

Contact persons:

info@proteus-sensor.de

info@e-sensorix.com

API for the Azure server

Data request

- Connection information for the data request:

The web address of the API-service on the Azure cloud is the following:

URL: *http://aes-gate-ecofrog.azurewebsites.net/Api/FuncDevice*

Port: *80*

- Protocol and format of the data request / data response:

The API is using the HTTP-protocol for web communication. Both the data request and the data response have a predefined JSON-format.

- Content of the data request:

The JSON-request has to include the following parameters for authentication:

- Username: The customer number from the Azure database
- E-mail: The e-mail used as user name in the Azure Frontend
- Security Stamp: A security token from the Azure database
- DeviceID: The serial / IMEI – number of the sensor [optional]

(The parameters will be provided after customer registration.)

- Request schema:

POST

http://aes-gate-ecofrog.azurewebsites.net/Api/FuncDevice

Body:

```
{"DeviceRequest":
{
  "Username": "string",
  "Email": "string",
  "SecurityStamp": "string",
  "DeviceID": "string"
}
}
```

string = customer-specific value

Example:

```
{"DeviceRequest":{"Username":"User1","Email":"user1@google.de","SecurityStamp":"8f73baaf-d38c-4e84-9289-e3524e298505","DeviceID":"35909"}}
```

API for the Azure server

Data response

- Content of the data response:

Generally the API transmits the current measurement data of a sensor.

If the DeviceID is not specified in the JSON-request ("DeviceID":""), the API transmits the current measurement data of all sensors of a particular customer.

- Response schema:

```
Body: {
  "DeviceResponse": {
    {
      "DeviceID": "string",
      "DeviceName": "string",
      "Medium": "string",
      "LastUpdate": "string",
      "MaxVolume": "string",
      "ActualVolume": "string",
      "ActualVolumePercent": "string",
      "Battery": "string",
      "Temperature": "string"
    }
  }
}
```

string = sensor-specific value

Example:

```
{
  "DeviceResponse": {
    "DeviceID": "35909",
    "DeviceName": "EcoFrog_user1",
    "Medium": "Heizöl",
    "LastUpdate": "3/01/2020 7:06:58 PM",
    "MaxVolume": "300",
    "ActualVolume": "279",
    "ActualVolumePercent": "93",
    "Battery": "3",
    "Temperature": "79"
  }
}
```

- Transmitted parameters

- | | |
|------------------------|---|
| ▪ DeviceID: | Serial (EcoFrog/EcoGate) or IMEI (EcoCloud) of the sensor |
| ▪ DeviceName: | Sensor name in the Azure database |
| ▪ Medium: | Medium name in the Azure database |
| ▪ LastUpdate: | Timestamp of data (MM/TT/YYYY HH:MM:SS PM/AM) |
| ▪ MaxVolume: | Maximum filling volume in liters |
| ▪ ActualVolume: | Current volume = last value of sensor, in liters |
| ▪ ActualVolumePercent: | Current volume = last value of sensor, in percent |
| ▪ Battery: | Battery voltage of the sensor, in volts |
| ▪ Temperature: | Current temperature at the sensor location, in Fahrenheit |