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# Configuration



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## File Structure

The Processor Template provides various files that allows configuring your API, connect your product and customize your request processing logic. The following table represents the Processor file structure:

File	Description
processor.py	This is the main program; fetch the pending requests via Connect OpenAPI client
config.json	API endpoint and Connect API token specification
globals.py	Global constants configuration (e.g., Product ID and Activation Template)
utils.py	Supporting functionalities
cancel.py	Business logic to process the cancel subscription requests
change.py	Business logic to process the change subscription requests ( items or their quantity adjustments)
dynamic_validation.py	Validate the ordering parameters provided during order placement
purchase.py	Business logic to process the purchase subscription requests
report_usage.py	Helps upload the usage report files
resume.py	Business logic to process the resume subscription requests
suspend.py	Business logic to process the suspend subscription requests
tier_fulfilment.py	The business logic to process the tier request (e.g., reseller account creation)

## Running Tests

The Processor uses **unittest** for testing operations. Test your project and your configuration by executing the following command from your specified Processor directory:

```
$ python -m unittest discover tests
```



## Processor Example

The Processor Template repository also includes an example project that uses a Mock API Endpoint created in Apiary.io. Therefore, this allows emulating API requests from a Vendor system and preview provided use cases.

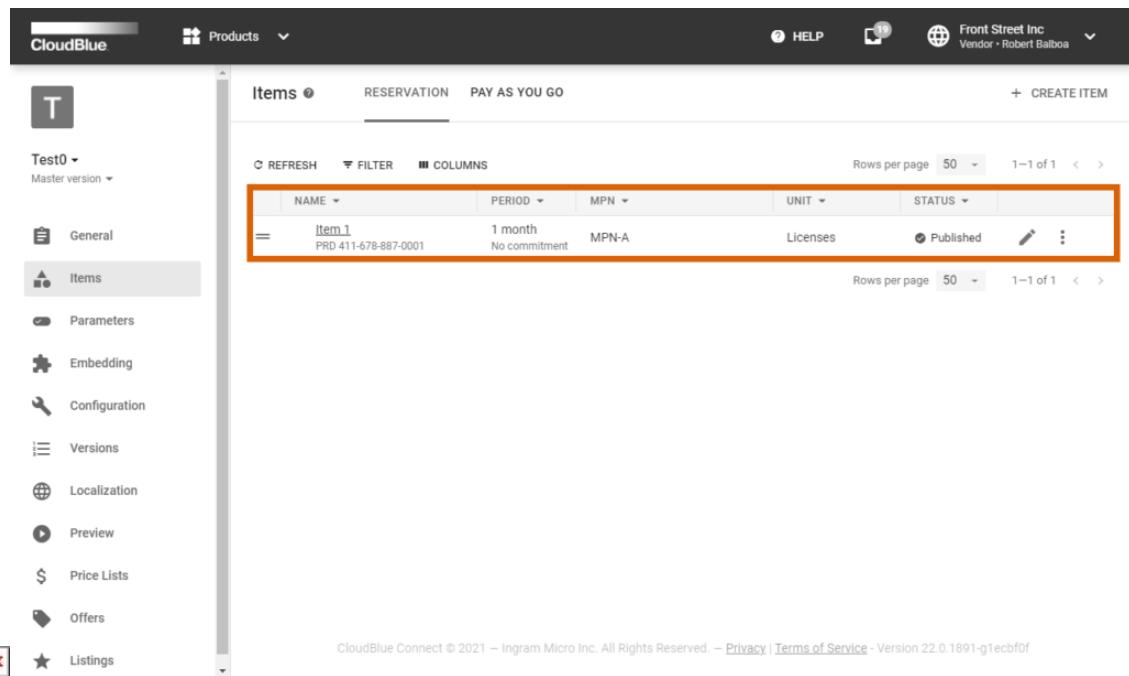
Apiary.io is a tool to design, document, and test APIs. Access the corresponding Community page article to learn more about Apiary API design tool.

The Mock API created via Apiary.io can be accessed by using the following link: <https://vendorexample.docs.apiary.io/#>

The example project covers the following use cases: Subscription Activation, Cancellation, Suspension, Resumption, Change.

The example project uses a product that is configured on the Connect platform as follows:

The screenshot shows the CloudBlue Connect platform interface. The top navigation bar includes 'CloudBlue', 'Products', 'HELP', and 'Front Street Inc' with a dropdown for 'Vendor - Robert Balboa'. The left sidebar has a 'Test0' dropdown and a list of product management tabs: General, Items, Parameters, Embedding, Configuration, Versions, Localization, Preview, Price Lists, Offers, and Listings. The 'General' tab is selected. The main content area is titled 'Product information' and shows a product named 'Tutorial Mock Product' (Published, PRD-411-678-857, Customer Management). It includes a description: 'The service directly enables service providers to add new revenue streams. This offering is a comprehensive solution that enables service providers to expand their market share, automate, grow recurring revenue, and increase customer stickiness.' Below this are three tabs: 'OVERVIEW' (selected), 'MEDIA', and 'CAPABILITIES'. The 'OVERVIEW' tab contains three sections: 'Administrative Hold' (highlighted with an orange box, showing 'Product supports Suspend & Resume actions for the given Subscription.'), 'Consumption reporting for Reservation Items' (showing 'Product supports real-time reporting of consumption for the Reservation items.'), and 'Dynamic Validation of the Draft Requests' (showing 'Product supports real-time validation of the Request structure prior to the request creation by the Commerce.').



Items

RESERVATION PAY AS YOU GO

REFRESH FILTER COLUMNS

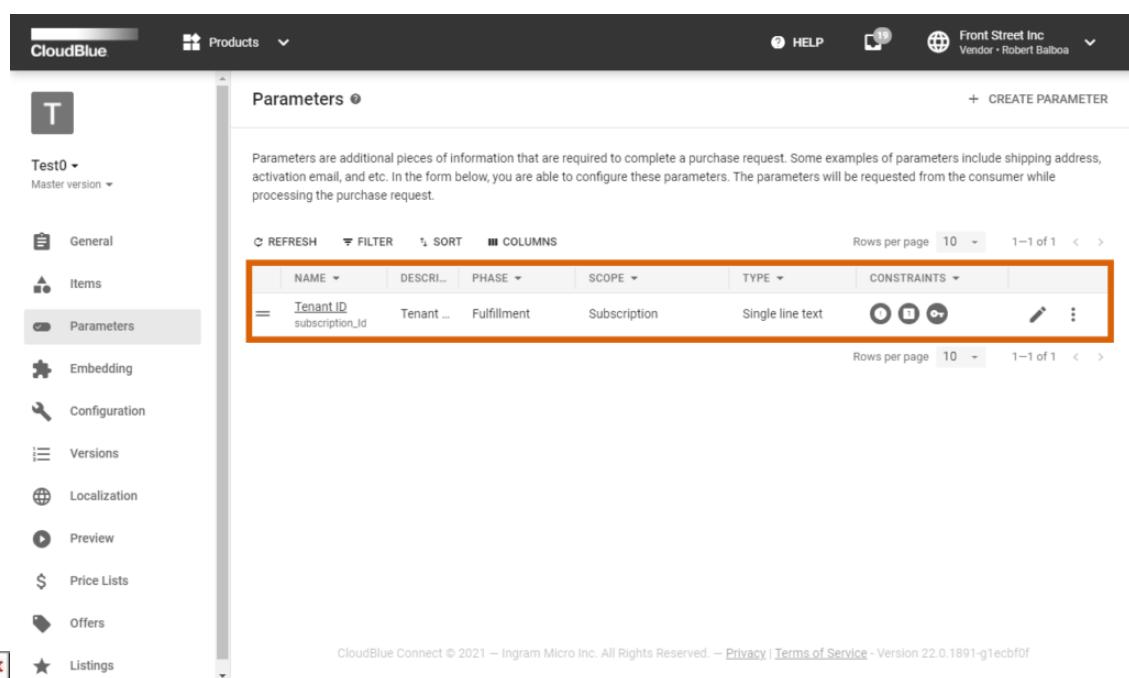
NAME	PERIOD	MPN	UNIT	STATUS
Item 1	1 month No commitment	MPN-A	Licenses	Published

Rows per page: 50 | 1-1 of 1

General Items Parameters Embedding Configuration Versions Localization Preview Price Lists Offers Listings

Test0 Master version

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Parameters

SORT COLUMNS

NAME	DESCR...	PHASE	SCOPE	TYPE	CONSTRAINTS
TenantID subscription_Id	Tenant ...	Fulfillment	Subscription	Single line text	

Rows per page: 10 | 1-1 of 1

General Items Parameters Embedding Configuration Versions Localization Preview Price Lists Offers Listings

Test0 Master version

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- Capabilities:** The *Administrative Hold* capability is enabled to support Subscription Suspension and Resumption use cases.
- Items:** The product provides one item (SKU) with the “MPN-A” manufacturer part number.
- Parameters:** The product features one fulfillment parameter with all available constraints. Therefore, providing unique value is mandatory and this value can be used as a primary reconciliation ID for matching with Vendor systems.



The parameter ID is used by the Processor to call the Connect API and provide the parameter value before approving a purchase request. Furthermore, it is used to retrieve the parameter value and successfully validate change request.