/device Payload formats

Introduction

This document outlines payload formats for /device agents.

Payload

The payload must be a JSON file persisted to disk. /device agents pick up these files and interpret the payloads as below

Metric Payloads

Metric payloads contain metric data. The payload JSON file should contain a single key, “metric” followed by a map/dictionary value that has optional and required fields, described below

Required fields

1. timestamp : integer, Unix Epoch UTC
2. source : string, Source of metric
3. kind : string, one of the following
    a. “gauge” : A gauge value is an instantaneous measurement
    b. “delta” : A delta value represents a change since the previous value
    c. “cumulative” : A cumulative value indicates a single value being accumulated over time
4. value : A value corresponding to the metric kind, that can be of the following types

Value Type	**Gauge**	**Delta**	**Cumulative**
Boolean	yes	no	no
Double	yes	yes	yes
Int64	yes	yes	yes
String	yes	no	no

Optional fields

1. date : string date with format YYYY-MM-DD
2. time : string time with format HH-MM-SS
3. unit : string unit

Examples

```
{
      "metric": {
            "source": "sensor_1",
            "kind": "gauge",
            "name": "Furnace Temperature",
            "time": "23-12-19",
            "date": "2018-12-01",
            "timestamp": 1543705939,
            "value": 606.55,
            "unit": "Farenheit"
      }
}
```

Alert Payloads

Alert payloads contain alert data. The payload JSON file should contain a single key, “alert” followed by a map/dictionary value that has optional and required fields, described below

Required fields

1. timestamp: integer, Unix Epoch UTC
2. title: string, Alert Title
3. message: string, Alert Message
4. source: string, Source of alert

Optional fields

1. date : string date with format YYYY-MM-DD
2. time : string time with format HH-MM-SS
3. trace : string trace or stack dump

Examples


```
{
      "alert": {
            "source": "sensor_1",
            "title": "Sensor 1 disconnected",
            "message": "Lost connection to sensor 1. Cannot poll
data",
            "time": "23-12-19",
            "date": "2018-12-01",
            "timestamp": 1543705939
      }
}
```