) to the cart.

5. Update the order with the Consignment ID returned by the shipper.

Make sure you replace the :cart-reference with a value, such as 1234.

curl -X GET https://api.moltin.com/v2/carts/:cart-reference \

Here, you need the product id that you have previously added to your store.

curl -X POST https://api.moltin.com/v2/carts/:cart-reference/items \

4. Checkout the cart with the customer object.

-H "Authorization: Bearer XXXX"

6. Get the order with the shipping details.

-H "Authorization: XXXX" \

Entries to the Shipping Provider Flow Fields we created in step 3. These were Name and Cost, and this is exactly what we'll be adding a name of a shipping provider and a cost of shipping. curl -X POST https://api.moltin.com/v2/flows/:flows-slug/entries \ -H "Authorization: XXXX" \ -H "Content-Type: application/json" \ -d \$'{ Create a core Flow for carts Create a new core Flow that will extend your carts resource. Note that slug must match the plural name of the resource you're extending, i.e. carts. If you already have a Flow for your existing resource, skip this step. You need the ID of the carts Flow to continue. curl -X POST https://api.moltin.com/v2/flows \ -H "Authorization: XXXX" \ -d \$'{

orders Flow.

-d \$'{

"to": "shipping-provider" Create an order This scenario assumes you already have your store set up with at least products and payment details. The order we will create here will be unpaid, but you typically need to authorize and capture the payment. Here, we'll just show steps necessary to apply a shipping charge and to display shipping details on the order: 1. Get a cart. 2. Add an item to the cart (you need a product id).

Get a cart

Add an item to the cart

-H "Authorization: Bearer XXXX" \ -H "Content-Type: application/json" \ -d \$'{ Add a custom item to the cart A custom item allows you to add additional charges like a shipping fee. Here, we use one of the shipping provider Flow Entries we created in step 7. curl -X POST https://api.moltin.com/v2/carts/:cart-reference/items \ -H "Authorization: Bearer XXXX" \

-d \$'{

"amount": 720

Checkout the cart with the customer object

curl -X POST https://api.moltin.com/v2/carts/:cart-reference/checkout \

At this point the order is created. Make note of the order id sent in the response.

curl -X GET https://api.moltin.com/v2/orders/:order-id \

"id": "1190674f-7b4a-4403-bdfd-aaf790cca43a",

-H "Authorization: Bearer XXXX"

The response that you should get:

"type": "order",

"customer": {

"status": "incomplete",

"shipping": "unfulfilled",

"name": "Leslie Knope",

"first\_name": "Leslie",

"last\_name": "Knope",

"city": "Pawnee",

"postcode": "NE1 6UF", "county": "Indiana",

"with\_tax": {

"without\_tax": {

},

},

},

},

"tax": {

"timestamps": {

"relationships": {

"items": {

"shipping-provider": {

"data": {

"data": [

},

"shipping-provider": "Ralphio 720",

"consignment-id": "JRTH720666"

"amount": 20720,

"amount": 27020, "currency": "USD",

"amount": 0,

"currency": "USD", "formatted": "\$0.00"

"created\_at": "2019-05-17T10:20:20Z", "updated\_at": "2019-05-17T10:21:48Z"

"type": "shipping-provider",

"type": "item",

"type": "item",

"id": "0b53b418-98d2-4a15-ab73-495f2b765584"

"id": "15b5aa28-1350-45ec-8c1f-7f627e7aed85"

"id": "02bb7bbe-c8a2-4b72-a99a-fc20c43d4c9d"

"currency": "USD",

"formatted": "\$207.20"

"formatted": "\$207.20"

"email": "leslie.knope@gov.com"

"phone\_number": "(555) 555-1234",

"line\_2": "15 Carliol Square",

"company\_name": "Parks and Recreations Dept.",

"line\_1": "2nd Floor British India House",

"payment": "unpaid",

"shipping\_address": {

"data": {

},

Update the order with the Consignment ID

The customer object allows for anonymous checkout, i.e. you don't have to have any customer details previously added to your

Typically, once the order is sent for shipping, the shipping provider returns a consignment id by which you can track the shipment.

We have already create a field for that, so all we need to do at this point is to add this information to our order.

-H "Authorization: Bearer XXXX" \ -d \$'{

store.

curl -X PUT https://api.moltin.com/v2/orders/:order-id \ -H "Authorization: Bearer XXXX" \ -d \$'{ Get the order with shipping details To review shipping details, all you need to do is to send GET for the order you wish to view. The order displays the shipping details.

"country": "US", "instructions": "" }, "billing address": { "first\_name": "Leslie", "last\_name": "Knope", "company\_name": "Parks and Recreations Dept.", "line\_1": "2nd Floor British India House", "line\_2": "15 Carliol Square", "city": "Pawnee", "postcode": "NE1 6UF", "county": "Indiana", "country": "US" }, "links": {}, "meta": { "display\_price": {

**Further reading**  Custom Data (Flows) Carts Orders Checkout workflow • Custom Data (Flows) API Extend a resource with custom data • The Power of Flows (Blog post) Create and extend your own custom data (Video) ← PREVIOUS **Our Platform** Commerce Cloud

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providers

Extend a cart

provider)

Flow

Create an order

Step-by-step walkthrough

Summary of steps required

Extend orders Flow

Create shipping providers

Create a custom Flow (shipping

Create a core Flow for orders

Create Fields for Shipping Provider

Create a custom Flow for shipping

Product Demos V

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