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Documentation  Modules  Streams 

Commerce Module Interface

 This article has been generated from the online version of the documentation and might be out of date. Please, make sure to always refer to the online version of the documentation for the up-to-date information.

Auto-generated at January 13, 2026

The Commerce module allows you to automate and transform table data (such as Excel tables) associated with a specific marketplace, product, and business partner, and pass this data using *streams* from the Vendor to Distributor accounts on the CloudBlue Connect platform.



Note

The system requires to deploy and install your extensions for the Commerce module in order to successfully perform the described operations. For more information on how to create and manage your extensions on Connect, refer to the DevOps module documentation.

Billing Streams

The Commerce module allows you to create billing streams that are used to quickly and easily initiate the billing flow in your supply chain. Such streams are also used to organize your incoming billing batches and configure associated products, marketplaces, and attributes for your billing flow.

Streams created and configured by your organization are available on the *Outbound* tab while streams generated by your business partners can be found on the *Inbound* tab. Note that inbound streams are not available for Vendor accounts as all data streams generally start with Vendor operations.

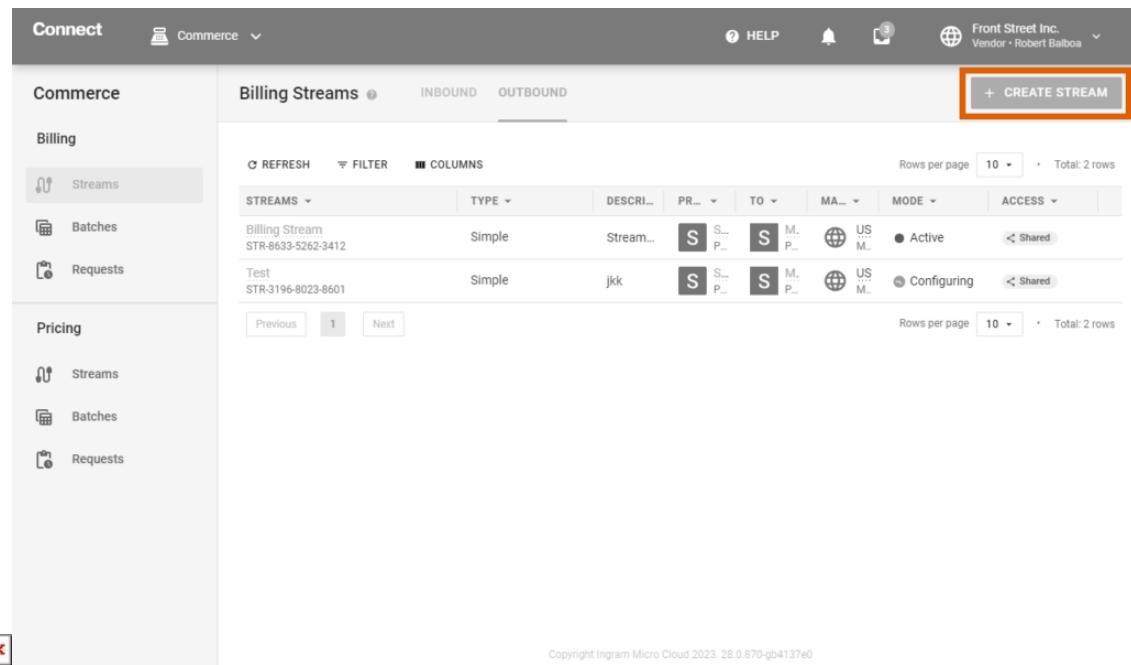


Information

Stream and batch management is not yet available for Resellers and syndication scenarios.

New Stream Creation

Access the *Outbound* tab to start creating a new stream object. Specifically, click the **Create Stream** button at the top-right corner and use the following form:



Commerce

Billing Streams

INBOUND OUTBOUND

+ CREATE STREAM

REFRESH FILTER COLUMNS

STREAMS TYPE DESCRIPTION PR... TO... MA... MODE ACCESS

Billing Stream STR-8633-5262-3412 Simple Stream... S S M. P. S M. P. US M. Active Shared

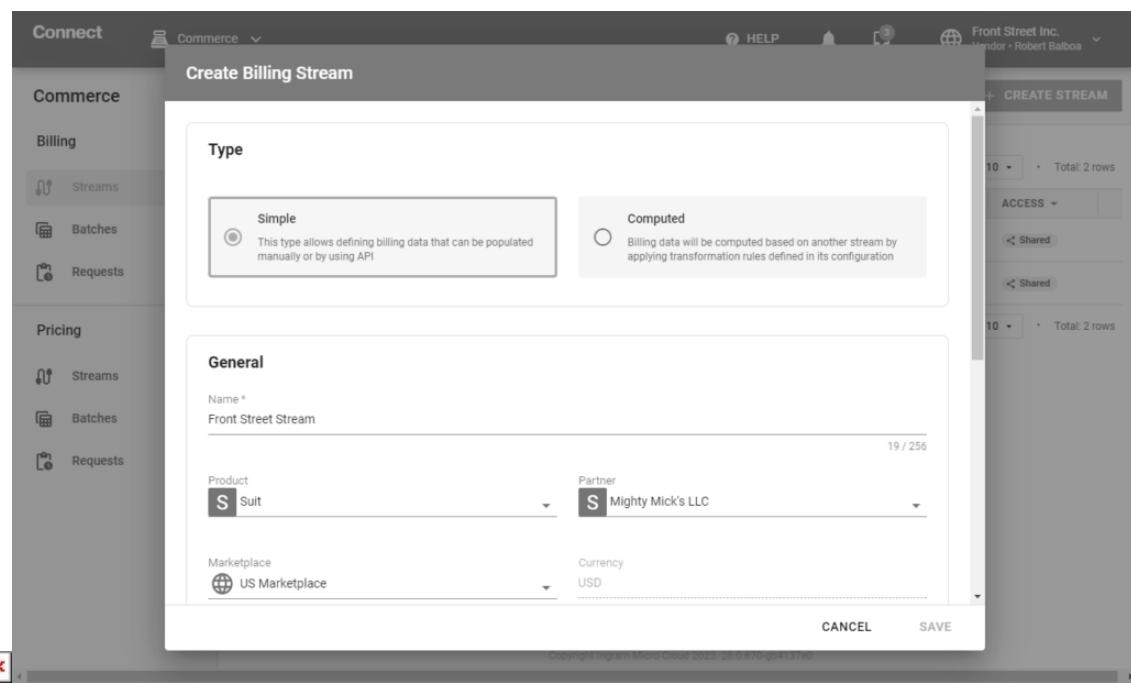
Test STR-3196-8023-8601 Simple jkk S S M. P. S M. P. US M. Configuring Shared

Streams Batches Requests

Pricing Streams Batches Requests

Streams Batches Requests

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Commerce

Billing Streams

Streams Batches Requests

Pricing Streams Batches Requests

Streams Batches Requests

Create Billing Stream

Type

Simple: This type allows defining billing data that can be populated manually or by using API

Computed: Billing data will be computed based on another stream by applying transformation rules defined in its configuration

General

Name*: Front Street Stream

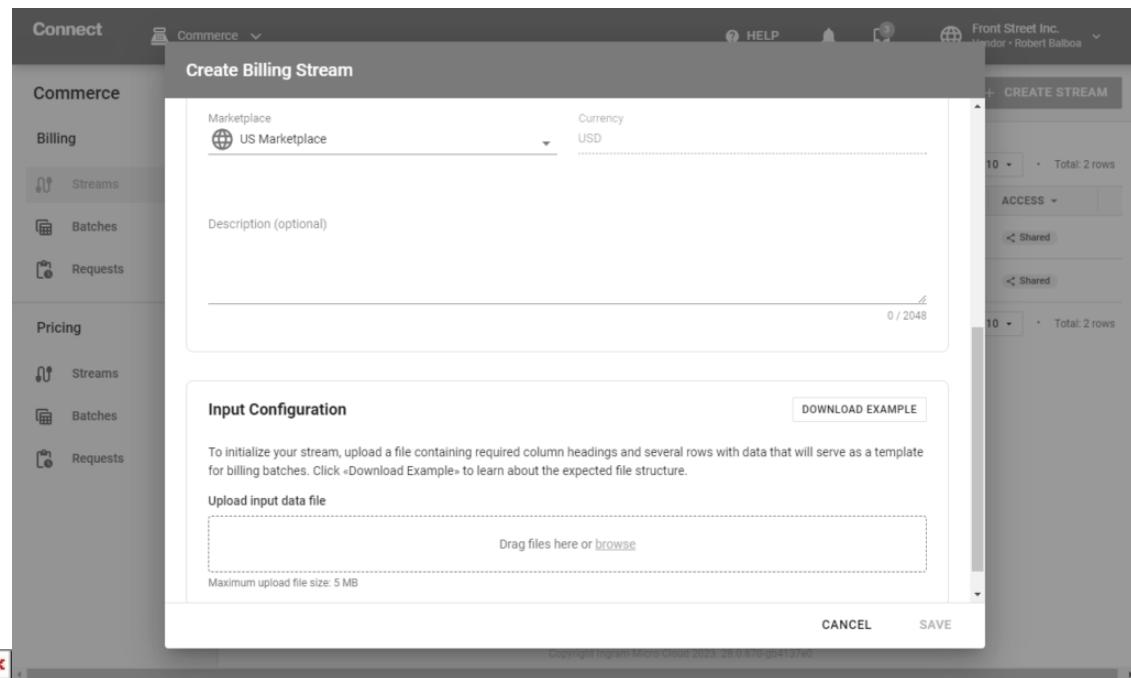
Product: Suit

Partner: Mighty Mick's LLC

Marketplace: US Marketplace

Currency: USD

CANCEL SAVE



- **Type:** Select either *simple* or *computed* stream type. Simple streams allow uploading files for the subsequent *input configuration*, while computed streams require to select an existing stream object. For more information on simple and computed streams, refer to the Key Concepts & Terminology article.
- **Name:** Enter a name for your new stream object.
- **Product:** Specify a product that should be associated with your new stream.
- **Partner:** Select a business partner that should receive your billing batches.
- **Marketplace:** Specify a marketplace that should be associated with your billing stream. The system allows specifying your own marketplace in case of working with your end-customers.
- **Currency:** Your currency is defined by your selected marketplace. Currently, the system allows selecting only one currency per a stream.
- **Description:** Provide a description for your stream if necessary.
- **Input Configuration:** These options vary depending on your selected *stream type*.
 - If the *simple* type selected, the system allows uploading your spreadsheet with input data file to the corresponding field. Connect also provides a *download example* option that can be used to learn more about expected file structure.
 - In case the *computed* type is selected, it is required to specify an existing stream as a *computation source*. Once your source is specified, the system enables you to choose a selector and assign a *value*.

Once all required fields are filled out, click **Create** to successfully finalize your stream creation. Therefore, your stream will be available within the *Outbound* tab and will allow creating *billing batches* associated with this stream. The system also allows accessing details of your available stream objects as described below.



Stream Details

Click on a stream object name from *inbound* or *outbound* list to access the **Stream Details** screen.

This screen provides various information on your selected stream, such as its type, identifier, associated marketplace, currency, and more. It also displays status of your stream that can change if an input file is uploaded, error occurs, etc.

Use the additional menu (▼ at the top-right corner of the screen) to *edit* your stream name, description or batch publishing settings or *terminate* your billing stream.

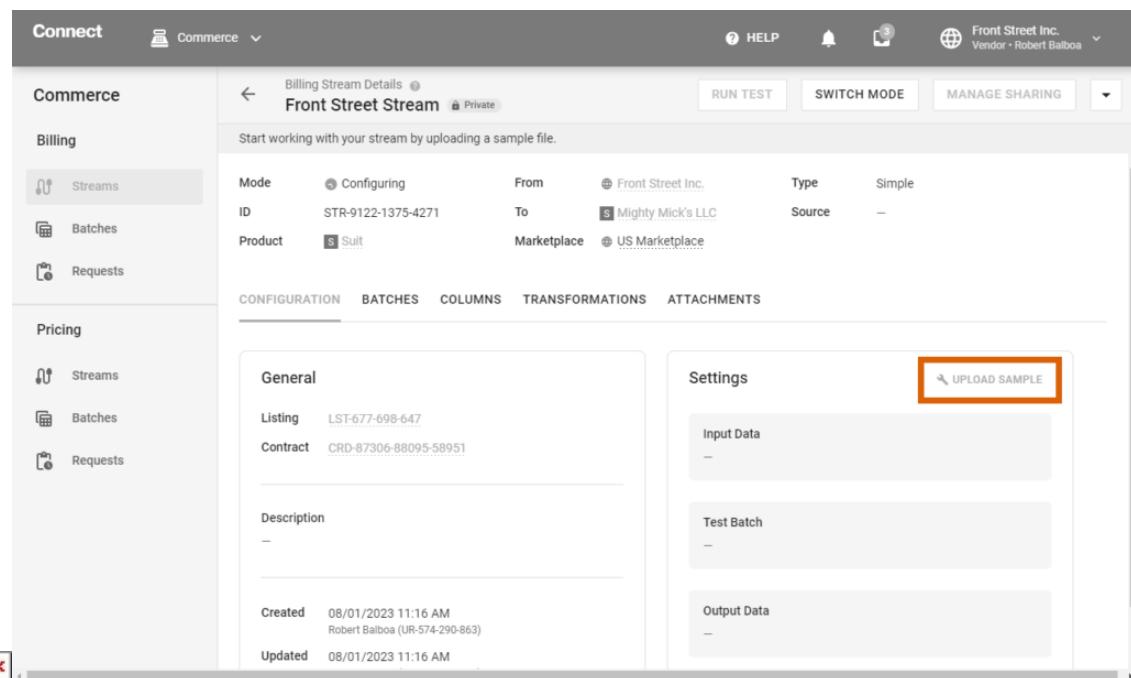
Access more information and various operations with your stream by using the following tabs and buttons:

Stream Configuration

The **Configuration** tab is used to upload/re-upload your input file and review general insights information on your selected stream.

The *General* widget showcases your batch publishing configuration, stream description, upload and creation date.

This *Settings* widget is used to manage your input data for your selected stream. In case an input file is not uploaded to Connect, use the **Upload Sample** button to provide your input spreadsheet file:



Billing Stream Details  **Front Street Stream**  

Start working with your stream by uploading a sample file.

Mode	Configuring	From	Front Street Inc.	Type	Simple
ID	STR-9122-1375-4271	To	Mighty Mick's LLC	Source	-
Product	Suit	Marketplace	US Marketplace		

CONFIGURATION **BATCHES** **COLUMNS** **TRANSFORMATIONS** **ATTACHMENTS**

General

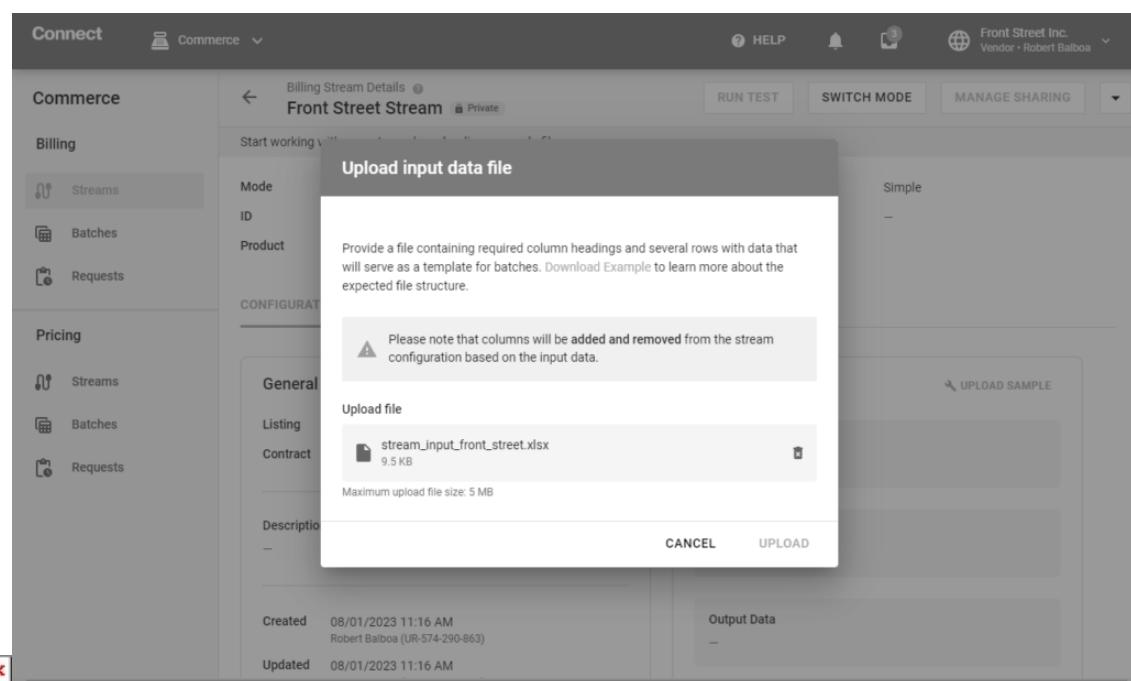
Listing LST-677-698-647
Contract CRD-87306-88095-58951

Description -

Created 08/01/2023 11:16 AM
Robert Balboa (UR-574-290-863)
Updated 08/01/2023 11:16 AM

Settings 

Input Data -
Test Batch -
Output Data -



Billing Stream Details  **Front Street Stream**  

Start working with your stream by uploading a sample file.

General

Please note that columns will be added and removed from the stream configuration based on the input data.

Upload file
 9.5 KB
Maximum upload file size: 5 MB

Settings 

Input Data -
Test Batch -
Output Data -



The **Settings** widget allows you to reupload the input file for your simple stream and modify your stream's output by using the **Re-upload Sample** button.



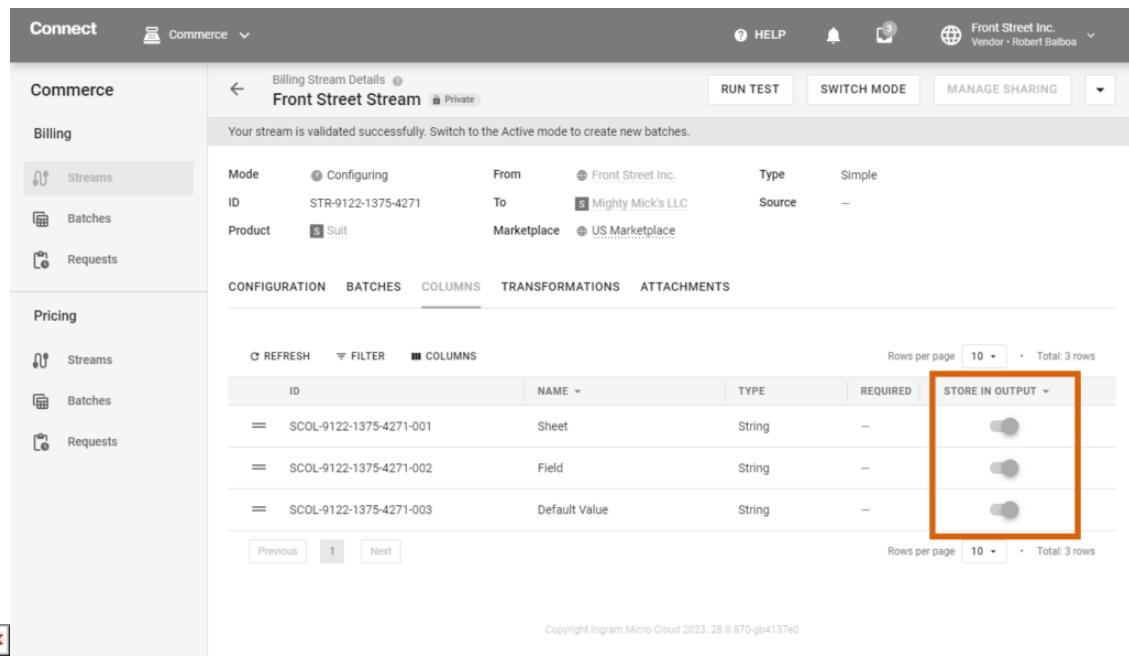
Validate your stream

In case your input data has changed or been updated, make sure to validate your stream by clicking the **Run Test** button at the top-right corner of the screen.

Columns Management

The **Columns** tab allows accessing all data columns that are uploaded to your selected stream. This tab provides a data grid that displays detailed information on each column, such as origin, type, name, description, and more.

The provided data grid allows including or excluding your defined columns. Included columns represent *selectors* that define output for *computed* streams. Such selectors can be managed by using their corresponding toggle switch in the UI:



Billing Stream Details  Front Street Stream  Private

Your stream is validated successfully. Switch to the Active mode to create new batches.

Mode	Configuring	From	Front Street Inc.	Type	Simple
ID	STR-9122-1375-4271	To	 Mighty Mick's LLC	Source	-
Product	 Suit	Marketplace	 US Marketplace		

CONFIGURATION BATCHES COLUMNS TRANSFORMATIONS ATTACHMENTS

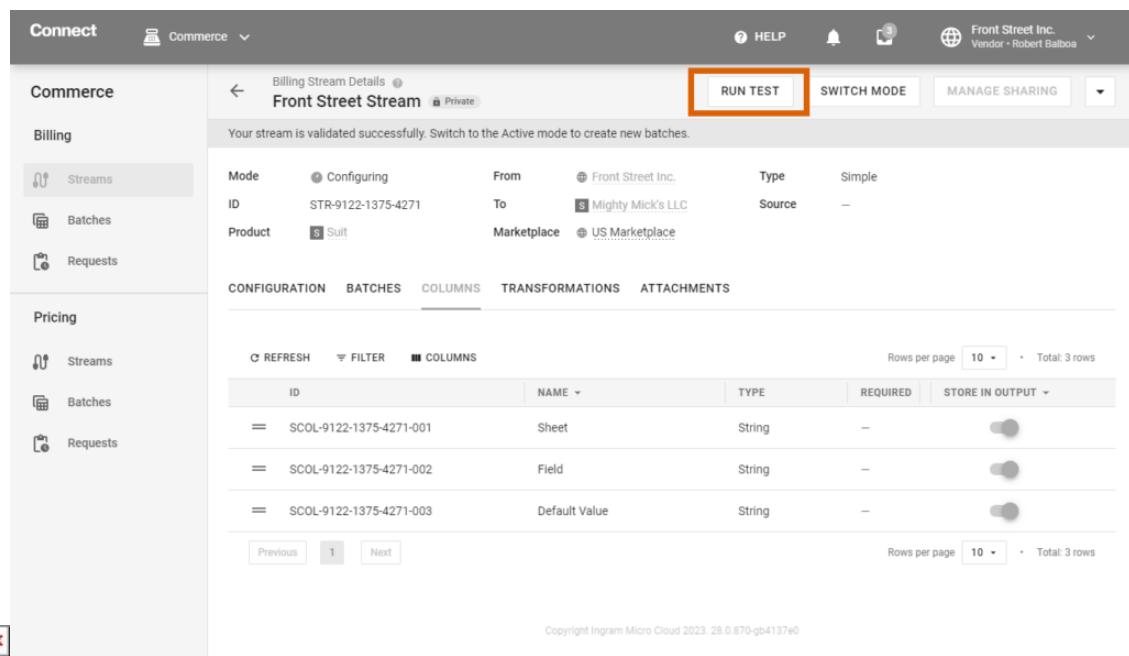
REFRESH FILTER COLUMNS

ID	NAME	TYPE	REQUIRED	STORE IN OUTPUT
SCOL-9122-1375-4271-001	Sheet	String	-	<input checked="" type="checkbox"/>
SCOL-9122-1375-4271-002	Field	String	-	<input checked="" type="checkbox"/>
SCOL-9122-1375-4271-003	Default Value	String	-	<input checked="" type="checkbox"/>

Previous 1 Next

Rows per page: 10 Total: 3 rows

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Billing Stream Details  Front Street Stream  Private

Your stream is validated successfully. Switch to the Active mode to create new batches.

Mode	Configuring	From	Front Street Inc.	Type	Simple
ID	STR-9122-1375-4271	To	 Mighty Mick's LLC	Source	-
Product	 Suit	Marketplace	 US Marketplace		

CONFIGURATION BATCHES COLUMNS TRANSFORMATIONS ATTACHMENTS

REFRESH FILTER COLUMNS

ID	NAME	TYPE	REQUIRED	STORE IN OUTPUT
SCOL-9122-1375-4271-001	Sheet	String	-	<input type="checkbox"/>
SCOL-9122-1375-4271-002	Field	String	-	<input type="checkbox"/>
SCOL-9122-1375-4271-003	Default Value	String	-	<input type="checkbox"/>

Previous 1 Next

Rows per page: 10 Total: 3 rows

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In case your selectors are changed, ensure to validate your stream by using the **Run test** button at the top-right corner of the screen.

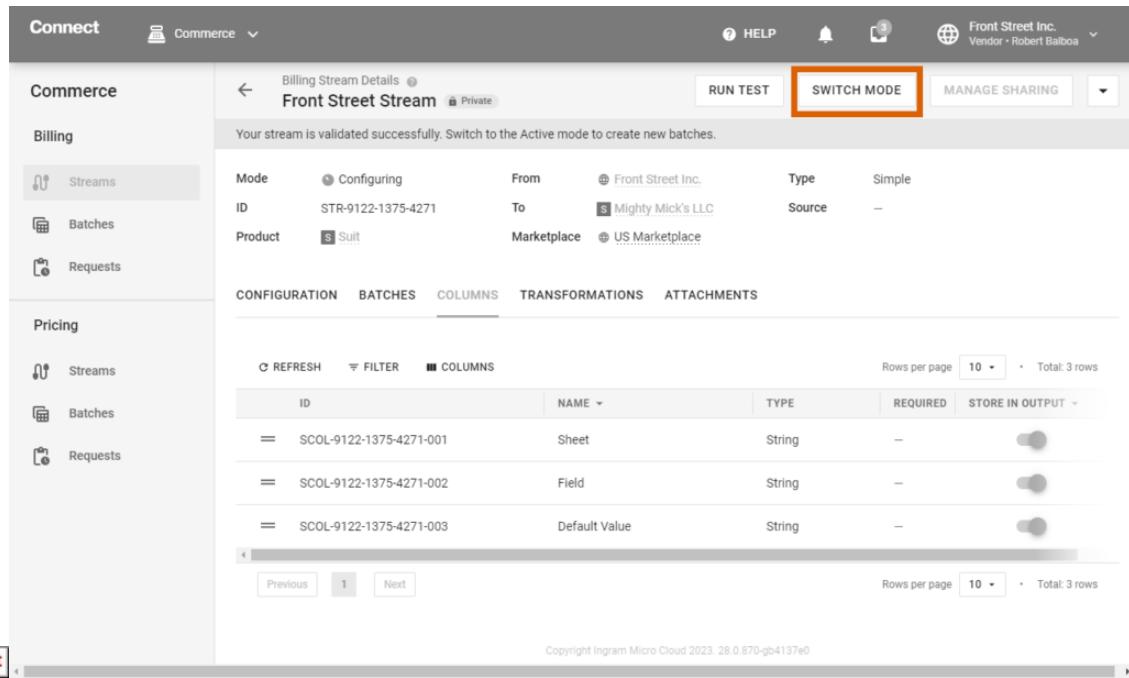
Note that only columns that are stored in the output can be used as *selectors*. For more information on selectors and billing stream specifications, refer to the [Key Concepts & Terminology](#) article.



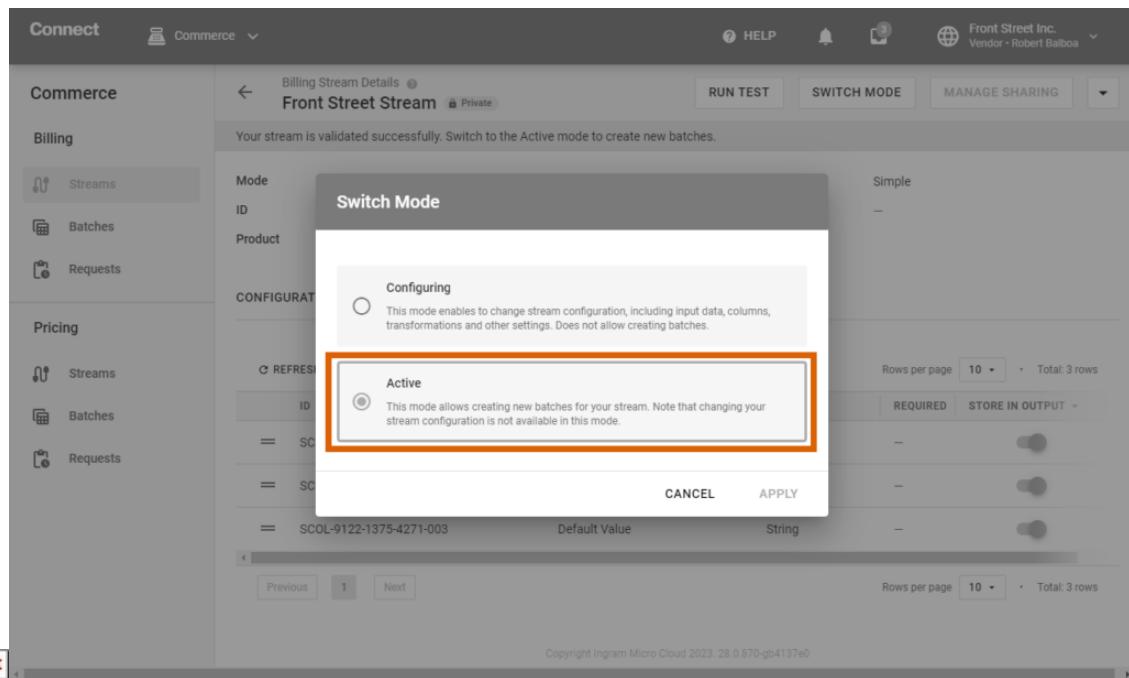
Stream Activation

Once your stream configuration is finished and corresponding settings are validated, your stream can be activated by using the **Switch Mode** button at the top-right corner of the screen.

Consequently, the system allows selecting one of the following modes for your stream:



The screenshot shows the 'Billing Stream Details' page for 'Front Street Stream'. The 'Switch Mode' button is highlighted with a red box. The page displays stream configuration details: Mode (Configuring), From (Front Street Inc.), Type (Simple), ID (STR-9122-1375-4271), To (Mighty Mick's LLC), Source (US Marketplace), Product (Suit), and Marketplace (US Marketplace). Below this, the 'COLUMNS' tab is selected in the 'CONFIGURATION' section, showing three columns: ID, NAME, and TYPE. The columns are SCOL-9122-1375-4271-001 (Sheet, String), SCOL-9122-1375-4271-002 (Field, String), and SCOL-9122-1375-4271-003 (Default Value, String). The 'ROWS PER PAGE' dropdown is set to 10, and the total number of rows is 3.



The screenshot shows the 'Billing Stream Details' page for 'Front Street Stream'. A 'Switch Mode' dialog box is open, showing two options: 'Configuring' and 'Active'. The 'Active' option is highlighted with a red box. The dialog box contains the following text: 'Configuring' (This mode enables to change stream configuration, including input data, columns, transformations and other settings. Does not allow creating batches.) and 'Active' (This mode allows creating new batches for your stream. Note that changing your stream configuration is not available in this mode.). Below the dialog box are 'CANCEL' and 'APPLY' buttons. The rest of the page shows the stream configuration details and the 'ROWS PER PAGE' dropdown set to 10.

- **Configuring:** This mode is used for adjusting your stream configuration. However, it does not allow creating billing

batches that will be associated with your *configuring* stream, publishing your stream, and sharing associated billing information with your business partners.

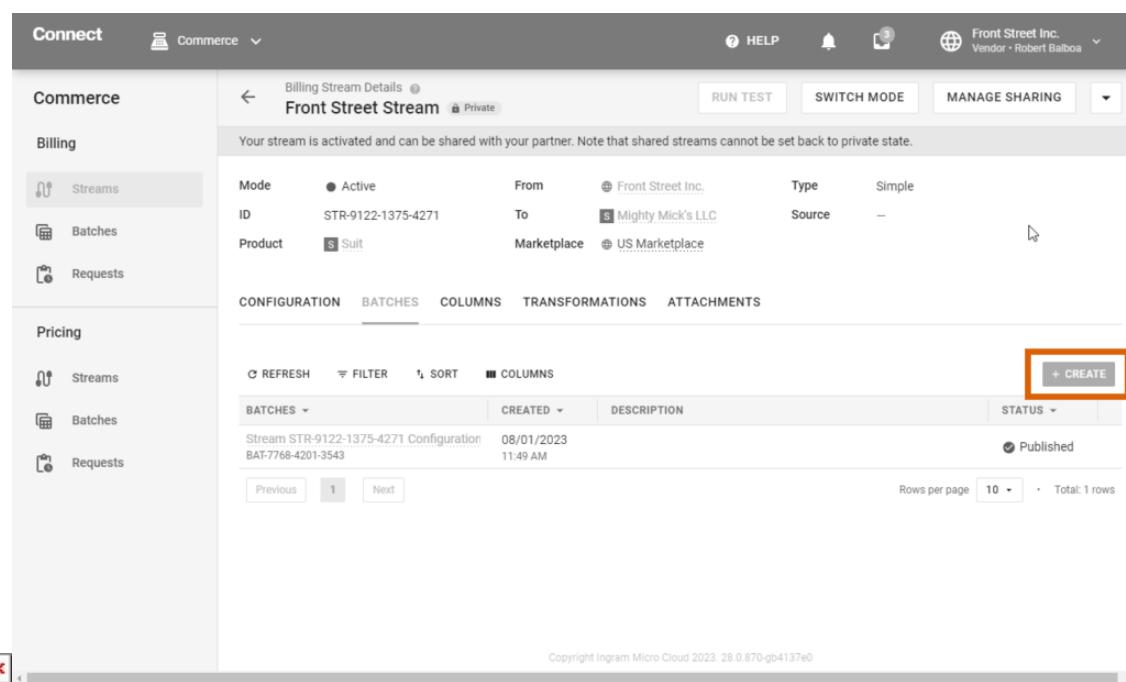
- **Active:** Switch to this mode for creating associated billing batches and preparing your stream for the subsequent publication. Note that this mode does not allow changing your stream.

Confirm your mode selection by clicking the **Apply** button.

Batches Management

This **Batches** tab provides a data grid for all billing batches that are associated with your selected stream. Along with the batch identifier, description, and status the data grid also includes various insights, such as *total price*, *total cost*, and a number of *subscriptions* that are interconnected with each batch.

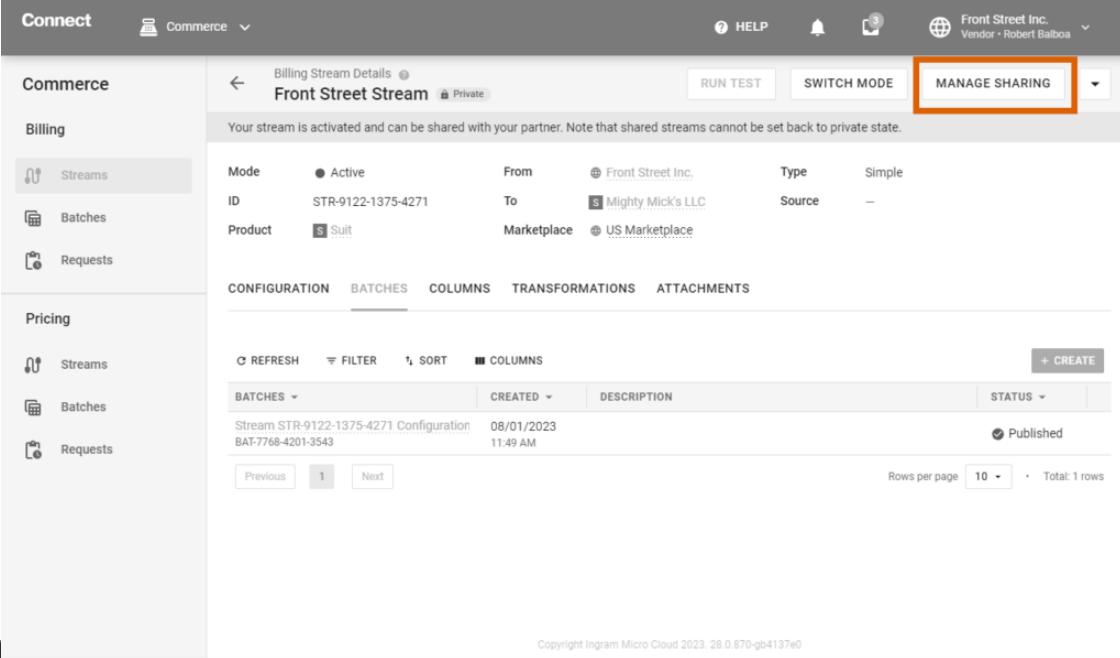
Once your stream is switched to the *Active* mode, create a new billing batch for your selected stream by clicking the **Create** button within the *Batches* tab:



This functionality redirects to the batch creation form that is described under corresponding heading on this page.

Stream Publication

Your stream remains in the *Private* state and cannot be shared until it is switched to the **Active** mode. Once your stream is switched to this mode, use the **Manage Sharing** button at the top-right corner of the screen to access the following options:



Billing Stream Details  Front Street Stream  Private

Mode: Active | From: Front Street Inc. | Type: Simple | Source: –

ID: STR-9122-1375-4271 | To: Mighty Mick's LLC

Product: Suit | Marketplace: US Marketplace

CONFIGURATION **BATCHES** **COLUMNS** **TRANSFORMATIONS** **ATTACHMENTS**

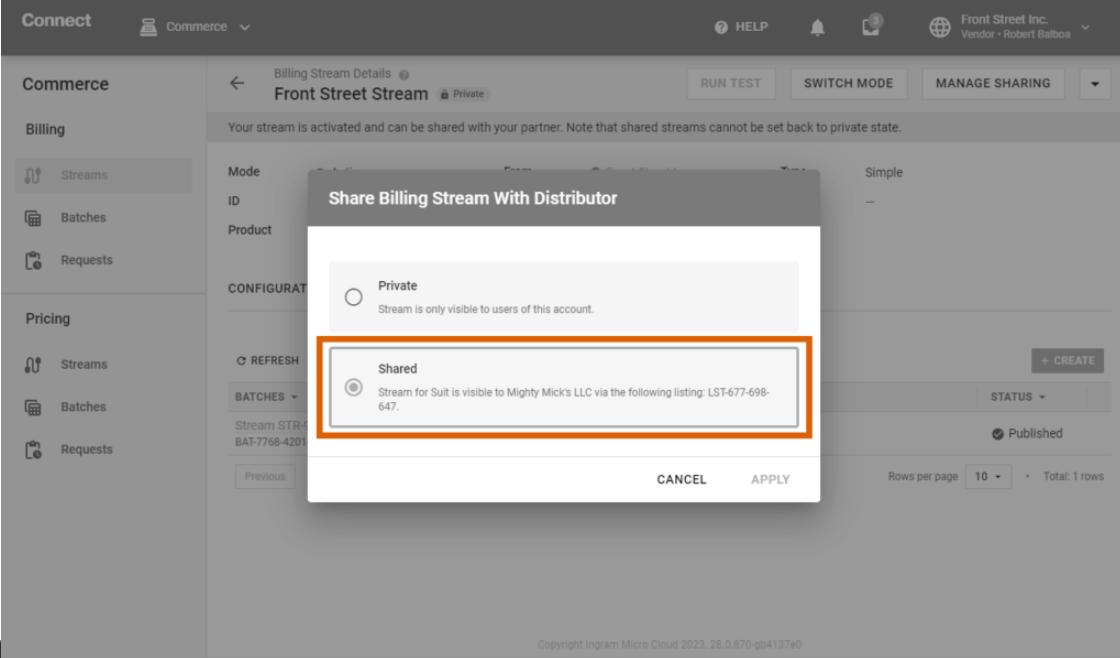
BATCHES     

BATCHES	CREATED	DESCRIPTION	STATUS
Stream STR-9122-1375-4271 Configuration	08/01/2023		 Published
BAT-7768-4201-3543	11:49 AM		

Previous  Next 

Rows per page: 10  Total: 1 rows

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Billing Stream Details  Front Street Stream  Private

Your stream is activated and can be shared with your partner. Note that shared streams cannot be set back to private state.

Mode: Simple | Source: –

ID: STR-9122-1375-4271 | Product: Suit

CONFIGURATION     

Share Billing Stream With Distributor

Private
Stream is only visible to users of this account.

Shared
Stream for Suit is visible to Mighty Mick's LLC via the following listing: LST-677-698-647.

CANCEL **APPLY**

Rows per page: 10  Total: 1 rows

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- **Private:** In case your stream stays in this state, your provided billing information will not be available for your business partner.
- **Shared:** Use this option to share your billing stream with your specified business partner. Note that once your stream is published, it cannot be switched back to the *Private* state.

Confirm your mode selection by clicking the **Apply** button. Therefore, your stream will be shared with your specified business

partner.



Ensure that your product is listed

Note that published billing streams that are generated by *Vendors* will be available for *Distributors* only in case the associated product is listed on the specified marketplace. Otherwise, published streams will not be visible to Distributors.

Billing Batches

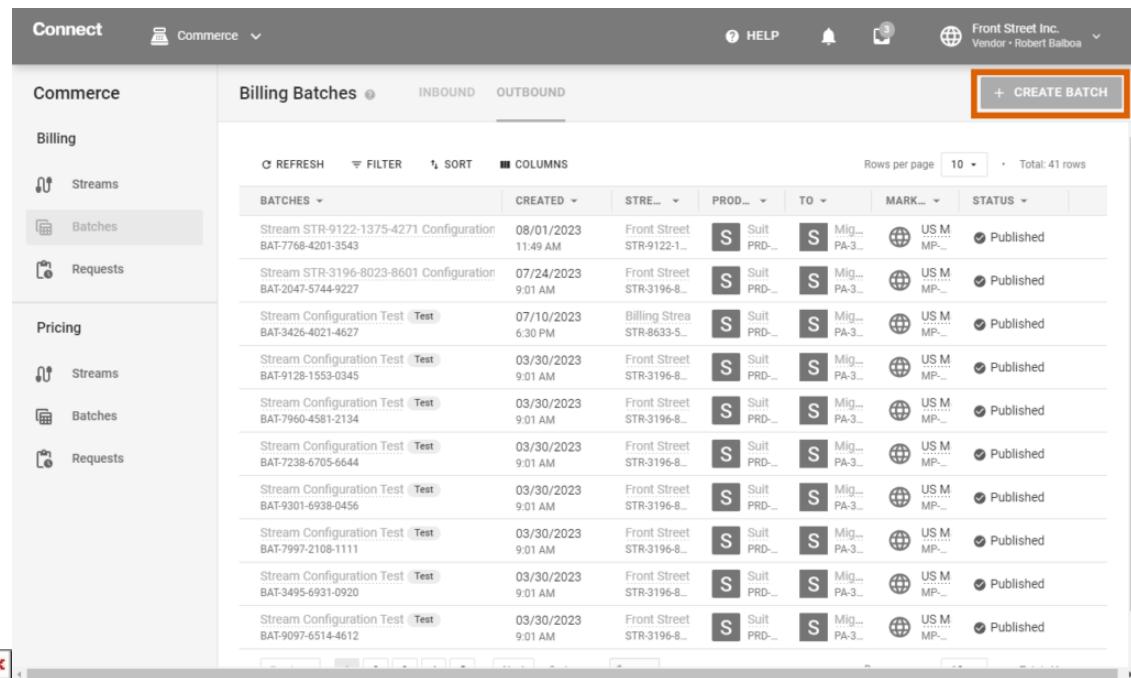
Billing batches are created and managed via the corresponding *Batches* section. Billing batches that are created by your organization are available within the *Outbound* tab. Distributors and Resellers can access incoming batches by using the *Inbound* tab.

Note that the *Inbound* tab is not available for Vendors since such accounts typically do not receive any billing batches from their business partners.

New Batch Creation

The system allows creating new billing batches by using the **Outbound** tab. Make sure to have at least one billing stream in the Active mode before starting to work with its associated batches. Note that creating billing batches is available for *Simple* streams only.

Create a new billing batch via the **Create Batch** button at the top-right corner. Consequently, use the following form to configure your new batch:

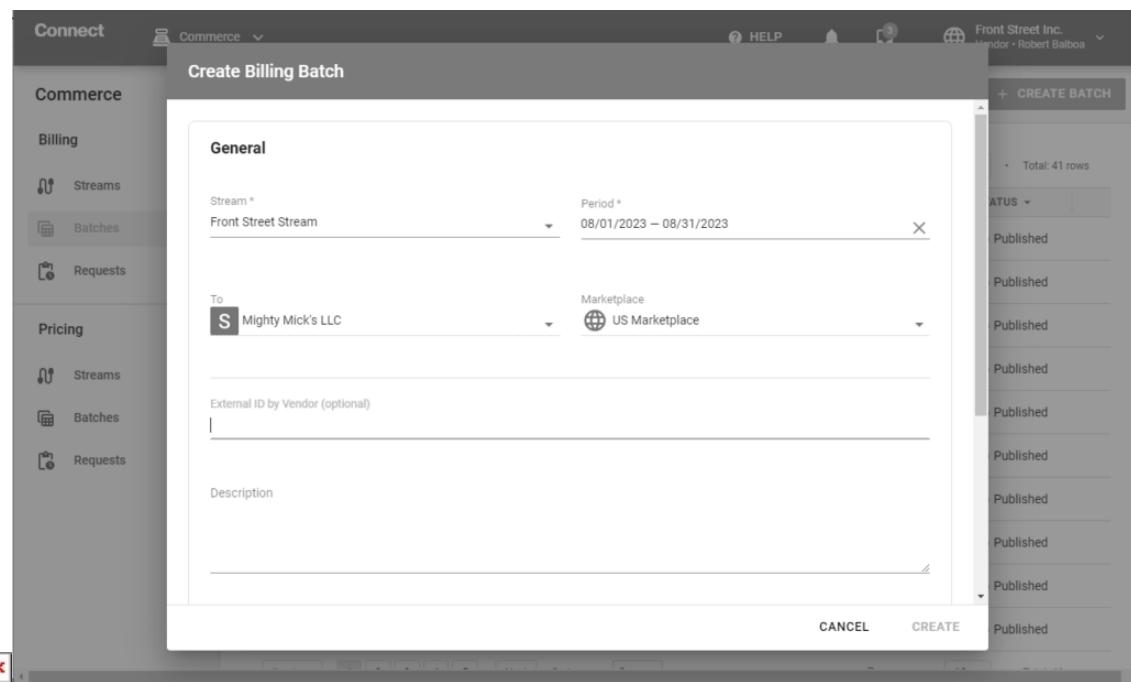


Billing Batches

REFRESH FILTER SORT COLUMNS

ROWS PER PAGE: 10 / Total: 41 rows

BATCHES	CREATED	STRE...	PROD...	TO	MARK...	STATUS
Stream STR-9122-1375-4271 Configuration BAT-7768-4201-3543	08/01/2023 11:49 AM	Front Street STR-9122-1...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream STR-3196-8023-8601 Configuration BAT-2047-5744-9227	07/24/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-3426-4021-4627	07/10/2023 6:30 PM	Billing Strea STR-8633-5...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-9128-1553-0345	03/30/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-7960-4581-2134	03/30/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-7238-6705-6644	03/30/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-9301-6938-0456	03/30/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-7997-2108-1111	03/30/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-3495-6931-0920	03/30/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published
Stream Configuration Test (Test) BAT-9097-6514-4612	03/30/2023 9:01 AM	Front Street STR-3196-8...	Suit PRD...	S Mig... PA-3...	 US M MP...	 Published



Create Billing Batch

General

Stream *: Front Street Stream

Period *: 08/01/2023 – 08/31/2023

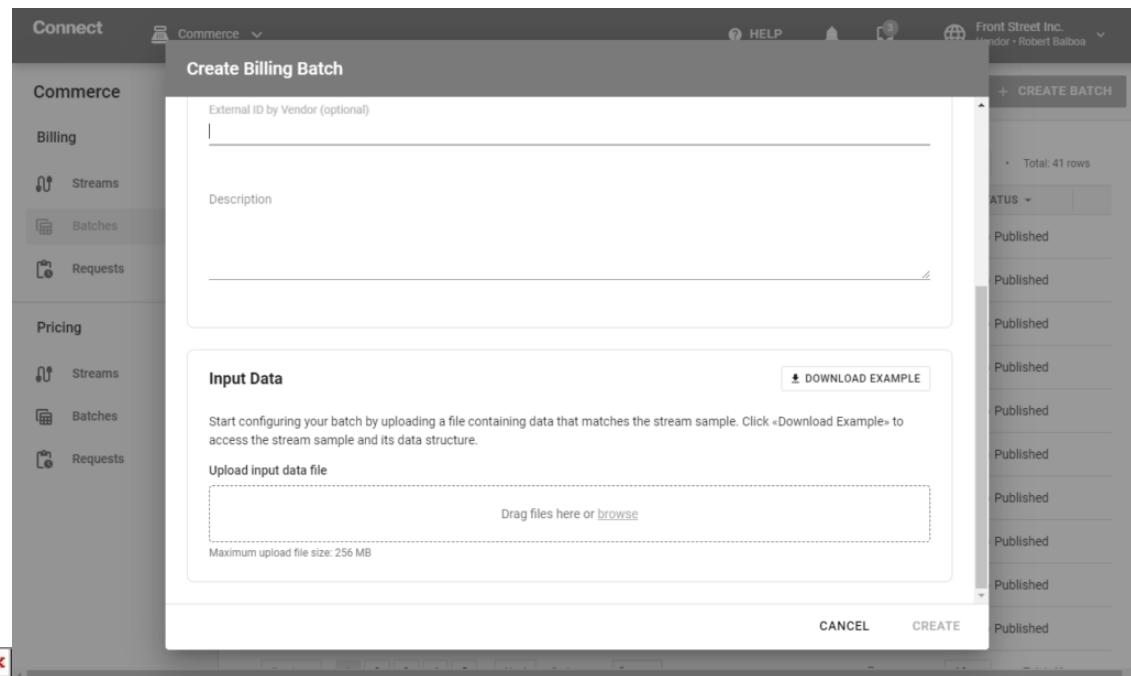
To: Mighty Mick's LLC

Marketplace: US Marketplace

External ID by Vendor (optional):

Description:

CANCEL CREATE



- **Stream:** Select a stream that is associated with your new billing batch. The system doesn't allow creating billing batches that are not linked to your stream.
- **Period:** Specify the start date and end date for your billing batch.
- **To:** Select a business partner that should receive your new billing batch. Distributors and Resellers can also select their own account to provide billing batches to their customers.
- **Marketplace:** Specify a marketplace that is associated with your new billing batch. The system allows specifying your own marketplace in case of working with your end-customers.
- **External ID by Vendor:** Enter an external identifier for your new batch that will be associated with a specific Vendor organization (optional).
- **Description:** Provide description for your new batch if necessary.
- **Input Configuration:** These options also vary depending on your selected *stream type*.
 - In case a *simple* stream is selected, the system requires to upload a spreadsheet file with billing data to the corresponding field. The interface also provides the *download example* option that can be used to learn more about expected file structure.
 - If a *computed* stream is specified, Connect will automatically collect required billing information from the *source stream*.

When the provided form is filled out, click **Create** to finalize your billing batch creation. Note that your billing batch will be automatically shared with your specified business partner in case the *automatic batch publishing* option is selected for your stream.

Your created billing batch can also be reviewed and edited by using the *Billing Batch Details* screen and published manually as



described below.

Billing Batch Details

Access the **Batch Details** screen by clicking on any available batch object from the *Inbound* or *Outbound* batches list.

This screen is used to publish your batch by sending it to your business partner and access detailed information on your selected batch, such as its status, identifier, associated marketplace, interconnected stream, and other insights.

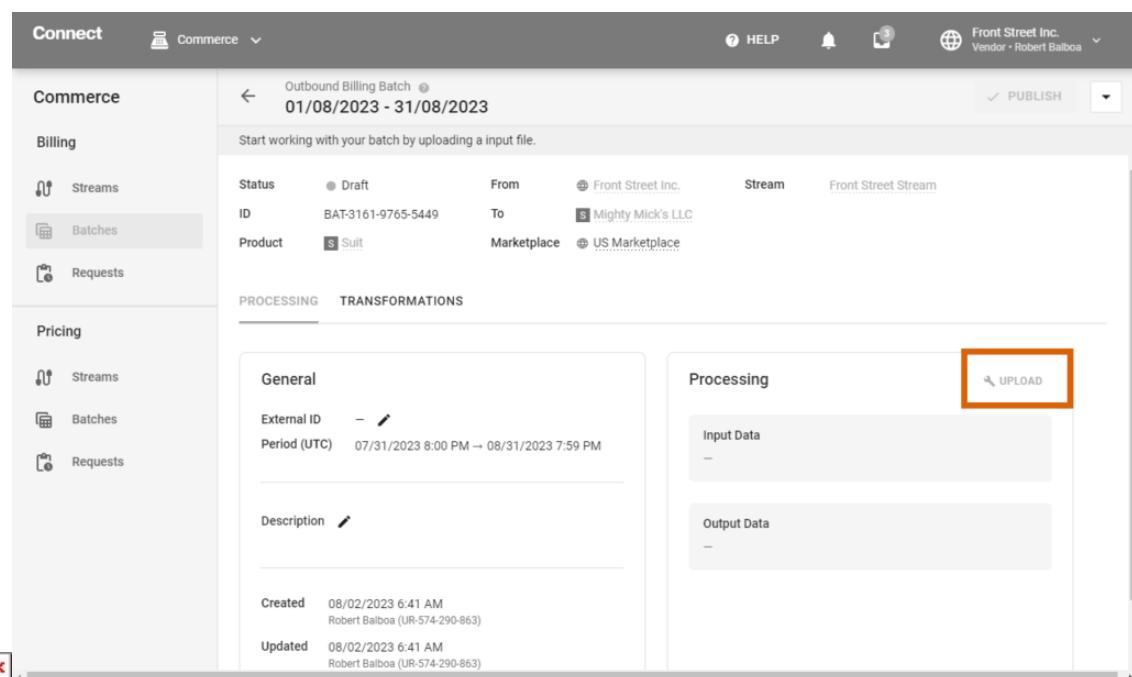
Batch details also allows accessing additional information and performing more operations with your batch object by using the following tabs:

Batches Processing

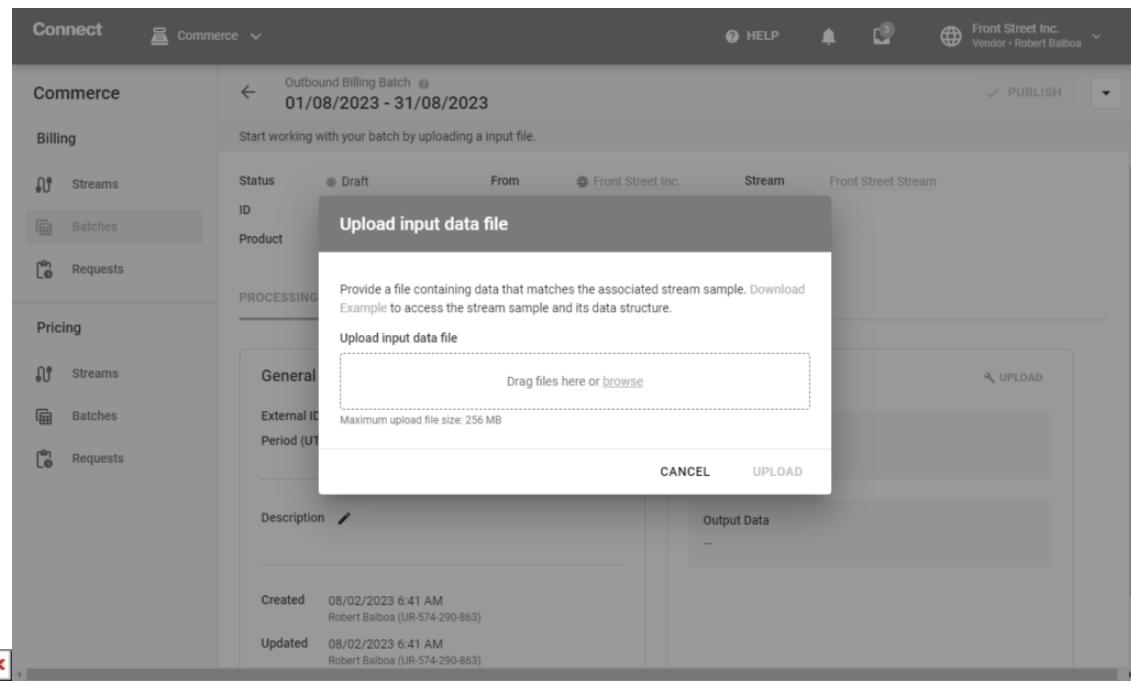
The **Processing** tab is used to upload/re-upload input data and to access general information on your selected billing batch.

The *General* widget is used to review your batch description and external identifier. It is also used to edit it such information for your created billing batches.

The *Processing* widget allows accessing input and output data for your selected billing batch. In case your input file is not uploaded to Connect, click the **Upload** button to provide your input spreadsheet file:



The screenshot shows the 'Outbound Billing Batch' screen in the Connect Commerce interface. The 'Processing' tab is active. The 'Input Data' and 'Output Data' sections are empty. The 'UPLOAD' button is highlighted with a red box.



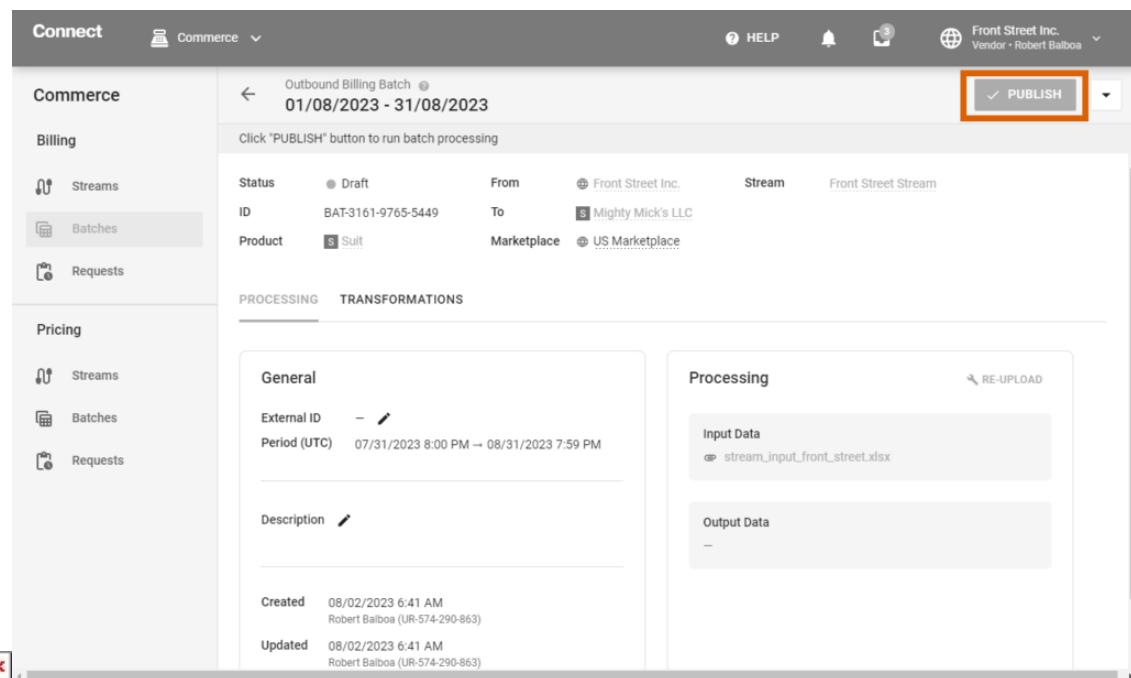
The system also allows downloading an example file to learn about the expected file structure. Note that the example file also inherits the structure of the input data of its associated billing stream.

In case it is required change or update your input file use the **Re-Upload** button from the *Settings* widget.

Publishing Batches

The system allows publishing your defined billing batches in case its associated stream is assigned to the *Active* mode.

Share your billing information with your specified business partner by clicking the **Publish** button at the top-right corner of the screen:



Connect Commerce

Commerce

Billing

Streams

Batches

Requests

Outbound Billing Batch  01/08/2023 - 31/08/2023

Click "PUBLISH" button to run batch processing

Status: Draft From: Front Street Inc.

ID: BAT-3161-9765-5449 To: Mighty Mick's LLC

Product: Suit Marketplace: US Marketplace

PROCESSING TRANSFORMATIONS

General

External ID:  Period (UTC): 07/31/2023 8:00 PM → 08/31/2023 7:59 PM

Description: 

Created: 08/02/2023 6:41 AM Robert Balboa (UR-574-290-863)

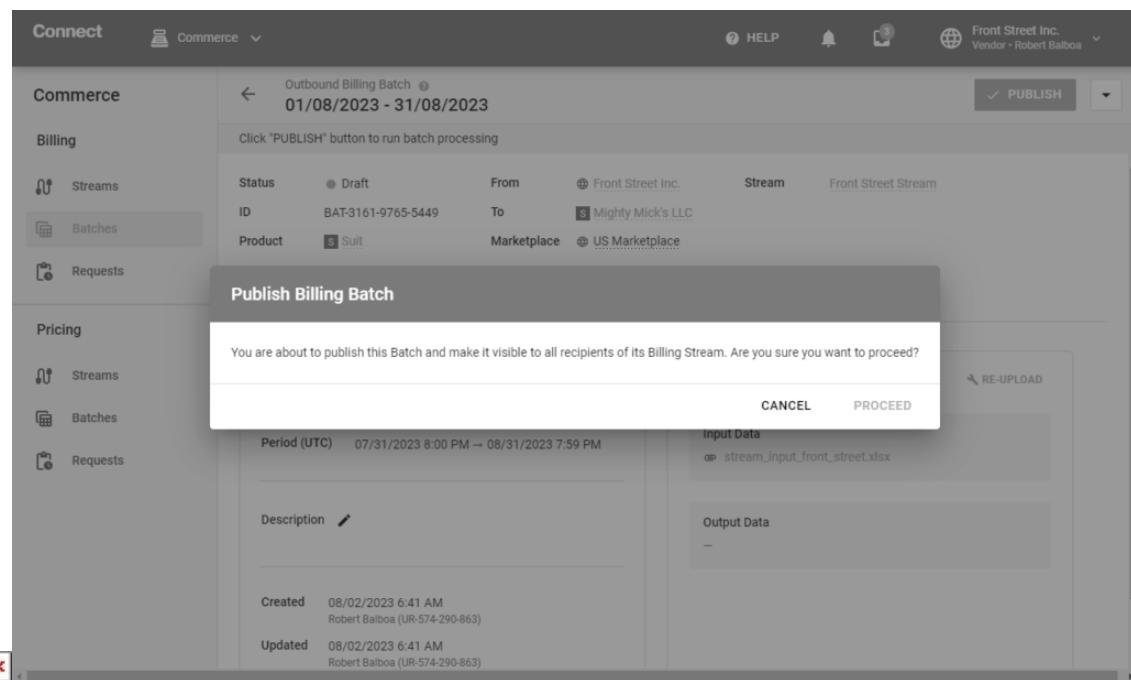
Updated: 08/02/2023 6:41 AM Robert Balboa (UR-574-290-863)

Processing 

Input Data: stream_input_front_street.xlsx

Output Data: —

PUBLISH



Connect Commerce

Commerce

Billing

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Requests

Outbound Billing Batch  01/08/2023 - 31/08/2023

Click "PUBLISH" button to run batch processing

Status: Draft From: Front Street Inc.

ID: BAT-3161-9765-5449 To: Mighty Mick's LLC

Product: Suit Marketplace: US Marketplace

Publish Billing Batch

You are about to publish this Batch and make it visible to all recipients of its Billing Stream. Are you sure you want to proceed?

PROCEED **CANCEL**

Period (UTC): 07/31/2023 8:00 PM → 08/31/2023 7:59 PM

Description: 

Created: 08/02/2023 6:41 AM Robert Balboa (UR-574-290-863)

Updated: 08/02/2023 6:41 AM Robert Balboa (UR-574-290-863)

Processing 

Input Data: stream_input_front_street.xlsx

Output Data: —

PUBLISH

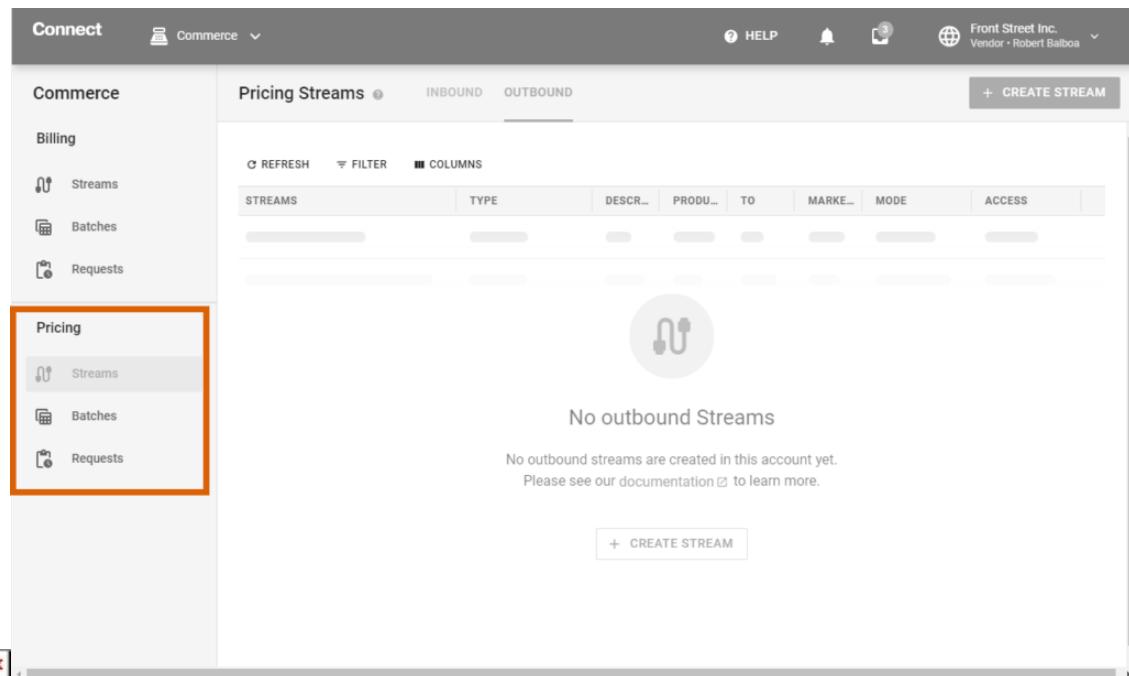


The screenshot shows the Commerce Module Interface with the 'Billing' section selected. A specific 'Outbound Billing Batch' is viewed, dated 01/08/2023 - 31/08/2023. The 'Processing' tab is active, showing the input file 'stream_input_front_street.xlsx' and a message indicating the file is being processed. The 'Output Data' section is highlighted with a red box and displays the message 'File is processing, please wait'.

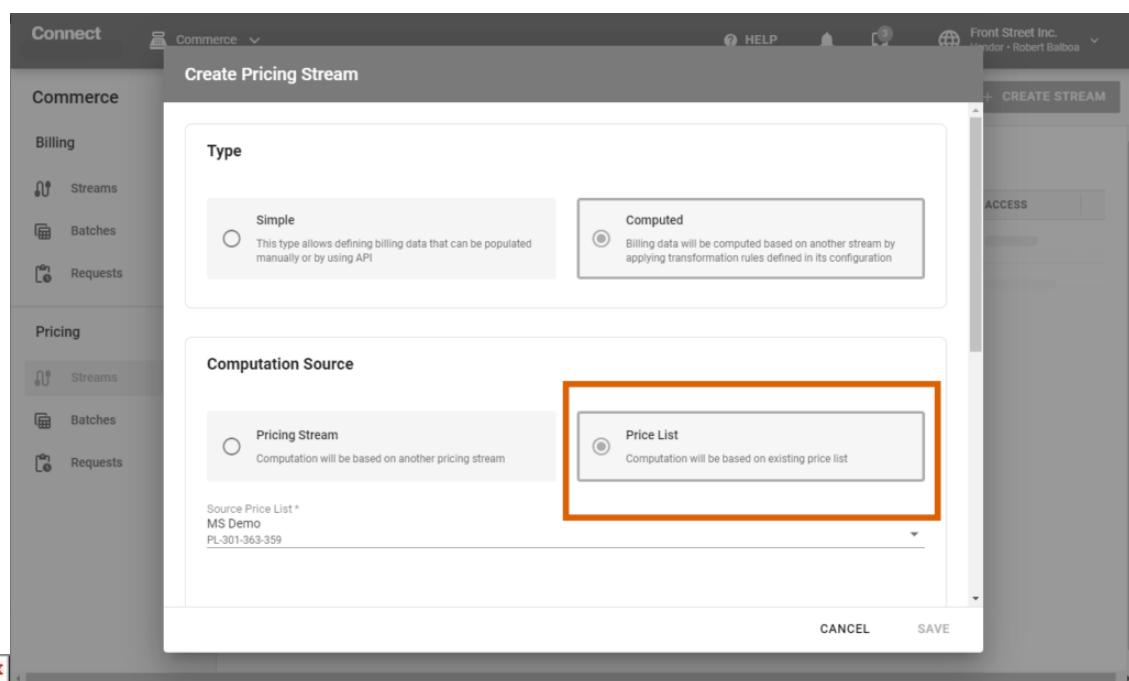
As a result, the system will start processing your published batch. Once your billing batch is assigned to the *Ready* status, your business partner will receive your billing information. Review your *output file* by using the **Processing** tab of the *Billing Details* screen.

Pricing Streams

The Commerce module also allows you to create Pricing streams using price lists from the Pricing module as a source for **Computed** streams in the *Pricing* section:



The screenshot shows the 'Pricing Streams' section of the Commerce module. The left sidebar is titled 'Commerce' and includes 'Billing' and 'Pricing' sections. Under 'Pricing', 'Streams' is selected and highlighted with an orange box. The main area is titled 'Pricing Streams' with tabs for 'INBOUND' and 'OUTBOUND'. A 'REFRESH' button, a 'FILTER' button, and a 'COLUMNS' button are at the top. A table header row includes columns for 'STREAMS', 'TYPE', 'DESCR...', 'PRODU...', 'TO', 'MARKE...', 'MODE', and 'ACCESS'. Below the table, a large circular icon with a lock symbol contains the text 'No outbound Streams'. A message below the icon states: 'No outbound streams are created in this account yet. Please see our documentation [link](#) to learn more.' A 'CREATE STREAM' button is at the bottom right.



The screenshot shows the 'Create Pricing Stream' dialog. The left sidebar is the same as the previous screenshot. The main dialog has a title 'Create Pricing Stream'. The 'Type' section contains two radio button options: 'Simple' (unchecked) and 'Computed' (checked). The 'Computed' option is described as: 'Billing data will be computed based on another stream by applying transformation rules defined in its configuration'. The 'Computation Source' section contains two radio button options: 'Pricing Stream' (unchecked) and 'Price List' (checked). The 'Price List' option is described as: 'Computation will be based on existing price list'. A dropdown menu for 'Source Price List' shows 'MS Demo' and 'PL-301-363-359'. At the bottom are 'CANCEL' and 'SAVE' buttons.



Connect Commerce

Create Pricing Stream

General

Name *
Front Street Stream

Product **S** Suit

Partner **S** Mighty Mick's LLC

Marketplace **US Marketplace**

Currency USD

Description (optional)

0 / 2048

CANCEL SAVE

Connect Commerce

Pricing Stream Details Front Street Stream

Your stream is validated successfully. Switch to the Active mode to create new batches.

Mode **Configuring**

ID STR-6319-4753-4185

From **Front Street Inc.**

To **Mighty Mick's LLC**

Type **Computed**

Source **MS Demo**

Product **Suit**

Marketplace **US Marketplace**

CONFIGURATION BATCHES COLUMNS TRANSFORMATIONS ATTACHMENTS

General

Listing LST-677-698-647

Contract CRD-87306-88095-58951

Description

Created 08/02/2023 1:20 PM
Robert Balboa (UR-574-290-863)

Updated 08/02/2023 1:20 PM

Settings

Input Data PLV-301-363-359-0002.xlsx

Test Batch BAT-3563-2777-7572

Output Data STR-6319-4753-4185-out.xlsx

RUN TEST SWITCH MODE MANAGE SHARING

If a new version of the price list becomes available in the Pricing module and has the **Active** status, the batch will be processed automatically.

You can scale your billing operations by configuring as many streams as required, including one stream per each Marketplace, and these streams can be processed simultaneously.