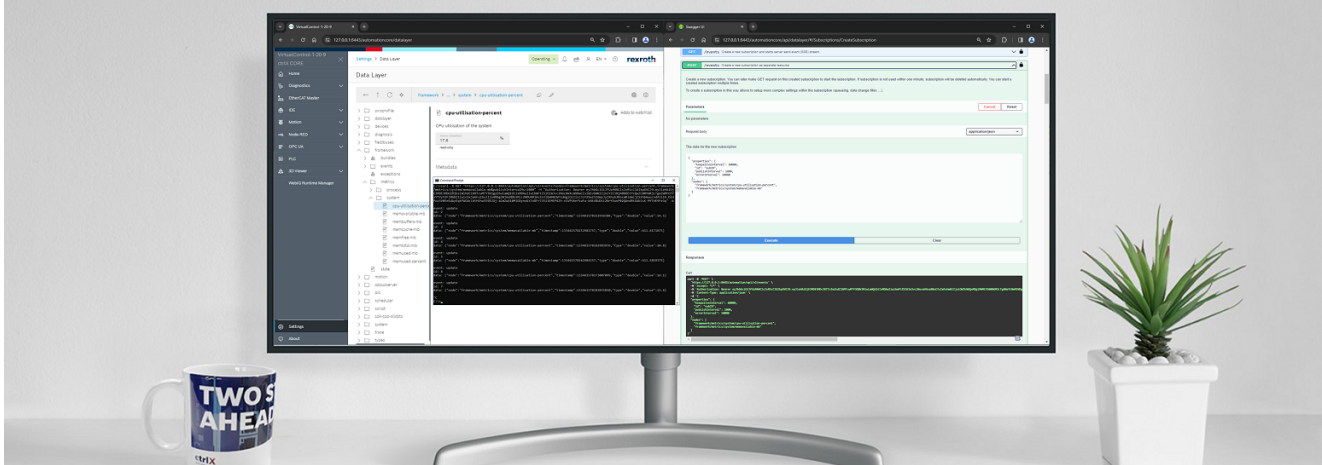


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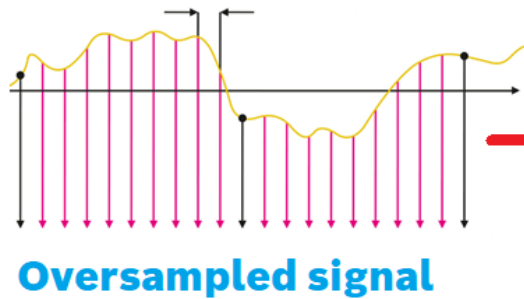


IIoT: Use telegraf to sample Realtime data Automatically

Disclaimer

The goal is to use ctrlX CORE or a ctrlX OS installation in order to store and monitor High Frequency signals for condition monitoring. This topic has been already covered here: [here](#).

What is then the difference: this solution is using Telegraf and no node-red and is a configuration suitable also for people who doesn't know how to program and is easily reproducible. In other hand is less flexible.



Oversample Telegraf

Requirements

- ctrlX CORE - x3 or x7 or a ctrlX OS installation version 2.6 and above
- InfluxDB and Telegraf apps set and running. Done with version 2.6.
- Some RT data to trace

Setup Telegraf

First of all we have to check that the node we want to trace are Realtime data like the data present in

- `plc/app/Application/realtime_data/..`
- `fieldbuses/ethercat/master/instances/ethercatmaster/realtime_data/..`

If some calculation should be done before the upload there is then the need to take the data in a Ethercat Synchronous task in the PLC app (or a self made RT app but PLC is definitely easier) and then store it in a realtime PLC data location. Down we can see my configuration, i removed all the comments to fit it in the page. Other than the standard configuration parameters we have the following 3 parameters to tune:

- `Sampling interval`: setting this to 0 is activating the function.
- `lossless_rate_limit`: setting to 1 i am uploading all the data, setting to 10 i upload a value any 10 values
- `queue_size`: how big should the buffer i want to upload?

Telegraf > configuration Operating ▼ **rexroth**

configuration

1 item +

Name	State	Actions
configuration	Running	

Editor ✕

```

2 url = { https://zr.00.1ymroxd }
3 bucket = "boschrexroth"
4 organization = "boschrexroth"
5 token = "5tgdpdV0FtrIPwhSncW0nx2SyQ5ijUAUIA6q4FMeNwHYUe46mylMkMxVpnspsy-JD9C6pbRIQ-Ge
6 insecure_skip_verify = true
7
8 [[inputs.ctrlx_datalayer]]
9   server = "localhost"
10  username = "boschrexroth"
11  password = "boschrexroth"
12  insecure_skip_verify = true
13
14 [[inputs.ctrlx_datalayer.subscription]]
15   measurement = "metrics"
16   nodes=[
17     {name="input1", address="plc/app/Application/realtime_data/GVL_out/data/pi"},
18   ]
19   sampling_interval = "0"
20   lossless_rate_limit = 1
21   queue_size = 100
22

```

Telegraf Lossless subscription

1 KB



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