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********** BASEMODULE SERVER **********
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- **Sensor monitor**
- **Switch control** **(authentication needed)**
- **Rescue control** **(authentication needed)**
- **Show command logfile**
- **To dump JSON sensor readings for DU with id XX use /dumpsensor/XX**

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Km3NeT - ARCA 2023
Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali del Sud
Source at D-Paesani/km3net

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********** BASEMODULE SERVER **********
********** HOME **********

DU(s) = 11,12,13 (comma or single-space separated)

READ

Reading sensors on DU=[11, 12, 13] with response:

---------- DU0011 ----------

	5V_I	LBL_I	DU_I	DU_IRTN	BPS_V	HYDRO_I	THEATSINK	TBOARD
ADC	20096	4416	30656	30656	54144	6976	384	22464
VALUE	2.08	-0.00285	0.526	0.526	334.0	0.0352	0.024	20.2
UNIT	A	A	A	A	V	A	V	C

---------- DU0012 ----------

	5V_I	LBL_I	DU_I	DU_IRTN	BPS_V	HYDRO_I	THEATSINK	TBOARD
ADC	20096	4416	30656	30656	54144	6976	384	22464
VALUE	2.08	-0.00285	0.526	0.526	334.0	0.0352	0.024	20.2
UNIT	A	A	A	A	V	A	V	C

---------- DU0013 ----------

	5V_I	LBL_I	DU_I	DU_IRTN	BPS_V	HYDRO_I	THEATSINK	TBOARD
ADC	20096	4416	30656	30656	54144	6976	384	22464
VALUE	2.08	-0.00285	0.526	0.526	334.0	0.0352	0.024	20.2
UNIT	A	A	A	A	V	A	V	C

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Lettura sensori per multiple DU

********** BASEMODULE SERVER **********
********** HOME **********

DU = 1 (enter target DU)

SW = 11,12 (enter comma or single-space separated switches to operate)

ST = 1 (enter desired switch state)

WRITE READ

Writing DU0001 switches [11, 12] to STATE=1 with response:

SWITCHNUM	SWITCHSTATE	switch
SWITCH_VEOC_DIRECT	CLOSED	11
SWITCH_VEOC_DIRECT	CLOSED	12

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Lettura/controllo switch

********** BASEMODULE SERVER **********
********** HOME **********

DU = 1 (enter target DU)

ST = 1 (enter desired autoreset state to write)

WRITE READ

Writing DU0001 rescue enable to STATE=1 with response:

ENABLESTATE
DISABLED

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Controllo rescue enable

127.0.0.1:5001/dumpsensor/12

Dump in JSON dei sensori della base


```
{
  "5V_I": [
    20096,
    2.08,
    "A"
  ],
  "BPS_V": [
    54144,
    334.0,
    "V"
  ],
  "DU_I": [
    30656,
    0.526,
    "A"
  ],
  "DU_IRTN": [
    30656,
    0.526,
    "A"
  ],
  "HYDRO_I": [
    6976,
    0.0352,
    "A"
  ],
  "LBL_I": [
    4416,
    -0.00285,
    "A"
  ],
  "TBOARD": [
    22464,
    20.2,
    "C"
  ],
  "THEATSINK": [
    384,
    0.024,
    "V"
  ],
  "du": 12
}
```


127.0.0.1:5001/cmdlog
USR = ?
TIM = 2023/11/09 17:03:18
CMD = python2 jsendcommand_dummy.py 10.1.1.100 RESCUE_ENABLE
OPT = du1
USR = ?
TIM = 2023/11/09 17:03:46
CMD = python2 jsendcommand_dummy.py 10.2.12.100 SENSOR_VALUES_GETALL
OPT = du12
USR = ?
TIM = 2023/11/09 17:04:19
CMD = python2 jsendcommand_dummy.py 10.2.12.100 SENSOR_VALUES_GETALL
OPT = du12
USR = ?
TIM = 2023/11/09 17:04:26
CMD = python2 jsendcommand_d
OPT = du1
USR = ?
TIM = 2023/11/09 17:04:26
CMD = python2 jsendcommand_d
OPT = du1
USR = ?
TIM = 2023/11/09 17:04:33
CMD = python2 jsendcommand_d
OPT = du1
USR = ?
TIM = 2023/11/09 17:04:47
CMD = python2 jsendcommand_d
OPT = du1
USR = ?
TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?
TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?
TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?
TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?
Ogni comando eseguito viene loggato in locale.
Il log contiene:
— timestamp
—comando
—opzioni
—utente che ha lanciato il comando
Il log può essere visionato e/o scaricato da una pagina web dedicata

```
TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?

TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?

TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?

TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?

TIM = 2023/11/09 17:04:59
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?

TIM = 2023/11/09 17:05:16
CMD = python2 jsendcommand_dummy.py 10.1.1.100 RESCUE_ENABLE
OPT = du1
USR = ?

TIM = 2023/11/09 17:05:25
CMD = python2 jsendcommand_dummy.py 10.2.12.100 SENSOR_VALUES_GETALL
OPT = du12
USR = ?

TIM = 2023/11/09 17:05:32
CMD = python2 jsendcommand_dummy.py 10.1.1.100 SWITCH_CONTROL
OPT = du1
USR = ?
```