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Documentation 🗙 Modules 🔀 Streams 🗙

# **Commerce Module** Interface

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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

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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:

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Commerce	Billing Streams   INBOUND OUTBOUND		+ CREATE STREAM
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Commerce		+ CREATE STRE/
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€ Streams		10 • • Total: 2
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			lata that will serve as a template	
	for billing batches. Click «Download Example» to le		lata that will serve as a template	

- **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**

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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.

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<b>∭</b> Streams	Mode S Configuring From	Front Street Inc.     Type	Simple
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Batches	Listing LST-677-698-647		
Requests	Contract CRD-87306-88095-58951	Input Data @ demo_6.xlsx	
	Description	Test Batch	
	Description jkk	Test Batch BAT-2047-5744-9227 🕥	
	jkk	BAT-2047-5744-9227 🕥	
			out.xlsx

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:

August 30, 2025

Commerce	← Billing Stream Details Front Street Stream  Private	RUN TEST SWITCH MODE MANAGE SHARING
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<b>Ω</b> <sup>®</sup> Streams	Upload input data file		Simple
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Co Requests	will serve as a template for batches. expected file structure. CONFIGURAT	Download Example to learn more about the	
Pricing	Please note that columns will configuration based on the in	I be <b>added and removed</b> from the stream put data.	
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Co Requests	Maximum upload file size: 5 MB		
	Descriptio -	CANCEL UPLOAD	
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	Created 08/01/2023 11:16 AM Robert Balboa (UR-574-290-863)	Output Data © STR-9122-1375-4271-out.xlsx
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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:

Commerce	← Billing Stream Details ⊘		RUN TEST	SWITCH MODE	MANAGE SHARING
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Connect 🚊 cor	nmerce v	Copyright Ingram Micro Cloud 2022	0. 28.0.870-gb4137e0	<b>≜</b> ₫	Front Street Inc. Vendor - Robert Balboa
Connect <u>a</u> cor Commerce	nmerce V	Copyright Ingram Micro Cloud 2022		SWITCH MODE	Front Street Inc. Vendor - Robert Balboa MANAGE SHARING
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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**

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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:

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• 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:

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Commerce	← Billing Stream Details Front Street Stream  Pr	ivate	RUN TEST SWITC	CH MODE MANAGE	SHARING
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		Copyright Ingram Micro Cio	ud 2023. 28.0.870-gb4137e0		

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:

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d and can be shared with your partner. Note that sha	ared streams cannot be set back to pri	vate state. Simple 
re Billing Stream With Distributor	· · · ·	Simple 
Private Stream is only visible to users of this account.		
Shared Stream for Suit is visible to Mighty Mick's LLC via the fol 647.	ollowing listing: LST-677-698-	+ CREAT
	CANCEL APPLY	Rows per page 10 • Total: 1 m
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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.

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## 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:

Commerce	Billing Batches	UTBOUND					+ CREATE BA
Billing	C REFRESH ≂ FILTER 1, SORT	COLUMNS			F	Rows per page 10	0 ▼ • Total: 41 row
Streams	BATCHES -	CREATED -	STRE 👻	PROD	T0 -	MARK •	STATUS -
Batches	Stream STR-9122-1375-4271 Configuration BAT-7768-4201-3543	08/01/2023 11:49 AM	Front Street STR-9122-1	S Suit PRD	S Mig PA-3	US M	Published
Contract Requests	Stream STR-3196-8023-8601 Configuration BAT-2047-5744-9227	07/24/2023 9:01 AM	Front Street STR-3196-8	S Suit PRD	S Mig PA-3	US M	Published
Pricing	Stream Configuration Test BAT-3426-4021-4627	07/10/2023 6:30 PM	Billing Strea STR-8633-5	S Suit PRD	S Mig PA-3_	US M	Published
<b>∬</b> Streams	Stream Configuration Test Test BAT-9128-1553-0345	03/30/2023 9:01 AM	Front Street STR-3196-8	S Suit PRD	S Mig PA-3	US M	Published
Batches	Stream Configuration Test Test BAT-7960-4581-2134	03/30/2023 9:01 AM	Front Street STR-3196-8	S Suit PRD	S Mig PA-3	US M	Published
Requests	Stream Configuration Test Test BAT-7238-6705-6644	03/30/2023 9:01 AM	Front Street STR-3196-8	S Suit PRD	S Mig PA-3	US M	Published
	Stream Configuration Test Test BAT-9301-6938-0456	03/30/2023 9:01 AM	Front Street STR-3196-8	S Suit PRD	S Mig PA-3	US M	Published
	Stream Configuration Test Test BAT-7997-2108-1111	03/30/2023 9:01 AM	Front Street STR-3196-8	S Suit PRD	S Mig PA-3	US M	Published
	Stream Configuration Test BAT-3495-6931-0920	03/30/2023 9:01 AM	Front Street STR-3196-8	S Suit PRD	S Mig PA-3	US M	Published
	Stream Configuration Test Test BAT-9097-6514-4612	03/30/2023 9:01 AM	Front Street STR-3196-8_	S Suit	S Mig	US M	Published

Connect	Commerce V	HELP  Front Street Inc. Mendor - Robert Balboa
Commerce	Create Billing Batch	+ CREATE BATCH
Billing	General	
Streams	Stream * Period *	- Total: 41 rows
Batches Requests	Front Street Stream  v 08/01/20	223 - 08/31/2023 X Published
Pricing	To Marketpli	Arketplace Published Published
€ Streams		Published
Batches	External ID by Vendor (optional)	Published
🕒 Requests		Published
	Description	Published
		Published Published
		CANCEL CREATE Published

	Create Billing Batch	
ommerce	External ID by Vendor (optional)	+ CREATE B
lling	<u> </u>	
Streams		Total: 41 ros
	Description	ATUS -
		Published
Requests		Published
ricing		Published
Streams	Input Data	Published
Batches	Start configuring your batch by uploading a file containing data that matches the stream sample. Click «Download Example» to	Published
Requests	access the stream sample and its data structure.	Published
	Upload input data file	Published
	Drag files here or <u>browse</u>	Published
	Maximum upload file size: 256 MB	
		Published
	CANCEL CREAT	Published

- **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:

Connect 🚊 Comme	sice 🗸	🕜 HELP	Front Street Inc. Vendor • Robert Balboa
Commerce	← Outbound Billing Batch 01/08/2023 - 31/08/2023		V PUBLISH
Billing	Start working with your batch by uploading a input file.		
Streams	Status         Draft         From           ID         BAT-3161-9765-5449         To	Front Street Inc. Stream     Mighty Mick's LLC	Front Street Stream
Batches Batches Requests	Product Suit Marketplace	US Marketplace	
Pricing	PROCESSING TRANSFORMATIONS		
<b>∭</b> Streams	General	Processing	🔍 UPLOAD
Batches	External ID – ✓ Period (UTC) 07/31/2023 8:00 PM → 08/31/2023 7	59 PM –	
	Description 🖌	Output Data _	
	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)		

Connect 🚊 🗠					e	Front Street Inc. Vendor • Robert Balboa
Commerce	← Outbound Billing Batcl 01/08/2023 - 3					
Billing	Start working with your batch	y uploading a input file.				
Streams	Status    Draft	From	Stream			
	ID Upload i Product	nput data file				
Requests	Provide a fil	containing data that matches the associated s	tream sample. Download			
Pricing		ccess the stream sample and its data structure		ł		
<b>∬</b> Streams	General	Drag files here or <u>browse</u>				A UPLOAD
Batches		ad file size: 256 MB		)		
Co Requests	Period (UT	с	ANCEL UPLOAD			
	Description		Output Data			
	Created 08/02/2023 6 Robert Balboa (I					
	Updated 08/02/2023 6 Robert Balboa (l					

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 🚊 Comme	erce 🗸	🛛 HELP 🌲 🔮	Front Street Inc. Vendor • Robert Balboa
Commerce	← Outbound Billing Batch 01/08/2023 - 31/08/2023		V PUBLISH
Billing	Click "PUBLISH" button to run batch processing		
<b>∬</b> <sup>●</sup> Streams	Status   Draft From	Front Street Inc.     Stream Front Street Street	am
Batches	ID BAT-3161-9765-5449 To Product Suit Marketplace	Mighty Mick's LLC     US Marketplace	
Requests	PROCESSING TRANSFORMATIONS		
Pricing			
<b>∭</b> Streams	General	Processing	🔦 RE-UPLOAD
Batches	External ID –	Input Data	
Co Requests	Period (UTC) 07/31/2023 8:00 PM → 08/31/2023 7:5	PM     Stream_input_front_street.xlsx	
	Description 🖌	Output Data _	
	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)		

Commerce		bound Billing Batch						
		/08/2023 - 31/08/20						
Billing	Click "PUBLI	ISH" button to run batch proce	essing					
Streams	Status	Draft	From	Front Street Inc.	Stream			
	ID	BAT-3161-9765-5449	То	S Mighty Mick's LLC				
	Product	s Suit	Marketplace	US Marketplace				
Requests								
Pricing		t to publish this Batch and ma	ake it visible to all re	ecipients of its Billing St	ream. Are you sure y	ou want to proceed		
Pricing Of Streams			ake it visible to all re	ecipients of its Billing St	ream. Are you sure y CANCEI		4	, RE-UPLOAD
€ Streams		t to publish this Batch and ma				PROCEED	4	, RE-UPLOAD
€ Streams	You are about Period (	t to publish this Batch and ma			CANCE!	PROCEED	4	, RE-UPLOAD

Connect 🚊 Comm	erce 🗸	HELP     HELP     HELP     Front Street Inc.     Vendor - Robert Balboa
Commerce	← Outbound Billing Batch  01/08/2023 - 31/08/2023	
Billing	Batch's processing was started. Please wait.	
<b>∬</b> Streams	Status 🔿 0% done From	Front Street Inc. Stream Front Street Stream
Batches	ID BAT-3161-9765-5449 To Product Suit Marketplace	S Mighty Mick's LLC US Marketplace
<b>C</b> Requests	PROCESSING TRANSFORMATIONS	
Pricing		
Streams	General	Processing
Batches	External ID – Period (UTC) 07/31/2023 8:00 PM → 08/31/2023 7:	59 PM Input Data @ stream_input_front_street.xlsx
🕒 Requests		
	Description	Output Data <ul> <li>File is processing, please wait</li> </ul>
	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)	

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:

Connect 🚊 🕫	nmerce 🗸		🕐 HELP		3	Front Street Inc. Vendor • Robert Balboa
Commerce	Pricing Streams	JND OUTBOUND				+ CREATE STREA
Billing	CIREFRESH ⊽ FILTER MI COLUI					
∬ Streams	STREAMS	TYPE DESCR P	PRODU TO	MARKE	MODE	ACCESS
Batches						
Requests						
Pricing	1	ຄ	Ĵ			
<b>∭</b> Streams						
Batches		No outboun	d Streams			
Requests	J	No outbound streams are co Please see our documen				
		+ CREATE	STREAM			
					_	

Commerce	Create Pricing Stream	+ CREATE STR
Billing	Туре	
1 Streams		ACCESS
Batches	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
Requests	manually or by using AP1	appiying transformation rules defined in its configuration
Pricing		
1 Streams	Computation Source	
Batches	<ul> <li>Pricing Stream</li> </ul>	Price List
Co Requests	Computation will be based on another pricing stream	Computation will be based on existing price list
	Source Price List * MS Demo PL:301-363-359	
	-Fran 1400-938	

Connect		HELP     Ford Street Inc.     Held P      Held P
Commerce	Create Pricing Stream	+ CREATE STREAT
Billing	General	
Streams	Name * Front Street Stream	ACCESS
Batches		19 / 256
Requests	Product Partner S Suit S Mig	ghty Mick's LLC 👻
Pricing	Marketplace Currency	
1 Streams	US Marketplace USD	
Batches		
Requests	Description (optional)	
		0 / 2048
		-
		CANCEL SAVE

Commerce	Pricing Stream Details ()         Private         RUN TEST         SWITCH MODE         MANAGE SHARING
Billing	Your stream is validated successfully. Switch to the Active mode to create new batches.
<b>∭</b> Streams	Mode         © Configuring         From         © Front Street Inc.         Type         Computed           ID         STR-6319-4753-4185         To         I Michty Micks LLC         Source         MS Demo
Batches	ID         STR-6319-4753-4185         To         Image: Mighty Micks LLC         Source         MS Demo           Product         Image: Suit         Marketplace         Image: Outplace         Image:
[ <sup>e</sup> ¶ Requests	CONFIGURATION BATCHES COLUMNS TRANSFORMATIONS ATTACHMENTS
Pricing	
<b>∭</b> Streams	General Settings
Streams Batches	Listing LST-677-698-647
	y-
Batches	Listing LST-677-698-647 Input Data

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.