RTDAS REST API

Version 1.0

REST API v1.0

RTDAS REST API communication requires a valid token for authentication of user. This token should be present in header of each request to the server. This token will be provided by the logicladder team.
The token should be kept securely as it is like your username and password. This provides access to your data.

1 API to upload data of a station

This API is used to upload parameters value for a station. A station can be an ETP or a stack. A station can have multiple devices installed to record different environment parameters (cod, bod, tss, pH, flow, Sox, Nox, PM etc).

1.1 **EndPoint**

http://117.239.117.27:9091/SunjrayServer/realtimeUpload

1.2 **Method**

Request should be through POST method.

1.3 **Header**

The request should contain a valid token in Token header. The header format should be:

```
POST SunjrayServer/realtimeUpload HTTP/1.1
Host: 117.239.117.27:9091
token: <token>
```

1.4 **Request JSON**

The json should provide an array of data object, specific to each device installed at a station. The request json to be posted would be :

```
[
    {
        "plantName":"SAIL",
        "plantID":"SAI123",
        "stationID":"2571",
        "stationType":"CEMS",
        "deviceID":"PM104",
        "paName":"CO",
        "paValue":"+00 00 ",
        "paUnit":"mg/m3",
        "timeStamp":"2017/02/11 23:29:46",
        "thresholdValue":"23.3445",
        "latitude":"25.45.78",
        "longitude":"45.78.98"
    },
    {
        "plantName":"SAIL",
        "plantID":"SAI123",
        "stationID":"2571",
        "stationType":"CEMS",
        "deviceID":"PM104",
        "paName":"CO",
        "paValue":"+00 00 ",
        "paUnit":"mg/m3",
        "timeStamp":"2017/02/11 23:29:46",
        "thresholdValue":"23.3445",
        "latitude":"25.45.78",
        "longitude":"45.78.98"
    }
]
```

Table 1.0: Station data upload json fields.

Parameters	Data Type	Description
plantName	String	Name of the Industry or Mines
plantID	String	Unique name of the Industry or Mines which was provided the SPCB at the time of Approval
stationID	Integer	Unique number of the station registered with the SPCB
stationType	String	Analyzer of the Station Value can be as listed below AAQMS CEMS EQMS
deviceID	String	Unique ID of the device
paName	String	Name of the Pollutant which was added while registration
paValue	String	Value of the Pollutant which can be raw / formatted value
paUnit	String	Unit of the Pollutant
timeStamp	String	Timestamp as shown in below format YYYY/MM/DD hh:mm:ss
thresholdValue	Double	Standard value of the Pollutant
latitude	Double	Latitude of the Station
longitude	Doible	Longitude of the Station

1.5 **Response**

Success: If data uploaded successfully

```
HTTP STATUS 200 OK
{
"error": 0,
"message": "success",
"status": 1
}
```

Failure: if data uploaded failed

```
HTTP STATUS  other than 200
{
"error": 1,
"message": "failed",
"status": 0
}
```

2 API to upload delayed Data of an Station

This api is used to upload parameters value of station which not updated using the upload data url. A station can be an ETP or a stack. A station can have multiple devices installed to record different environment parameters (cod, bod, tss, pH, flow, Sox, Nox, PM etc).

2.1 **EndPoint**

http://117.239.117.27:9091/SunjrayServer/delayedUpload

2.2 **Method**

Request should be through POST method.

2.3 **Header**

The request header should contain a valid token in Token header. The header format should be:

```
POST SunjrayServer/delayedUpload HTTP/1.1
Host: 117.239.117.27:9091
token: <token>
```

2.4 **Request JSON**

The json should provide an array of data object, specific to each device installed at a station.
The request json to be posted would be :

```
[
    {
        "plantName":"SAIL",
        "plantID":"SAI123",
        "stationID":"2571",
        "stationType":"CEMS",
        "deviceID":"PM104",
        "paName":"CO",
        "paValue":"+00 00 ",
        "paUnit":"mg/m3",
        "timeStamp":"2017/02/11 23:29:46",
        "thresholdValue":"23.3445",
        "latitude":"25.45.78",
        "longitude":"45.78.98"
    },
    {
        "plantName":"SAIL",
        "plantID":"SAI123",
        "stationID":"2571",
        "stationType":"CEMS",
        "deviceID":"PM104",
        "paName":"CO",
        "paValue":"+00 00 ",
        "paUnit":"mg/m3",
```

```
        "timeStamp":"2017/02/11 23:29:46",
        "thresholdValue":"23.3445",
        "latitude":"25.45.78",
        "longitude":"45.78.98"
    }
]
```

Table 2.0: Station data upload json fields.

Parameters	Data Type	Description
plantName	String	Name of the Industry or Mines
plantID	String	Unique name of the Industry or Mines which was provided the SPCB at the time of Approval
stationID	Integer	Unique number of the station registered with the SPCB
stationType	String	Analyzer of the Station Value can be as listed below AAQMS CEMS EQMS
deviceID	String	Unique ID of the device
paName	String	Name of the Pollutant which was added while registration
paValue	String	Value of the Pollutant which can be raw / formatted value

paUnit	String	Unit of the Pollutant
timeStamp	String	Timestamp as shown in below format YYYY/MM/DD hh:mm:ss
thresholdValue	Double	Standard value of the Pollutant
latitude	Double	Latitude of the Station
longitude	Doible	Longitude of the Station

2.5 **Response**

Success: If data uploaded successfully

```
HTTP STATUS 200 OK
{
"error": 0,
"message": "success",
"status": 1
}
```

Failure: if data uploaded failed

```
HTTP STATUS  other than 200
{
"error": 1,
"message": "failed",
"status": 0
}
```