



<https://cloudblue.com>

Documentation Modules Usage

Usage - Vendor Portal

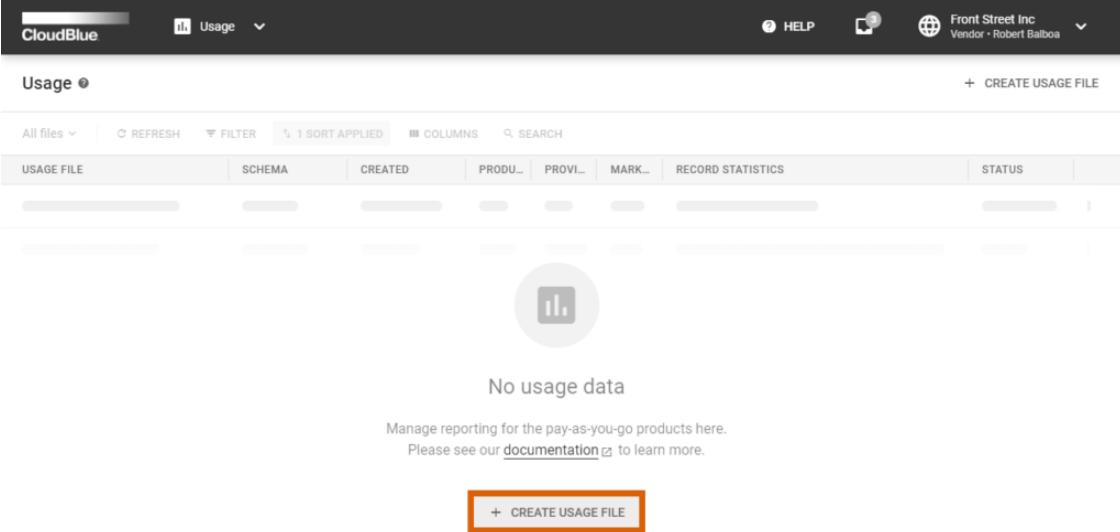


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Auto-generated at January 14, 2026

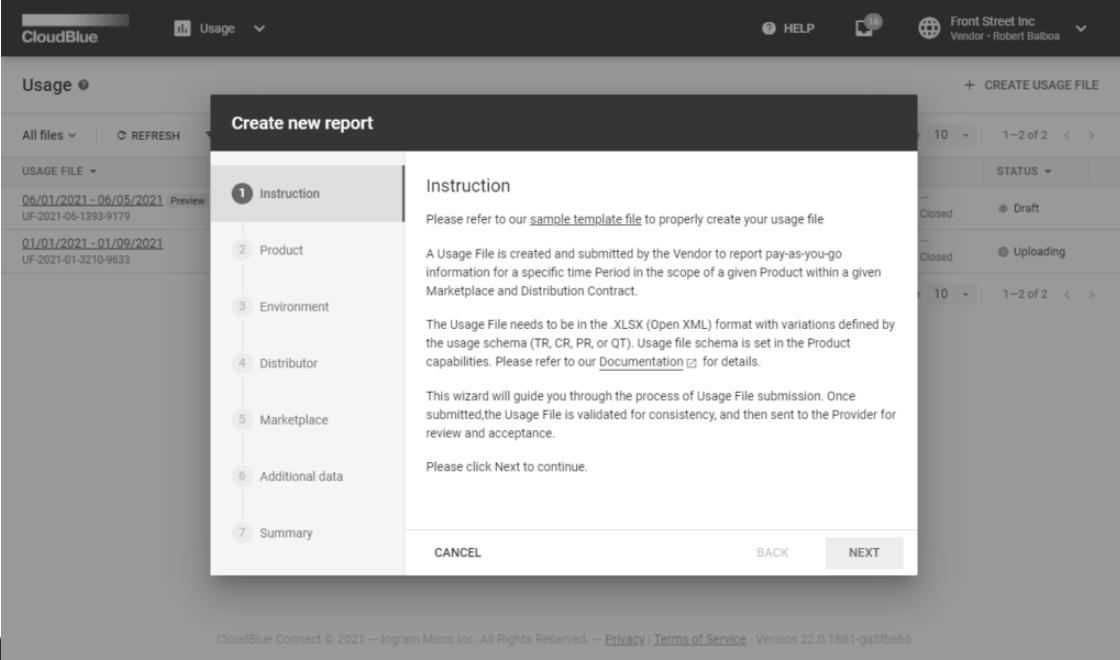
Usage Report Creation

Vendors can create usage report objects by accessing the **Usage** module from the CloudBlue Connect Portal.



The screenshot shows the CloudBlue Connect Usage module. The top navigation bar includes the CloudBlue logo, a 'Usage' dropdown, a 'Help' link, and a user account for 'Front Street Inc'.

The main content area is titled 'Usage' with a sub-section 'No usage data'. It features a large circular icon with a bar chart. Below the icon, the text 'No usage data' is displayed, followed by the message 'Manage reporting for the pay-as-you-go products here. Please see our [documentation](#) to learn more.' A prominent orange-outlined button labeled '+ CREATE USAGE FILE' is centered at the bottom of the main content area.



The screenshot shows the 'Create new report' wizard. The title bar says 'Create new report'.

The left sidebar lists steps: 1. Instruction, 2. Product, 3. Environment, 4. Distributor, 5. Marketplace, 6. Additional data, 7. Summary. Step 1 is highlighted.

The main content area for step 1 is titled 'Instruction'. It contains the following text:

Please refer to our [sample template file](#) to properly create your usage file

A Usage File is created and submitted by the Vendor to report pay-as-you-go information for a specific time Period in the scope of a given Product within a given Marketplace and Distribution Contract.

The Usage File needs to be in the .XLSX (Open XML) format with variations defined by the usage schema (TR, CR, PR, or QT). Usage file schema is set in the Product capabilities. Please refer to our [Documentation](#) for details.

This wizard will guide you through the process of Usage File submission. Once submitted, the Usage File is validated for consistency, and then sent to the Provider for review and acceptance.

Please click Next to continue.

At the bottom are 'CANCEL', 'BACK', and 'NEXT' buttons.

The status bar at the bottom of the screen shows 'CloudBlue Connect © 2021 – Ingram Micro Inc. All Rights Reserved. – [Privacy](#) | [Terms of Service](#) - Version 22.0.1881-ga3fbe66'.

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 CloudBlue Usage

 HELP  Front Street Inc
Vendor - Robert Balboa

Create new report

Usage

All files  REFRESH

USAGE FILE 

06/01/2021 - 06/05/2021  Preview
UF-2021-06-1393-9179

01/01/2021 - 01/09/2021  Preview
UF-2021-01-3210-9633

Instruction

Product

Environment

4 Distributor

Marketplace

Additional data

Summary

Select a distributor

 Mighty Mick's LLC
PA-995-631

 BACK 

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 CloudBlue Usage

 HELP  Front Street Inc
Vendor - Robert Balboa

Create new report

Usage

All files  REFRESH

USAGE FILE 

03/01/2021 - 04/01/2021  Preview
UF-2021-04-2908-9363

01/01/2021 - 01/22/2021  Preview
UF-2021-01-8336-0530

Instruction

Product

Environment

Distributor

5 Marketplace

Additional data

Summary

Select a marketplace

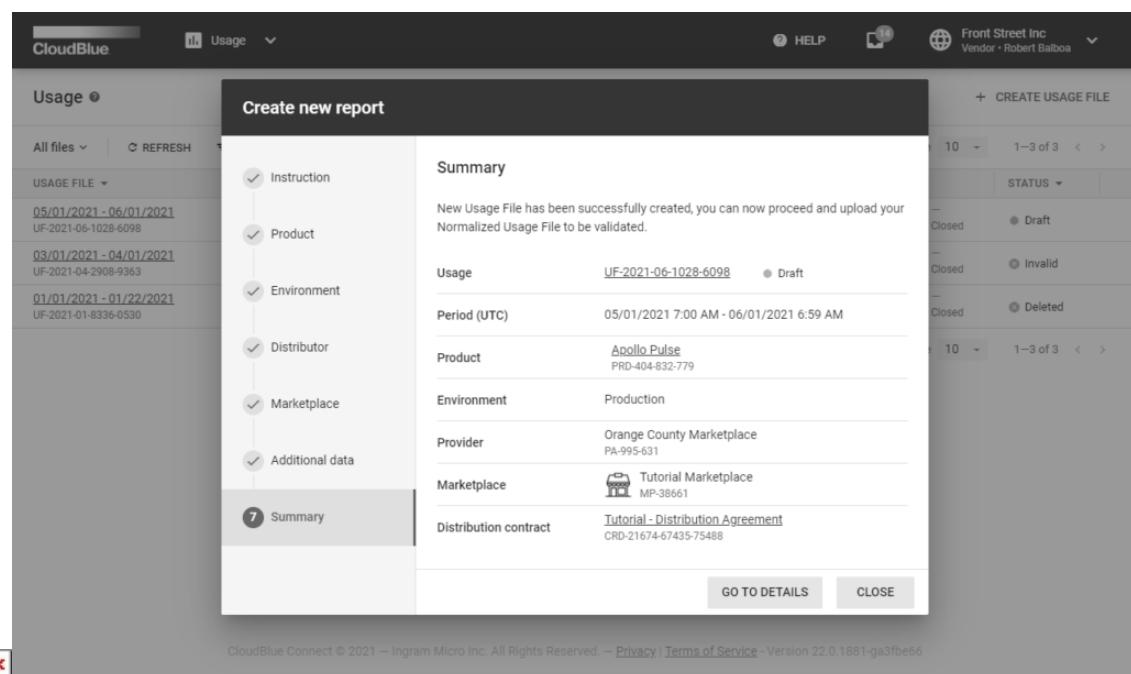
 Tutorial
MP-38661  USD United States Dollar, \$ Listed

 BACK 

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 GO'. The 'External ID' is 'U001'. The right panel shows a list of usage files with 'Status' filters for 'Invalid' and 'Deleted'." data-bbox="147 104 859 402"/>

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Click the **Create Usage File** button to launch a multi-step wizard. Follow the wizard steps to successfully create a new usage report object:

1. **Instruction:** The wizard provides an overview and a report template download link. Download the template by clicking on the contextual template file link. Thereafter, click *Next* to continue.



2. **Product:** Select a product that supports required Capabilities.
3. **Environment:** Specify your environment in the following form:
 - **Internal testing (preview):** Use this environment for testing and previewing the Usage module functionality. Thus, Distributors will not receive your uploaded usage report file.
 - **Production:** Select this environment for production scenarios. Therefore, Distributors can review, extract and use submitted data to bill their customers. Note that while it's technically possible to include *test/preview* subscriptions into the report file, it is recommended to include only *production subscriptions* in this scenario.
4. **Distributor:** Choose your Distributor in the following form.
5. **Marketplace:** Select a marketplace that includes your product.
6. **Additional data:** Specify the following additional data:
 - **Currency:** Choose a required currency. Note that specified marketplace can predefine the selected currency.
 - **Time zone:** Select a required time zone.
 - **Period:** Specify usage report time period.
 - **Description:** Enter your usage report instance description.
 - **External ID:** Enter an external identifier of your usage report instance.
7. **Summary:** Once Vendors click the *Create* button, the system generates a report instance and provides a summary as a final step.

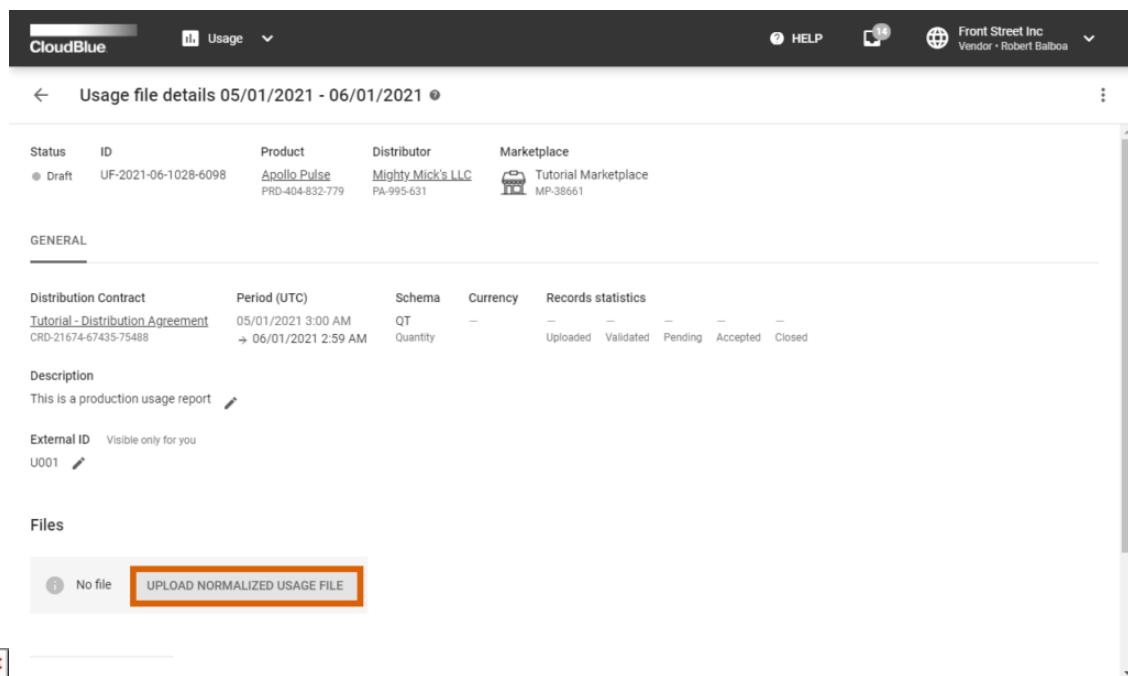
Therefore, the system generates a usage record object that can be used to upload required data and subsequently pass this data to your business partners as described below.

Template File Overview

Usage data is reported by using a spreadsheet in the XLSX format. The same file format is used for both manual and automated workflows. This spreadsheet is logically similar to CDR (Call Detail Record) files that are traditionally used in the telecommunication industry.

The Connect platform helps Vendors submit the usage data to their Distributors via specific *template files*. These template files can be downloaded from the creation wizard on the **Instruction** step as described above.

Alternatively, download the template by clicking the **Upload Normalized Usage File** button from the **Usage Details** screen. Thereafter, click on the contextual template file link to download it.



← Usage file details 05/01/2021 - 06/01/2021 ⏪

Status	ID	Product	Distributor	Marketplace
Draft	UF-2021-06-1028-6098	Apollo Pulse PRD-404-832-779	Mighty Mick's LLC PA-995-631	 Tutorial Marketplace MP-38661

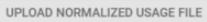
GENERAL

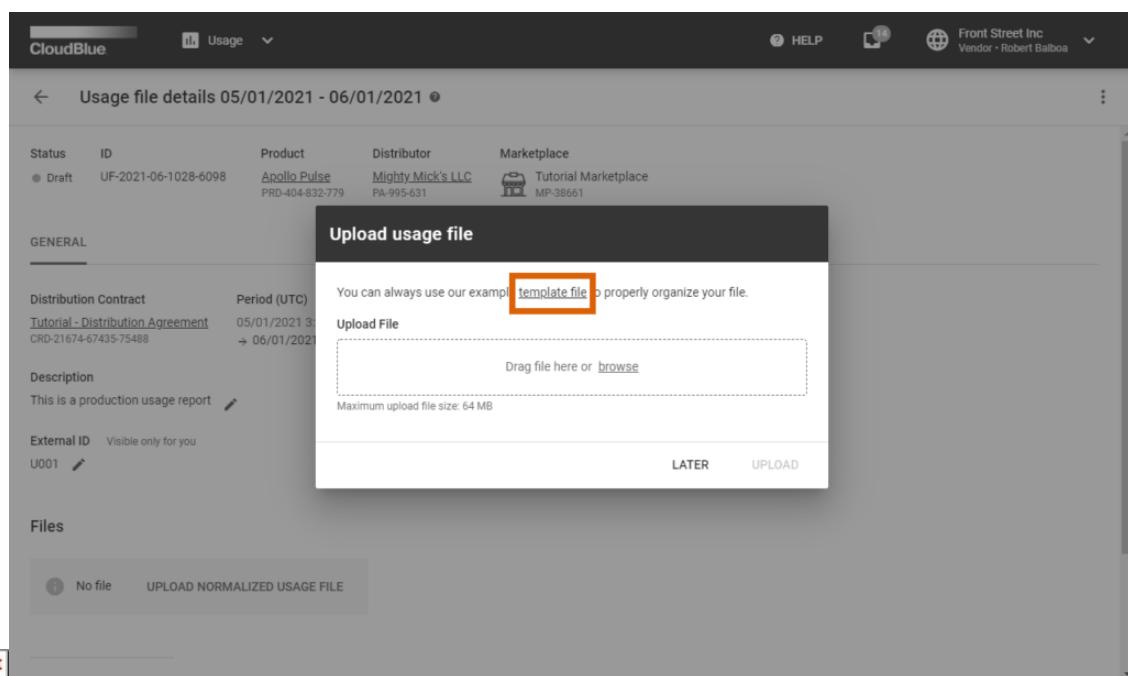
Distribution Contract	Period (UTC)	Schema	Currency	Records statistics
Tutorial - Distribution Agreement CRD-21674-67435-75488	05/01/2021 3:00 AM → 06/01/2021 2:59 AM	QT	—	— Uploaded — Validated — Pending — Accepted — Closed

Description
This is a production usage report 

External ID Visible only for you
U001 

Files

No file  UPLOAD NORMALIZED USAGE FILE



← Usage file details 05/01/2021 - 06/01/2021 ⏪

Status	ID	Product	Distributor	Marketplace
Draft	UF-2021-06-1028-6098	Apollo Pulse PRD-404-832-779	Mighty Mick's LLC PA-995-631	 Tutorial Marketplace MP-38661

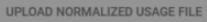
GENERAL

Distribution Contract	Period (UTC)	Schema	Currency	Records statistics
Tutorial - Distribution Agreement CRD-21674-67435-75488	05/01/2021 3:00 AM → 06/01/2021 2:59 AM	QT	—	— Uploaded — Validated — Pending — Accepted — Closed

Description
This is a production usage report 

External ID Visible only for you
U001 

Files

No file  UPLOAD NORMALIZED USAGE FILE

Upload usage file

You can always use our example [template file](#) to properly organize your file.

Upload File

Drag file here or [browse](#)

Maximum upload file size: 64 MB

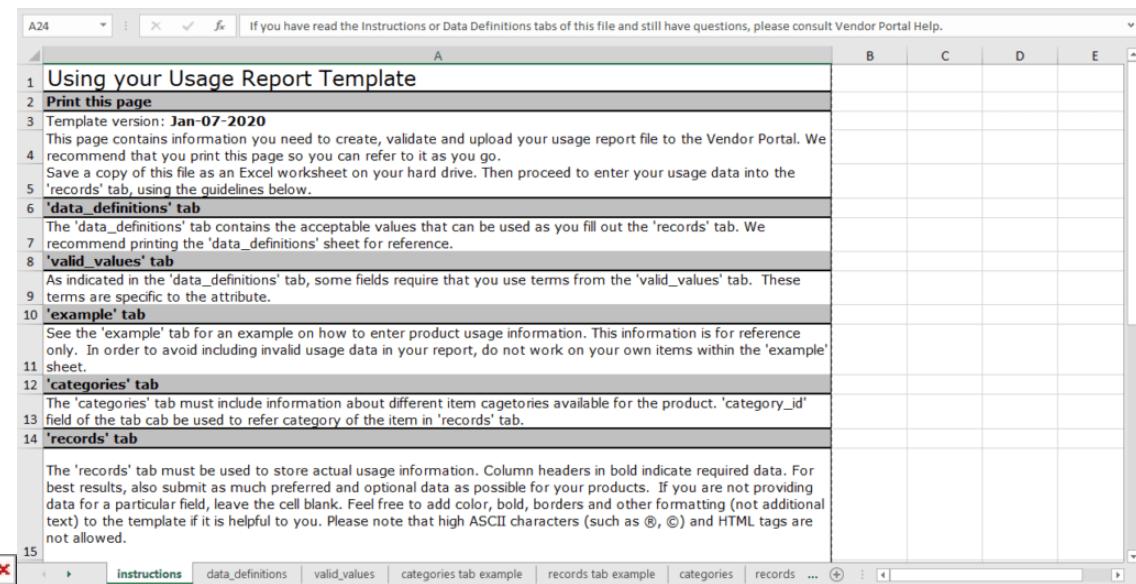
LATER **UPLOAD**

Note

In case you do not want to use the template file, you can create a spreadsheet file that should include the *records* tab and can include *categories* tab. Furthermore, make sure

that these tabs includes your specified data and your file is saved in the **XLSX** format.

The provided usage template represents a spreadsheet file that contains multiple tabs:



1 **Using your Usage Report Template**

2 **Print this page**

3 Template version: **Jan-07-2020**

4 This page contains information you need to create, validate and upload your usage report file to the Vendor Portal. We recommend that you print this page so you can refer to it as you go.

5 Save a copy of this file as an Excel worksheet on your hard drive. Then proceed to enter your usage data into the 'records' tab, using the guidelines below.

6 **'data_definitions' tab**

7 The 'data_definitions' tab contains the acceptable values that can be used as you fill out the 'records' tab. We recommend printing the 'data_definitions' sheet for reference.

8 **'valid_values' tab**

9 As indicated in the 'data_definitions' tab, some fields require that you use terms from the 'valid_values' tab. These terms are specific to the attribute.

10 **'example' tab**

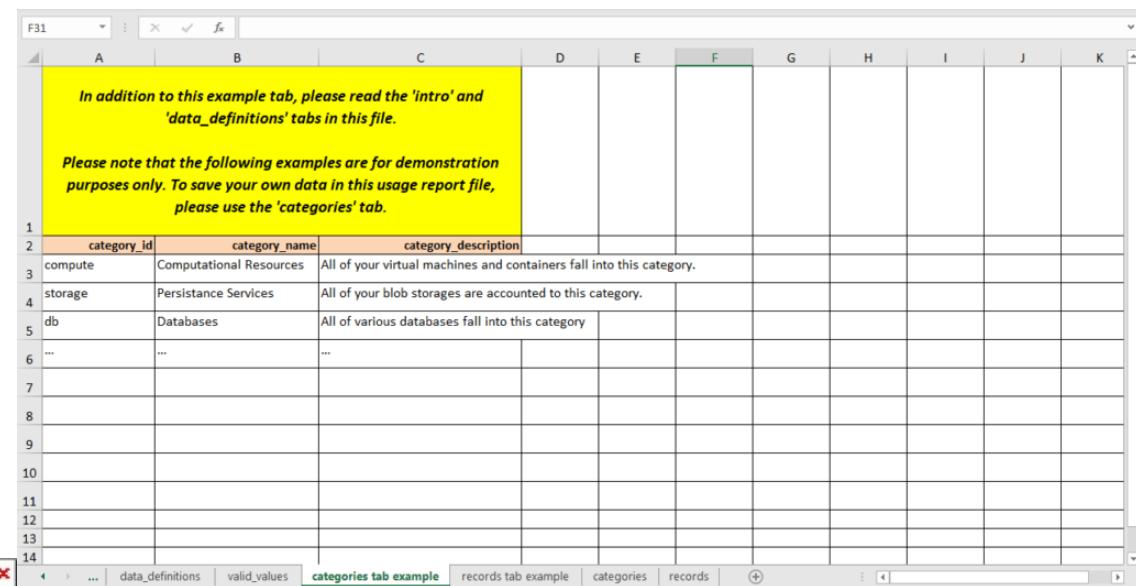
11 See the 'example' tab for an example on how to enter product usage information. This information is for reference only. In order to avoid including invalid usage data in your report, do not work on your own items within the 'example' sheet.

12 **'categories' tab**

13 The 'categories' tab must include information about different item categories available for the product. 'category_id' field of the tab can be used to refer category of the item in 'records' tab.

14 **'records' tab**

15 The 'records' tab must be used to store actual usage information. Column headers in bold indicate required data. For best results, also submit as much preferred and optional data as possible for your products. If you are not providing data for a particular field, leave the cell blank. Feel free to add color, bold, borders and other formatting (not additional text) to the template if it is helpful to you. Please note that high ASCII characters (such as @, ©) and HTML tags are not allowed.



In addition to this example tab, please read the 'intro' and 'data_definitions' tabs in this file.

Please note that the following examples are for demonstration purposes only. To save your own data in this usage report file, please use the 'categories' tab.

category_id	category_name	category_description
compute	Computational Resources	All of your virtual machines and containers fall into this category.
storage	Persistence Services	All of your blob storages are accounted to this category.
db	Databases	All of various databases fall into this category
...

Must have reference in 'categories' tab					
A	B	C	D	E	F
<i>In addition to this example tab, please read the 'Intro' and 'data_definitions' tabs in this file.</i>					
<i>Please note that the following examples are for demonstration purposes only. To save your own data in this usage report file, please use the 'records' tab.</i>					
1 Detailed descriptions of examples in row.	record_id	record_note	item_search_criteria	item_search_value	quantity
2 In this example we demo usage of a product search by global id	1	Record note example 1	item.global_id	PRD-552-140-382-0003	10
3 In this example we demo usage of a product search by global id	2	Record note example 2	item.global_id	PRD-552-140-382-0004	12
4 In this example we demo usage of a product search by global id	3	Record note example 3	item.global_id	PRD-552-140-382-0005	5.4
5 In this example we demo usage of a product search by global id	4	Record note example 4	item.global_id	PRD-552-140-382-0006	0.5
6 In this example we demo usage of a product search by global id	5	Record note example 5	item.global_id	PRD-552-140-382-0007	92
7 In this example we demo usage of a product search by global id	6	Record note example 6	item.global_id	PRD-552-140-382-0008	1110
8 In this example we demo usage of a product search by global id	7	Record note example 7	item.global_id	PRD-552-140-382-0009	23
9 In this example we demo usage of a product search by MPN	8	Record note example 8	item.mpn	MPN-672-HG	5
10 In this example we demo usage of a product with creating dynamic item	9	Record note example 9			1
11					
12					
13					
14					
15					
16					

- **instructions:** Provides basic information on how to use the spreadsheet and overview.
- **data_definitions:** Describes all values that should be provided within the *records* tab.
- **valid_values :** Provides a list of all valid conditional values from the *records* tab.
- **categories_tab_example:** Showcases example values for the *categories* tab.
- **records_tab_example:** Contains example values the *records* tab. It also explains which fields are essential for your selected reporting schema, enabled capabilities, etc.
- **categories:** This tab helps Vendors specify product category information, such as ID, name, and description.
- **records:** This tab is used to provide usage data records. Specify necessary records, save the results and upload your spreadsheet file to Connect.

Note that the system processes only the *records* and *categories* tabs. Other tabs provide additional support information, guidelines and example values.

Populating Usage File

Vendors are required to provide their usage report file and consequently submit this usage file to their business partners. Enter your record data under corresponding column in your spreadsheet. In case it is necessary to provide records for multiple objects, use new rows to provide records for each object. Thus, for example, if your report include several item types, keep adding records for every item type in a new row.

The following table introduces and describes all columns within the *records* and *categories* tabs. Use this table to complete your usage report file and successfully upload this file to the Connect platform.

Tab	Column	Definition and Use	Accepted Values	Example	Required/Optional
records	record_id	Usage record unique identifier	Any text string	record-01234-5678	Required
records	record_note	A note for your usage record	Any text string	Demo report	Optional
records	item_search_criteria	Search criteria type that is used to locate a required item	1) item.mpn : helps identify item by using MPN specified by Vendors; 2) item.global_id : helps identify an item by using global id of the item	item.global_id or item.mpn	Required (leave intact in case dynamic items are selected)
records	item_search_value	Search criteria value that is used to locate your item	1) Your specified item MPN in case the <i>item.mpn</i> criteria is selected; 2) If the <i>item.global_id</i> criteria is selected, enter global item ID that is assigned by Connect	MPN-123-321 or PRD-123-123-123-0001	Required (leave intact in case dynamic items are selected)
records	category_id	Your specified item category identifier; it also refers to the category_id from the <i>categories</i> tab	Any text string	db	Optional
records	quantity	Item quantity that is specified in your required Subscription (Asset)	Any number	123.45	Required
records	amount	Total monetary amount in the specified currency. It may or may not be equal to the <i>quantity * unit_price</i>	Any number	2352.54	Required only for PR, CR and TR schemas
records	tier	Tier reference for which usage record is applicable	0, 1, or 2	1	Required for TR schema

records	start_time_utc	Usage report start time and date in the UTC time zone	Use one one of the following formats: 'YYYY-MM-DD hh:mm:ss' or 'MM/DD/YYYY hh:mm:ss'	2021-01-23 07:21:39	Required
records	end_time_utc	Usage report end time and date in the UTC time zone	Accepted formats: 'YYYY-MM-DD hh:mm:ss' and 'MM/DD/YYYY hh:mm:ss'	6/1/2021 2:59:00	Required
records	asset_search_criteria	Search criteria type that is used to locate your Subscription (Asset)	1) asset.id : helps identify a Subscription (Asset) by using its ID; 2) parameter.{param_id} : allows locating a Subscription by using the value of your parameter that is identified through <i>param_id</i>	asset.id or parameter.account_id	Required
records	asset_search_value	Value that is used to identify the required Subscription; the value may include a Subscription (Asset) ID or a specific parameter identifier	1) Subscription ID (Asset ID) in case the <i>asset.id</i> search criteria is selected; 2) Parameter value in case the <i>parameter.{param_id}</i> criteria is selected	AS-2329-4388-2680 or external-account-000123456	Required
records	item_name	This value is applicable only to dynamic items; the provided value represent an item name	Any text string	Online Storage	Optional
records	item_mpn	Only for dynamic items; the provided value serves as the MPN for your item	Any text string	ST001	Optional
records	item_unit	Only for dynamic items; the provided value represents the unit measurement for your item	mbh, mhzh, unit*h	mbh	Optional
records	item_precision	Specify your dynamic item precision	integer, decimal(1), decimal(2), decimal(4), or decimal(8)	decimal(4)	Optional

categories	category_id	Item category ID	Any text string	db	Optional
categories	category_name	Item category name	Any text string	Database	Optional
categories	category_description	Item category description	Any text string	Database related SKU	Optional

Data Format

Usage File Examples

The following provides the examples of filled usage report files that are successfully uploaded to the Connect platform. Depending on your selected reporting schemas and your enabled capabilities (e.g., if the dynamic items capability is switched on), certain fields should be ignored, while other fields should include your provided values.

Refer to the Usage module documentation, to learn more about all available reporting schemas and product capabilities that are associated with the usage report file creation.

QT Schema

In case the Quantity (QT) reporting schema is selected, it is necessary to provide the **quantity** record alongside other required records for a subscription. This is the most straightforward schema, since it does not require you to specify *amount* and *tier* data. The Distributor or Reseller systems perform all calculations based on the provided quantity data.

The following provides a usage report example with the Quantity reporting schema:

	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	item_search_value	item_name	item_mpn	item_unit	item_precision	asset_search_criteria	asset_search_value	start_time_utc	end_time_utc	category_id	quantity	amount	tier	
2	PRD-768-002-669-Usage plan	usage	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 09:2020-10-20 05:compute				3.0			
3	PRD-768-002-669-Usage plan	usage	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 10:2020-10-20 11:compute				1.0			
4	PRD-768-002-669-Usage plan	usage	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 11:2020-10-20 11:compute				4.0			
5	PRD-768-002-669-Usage plan	usage	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 12:2020-10-20 12:compute				2.5			Not Used
6	PRD-768-002-669-Usage plan	usage	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 13:2020-10-20 13:compute				7.6			
7	PRD-768-002-669-Usage plan	usage	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 14:2020-10-20 14:compute				2.0			
8	PRD-768-002-669-Usage plan	usage	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 15:2020-10-20 15:compute				10.0			
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This example outlines several items with different records. Since the QT reporting schema is used, this example also highlights



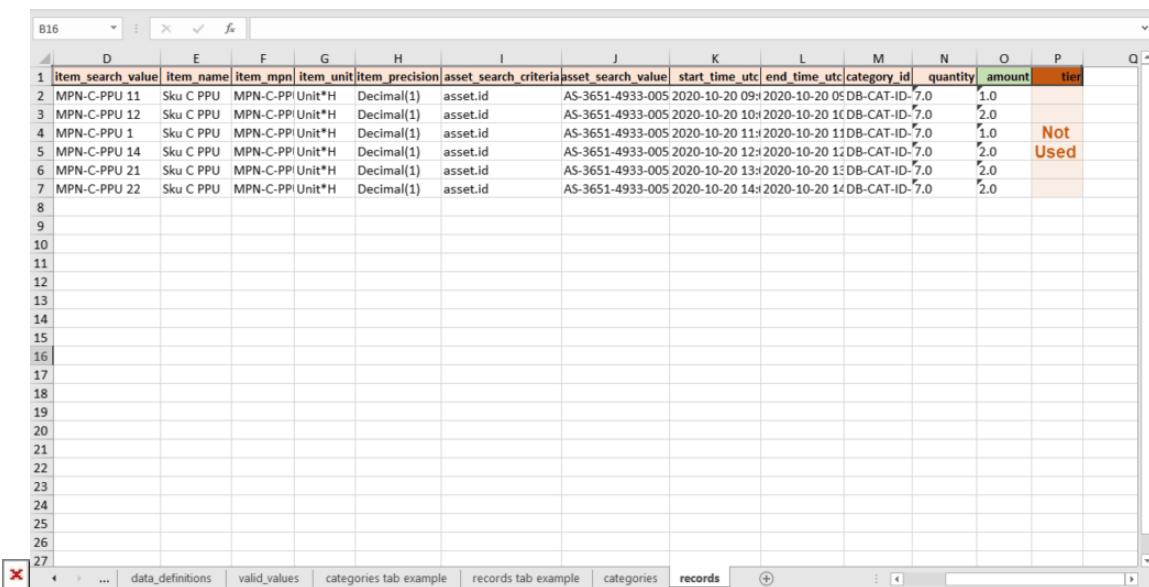
the quantity records that are essential for the following calculations.

The amount and tier records are not used with this schema. Therefore, their corresponding columns should be left empty or removed.

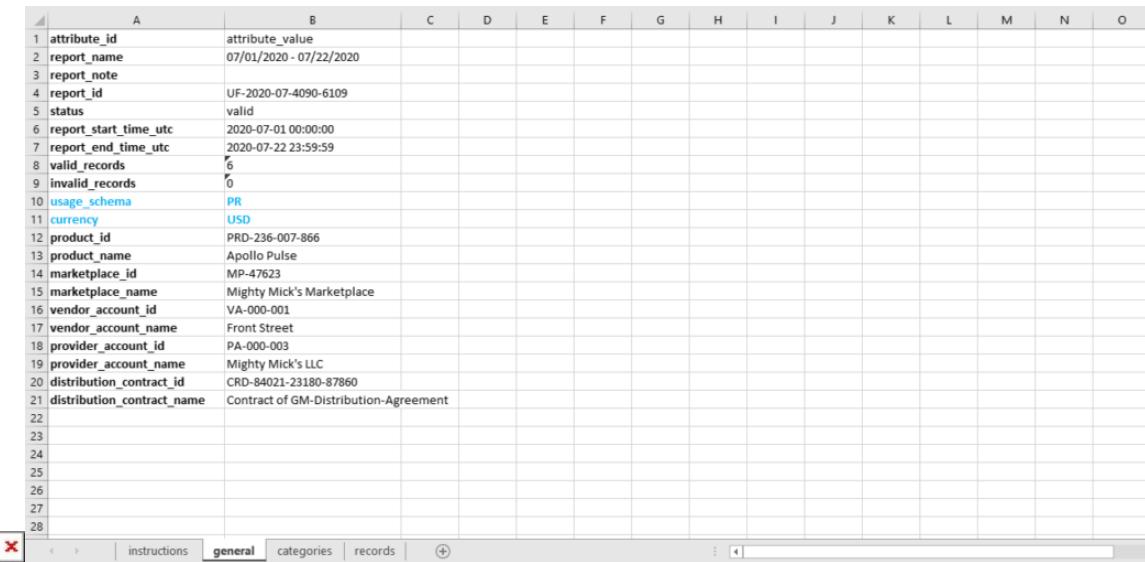
PR Schema

This schema is helpful for many companies and organizations that work with Azure Modern or AWS. As mentioned before, the Price Rated schema requires Vendors to report Tier-0 (End Customer) price. Other prices are calculated based on the reported value. In this case, the **amount** value in the usage report file represents your *T-0 price*. Note that the *tier* value should not be used in this schema.

A usage report example with the PR schema is presented below:



	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	item_search_value	item_name	item_mpn	item_unit	item_precision	asset_search_criteria	asset_search_value	start_time_utc	end_time_utc	category_id	quantity	amount	tier	
2	MPN-C-PPU 11	Sku C PPU	MPN-C-PP	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 09:2020-10-20 05	DB-CAT-ID-7.0		1.0			
3	MPN-C-PPU 12	Sku C PPU	MPN-C-PP	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 10:2020-10-20 10	DB-CAT-ID-7.0		2.0			
4	MPN-C-PPU 1	Sku C PPU	MPN-C-PP	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 11:2020-10-20 11	DB-CAT-ID-7.0		1.0		Not Used	
5	MPN-C-PPU 14	Sku C PPU	MPN-C-PP	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 12:2020-10-20 12	DB-CAT-ID-7.0		2.0			
6	MPN-C-PPU 21	Sku C PPU	MPN-C-PP	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 13:2020-10-20 13	DB-CAT-ID-7.0		2.0			
7	MPN-C-PPU 22	Sku C PPU	MPN-C-PP	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 14:2020-10-20 14	DB-CAT-ID-7.0		2.0			
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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1 attribute_id	attribute_value													
2 report_name	07/01/2020 - 07/22/2020													
3 report_note														
4 report_id	UF-2020-07-4090-6109													
5 status	valid													
6 report_start_time_utc	2020-07-01 00:00:00													
7 report_end_time_utc	2020-07-22 23:59:59													
8 valid_records	6													
9 invalid_records	0													
10 usage_schema	PR													
11 currency	USD													
12 product_id	PRD-236-007-866													
13 product_name	Apollo Pulse													
14 marketplace_id	MP-47623													
15 marketplace_name	Mighty Mick's Marketplace													
16 vendor_account_id	VA-000-001													
17 vendor_account_name	Front Street													
18 provider_account_id	PA-000-003													
19 provider_account_name	Mighty Mick's LLC													
20 distribution_contract_id	CRD-84021-23180-87860													
21 distribution_contract_name	Contract of GM-Distribution-Agreement													
22														
23														
24														
25														
26														
27														
28														



instructions

general

categories

records



4

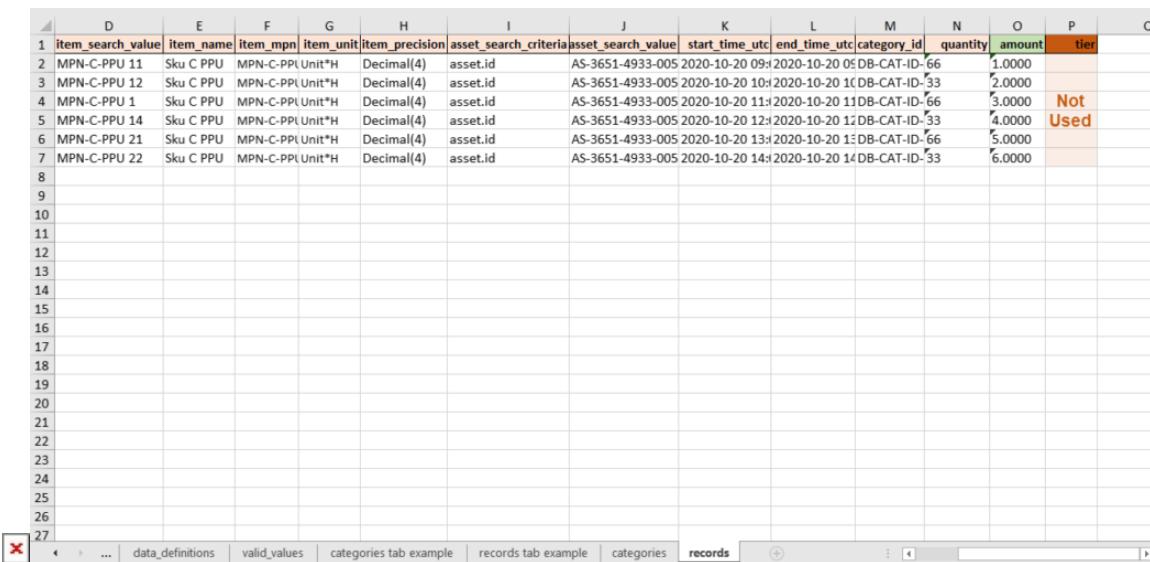
Since the Price Rated schema is selected, this example highlights the amount records that are essential for the reporting operations. The system uses your selected currency for the provided amount records.

The tier records should not be used with the PR schema. Thus, it is required to ignore or remove the corresponding column.

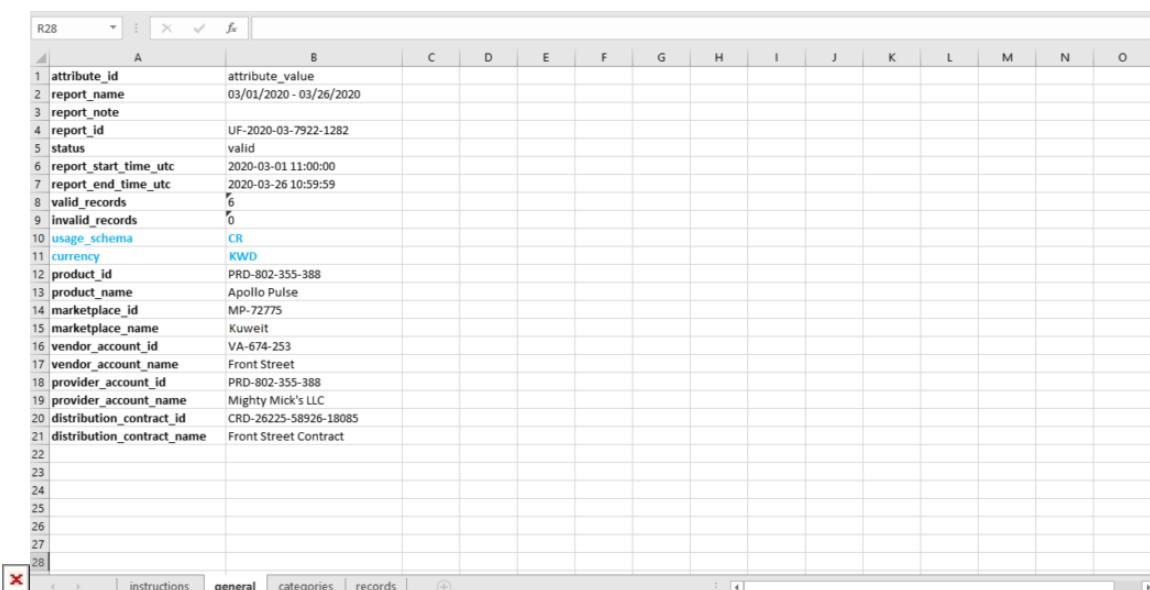
CR Schema

The Cost Rated (CR) schema requires Vendors to report the cost in the scope of the distribution contract. Namely, this represents the *Distributor Cost*. Other prices are calculated based on this reported value. Therefore, the **amount** value in the usage report file represents the *distributor cost*. In addition, note that the *tier* value should not be used in this schema.

The following provides a usage report example with the Cost Rated reporting schema:



	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	item_search_value	item_name	item_mpn	item_unit	item_precision	asset_search_criteria	asset_search_value	start_time_utc	end_time_utc	category_id	quantity	amount	tier	
2	MPN-C-PPU 11	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(4)	asset.id	AS-3651-4933-005	2020-10-20 09:12	2020-10-20 05:DB-CAT-ID-66		1.0000			
3	MPN-C-PPU 12	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(4)	asset.id	AS-3651-4933-005	2020-10-20 10:12	2020-10-20 11:DB-CAT-ID-33		2.0000			
4	MPN-C-PPU 1	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(4)	asset.id	AS-3651-4933-005	2020-10-20 11:12	2020-10-20 11:DB-CAT-ID-66		3.0000		Not Used	
5	MPN-C-PPU 14	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(4)	asset.id	AS-3651-4933-005	2020-10-20 12:12	2020-10-20 12:DB-CAT-ID-33		4.0000			
6	MPN-C-PPU 21	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(4)	asset.id	AS-3651-4933-005	2020-10-20 13:12	2020-10-20 13:DB-CAT-ID-66		5.0000			
7	MPN-C-PPU 22	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(4)	asset.id	AS-3651-4933-005	2020-10-20 14:12	2020-10-20 14:DB-CAT-ID-33		6.0000			
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	attribute_id	attribute_value													
2	report_name	03/01/2020 - 03/26/2020													
3	report_note														
4	report_id	UF-2020-03-7922-1282													
5	status	valid													
6	report_start_time_utc	2020-03-01 11:00:00													
7	report_end_time_utc	2020-03-26 10:59:59													
8	valid_records	6													
9	invalid_records	0													
10	usage_schema	CR													
11	currency	KWD													
12	product_id	PRD-802-355-388													
13	product_name	Apollo Pulse													
14	marketplace_id	MP-72775													
15	marketplace_name	Kuwait													
16	vendor_account_id	VA-674-253													
17	vendor_account_name	Front Street													
18	provider_account_id	PRD-802-355-388													
19	provider_account_name	Mighty Mick's LLC													
20	distribution_contract_id	CRD-26225-58926-18085													
21	distribution_contract_name	Front Street Contract													
22															
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Since the CR reporting schema is used, this example highlights the amount records that are essential for the following calculations. The system also uses your selected currency for the provided amount records.

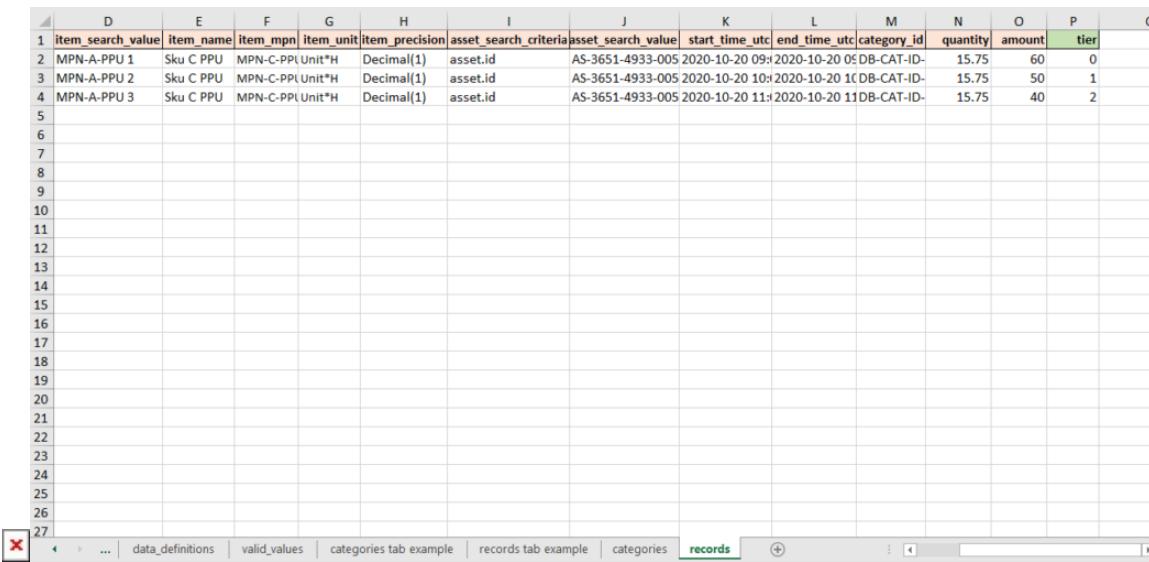
The tier records are not used with this schema. Therefore, their corresponding column should be left empty or removed.

TR Schema

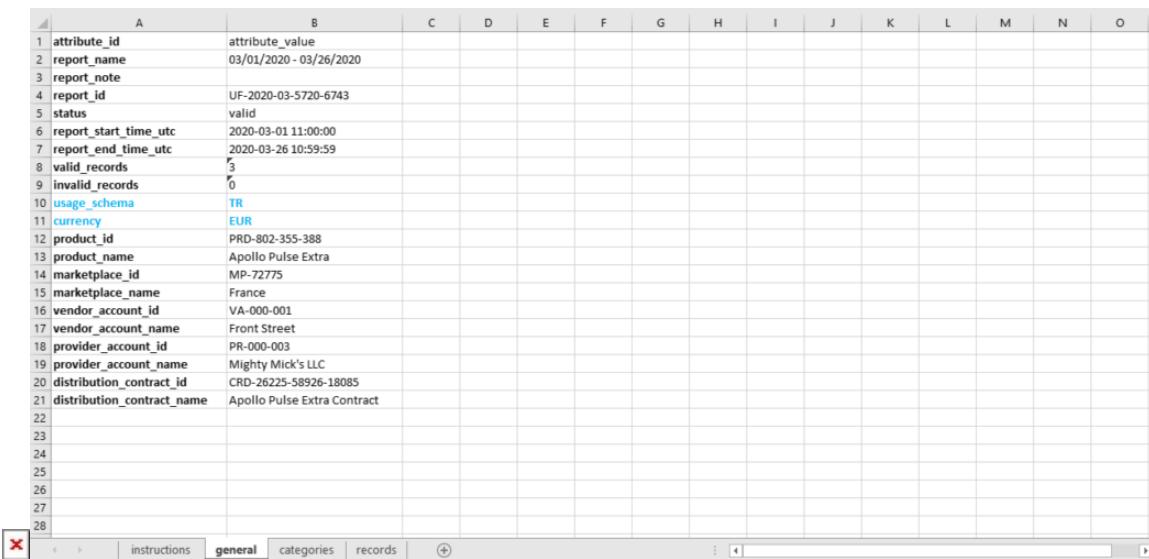
The Multi-Tier Rated schema requires Vendors to report prices for each available *tier* (i.e., distributor, reseller, and customer prices). Therefore, Distributor or Reseller systems can simply apply provided values. In this case, Vendors can report charges for multiple *tiers* by using the the tier column.



The following example showcases charges for the same item with the same *quantity value* (15.75) that is applied to 3 tiers accounts with different *amount values*.



	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	item_search_value	item_name	item_mpn	item_unit	item_precision	asset_search_criteria	asset_search_value	start_time_utc	end_time_utc	category_id	quantity	amount	tier	
2	MPN-A-PPU 1	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 09:00:00	2020-10-20 05:00:00	DB-CAT-ID-00000000000000000000000000000000	15.75	60	0	
3	MPN-A-PPU 2	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 10:00:00	2020-10-20 10:00:00	DB-CAT-ID-00000000000000000000000000000001	15.75	50	1	
4	MPN-A-PPU 3	Sku C PPU	MPN-C-PPU	Unit*H	Decimal(1)	asset.id	AS-3651-4933-005	2020-10-20 11:00:00	2020-10-20 11:00:00	DB-CAT-ID-00000000000000000000000000000002	15.75	40	2	
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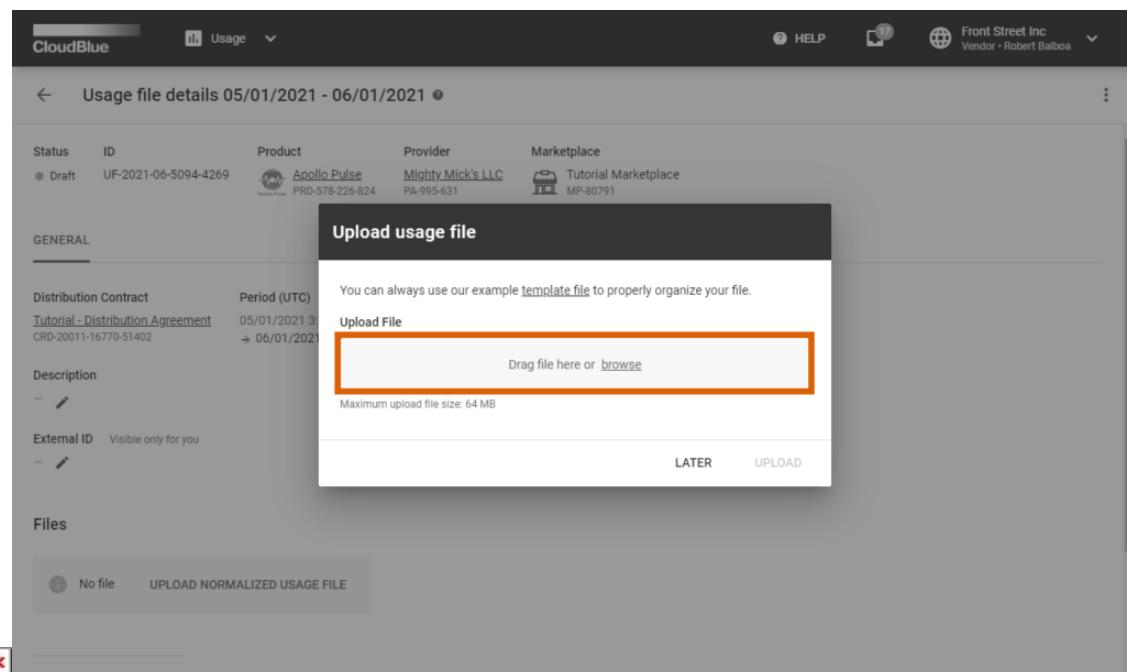
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1 attribute_id	attribute_value													
2 report_name	03/01/2020 - 03/26/2020													
3 report_note														
4 report_id	UF-2020-03-5720-6743													
5 status	valid													
6 report_start_time_utc	2020-03-01 11:00:00													
7 report_end_time_utc	2020-03-26 10:59:59													
8 valid_records	3													
9 invalid_records	0													
10 usage_schema	TR													
11 currency	EUR													
12 product_id	PRD-802-355-388													
13 product_name	Apollo Pulse Extra													
14 marketplace_id	MP-72775													
15 marketplace_name	France													
16 vendor_account_id	VA-000-001													
17 vendor_account_name	Front Street													
18 provider_account_id	PR-000-003													
19 provider_account_name	Mighty Mick's LLC													
20 distribution_contract_id	CRD-26225-58926-18085													
21 distribution_contract_name	Apollo Pulse Extra Contract													
22														
23														
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Since the TR reporting schema is used, this example highlights the tier column that should be used to specify prices for each associated tier. The system also uses your selected currency for the provided amount records.

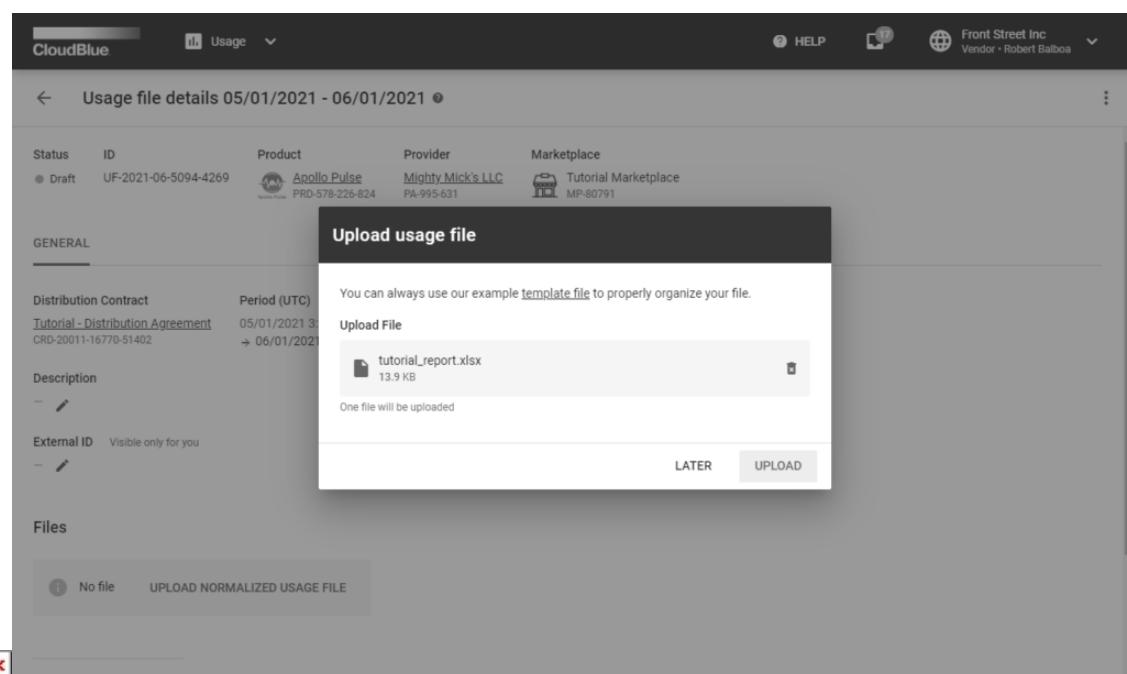
Uploading Usage File

Once Vendors filled out their usage report file, it is necessary to upload this normalized file to the Connect platform. Access your created usage report instance from the **Usage** module. Thereafter, click the **Upload Normalized Usage File** button and drag

your file into the following form.



The screenshot shows the CloudBlue Usage file details page for the period 05/01/2021 - 06/01/2021. The page includes fields for Status (Draft), ID (UF-2021-06-5094-4269), Product (Apollo Pulse), Provider (Mighty Mick's LLC), and Marketplace (Tutorial Marketplace). A modal window titled 'Upload usage file' is open, containing instructions to use a template file and a large red-bordered area for dragging or browsing a file. The modal also shows a maximum upload size of 64 MB and buttons for 'LATER' and 'UPLOAD'.



The screenshot shows the same CloudBlue Usage file details page and modal as the first one, but with a file listed in the modal's upload area. The file 'tutorial_report.xlsx' is shown with a size of 13.9 KB and a note that one file will be uploaded. The 'UPLOAD' button is visible at the bottom of the modal.

Once your file is uploaded, the system adds the file to the queue and assigns the *Uploaded* status to your usage report instance. When the system starts to process your usage report file, the aforementioned status will be switched to the *Processing*.

Vendors can add custom columns to the usage file to pass custom usage parameters to the distributor's e-commerce system. Connect does not modify values in the custom columns.



Information

The name of such custom columns must start with "v."

Processing Stages

Once your usage report file is assigned to the *Processing* status, the system validates each reported record according to the following rules:

1. Subscription can be found in the scope of the contract using the **asset_search_criteria** and **asset_value** defined on each record.
2. In case the required subscription is located, the system verifies if this subscription includes your specified item by using **item_search_criteria** and **item_value**.
3. In case your specified item is found, the system verifies if provided **quantity**, **amount** and **tier** data is valid. For example, if Vendors specify reservation item quantity, the system compares this quantity with the item quantity in the required subscription.
4. The system processes provided time records:
 - o **start_time_utc** or **end_time_utc** can't be set to the future dates.
 - o Time records should not correlate with a different usage file that was already processed. In case that corrections for previous usage report file are required, your new file must cover longer period of time than your previous one.

If all provided data are valid, the system marks your uploaded file as *Ready*. Therefore, this usage report file can be submitted to Distributors.

Possible Errors

In case your uploaded usage report file contains an error, the system marks your usage report as *Invalid*. Note that only valid usage report files can be successfully submitted to Distributors. Namely, the system requires Vendors to fix all errors and upload their usage file once again.

Once the system marks a usage file as *Invalid*, Vendor can download the processed spreadsheet to review error details. The processed spreadsheet highlights incorrect data and provides error messages in the *records* tab. Possible error values are summarized in the following table:

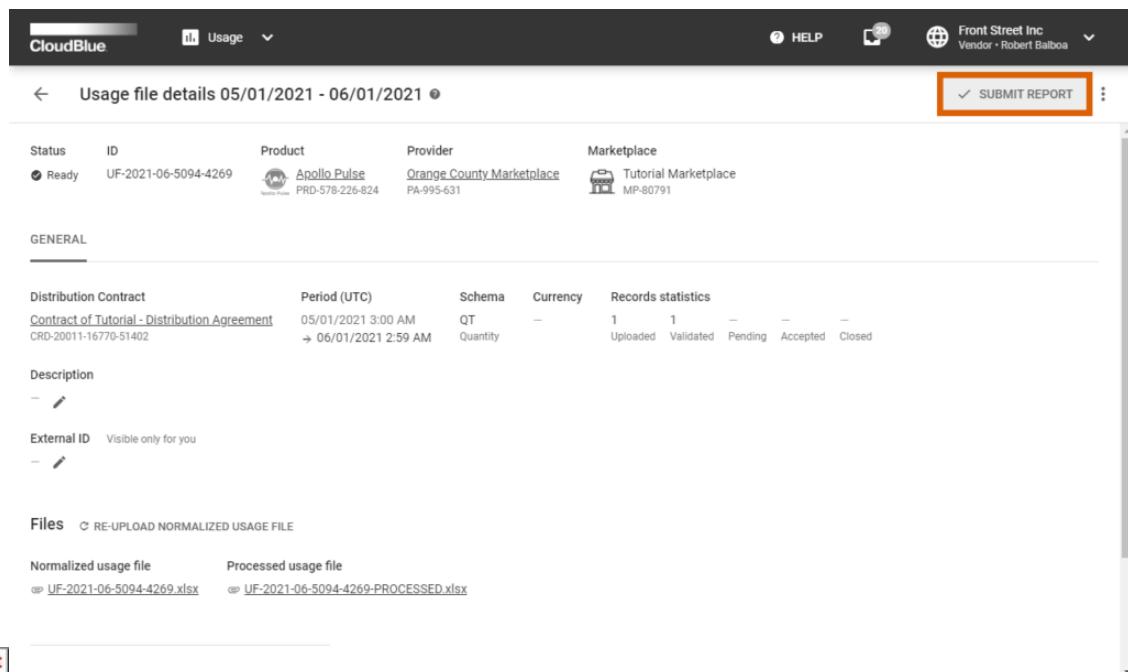
#	Error Code	Explanation	Example
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1	USG_FILE_001	The system did not find a subscription or an item that matches your specified search criteria value	Resource ID not found for filter item.mpn with value MPN-D
2	USG_FILE_002	If your subscription search criteria is based on a parameter, this error indicates that your required subscription with your specified parameter is not found	Asset id not found for filter parameter.param_a with value test B
3	USG_FILE_003	In case the subscription ID search criteria is selected, this error indicates that your required subscription with your specified ID is not found	Asset id not found for filter asset.id with value AS-044-545-256-7
4	USG_FILE_004	This error indicates that your provided parameter search criteria value is not unique and multiple subscriptions are found	Multiple assets found for parameter param_a with value test A
5	USG_FILE_005	The system can't read or process the file; make sure that your usage file is not corrupted and it includes a tab called records	Contract ID: CRD-123-123-123-123-123 and Product ID: PRD-123-123-123-123 can not be validated
6	USG_FILE_006	This error indicates that provided value isn't a float value	Usage value is not a float value
7	USG_FILE_007	Provided start_time_utc that is invalid; usually caused by an incorrect format	Usage start time is not valid
8	USG_FILE_008	Provided end_time_utc that is invalid; usually caused by an incorrect format	Usage end time is not valid
9	USG_FILE_009	Specified record_id is not unique and belongs to another usage file	Record belongs to existing usage file UF-2019-05-5760-1645
10	USG_FILE_010	Provided item.search_criteria is not valid; choose either item.global_id or item.mpn	This item filter type not allowed
11	USG_FILE_012	Specified start_time_utc value is behind the end_time_utc value	Usage start time value greater than end time value
12	USG_FILE_013	Reported quantity is greater than purchased quantity	Usage quantity reported in usage file is greater than allowed usage
13	USG_FILE_014	Reported value does not match the defined item precision; e.g., your item has the integer precision and reported value is decimal	Usage quantity reported doesn't match with the data type of the item



Submitting Usage Report

Once the system assigns the processed usage file to the *Ready* state, Vendors can submit this report by clicking the **Submit Report** button from the **Usage File Details** screen:



The screenshot shows the 'Usage' module's 'Usage File Details' screen. At the top, there are navigation links for 'CloudBlue', 'Usage', 'HELP', and 'Front Street Inc'. The main content area displays usage file details for a file from 05/01/2021 to 06/01/2021. The 'SUBMIT REPORT' button is highlighted with an orange border and a checkmark icon. The 'GENERAL' section includes fields for 'Distribution Contract' (Contract of Tutorial - Distribution Agreement, CRD-20011-16770-51402), 'Period (UTC)' (05/01/2021 3:00 AM to 06/01/2021 2:59 AM), 'Schema' (QT), 'Currency' (—), and 'Records statistics' (1 Uploaded, 1 Validated, 0 Pending, 0 Accepted, 0 Closed). Below this, there are sections for 'Description' and 'External ID'. The 'Files' section shows two files: 'Normalized usage file' (UF-2021-06-5094-4269.xlsx) and 'Processed usage file' (UF-2021-06-5094-4269-PROCESSED.xlsx).

Once a usage report file is submitted, the system transfers the instance to the *Pending* state. Thereafter, Distributors can accept the file or reject it in case of an error. Note that the system can also accept your submitted file automatically.