https://cloudblue.com

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
```


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Processor Example

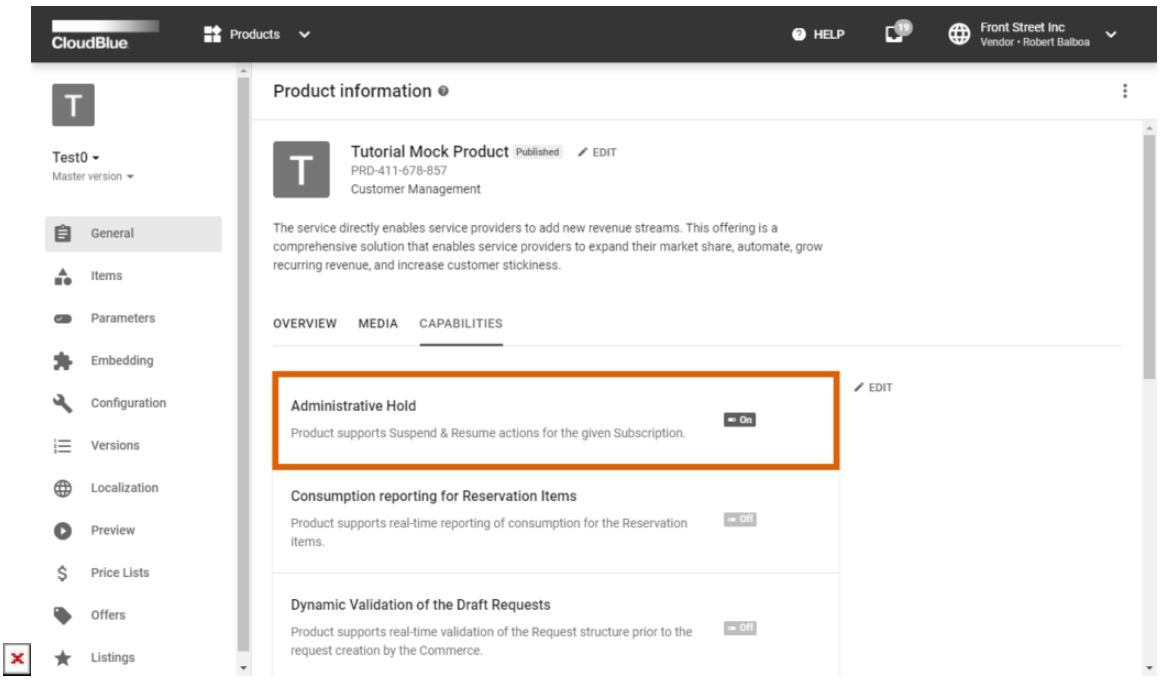
The Processor Template repository also includes an example project that uses a Mock API Endpoint created in Apiary.io. Therefore, this allows emulating API requests from a Vendor system and preview provided use cases.

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:



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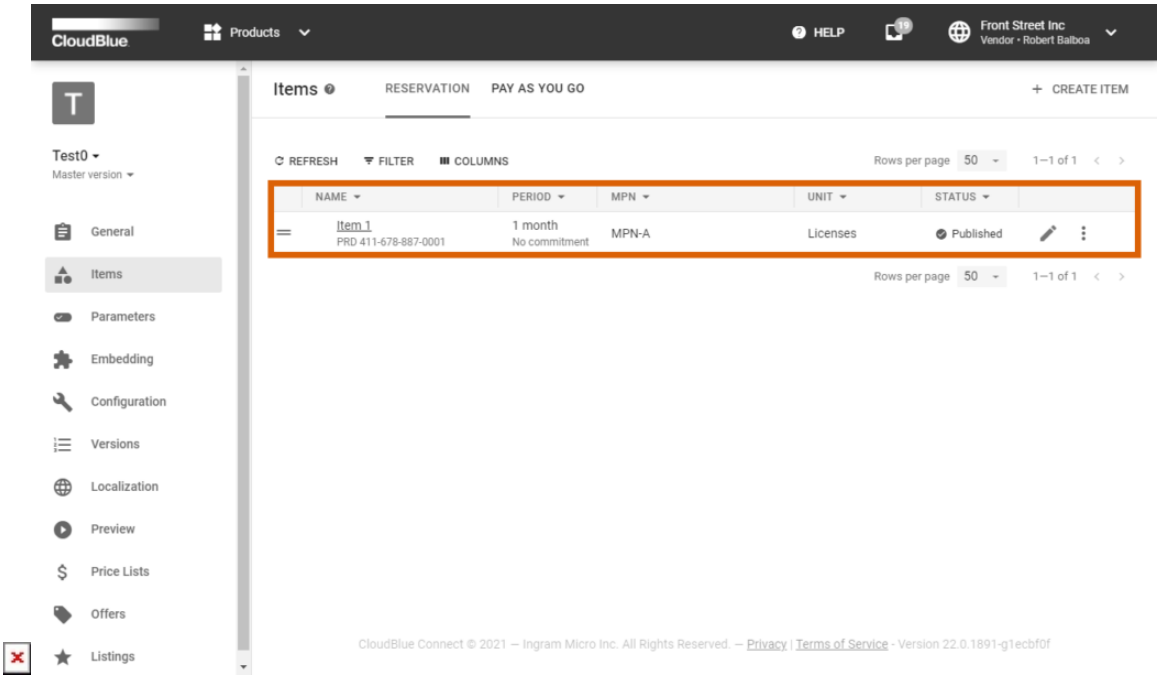

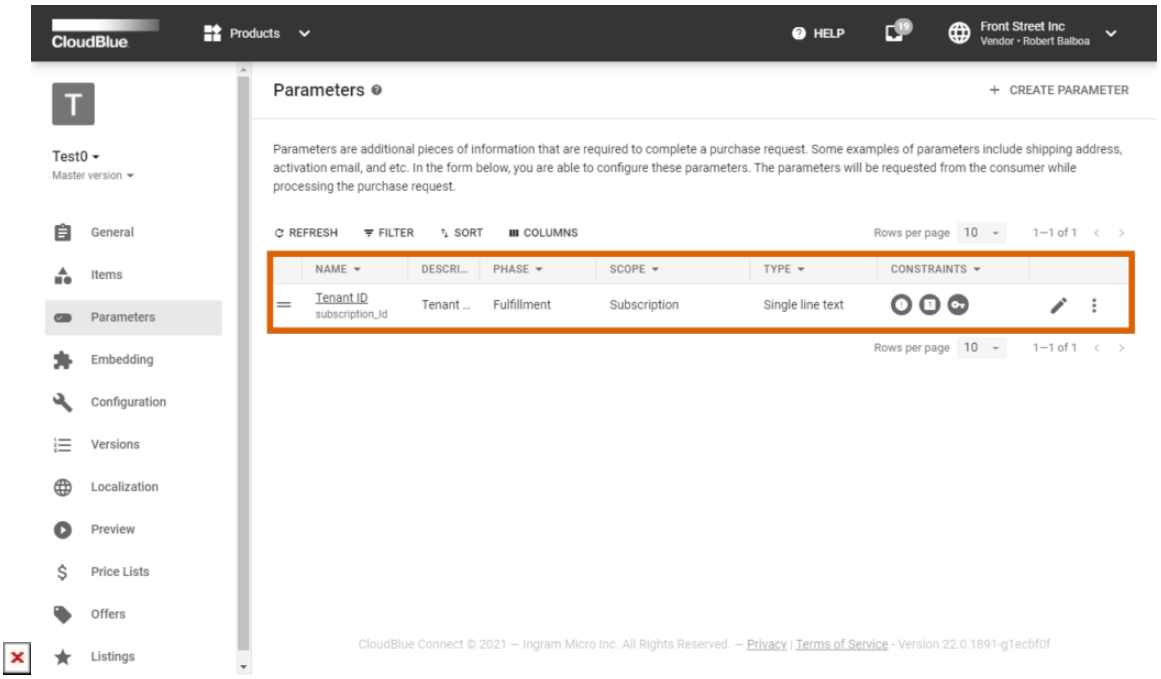

- **Capabilities**: The *Administrative Hold* capability is enabled to support Subscription Suspension and Resumption use cases.
- **Items**: The product provides one item (SKU) with the “MPN-A” manufacturer part number.
- **Parameters**: The product features one fulfillment parameter with all available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

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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.

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