

19 WCC Lite internal signals

Overview

The WCC Lite contains several internal data points for readout and control which can be accessed via the Pooler service.

Configuration

Devices section

In the devices section, only the protocol, scan_rate_ms and poll_delay_ms are to be configured for this type of device.

WCC Lite internal signals

| Parameter | Type | Description | Required | Default Value (when not specified) | Range |
|---------------|---------|--|----------|---------------------------------------|----------------------|
| name | string | User-friendly device name | Yes | | |
| device_alias | string | Alphanumeric string to identify a device | Yes | | |
| protocol | | Protocol identifier Internal data | Yes | | Internal data |
| scan_rate_ms | integer | Update rate | No | 60000 | |
| poll_delay_ms | integer | Poll delay | No | 200 | |



It is advised to set scan_rate_ms to a value greater than 5000 milliseconds as frequent scans may significantly overload the internal data process.

The signals section

tag_job defines the tagging job. This can be set to gpio, board, netstat, gsm, led and process. tag_job_todo defines the job sub job. This field should address the particular point of interest. There is also an optional extra trigger parameter. It allows changing when the signal switches between on and off and is only applicable to LED and GPIO parameters that can be set. The default trigger is value>0. When a **trigger** column is added the trigger can be changed by entering i.e. "value>10". This is useful when mapping a source signal to trigger a relay. An example of how to use a trigger is in the example configuration attached to this page. [Excel Configuration Example](#)



Digital-input GPIO will only work with Hardware versions 1.4 and above.



Certain GSM parameters will only work if a SIM card is inserted.

| job_todo | Description | tag_job_todo | Description |
|----------|-----------------------------|---------------|--|
| gpio | ReadOnly parameters | digital-input | If the value is 1 then the digital input pin is high. If it's 0 then the digital-input value is low. |
| | | rs232-enable | If the value is 1 then rs232 is enabled. If the value is 0 then rs485 is enabled. |
| | Parameters that can be set. | sim-detect | Informs whether the sim is inserted. |
| | | relay | Making this value equal to 1 will activate the relay. |

| | | | |
|---------------------|---------------------------------|-----------------|--|
| board | Board info | cpu-usage | CPU usage % |
| | | ram-usage | RAM usage % |
| | | mac-address | Device MAC address |
| | | uptime | Device uptime in seconds |
| | | fw-version | Firmware version |
| | | hw-version | Hardware version |
| | | modem-imei | Modem IMEI number |
| | | modem-type | Modem type: 0 - unknown 1 - single sim 2 - dual sim |
| netstat[[interface] | Network statistics | TX | Bytes transferred |
| | | RX | Bytes received |
| led | LED status/control | blue-heartbeat | Heartbeat LED |
| | | blue-wlan | WLAN LED |
| | | green-eth0 | ETH0 LED |
| | | green-eth1 | ETH1 LED |
| | | green-signal1 | Signal 1 LED |
| | | green-signal2 | Signal 2 LED |
| | | green-signal3 | Signal 3 LED |
| | | red-fault | Fault LED |
| process | Check if the process is running | [process name] | 1 or 0 is returned |
| gsm | GSM information | rat-number | GSM RAT number |
| | | imsi-number | GSM IMSI number |
| | | internet-status | GSM Internet status |
| | | operator-number | GSM operator number |
| | | roaming-status | GSM roaming status |
| | | signal-quality | GSM signal quality |
| | | sim-status | SIM card status |
| | | | |

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|------|--------------------------|-------------|---|
| | | sim-select | if the value is 0, sim1 will be selected, if the value is 1, sim2 will be selected. |
| | | modem-reset | Making this value equal to 1 will reset the modem. |
| date | Current set time values. | year | The current year set on the device |
| | | month | The current month set on the device |
| | | day | The current day set on the device |
| | | hour | The current hour set on the device |
| | | minute | The current minute set on the device |
| | | second | The current second set on the device |