Flow APIs and Power BI

Guide to exporting flow data on our alert store API:

https://docs.google.com/document/d/17nbdFkDS-5FpvYXBMbmzjlGcvu1F80VFtI0ia9NmlQM/edit?usp=sharing

The API can have browser parameters, one being the **filter** and the other a **limit:**

- A **filter** is used to filter down the results by workcentre, workflow, workstate, alert id, create time and more.
- A **limit** just limits the maximum amount of forms the API call can retrieve.

Step 1: Creating a base URL

Template: https://{yourofsserver}/alertstore/query?limit=50

- Replace {yourofsserver} with the customer's OFS URL
- Specify a limit for the number of Flow Forms to bring in e.g. limit=50
  - We always **INSIST** you have a filter and if you do not have a filter you **MUST** specify a limit. If you do not have a filter or a limit every alert that has ever fired will be retrieved with each call and it will likely cause instability in the software.
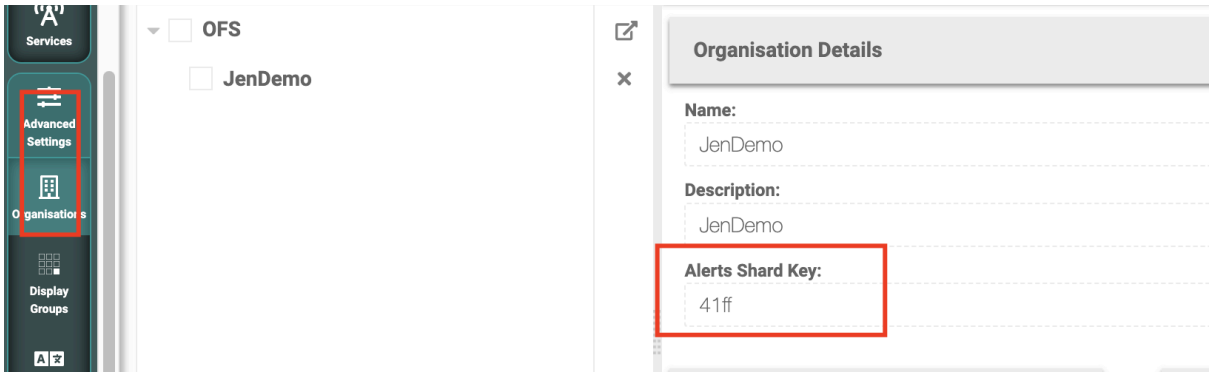
Example 1: https://customer.ofsxpress.com/alertstore/query?limit=50

Example 2: on-premise Customer Example:
https://10.123.45.678/alertstore/query?limit=1

Step 2: Creating the confidUID

- The configUID combines the shard key + the API export key
  - Format: xxxx:abcd-1234-efgh
  - xxxx = shard key
    - This is found in Advanced settings
    - Organisations
    - Alerts Shard Key:

- ○ abcd-1234-efgh = API export key for the individual alert
  - ■ Found in each individual Alert
- ○ Example: 41ff:979857cf-6db8-4b52-a076-1263acefe5fa

Step 3: Creating the Filters as a JSON

Example: Filter by workcentre ID and create time

a) configUID

- "configUID":["xxxx:abcd-1234-efgh"]
- Example:
  "configUID":["41ff:0218e343-d7b2-45d2-bf7b-e9bcf243a6e4"]

b) Workcentre ID filter

- "workcentre":["WorkcentreID"]
- Example: "workcentre":["OFSTESTLINE100"]

c) Create Time filter

- "createTime":{"from":0000000000000,"to":0000000000000}
- The Create time filters use epoch timestamp in milliseconds
  - ○ Note: Epoch is the time since 1 Jan 1970
- Use the website https://www.epochconverter.com/ to convert the epoch time to local time.
  - ○ Note: In PowerBI, you could convert the time automatically using coding
  - ○ Beware of using this for different timezones to you
  - ○ Example:
  - ○ From: 1 Oct 2023 = 1696082400000
  - ○ To: 30 Oct 2023 = 1698584400000

Yr		Mon		Day		Hr		Min		Sec			
2023	-	10	-	1		0	:	0	:	0		Local time ▾	Human date to Timestamp

Epoch timestamp: 1696082400
Timestamp in milliseconds: 1696082400000
Date and time (GMT): Saturday, 30 September 2023 14:00:00
Date and time (your time zone): Sunday, 1 October 2023 00:00:00 GMT+10:00

Step 4: Converting the JSON to be URL encoded

- **Filter in JSON =**

{"workcentre":["OFSTESTLINE100"],"createTime":{"from":1696082400000,"to":1698584400000},"configUID":["41ff:979857cf-6db8-4b52-a076-1263acefe5fa"]}

  - Ensure there is a { at the start of the string and a } at the end of the string.

- **Converting to URL encoded**

  - Note: all filters must be a URL-encoded JSON string.
  - This website will convert it for you: https://www.urlencoder.io/

    Example:

    %7B%22workcentre%22%3A%5B%22OFSTESTLINE100%22%5D%2C%22createTime%22%3A%7B%22from%22%3A1696082400000%2C%22to%22%3A1698584400000%7D%7D

Step 5: Create the API Export URL by combining the base URL and Filter (URL encoded)

a) Insert the base URL
b) Specify the filter browser parameter: &filter=
   - This is only because limit=50 is at the start. If no limit filter then the browser parameter is directly after "query?"
c) Insert the URL-encoded JSON filters
d) Test this URL in the web browser

Final API Export URL Example:

https://customer.ofsxpress.com/alertstore/query?limit=50&filter=%7B%22workcentre%22%3A%5B%22OFSTESTLINE100%22%5D%2C%22createTime%22%3A%7B%22from%22%3A1696082400000%2C%22to%22%3A1698584400000%7D%7D

This will hopefully get you started on exporting flow forms via the API.

Exporting OFS-Flow APIs to Power BI

We are unable to directly help with the Power-BI as we do not use Power-BI in our business, we suggest you will need to reach out to a Power-BI expert if you have any further questions on Power-BI directly.

However, to import this data into Power-BI you will need to use a Web Import with Basic Authentication, once you craft your export URL you will need to enter this and authenticate with your OFS login.

Importing data:

Step 1 - Click 'Get Data'

Step 2 - Click 'Web'

Step 3 - Enter the base URL

Step 4 - Click Basic and enter your OFS login credentials

Step 5 - Apply changes