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InFocus™ Data Connectivity Options

Q: What are my options for transmitting data?

A: There are 2 options:

- 1. RESTful API (HTTPS)**
- 2. E-Mail**

Pre-Work:

ExxonMobil will work with you to identify the required tags in a kickoff meeting. Finalizing the tags for data transmission is a pre-requisite to implementing either of the options below.

Option 1: RESTful API (HTTPS)

The API option for data transmission is ideal for both automation as well as higher frequency submissions. Under the current design, it will accept one record (singular timestamp with associated tags) per API call. In other words, a submission of 5 points in time will require 5 distinct API calls.

There are a number of software solutions that can be used to leverage an API call. A few options include:

1. Command line
2. Postman software
3. Python script

Ultimately, customer preference and experience will drive the decision of which solution to use. Included below are details on the elements required for a successful transmission.

API Address: <https://api.uclid.us/sensor/prd/api>

A typical command line call would be structured as follows:

```
curl --location --request POST 'https://api.uclid.us/sensor/prd/api' \  
--header 'Content-Type: application/json' \  
--header 'x-api-key: 537d4b38-befe-4a1d-addf-9af5283b80d9' \  
--data-raw '{\  
  "Time Stamp": "1/1/2020 0:15",\  
  "AssetID": "835558199",\  
  "WorkFlowID": "53209179",\  
  "EXAMPLE_TAG1": 11227.1412,\  
  "EXAMPLE_TAG2": 105.7149627,\  
  "EXAMPLE_TAG3": 23.47954127\  
}'
```

Highlighted entries are customer specific and will be provided by ExxonMobil supports teams. The number of tags will be variable by customer and will be agreed upon between Technical Support teams and the customer prior to the first transmission.

API Feedback:

A successful transmission will result in the following message:

```
{  
  "StatusCode": 200,  
  "Status": "Success"  
}
```

In the event that the transmission fails, please contact infocus@exxonmobil.com for assistance.

Option 2: E-Mail

This option leverages an email file attachment to transmit data to InFocus. That attachment is required to be in a standard CSV format (see details below). Email instructions are as follows:

Email Address: mc@uclidmail.com

Subject Line: [Company Name] < Unique ID provided by XOM >

You should expect to receive a feedback email acknowledging receipt of the file. See Email Feedback below.

File Details (CSV):

InFocus is expecting to receive a comma-separated values file (i.e. CSV file extension). Required format expects a first row of comma separated header values. Note: additional header information from a process historian system will generate an error. All subsequent rows provide the comma separated time series tag values. Here is an example:

Excel View:

File	Edit	Format	View	Help
Time Stamp, Tag1. PV, Tag2. PV, Tag3. PV				
1/1/2020	0:15	12.705	26.224	4.694
1/1/2020	0:30	12.625	25.004	4.882
1/1/2020	0:45	12.888	25.872	5.002
1/1/2020	1:00	11.945	26.154	4.993
1/1/2020	1:15	12.232	26.214	4.265

Generic Editor View (Notepad, etc.):

	A	B	C	D
1	Time Stamp	Tag1.PV	Tag2.PV	Tag3.PV
2	1/1/2020 0:15	12.705	26.224	4.694
3	1/1/2020 0:30	12.625	25.004	4.882
4	1/1/2020 0:45	12.888	25.872	5.002
5	1/1/2020 1:00	11.945	26.154	4.993
6	1/1/2020 1:15	12.232	26.214	4.265

Email Feedback:

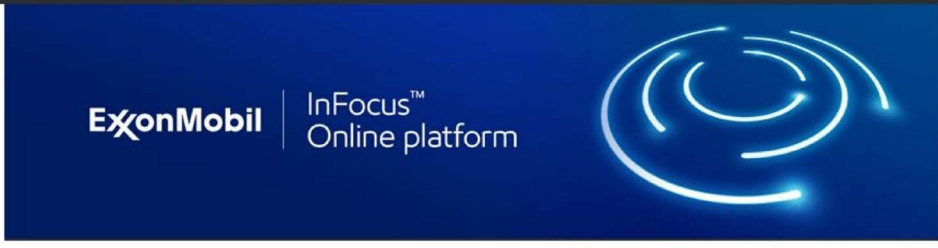
1. After submitting your email, you should receive a reply email from postmaster@utilitycloud.us confirming receipt of the file. See example below.

Note: you may need to check your Junk folder and add this address to your safe sender list.

From: postmaster@utilitycloud.us [<mailto:postmaster@utilitycloud.us>]
Sent: Monday, May 11, 2020 9:15 AM
To: INFOCUS /SM <INFOCUS@exxonmobil.com>;
Subject: Machine Connect Upload Received

Successfully received Machine Connect email. Sent to processing service
The [log file](#) and [original payload](#) will be available for review for the next 180 days.

2. Once processing is complete, you will receive a second email providing details on the file submission. See example below. In the event that the transmission fails, please contact infocus@exxonmobil.com for assistance.



Successfully processed Machine Connect data for asset: 789199381

Submission Summary:

Total Row(s): 1344
Total Error(s): 0

100% successfully processed.

Files:

The [log file](#) and [original payload](#) will be available for review for the next 180 days.

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