

# Entity Type Configuration

In Watson IoT Platform Data Lake, the device data for different entity/device types are stored in their own table. The tables are named as `IOT_<entityType>`. The configuration items that controls data exetration for a specific device type, from SCADA historian and uploaded to Watson IoT Platform Data Lake, are defined in a configuration file `/mnt/volume/config/<entityType>.json`.

The configuration items are provided to handle two use cases.

- Each record in SCADA historian table represents one event from a device.

namespace	groupId	edgeNodeId	timestamp	seq	metricName	metricTS	dataType	Val
spBv1.0	Cakebread	RuthNorth	1561672261360	69	TT_ProdRoom	1561672201356	Float	66.28948
spBv1.0	Cakebread	RuthNorth	1561672261360	69	FT_SupFlow	1561672201357	Float	12137.233
spBv1.0	Cakebread	RuthNorth	1561672261360	69	TT_ProdRoom	1561672206357	Float	66.29618
spBv1.0	Cakebread	RuthNorth	1561672261360	69	FT_SupFlow	1561672206357	Float	12093.698
spBv1.0	Cakebread	RuthNorth	1561672261360	69	TT_CT1_Supply	1561672208331	Float	84.67943
spBv1.0	Cakebread	RuthNorth	1561672261360	69	CT1Fan_Current	1561672211359	Float	1.5
spBv1.0	Cakebread	RuthNorth	1561672261360	69	TT_ProdRoom	1561672211359	Float	66.29439
spBv1.0	Cakebread	RuthNorth	1561672261360	69	FT_SupFlow	1561672211359	Float	11983.869

- Each record in SCADA historian table represents all events from a device.

DateTime	lv_activepower	wind_speed	theoretical_power_curve	wind_direction
01 01 2018 00:20	306.376586914062	5.21603679656982	390.900015810951	272.564788818359
01 01 2018 00:30	419.645904541015	5.65967416763305	516.127568975674	271.258087158203
01 01 2018 00:40	380.650695800781	5.57794094085693	491.702971953588	265.674285888671
01 01 2018 00:50	402.391998291015	5.60405206680297	499.436385024805	264.57861328125

## Configuration Object

Provide data configuration object in a json formatted file:

```
{
  "chunkSize": integer,
  "scanInterval": integer,
  "defaultTypeId": "string",
  "defaultDeviceId": "string",
  "configureWIoT": true|false,
  "eventDataTypes": {},
  "columnMaps": {
    "typeId": "string",
    "deviceId": "string",
    "evtType": "string",
    "evtTimestamp": "string",
    "evtDataType": "string",
    "evtValue": "string"
  },
  "discardColumns": [],
  "ignoreDataType": [],
  "sampleEventCount": integer
}
```

Where: