Proteus Wi-Fi Sensors

XML API Introduction

About XML Protocol

XML is a convention for transfer of internet content especially when used for RPC (Remote Procedure Call) applications

How to access Proteus sensor data in XML format

Proteus sensors support XML api through a URL call. To access the device data from any sensor, simply call the url "Device-IP-Address/status.xml". Depending on how the network is configured, make sure to add any port forwards if present to the IP address.

Parsing the XML Data

A sample XML response from a Proteus Wi-Fi sensor is shown below.

```
<response>
     <sid0>187902B</sid0> -- Device Serial Number
     <stu0>OK</stu0>
                              -- Device Status
     <tm0>32.0</tm0>
                              -- Temperature
     <hu0>.0</hu0>
                              -- Humidity
     <i10>.0</i10>
                              -- Illumination
     <pot0>1381237861</pot0> -- Time Stamp (UTC)
<tup0>F</tup0>
     <tun0>F</tun0>
                              -- Temperature Units
     <thm>73.4</thm>
                              -- Temperature Sensor #2 (Thermistor)
     <vin>0.0</vin>
                               -- Motion Sensor (See notes)
     <cin>0</cin>
                              -- Door Sensor
     <fin>0</fin>
                              -- Flood/ water sensor
     <Gsn0>0</Gsn0>
                              -- Not used/ future expansion
     <Gpn0>0</Gpn0>
                              -- Not used/ future expansion
     <led0>1</led0>
     <led1>1</led1>
     <btn0>up</btn0>
</response>
```

Notes

- 1. XML tags may be present even when a particular sensor is not present.
- 2. Motion sensor provides voltage output. A value of 2.5 or more shows motion.
- 3. For flood sensor, 0 means Dry and 1 means Wet.
- 4. For door sensor, 0 means Open and 1 means Closed.