Type of data: ASCII Strings (ready to use data)

Type of Protocol: TCP

Data separator: character – comma i.e. ‘ **,** ’ (CSV format)

Each of below data is separated by data separator i.e. “Comma”

String format:

**Now,date,time,imei,signal strength,voltage,latitude,longitude,ADC1,ADC2,ADC3,ADC4,ADC5,ADC6,RELAY1\_state, RELAY2\_state, RELAY3\_state, RELAY4\_state, RELAY5\_state, RELAY6\_state$**

|  |  |
| --- | --- |
| Now | Start of string |
| Date | format yy/mm/dd |
| Time | format hh:mm |
| Imei | format 15 digit imei |
| Signal strength | format +/-SS dBm |
| Volatge | format X.xx V |
| Lattitude | format “LL.LLLLLL” |
| Longitude | format “LL.LLLLLL” |
| ADC1 | Value from sensor - 0 to 1024 |
| ADC2 | Value from sensor - 0 to 1024 |
| ADC3 | Value from sensor - 0 to 1024 |
| ADC4 | Value from sensor - 0 to 1024 |
| ADC5 | Value from sensor - 0 to 1024 |
| ADC6 | Value from sensor - 0 to 1024 |
| RELAY1\_state | Either “Relay1\_on” or “Relay1\_off” |
| RELAY2\_state | Either “Relay2\_on” or “Relay2\_off” |
| RELAY3\_state | Either “Relay3\_on” or “Relay3\_off” |
| RELAY4\_state | Either “Relay4\_on” or “Relay4\_off” |
| RELAY5\_state | Either “Relay5\_on” or “Relay5\_off” |
| RELAY6\_state | Either “Relay6\_on” or “Relay6\_off” |
| $ | End of string |

Command From Server Side..

To trigger realy:

Format : imei,RELAY1\_state , where state can be “ON” or “OFF”

To read Sensor:

Format: imei,READ\_SENSORS