



Documentation Modules Products

Parameters

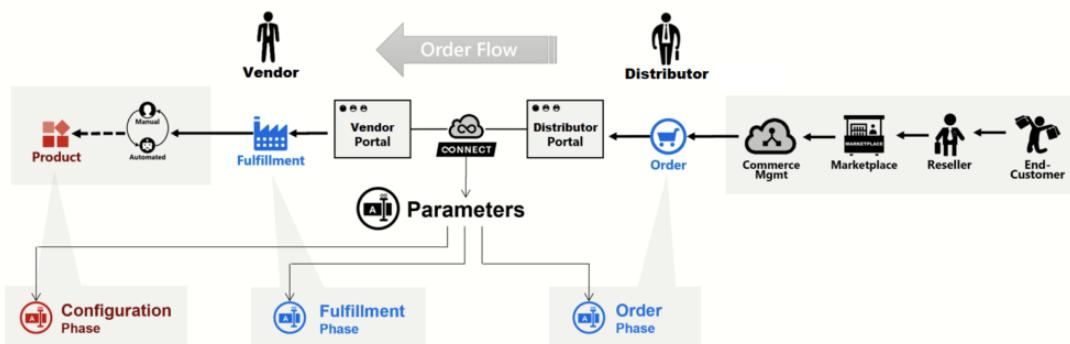
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Auto-generated at January 13, 2026

Overview

Product parameters enable Vendors to collect data from customers that ordered their product and to store product data that is essential for the fulfillment operations. Parameters can also be used to pass required information to Distributors and customers.

Three different **phases** of Parameters can be configured within the Parameters section as schematically illustrated and described below:



- **Ordering** phase Parameters are specified during the **ordering** phase by **Customers**. The customer is asked to provide value for the parameter unless it is hidden. In most cases, such value will be collected by Distributor's commerce system.
- **Fulfillment** phase Parameters are set during the **fulfillment** phase by the **Vendor**. Typical examples of such parameters are service IDs like "tenant id", "customer id" or any other data that is used to *identify a particular subscription* for Vendor's system. If fulfillment automation is implemented using the Subscription API, such parameters can be used to handle *multi-step asynchronous provisioning*. For example, Vendors create a parameter that stores information on the provisioning stage and corresponding data attributes.
- **Configuration** phase Parameters are defined and managed even **before any order is placed**.

Note that parameter attributes are localized and not *versioned*.

The following describes all parameter aspects and showcases how to create a parameter on the CloudBlue Connect platform.

Parameter Creation

Proceed to your **product profile page** and navigate to one of the following menu items in the left navigation pane depending on the phase you need to configure your parameter for:

- Ordering Parameters
- Fulfillment Parameters
- Configuration

Scope

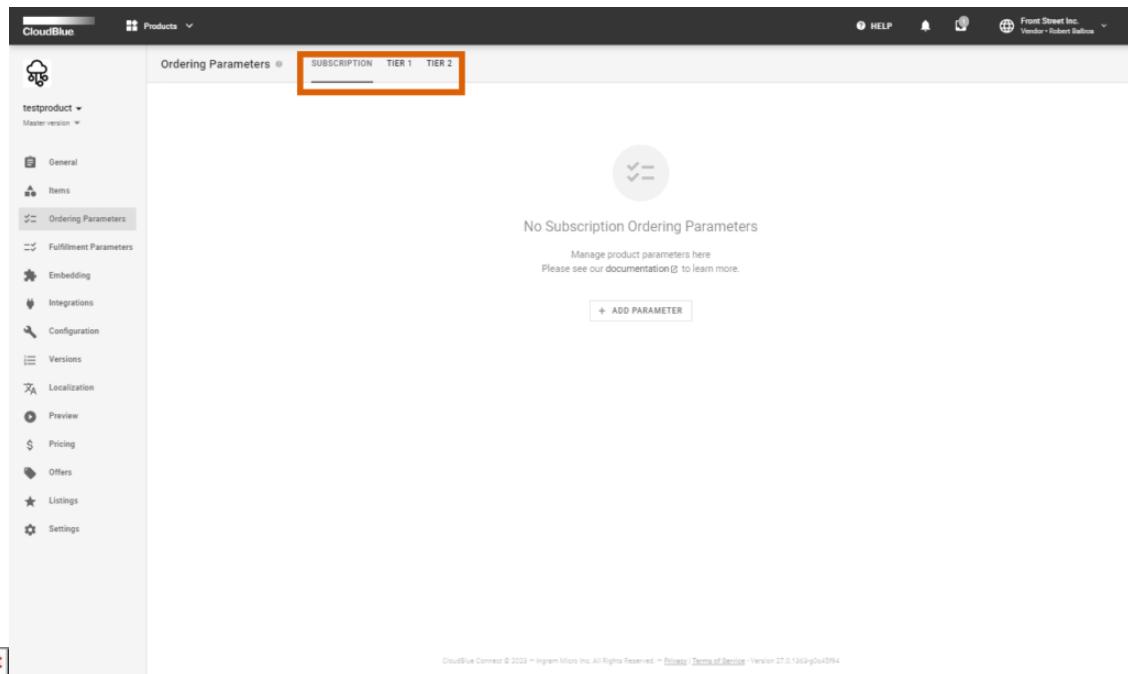
Before creating ordering and fulfilment parameters, choose the parameter scope by navigating to one of the following tabs:

- **Subscription:** Select this scope to associate your parameter with provided subscriptions.
- **Tier 1** - Choose this scope to collect or store reseller authorization details of your first tier reseller (direct reseller).
- **Tier 2** - Select this scope to collect or store reseller authorization details of your second tier reseller (reseller of the reseller)

 Information

Enabled Capability is required!

Note that selecting **Tier 1** or **Tier 2** scopes for *Ordering* and *Fulfillment* phases is available only in case Tier Config capability is enabled.

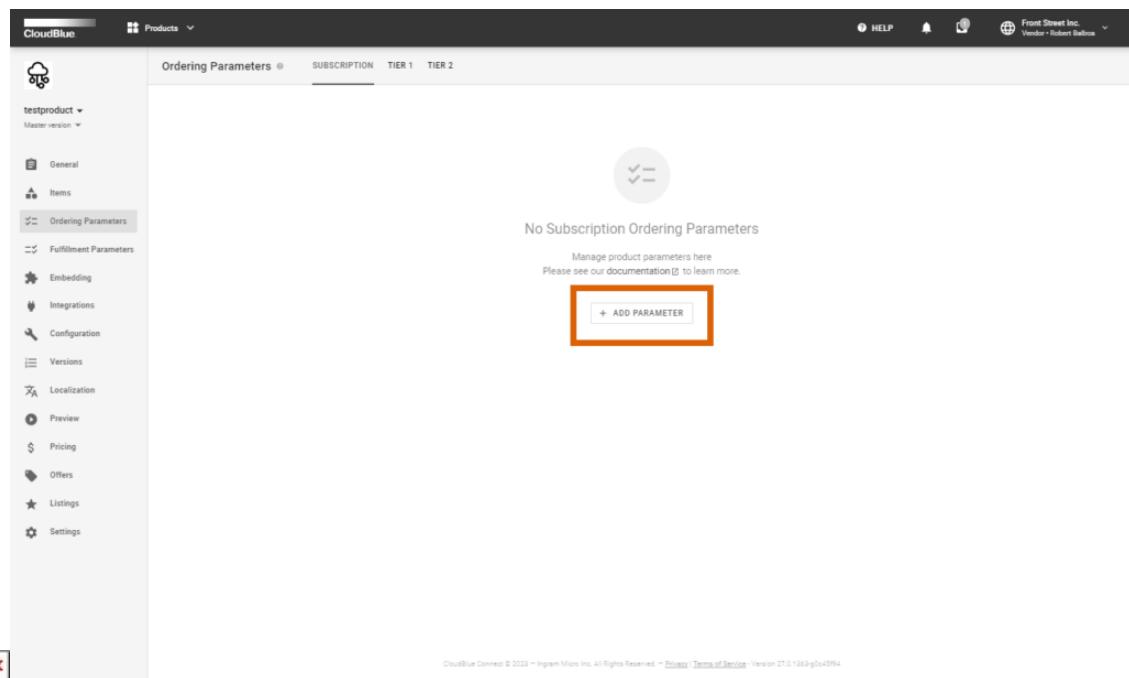


The scope of configuration parameters is specified during the **Create Configuration Key** wizard. Configuration parameters can have the following scopes:

- **Product:** Such configuration parameters are created in the scope of the whole Product and thus are handy to store some constant values used by the fulfillment automation middleware.
- **Marketplace:** This scope is useful to store configuration parameters that vary per Marketplaces, like API Endpoint URLs and access information.

- **Item:** Use this scope when Item's MPN attribute is not enough and there is a need to store additional configuration values associated with an Item.
- **Item x Marketplace:** When there is a need to store additional information associated with an Item in each Marketplace, Item x Marketplace scope will make this process simple for you by managing them in a uniform way.

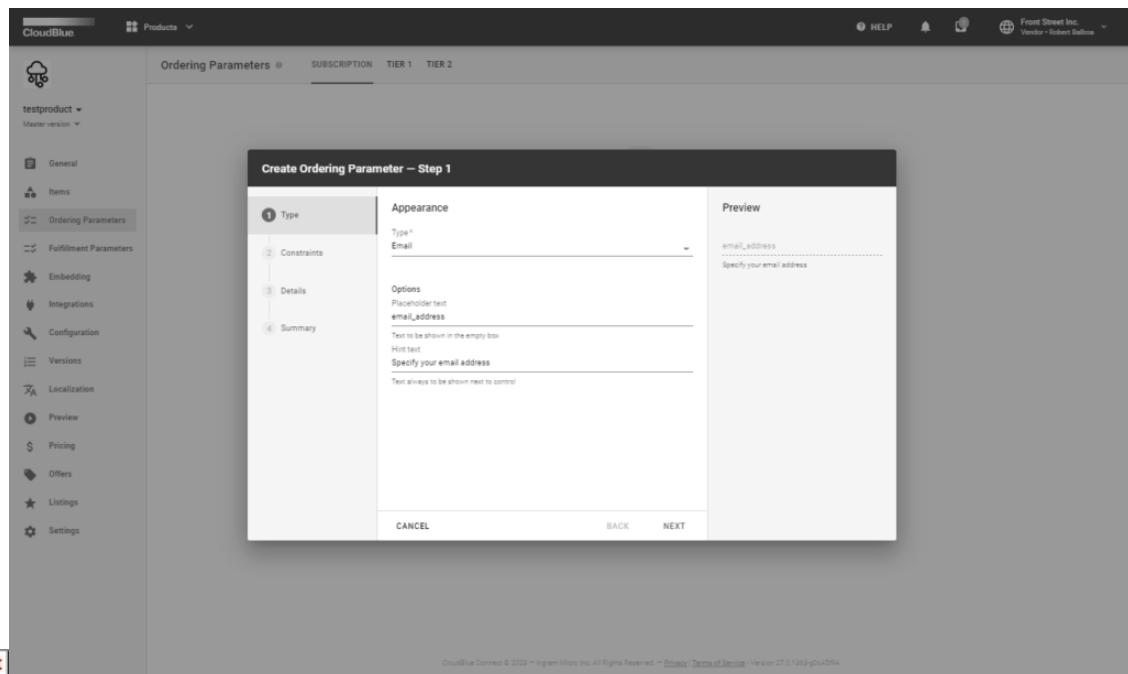
Launch the parameter creation wizard by clicking the respective button with the plus icon:



Follow the wizard steps to successfully configure a new parameter.

Type

First, the system requires to specify your parameter type. Choose between email addresses, objects, passwords, choices and other types. Thus, for example, in case your customers should specify email address before ordering your product, select the *email* parameter type.



Information

The **Object** type is not displayed in the UI and can be used only in API requests. The **structured_value** field should be used to provide json structures for the object type parameters.

Vendors can group several ordering parameters into one logical section under the same name by adding the **Group** and **Text content** parameter types. The **Group** type parameter allows vendors to group logical parameters together under one name, for example, *Partner information*, *Administrative information*, *Shipping information*, etc. The **Text content** type parameter allows vendors to provide context for the group: it can be a text, information, warning, or an error:

The screenshot shows the CloudBlue Ordering Parameters interface. On the left, a sidebar lists various product categories: General, Items, Ordering Parameters (selected), Fulfillment Parameters, Embedding, Integrations, Configuration, Versions, Localization, Preview, Pricing, Offers, Listings, and Settings. The main content area is titled "Create Ordering Parameter – Step 1". It has tabs for SUBSCRIPTION, TIER 1, and TIER 2, with SUBSCRIPTION selected. A sub-header says "Such parameters are used for: email, phone number, address, etc." with a "REFRESH" and "FILTER" button. The main form has tabs 1 (Type), 2 (Constraints), 3 (Details), and 4 (Summary). The "Type" tab is active, showing a dropdown menu with the following options:

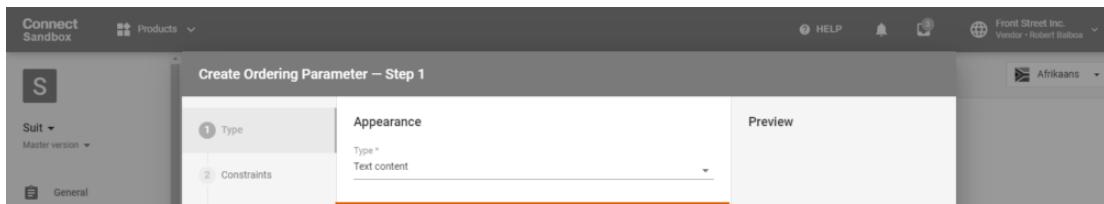
- Type (selected)
- Constraints
- Details
- Summary

The "Type" dropdown is expanded, showing the following options:

- Group (selected): Allows selecting an option from a list of predetermined options (each with unique id and label) that are presented once the user clicks the dropdown arrow.
- Email: Specialized type of the simple line text input control that visually enforces and validates inputted text to be properly formatted as email.
- Object: Complex type used to store machine-readable information in a structured format defined by specifications like JSON.
- Password

At the bottom of the "Type" dropdown are "CANCEL", "BACK", and "NEXT" buttons. To the right of the dropdown is a "Preview" section showing a table with one row. The table has columns for "Type", "Value", and "Description". The "Type" column shows "Group", the "Value" column shows "Email", and the "Description" column shows "Allows selecting an option from a list of predetermined options (each with unique id and label) that are presented once the user clicks the dropdown arrow.". The "Preview" section also includes "Rows per page" and "Total: 1 row" buttons. The top right of the interface shows "HELP", "Front Street Inc.", "Vendor - Robert Bellows", and "English".

The screenshot shows the CloudBlue Ordering Parameters interface. On the left, a sidebar lists various product categories: General, Items, Ordering Parameters (selected), Fulfillment Parameters, Embedding, Integrations, Configuration, Versions, Localization, Preview, Pricing, Offers, Listings, and Settings. The main area is titled 'Ordering Parameters' and shows a table with columns: SUBSCRIPTION, TIER 1, TIER 2. A 'CREATE PARAMETER' button is at the top right. A modal window titled 'Create Ordering Parameter – Step 1' is open, showing a step-by-step process: 1. Type (selected), 2. Constraints, 3. Details, 4. Summary. The 'Type' step is expanded, showing options: Single line text (selected), Subdomain, and Text content (highlighted with a red box). The 'Text content' section contains the description: 'Some text description for parameter group'. The 'Appearance' and 'Preview' tabs are also visible in the modal. The bottom of the modal has buttons for CANCEL, BACK, and NEXT.



Connect Sandbox Products HELP Front Street Inc. Vendor - Robert Balboa Afrikaans

Suit Master version

General Items

Ordering Parameters

Fulfillment Parameters

Embedding

Integrations

Configuration

Versions

Localization

Preview

Pricing

Create Ordering Parameter — Step 1

1 Type

2 Constraints

3 Details

4 Summary

Appearance

Type *

Text content

Preview

Options

Content Type *

- Text
- Info
- Warning
- Error

CANCEL BACK NEXT

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Information

Parameters are linked to groups and groups to content text parameters based on the *order* of parameters created in the **Ordering parameters** section.

For example, to group parameters like on the inquiring form below, you need to create parameters of the group, text content, and inline text types in the following order:

Home Office 365 for Home Configure Service Checkout

ORDER DETAILS

SETUP YOUR PURCHASE

GROUP A
Please fill out the form below

Param A1
Param Value
Detailed description of the parameter A1

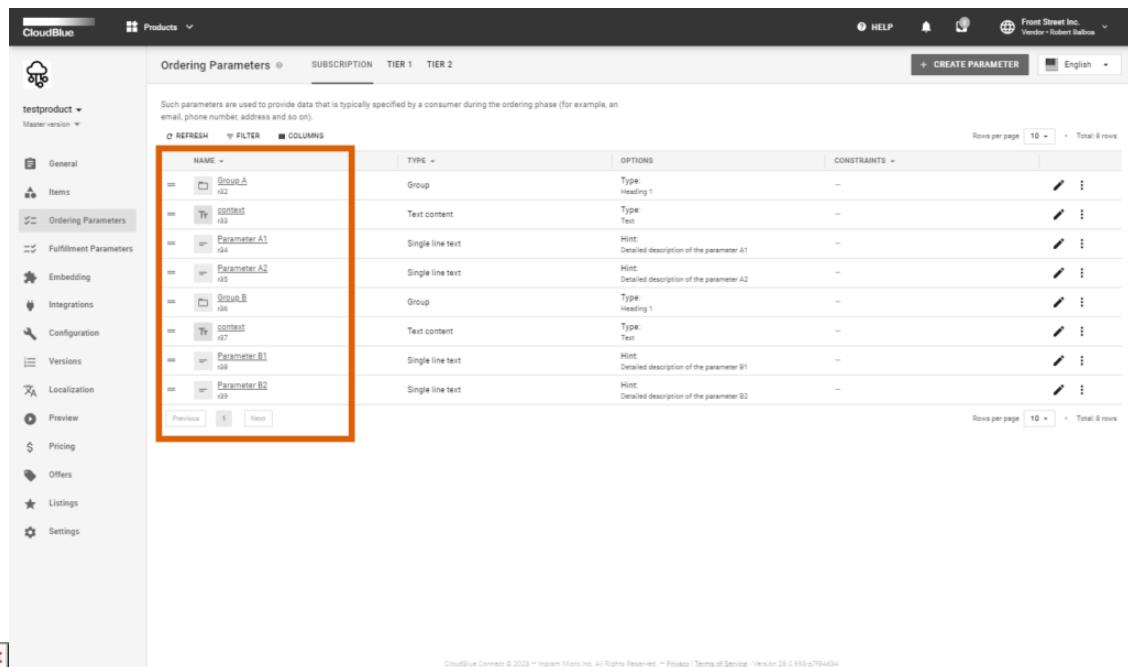
Param A2
reallyGood
Detailed description of the parameter A2

GROUP B
Please fill out the form below

Param B1
Param Value
Detailed description of the parameter B1

Param B2
raining
Detailed description of the parameter B2

X

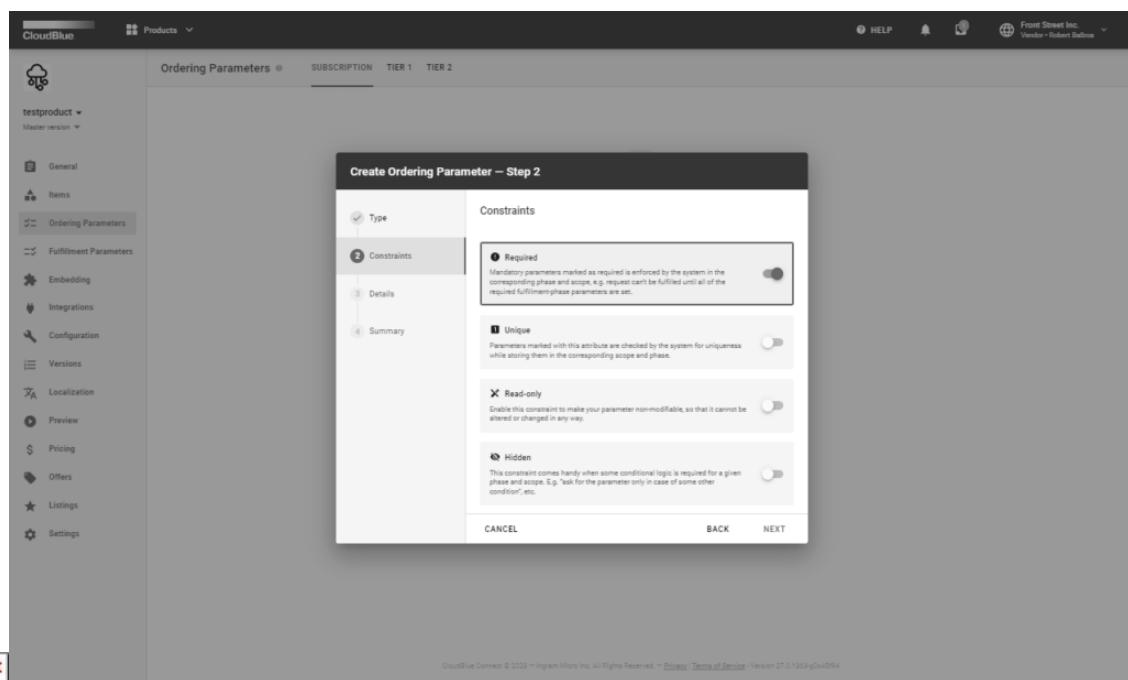


Such parameters are used to provide data that is typically specified by a consumer during the ordering phase (for example, an email, phone number, address and so on).

NAME	TYPE	OPTIONS	CONSTRAINTS
Group_A	Group	Type: Heading 1	
Parameter_A1	Text content	Type: Text	
Parameter_A2	Single line text	Hint: Detailed description of the parameter A1	
Group_B	Group	Type: Heading 1	
Parameter_B1	Text content	Type: Text	
Parameter_B2	Single line text	Hint: Detailed description of the parameter B1	
Parameter_B3	Single line text	Hint: Detailed description of the parameter B2	

Constraints

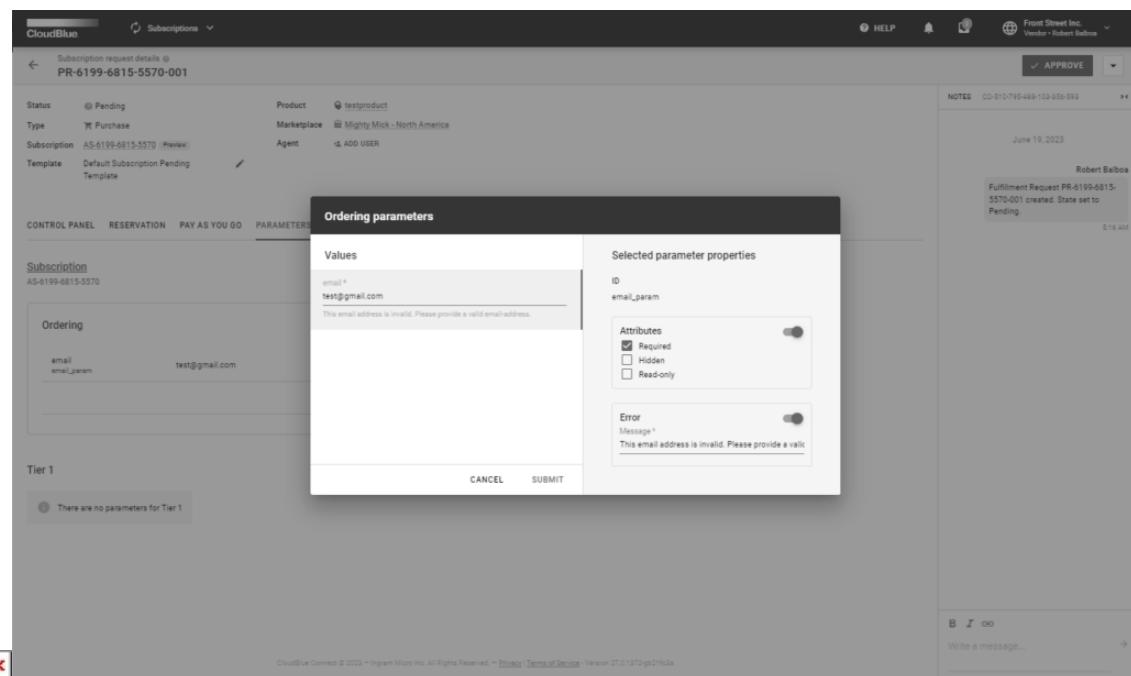
Constraints define the following parameter characteristics and the number of available constraints will vary depending on the parameter phase:



- **Required:** Mandatory parameters marked as required are enforced by the system in the corresponding phase and scope. Therefore, your subscription request will not be fulfilled until all of the required fulfillment-phase parameters are specified.

- **Unique:** Parameters marked with this attribute are checked by the system for uniqueness while storing them in the corresponding scope and phase. This enables to provide passwords, identifiers, or any other parameters that should not be specified more than once. If a parameter has a **Unique** constraint, its uniqueness will be checked in all requests, except for the requests in the **Failed** status or linked to a terminated subscription.
- **Read-only** (Ordering Parameter): Enable this constraint to make your parameter non-modifiable, so it cannot be altered in any way. Thus, your parameter will be displayed to your customers, and in turn, your customers will not be able to edit such parameters. This constraint can be useful to display your static emails, addresses, phone numbers or any other pre-defined parameters that should not be changed.
- **Hidden** (Ordering Parameter): This constraint is used to apply your conditional logic that is required for a given phase and scope. It can be especially helpful to hide certain parameters until a certain condition is met. For example, the system can ask to enter an identifier or a valid phone number without need to specify error values for such cases.
- **Visible by Distributor:** In case your configuration parameter should be visible for the Distributors, this constraint should be activated. For example, a “partner code” can be used for the subsequent fulfillment operations or similar scenarios.
- **Editable by Distributor:** If your configuration parameter should be editable for Distributor, this constraint can be used. For instance, “partner access configuration” and other similar scenarios.
- **Primary Vendor Reconciliation ID** (Fulfillment Parameter): Value of this parameter can be used as a *primary reconciliation ID* for matching the data within the Vendor systems. Only one fulfillment phase parameter can be marked as reconciliation ID for a given product.

The **Required**, **Hidden**, and **Read-only** constraints can be later redefined per a subscription request on the **Parameters** tab by clicking the **Edit** button and selecting the required checkboxes under **Attributes**. For example, a Vendor can ask the customer to provide a valid email-address and show them an error message:



The screenshot shows a subscription request for PR-6199-6815-5570-001. The 'Ordering parameters' modal is open, showing a parameter named 'email' with the value 'test@gmail.com'. The 'Attributes' section has 'Required' checked. An error message below the input field states: 'This email address is invalid. Please provide a valid email address.' The background shows the subscription details and a notes section.

Information

The **Editable by Distributor** constraint applies only to **Configuration** phase parameters with **Marketplace** and **Item x Marketplace** scopes because marketplaces are specific to distributors, and they can edit only parameter values for their own marketplaces.

Dependencies

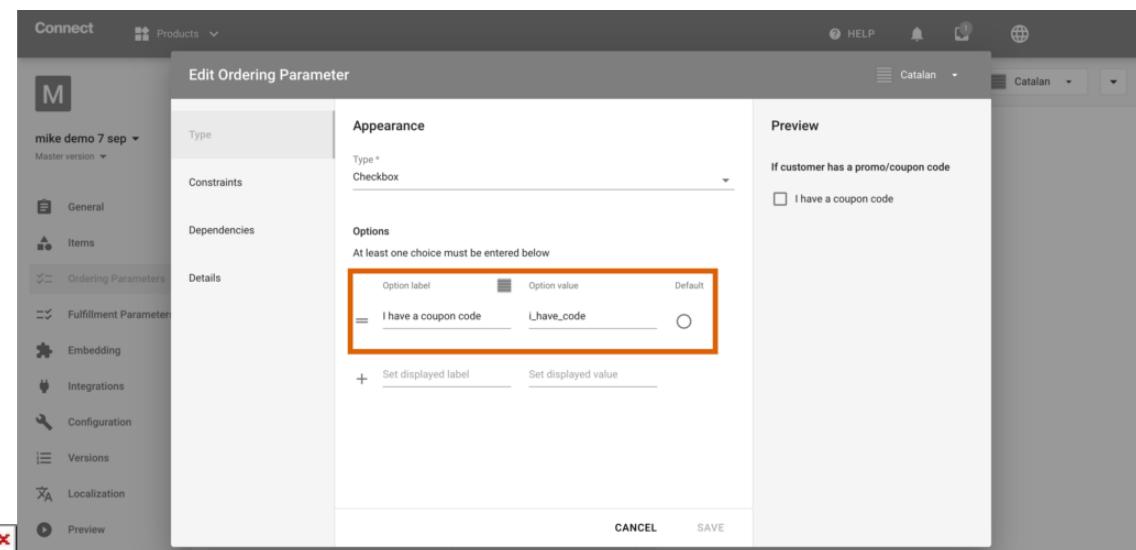
Parameter dependencies allow you to define how one parameter visibility or configurability depends on the options or values selected for other parameters.

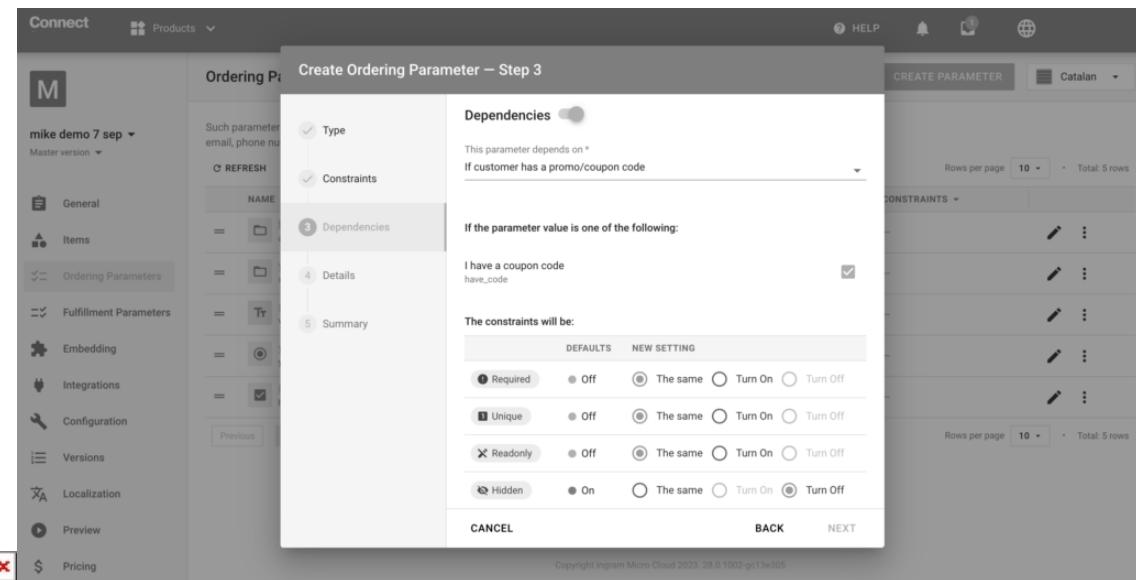
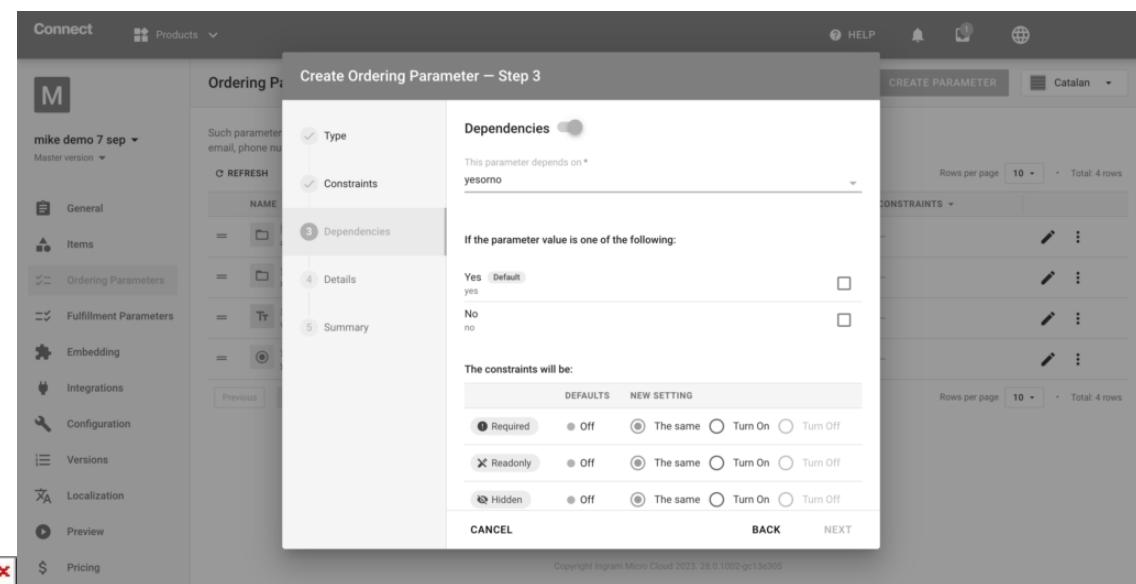


Information

Only ordering parameters support the dependency configuration.

For example, you may need to dynamically display the input field to enter the promo code if users select *I have Promo code* checkbox when placing an order in the customer portal. As another example, you may want to show the *Account ID* input field (hidden by default) if the *Are you an existing customer?* checkbox is selected:



Information

The parameter indicated in the **Dependency** section must have **Choice**, **Drop-down**, or **Checkbox** type.



Custom Choice for RTV

Ordering parameters support real-time validation on the vendor's side. Unlike parameter dependencies, real-time validation allows vendors to instantly validate the data in their system and return options or an error message to customers based on the input field value entered when purchasing a subscription.

For example, customers will see a list of American datacenters if they purchase their subscription in the US marketplace and will see a list of European datacenters if they purchase the same subscription in the European marketplace.

The list of choices returned by the Vendor to Connect with the purchase request will be displayed to the customer:

```
"params": [
  {
    "id": "datacenters",
    "name": "datacenters",
    "type": "choice",
    "phase": "ordering",
    "description": "datacenters",
    "value": "nevada",
    "title": "datacenters",
    "constraints": {
      "meta": {
        "choices": [
          {
            "label": "Nevada",
            "value": "nevada",
            "default": true
          },
          {
            "label": "Frankfurt",
            "value": "frankfurt"
          },
          {
            "label": "Iceland",
            "value": "iceland"
          }
        ]
      }
    }
  }
]
```



Information

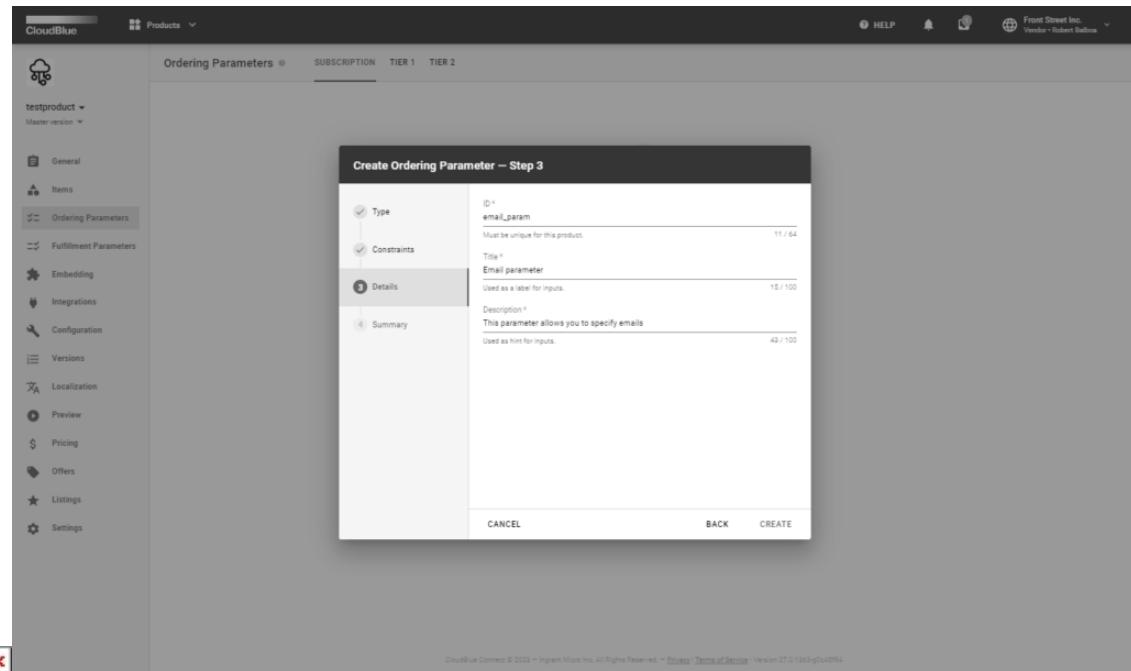
The choices returned with the API call will override the static parameters configured in

Connect (if any).

Details

Specify your parameter details in the following form:

- **ID:** Unique identifier of the parameter in the context of a product. Specific IDs are also required to identify parameters using the Subscription API.
- **Title:** This text will be shown within the different system inputs. Note that in case that an ordering phase parameter is specified (and not hidden by using constraints), this title will be visible to a customer.
- **Description:** This text allows providing meaningful information for what the parameter is used for.



Click the **Create** button to finalize your parameter configuration.

Summary

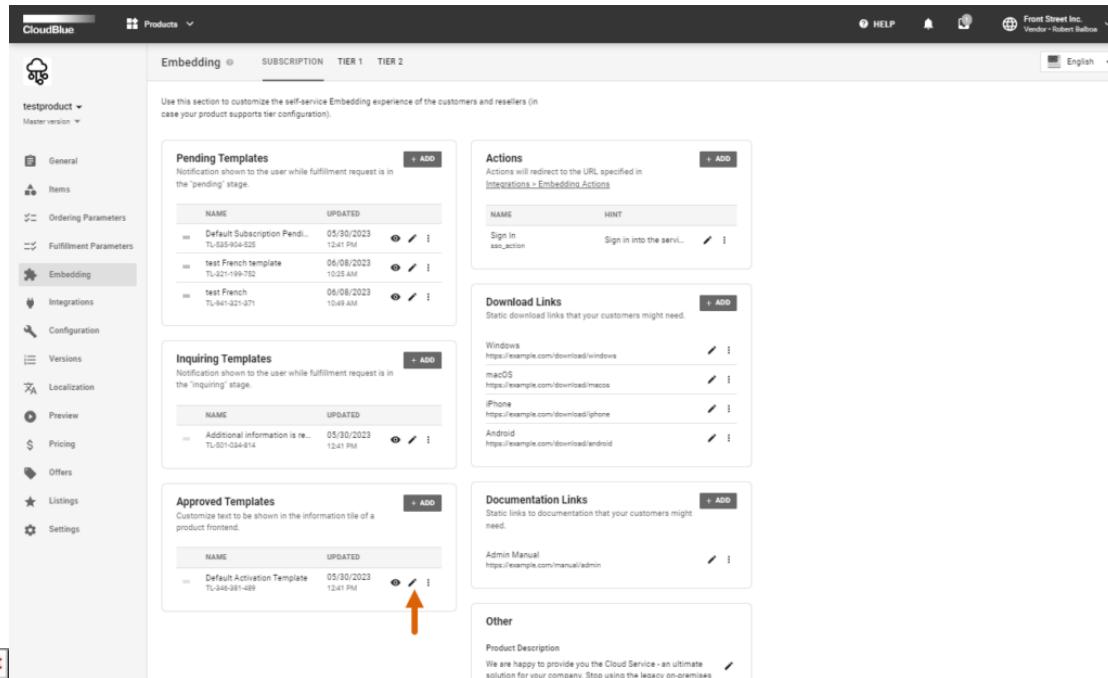
As a result, your parameter will be successfully created. The system will also display the parameter summary.

Click **Go to Details** to review your parameter configuration. Otherwise, click **Close** to close the summary.

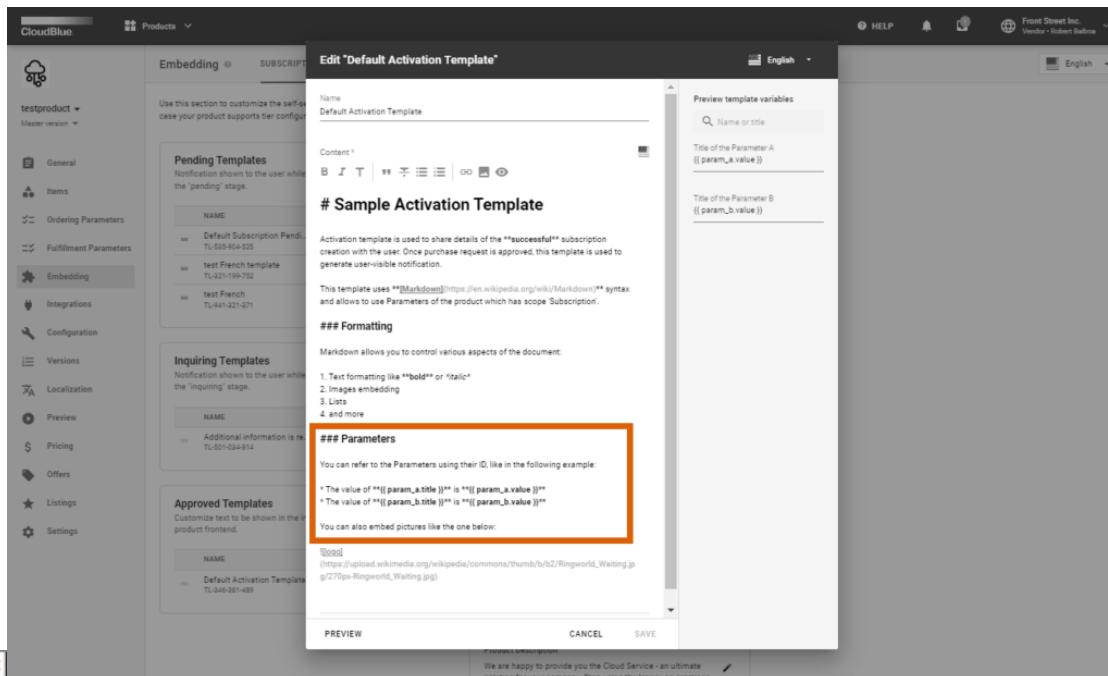
Removing Default Parameters

If you try to delete the product default parameters, your attempt will be rejected because the default parameters are used in the system *Subscription Approved* template that can be configured within the **Embedding** section. To delete the parameters, you

need to edit the templates that use these parameters as follows:



This screenshot shows the 'Embedding' section of a product profile. It includes sections for Pending Templates, Inquiring Templates, Approved Templates, Actions, Download Links, Documentation Links, and Other. The Approved Templates section lists 'Default Activation Template' with a creation date of 05/30/2023. An orange arrow points to the edit icon (pencil icon) next to this template.



This screenshot shows the 'Edit "Default Activation Template"' dialog box. It includes sections for Preview template variables, Content (with rich text editor), and Parameters. The Parameters section contains the following text:

```

### Parameters

You can refer to the Parameters using their ID, like in the following example:
* The value of "||param_a.title||" is "||param_a.value||"
* The value of "||param_b.title||" is "||param_b.value||"

You can also embed pictures like the one below:


```

1. Access the **Embedding** section from the product profile page.
2. Under **Approved Templates**, click the pencil icon next to the *Default Activation Template* to edit it.
3. Proceed to the **Parameters** section and remove both default parameters.

4. Click **Save**.

As a result, default parameters will be successfully deleted.