#### Coiot protocol version

Coiot protocol version can be obtained from option 3332 (COIOT\_OPTION\_GLOBAL\_DEVID) : <devtype>#<devid>#<version>Devices with FW < v1.8.0 will return version "1", e.g.: SHSW-1#A020A6146209#1
Devices with FW >= v1.8.0 will return version "2", e.g.: SHSW-1#A020A6146209#2

#### /cit/s "G"

For example:

```
"G":[

[

0,

1101,

1

],

[

0,

1104,

136

]
```

There are no changes in the format of the status packet. As before, each property is communicated with a <channel> (for now, always 0), <id> and <value>.

#### Serial

v1.8.0 will introduce a new internal mechanism for incrementing the serial of Coiot status packets.

- Each time there is a "significant" change in the device state (input/output change, new measurements, ...), the serial will be incremented and a new Coiot status packet with this serial will be sent. Which changes are "significant" and which not is decided by the device, using e.g. internal thresholds etc.
- From the above follows that receiving a Coiot status packet with new serial is an indication you must process it.

Note: It IS POSSIBLE to receive a Coiot status packet with new serial but no changes in the content compared to the previous one. Short explanation: this can happen when a property has changed and the device has increased the serial, but the property is not included in the Coiot status packet. Long explanation: in v1.8.0 the serial for Cloud and Coiot status packets has been unified to make it possible to relate between the two. Since Coiot status packets only contain a subset of the information sent to Cloud (space restrictions, stuff only Cloud is interested in, etc.) it's normal to sometimes receive Coiot status packets with increased serial but unchanged content.

- From the above follows that receiving a Coiot status packet with unchanged serial is an indication you can drop it.

Note: It IS POSSIBLE to receive a Coiot status packet with same serial but changed content compared to the previous one. For example, let's say you have set periodic Coiot status updates to be every 15s. If some measurement in the device changes only a little bit (below "significant" threshold), you'll be getting new packets every 15s with something like "value":23.15, "value":23.16, "value":23.17,... but the serial will remain the same. It's ok to drop such packets. When the measurement changes "enough", you'll get a new packet with incremented serial.

- Serial will always be incremented monotonically (i.e. +1). If you have a packet with serial "4" and the next is with serial "6" it means "5" got lost and didn't reach you.

### /cit/d "blk"

For example:

"I":<id> (mandatory)

- <id> is recommended to start from 1 for the first declared block and increment monotonically (i.e. +1) for subsequent blocks. Right now all devices (except Shelly 2 / Shelly 2.5 in relay mode) follow this recommendation, but in general it's not forbidden to declare blocks with arbitrary <id>s.

#### "D":<description> (mandatory)

- <description> is recommended to be one word, camelCase or camelCase\_N (where N is some number). Right now all devices follow this recommendation, but in general it's not forbidden to have longer descriptions.
- "device" block will always be present.

#### /cit/d "sen"

For example:

```
"sen":[

{
    "I":1101,
    "T":"S",
    "D":"output",
    "L":1
},
{
    "I":1201,
    "T":"S",
    "D":"output",
    "R":"0/1",
    "L":2
}
```

According to the new Coiot convention, device descriptions will strive to provide *all* properties supported by the device, even if they are currently disabled/unavailable on the specific device. For example, a Shelly 1 will always include a description of properties related to external (add-on) sensors, even if they are not currently attached (but of course, in this case they will be hidden from the status packet). At the moment, the only exception to this is Shelly 2 / Shelly 2.5, as there simply isn't enough space to include all properties for relay and roller mode, and descriptions change depending on the mode.

#### "I":<id> (mandatory)

All devices will follow an internal scheme to generate <id>s for properties (i.e. specific <id>s map to specific properties), but this should NOT be relied upon. You should assume <id>s have no external meaning and treat them just as numbers to precisely "name" a property.

### "T":<type> (mandatory)

- <type> will always be 1 to 3 characters, only capital letters.

For now the following types are declared:

"A" Alarm "B" Battery level "C" Concentration "E" Energy "EV" Event "EVC Event counter "H" Humidity "I" Current "L" Luminosity "P" Power Status (catch-all if no "S" other fits) "T" Temperature

"EV" (Event) and "EVC" (Event counter) are newly introduced types to be able to communicate the occurrence of events. Right now such events are for example shortpush/longpush of buttons – devices will send a property of type "EV" to denote the exact event type ("S" = shortpush, "L" = longpush), and a property of type "EVC" that will increment it's value when a new event occurs (e.g. to be able to know that two consecutive longpushes are actually two separate events). Please see "Input event" and "Input event counter" in the property list below for additional information.

## "D":<description> (mandatory)

- <description> is recommended to be one word, camelCase or camelCase\_N (where N is some number) - e.g. "output", "rollerPos". Right now all devices follow this recommendation, but in general it's not forbidden to have longer descriptions (consider them "free text" - for a human reading the description to get a better understanding of the property).

#### "U":<unit> (optional)

- "U":<unit> is a newly introduced optional attribute. If it's necessary to specify a dimension for a property, it will be done here, not in <type> or <description>.

For now the following units are declared:

"W" Watts "Wmin" Watt minutes "Wh" Watt hours "\/" Volts "A" Amperes "C" Celsius "F" Fahrenheit "K" Kelvin "deg" degrees (angle)

"lux" Lux

parts per million "ppm" seconds

#### "R":<range> (optional)

<range> has been allowed to be either:

- a single string, specifying normal range in form "from/to", "valueX/valueY/.../valueZ" or "<I|U><8|16|32>", the latter showing expected sIgned or Unsigned integer size
- an array of strings, specifying normal range and invalid value in form ["<normal>","<invalid>"]. "<invalid>" = the value you'll get if "real" data is unavailable at the moment (e.g. sensor broke)

### For example:

"0/100" - normal range is from 0 to 100; no invalid value

"obstacle/overpower/safety\_switch" - normal range is "obstacle", "overpower" or "safety\_switch"; no invalid value

["0/255","999"] - normal range is from 0 to 255; invalid value is 999

["U16","-1"] - normal range is uint16, invalid value is -1

#### "L":<links> (mandatory)

No changes here - < links> can be a single integer or array of integers with <id>s of device blocks to which a property relates.

# List of properties

Below is list of all properties currently reported by the devices with short comments on their meaning. Please bear in mind that this is just a generalized example - attributes such as e.g. <range> are device specific and can differ from what you see here.

#### OUTPUT

Output state	type	"S"	OFF/ON state of an output (relay/light channel).
	description	"output"	
	unit	-	7
	range	"0/1"	
		·	
	type	"S"	State of the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode.
Roller state	description	"roller"	
Roller State	unit	-	
	range	"open/close/stop"	
	type	"S"	Position (%) of the roller (fully opened - 0, fully closed - 100), if roller
Boller position	description	"rollerPos"	is calibrated. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode.
Roller position	unit	-	
	range	["0/100","-1"]	
	type	"S"	Total work (ON) time of an output. Stored in non-volatile memory.  Currently applicable for Shelly Air.
Output total work	description	"totalWorkTime"	
time	unit	s	
	range	"U32"	
	type	"S"	State of attached valve, currently applicable for Shelly Gas.
	description	"valve"	
Valve state	unit	-	
varve state		["closed/opened/not_connected/ failure/closing/opening/	
	range	checking","unknown"]	

### **INPUT**

	type	"S"	OFF/ON state of an input (switch).	
ln.	nut state	description	"input"	
Input state	ipui siale	unit	-	
	range	"0/1"		

		colot new cor	ivention	
Input event	type description unit	"EV" "inputEvent"	This is a new property, that together with "Input event counter" shall be used to evaluate events such as shortpush/longpush/etc. It provides a short string, denoting the last detected input event ("S" = shortpush, "L" = longpush,). "" (empty string), means that no event has occurred yet, or that the last detected event is invalid (i.e. not among the recognized patterns). Please note that range of detected events is device specific. Not stored in non-volatile memory.	
	range	["S/L/SS/SSS/SL/LS",""]		
	type	"EVC"	Incremented each time a new input event is detected (the exact type	
Input event counter	description unit	"inputEventCnt"	of the event doesn't matter). The counter is not stored in non-volatile memory.	
	range	"U16"		
		SENSOF	RS	
	type	"T"	Temperature (in C) measured by an external sensor (e.g. Shelly 1 with DS1820/DHT22 add-on) or ambient temperature (e.g. Shelly	
External temperature C	description	"extTemp"	H&T). This is a separate property since some devices also measure internal device temperature and it should be distinguished between the two. 999 if no valid temperature reading is available at the	
	unit	"C"	moment.	
	range	["-55/125","999"]		
	type	"T"	Same as above but in F.	
External	description	"extTemp"		
temperature F	unit	"F"	_	
	range	["-67/257","999"]		
	type	"H"	Measured humidity (e.g. Shelly 1 with DHT22 add-on or Shelly	
11	description	"humidity"	H&T). 999 if no valid humidity reading is available at the moment.	
Humidity	unit range	- ["0/100"."999"]		
	1 3 -	[[ , ,		
	type	"Т"	This is the internal temperature (in C) measured by devices which	
Internal device	description	"deviceTemp"	control an output (relay, light) to prevent them from overheating (e.g. Shelly 1PM). 999 if no valid temperature reading is available at the	
temperature C	unit	"C"	moment.	
	range	["-40/300","999"]		
	L	(4±1)	Occurs as about but in 5	
Internal device	type description	"T" "deviceTemp"	Same as above but in F.	
temperature F	unit	"F"	<del>-</del>	
-	range	["-40/572","999"]		
	L	las n	Lucianista and the Fight and the Obella Course Africa	
	type description	"L" "luminosity"	Luminosity measured by a light sensor (e.g. Shelly Sense)1 if no valid sensor reading is available at the moment.	
Luminosity	unit	"lux"	Table Series reading to distance at the memoria	
	range	["U32", "-1"]		
			Managed and the state of a sub-time of a sub	
	type	"C"	Measured concentration of a substance. Currently applicable for —Shelly Gas to measure gas concentration in ppm1 when there is a	
Concentration	description	"concentration"	sensor error, reading temporarily unavailable (e.g. sensor not ready), etc.	
	unit	"ppm"	ready), etc.	
	range	["U16","-1"]		
	type	"S"	Door/window opened or closed. Currently applicable for Shelly	
Door/window	description	"dwlsOpened"	DoorWindow1 if no valid sensor reading is available at the	
state	unit	- ["O/1" " 1"]	moment.	
	range	["0/1","-1"]		
	type	"S"	Tilt of door/window. Currently applicable for Shelly DoorWindow1 if	
Door/window tilt	description	"tilt"	no valid sensor reading is available at the moment.	
Door, will dow the	unit	"deg"		
	range	["0/180","-1"]		
type "S" Level of luminosity, evaluated by comparing the				
Lumainaaikaalaa	description	"luminosityLevel"	sensor to set thresholds (e.g. Shelly DoorWindow). "unknown" if no	
Luminosity level	unit	-	valid sensor reading is available at the moment.	
	range	["dark/twilight/bright","unknown"]		
	type	"B"	Battery level (%) of sleeping devices (e.g. Shelly H&T)1 if no valid	

Battery level	description	"battery"	sensor reading is available at the moment.
	unit	-	
	range	["0/100","-1"]	
	type	"S"	Presence of external power supply (e.g. Shelly Sense)1 if no valid
Charger	description	"charger"	sensor reading is available at the moment.
	unit	-	]
	range	["0/1","-1"]	
	typo	"S"	Sensor operating mode. Currently applicable for Shelly Gas.
	type description	"sensorOp"	unknown" returned when e.g. communication with the sensor is losi
Sensor operation	unit	-	
	range	["warmup/normal/fault","unknown"]	
	tuno	"S"	Companies and inches for Challes Consultance of the internal colf
	type description	"selfTest"	Currently applicable for Shelly Gas, shows state of the internal self- test.
Self-test state	unit	-	<del>-</del>
		"not_completed/completed/running/	1
	range	pending"	
	type	"S"	Absence/presence of an internal sensor error.
Compan owner	description	"sensorError"	7 massiness processings on an innormal earness stress.
Sensor error	unit	-	
	range	"0/1"	
	type	"S"	Day/night level of luminosity, evaluated by comparing the reading of
	description	"dayLight"	a light sensor to set thresholds (e.g. Shelly Spot)1 if no valid
Day/night	unit	-	sensor reading is available at the moment.
	range	["0/1","-1"]	
	tuno	"S"	From v1.8.0 devices which support add-ons (e.g. Shelly 1PM) will b
External input	type description	"extInput"	able to read not only external temp/humidity sensors, but also
state	unit	-	external low-power switches.
	range	"0/1"	
		POWER & ENE	ERGY
	tyne	"D"	
Output	type description	"P" "power"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is
	description unit	"power"	Instantaneous power consumed by the electrical appliance attached
instantaneous	description	"power"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is
instantaneous	description unit range	"power"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.
instantaneous power Roller	description unit	"power" "W" ["0/3500","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is
instantaneous power	description unit range  type description unit	"power" "W" ["0/3500","-1"] "P" "rollerPower" "W"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable
instantaneous power Roller instantaneous	description unit range type description	"power" "W" ["0/3500","-1"] "P" "rollerPower"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is
instantaneous power Roller instantaneous	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.
instantaneous power Roller instantaneous	description unit range  type description unit	"power" "W" ["0/3500","-1"] "P" "rollerPower" "W"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter
Roller instantaneous power  Output energy	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile
Roller instantaneous power	description unit range  type description unit range	"power"  "W"  ["0/3500","-1"]  "P"  "rollerPower"  "W"  ["0/3680","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter
Roller instantaneous power  Output energy	description unit range  type description unit range  type description unit range  type description	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile
Roller instantaneous power  Output energy	description unit range  type description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.
Roller instantaneous power  Output energy	description unit range  type description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin"	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)	description unit range  type description unit range  type description unit range  type description	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile
Roller instantaneous power  Output energy	description unit range  type description unit range  type description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter
Roller energy Roller energy	description unit range  type description unit range  type description unit range  type description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile
Roller energy Roller energy	description unit range  type description unit range  type description unit range  type description unit range	"power"  "W"  ["0/3500","-1"]  "P"  "rollerPower"  "W"  ["0/3680","-1"]  "E"  "energy"  "Wmin"  ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)	description unit range  type description unit range  type description unit range  type description unit range  type type type type type type type ty	"power"  "W"  ["0/3500","-1"]  "P"  "rollerPower"  "W"  ["0/3680","-1"]  "E"  "energy"  "Wmin"  ["U32","-1"]  "E"  "rollerEnergy"  "Wmin"  ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid.
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an
Roller energy counter (total)  Roller energy counter (total)	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid.
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)	description unit range  type description unit range  type description unit range  type description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]  "P" "power" "W" ["0/3500","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)  Emeter active power  Emeter total energy (non-	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]  "P" "power" "W" ["0/3500","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)  Emeter active power	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]  "P" "power" "W" ["0/3500","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment. Stored in non-volatile
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)  Emeter active power  Emeter total energy (non-	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]  "P" "power" "W" ["0/3500","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment. Stored in non-volatile
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)  Emeter active power  Emeter total energy (non-	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]  "P" "power" "W" ["0/3500","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment  Total energy consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment. Stored in non-volatile memory.
Roller instantaneous power  Roller instantaneous power  Output energy counter (total)  Roller energy counter (total)  Emeter active power  Emeter total energy (non-	description unit range  type description unit range	"power" "W" ["0/3500","-1"]  "P" "rollerPower" "W" ["0/3680","-1"]  "E" "energy" "Wmin" ["U32","-1"]  "E" "rollerEnergy" "Wmin" ["U32","-1"]  "P" "power" "W" ["0/3500","-1"]	Instantaneous power consumed by the electrical appliance attached to an output (relay/light channel)1 if no valid meter reading is available at the moment.  Instantaneous power consumed by the roller. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical appliance attached to an output (relay/light channel) since last reboot1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Energy consumed by the roller since last reboot. Currently applicable for Shelly 2 / Shelly 2.5 in roller mode1 if no valid meter reading is available at the moment. Not stored in non-volatile memory, so an accumulator should be kept locally.  Active power consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment.  Total energy consumed by the electrical circuit monitored by an emeter, currently applicable for Shelly EM / Shelly 3EM1 if no valid meter reading is available at the moment. Stored in non-volatile

		coio	
(non-volatile)	unit	"Wh"	memory.
	range	["U32","-1"]	
	type	" <b>V</b> "	Voltage of the electrical circuit monitored by an emeter, currently
	description	"voltage"	applicable for Shelly EM / Shelly 3EM1 if no valid meter reading i
Emeter voltage	unit	"V"	available at the moment.
	range	["0/265","-1"]	
	<del>1.</del>	loon	
	type	" "	Current of the electrical circuit monitored by an emeter, currently
Emeter current	description unit	"current" "A"	applicable for Shelly EM / Shelly 3EM1 if no valid meter reading i available at the moment.
	range	["0/120","-1"]	
		[ 0/120 , 1 ]	
	type	"S"	Power factor of the electrical circuit monitored by an emeter,
	description	"powerFactor"	currently applicable for Shelly EM / Shelly 3EM1 if no valid meter
factor	unit	-	reading is available at the moment.
	range	["0/1","-1"]	
			LIGHTS
	type	"S"	Light channel brightness (%).
Brightness	description	"brightness"	
Diigiidiess	unit	- "0/4 00"	
	range	"0/100"	
	type	"S"	Light channel gain (%).
	description	"gain"	Light channel gain (%).
Gain	unit	-	
	range	"0/100"	
	type	"S"	Light channel color temperature.
Color	description	"colorTemp" "K"	
temperature	unit range	"2700/6500"	
	range	2700/0300	
	type	"S"	Light channel white level (%), warmest (0) to coolest (100).
White level	description	"whiteLevel"	-9
(warm/cool)	unit	-	
	range	"0/100"	
	Te	"O"	li toler de consultant a consultant la deleta cons
	type description	"S" "red"	Light channel red component brightness.
Red brightness	unit	-	
	range	"0/255"	
		'	<u>'</u>
	type	"S"	Light channel green component brightness.
Green brightness	description	"S" "green"	Light channel green component brightness.
Green brightness	description unit	"green" -	Light channel green component brightness.
Green brightness	description		Light channel green component brightness.
Green brightness	description unit range	"green" - "0/255"	
-	description unit range type	"green" -	Light channel green component brightness.  Light channel blue component brightness.
Green brightness Blue brightness	description unit range	"green" - "0/255"	
-	description unit range type description	"green" - "0/255"	
	description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"	Light channel blue component brightness.
-	description unit range  type description unit range  type type type	"green" - "0/255"  "S" "blue" - "0/255"	
-	description unit range  type description unit range  type description unit description	"green" - "0/255"  "S" "blue" - "0/255"	Light channel blue component brightness.
Blue brightness	description unit range  type description unit range  type description unit type description	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" -	Light channel blue component brightness.
Blue brightness	description unit range  type description unit range  type description unit description	"green" - "0/255"  "S" "blue" - "0/255"	Light channel blue component brightness.
Blue brightness	description unit range  type description unit range  type description unit type description	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" -	Light channel blue component brightness.
Blue brightness	description unit range  type description unit range  type description unit range  type description unit	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"	Light channel blue component brightness.  Light channel white component brightness.  ALARMS
Blue brightness White brightness	description unit range  type description unit range  type description unit type description	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" -	Light channel blue component brightness.  Light channel white component brightness.  ALARMS
Blue brightness White brightness	description unit range  type description unit range  type description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"	Light channel blue component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1
Blue brightness White brightness	description unit range  type description unit range  type description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"	Light channel blue component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1
Blue brightness White brightness	description unit range  type description unit range  type description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"  "A" "overtemp" - ["0/1", "-1"]	Light channel blue component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1 no valid temperature reading is available at the moment.
Blue brightness  White brightness  Internal device overtemperature	description unit range  type type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"  "A" "overtemp" - ["0/1", "-1"]	Light channel blue component brightness.  Light channel white component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1 no valid temperature reading is available at the moment.  Absence/presence of an overpower condition1 if no valid meter
Blue brightness White brightness Internal device overtemperature Output	description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"  "A" "overtemp" - ["0/1", "-1"]	Light channel blue component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1 no valid temperature reading is available at the moment.
Blue brightness  White brightness  Internal device overtemperature	description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"  "A" "overtemp" - ["0/1", "-1"]  "A" "overpower" -	Light channel blue component brightness.  Light channel white component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1 no valid temperature reading is available at the moment.  Absence/presence of an overpower condition1 if no valid meter
Blue brightness White brightness Internal device overtemperature Output	description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"  "A" "overtemp" - ["0/1", "-1"]	Light channel blue component brightness.  Light channel white component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1 no valid temperature reading is available at the moment.  Absence/presence of an overpower condition1 if no valid meter
Blue brightness White brightness Internal device overtemperature Output	description unit range  type description unit range	"green" - "0/255"  "S" "blue" - "0/255"  "S" "white" - "0/255"  "A" "overtemp" - ["0/1", "-1"]  "A" "overpower" -	Light channel blue component brightness.  Light channel white component brightness.  Light channel white component brightness.  ALARMS  Absence/presence of internal device overtemperature condition1 no valid temperature reading is available at the moment.  Absence/presence of an overpower condition1 if no valid meter

		Color new Con	vention
Kullel Stup	unit	-	7
reason		"normal/safety_switch/obstacle/ overpower"	
	range	overpower	
	L	" A "	About the Charles of Landau and Charles Discourse
Load error	type	"A"	Absence/presence of load error (e.g. Shelly Dimmer).
	description	"loadError"	
	unit	-	
	range	"0/1"	
	type	"A"	Absence/presence of smoke1 if no valid sensor reading is
	description	"smoke"	available at the moment.
Smoke alarm	unit	-	1
	range	["0/1","-1"]	
	j. ca. 190	[ 0,1 , 1 ]	
	typo	"A"	Absence/presence of flood1 if no valid sensor reading is available
	type		at the moment.
Flood alarm	description	"flood"	at the moment.
	unit	-	
	range	["0/1","-1"]	
	type	"A"	Absence/presence of motion1 if no valid sensor reading is
Motion ologen	description	"motion"	available at the moment.
Motion alarm	unit	-	
	range	["0/1","-1"]	
	1 . 3 .	L , ]	
	type	"A"	Absence/presence of gas. Currently applicable for Shelly Gas. "test"
	description	"gas"	returned when alarm is due to a triggered self-test. "unknown" if no
Gas alarm	<u> </u>	yas	valid sensor reading is available at the moment.
	unit		
	range	["none/mild/heavy/test","unknown"]	
	type	"P"	From v1.8.0 some devices will be able to report not only a boolean
	da a suita di a sa	""	flag of overpower condition, but also the power value at which the
Overpower value	description	"overpowerValue"	overpower condition has occurred. 0 when in normal operation no valid meter reading is available at the moment.
	unit	"W"	no valid meter reading is available at the moment.
		[#1122] # 42]	
	range	["U32", "-1"]	
	1.	lu - u	1
	type	"A"	Absence/presence of door/window vibration. Currently applicable
Door/window	description	"vibration"	Shelly DoorWindow1 if no valid sensor reading is available at the
vibration	unit	-	moment or vibration detection is disabled.
	range	["0/1","-1"]	
		CENEDA	
		GENERA	<b>1-</b>
	type	"S"	For devices with switchable modes (e.g. Shelly 2.5), indicates
	description	"mode"	current mode (e.g. "relay", "roller", "color", "white",)
Mode	unit	-	
	range	"color/white"	
l .	1 B -	1 2000	
	type	"EV"	For battery operated (i.e. sleeping) devices (e.g. Shelly H&T)
	description	"wakeupEvent"	indicates why the device woke up. Please note that the payload for
Wakeup event		wakeupi-vent	this property's value in status ("G") will be an array of strings with
wancup eveill	unit	["botton/button/sesieslie/sessess"	one or more elements, for example ["sensor", "alarm"].
	range	["battery/button/periodic/poweron/	one of more elements, for example [ sensor , alarm ].
	range	sensor/alarm","unknown"]	
	I.	lu=1 - = 1	
	type	"EVC"	Incremented each time a device setting is changed. Available on all
Config changed	description	"cfgChanged"	devices.
event counter	unit	-	
	range	"U16"	