



**SMC**

**FI** by SMC  
*Formula Innovation*



# New GOOSEMeter ONE the IEC-61850 “MULTIMETER”



**No PC dependent**

**Read-only instrument (safe)**

**No configuration (plug & go)**

**Check GOOSE status and changes**

- DataSet/GOOSE monitoring and sniffing tool
- Hand-held device to adapt to reduced space in panels.



## GOOSE activity on real time

- Create templates and reports
- Real-time inspection of IEC-61850 dataset lifecycle
- GOOSE message contents analysis
- Substation's twisted-pair cabling verification
- High definition touch screen
- Updateable by internet



Allows to the engineer to easily identify the GOOSE message sent by an IED in the substation and checking the GOOSE messages that changes its status among the many ones that have not changed



# GOOSEMeter One



Supply

RJ-45 Ethernet

USB

Ethernet LED

GOOSE Traffic

Memory

Touch Screen

Rotary knob





# Goose Sniffer

Identifica los data sets descubiertos en

Update F/W

Goose Sniffer

Remove inactives

Filter by destination

Dataset name

Sender MAC address

Destination MAC address

Status LED

Update		Goose sniffer	
Datasets: 4	<input type="checkbox"/> Purge	<input type="checkbox"/> Filter	
SMC_GOOSESender/ Goose_tx_dataset source: 00:16:a3:00:2a:9b	00:0A	1	<input type="checkbox"/>
SMC_GOOSESender/ Goose_tx_dataset source: 00:16:a3:00:2a:9b	00:0B	2	<input type="checkbox"/>
SMC_GOOSESender_AB/ Goose_tx_dataset source: 00:16:a3:00:2a:9b	00:0B	3	<input type="checkbox"/>
SMC_GOOSESender_AB/ Goose_tx_dataset source: 00:16:a3:00:2a:9b	00:0C	4	<input type="checkbox"/>





# Datasets monitor

- Details and changes of every dataset selected
- Name labelling for every data
- Template edition
- Register changes and ongoing sequence.
- Time of event with microseconds

SI0001JQ22I01Control/ LLN0\$GOOSE2		
Event time:	12:25:09 PM, us:302194	
State:	372	Seq.: 647
data_1		<input type="checkbox"/>
data_2	0000	
data_3		<input type="checkbox"/>
data_4	0000	
data_5		<input type="checkbox"/>
data_6	0000	
data_7		<input checked="" type="checkbox"/>
data_8	0000	

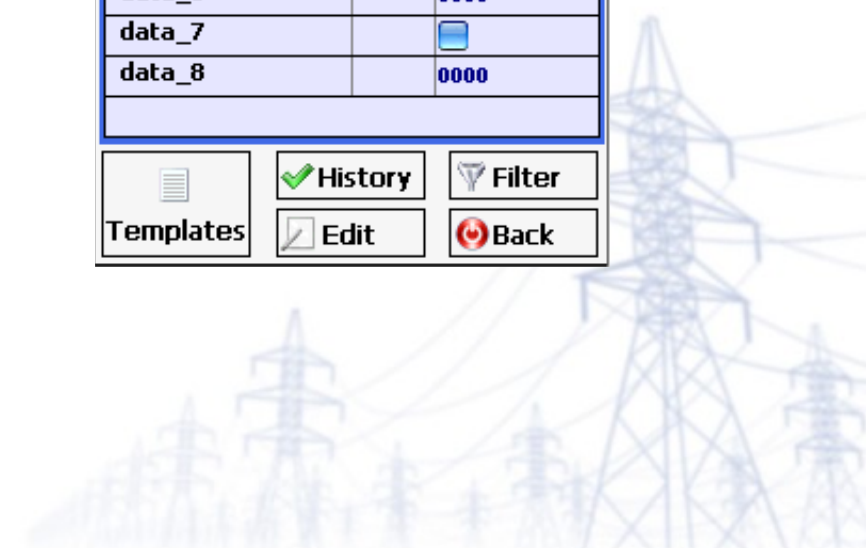
Templates

History

Filter

Edit

Back





# Goose activity on real time

Detalles y actividad en tiempo real del dataset seleccionado.

Actividad de los datos.

Cambios registrados y secuencia en

tiempo de segundos.

Event time

Registered Changes

Sequence with no changes

LED ON/OFF

HEX data

Templates Editor

Labels Editor

SI0001JQ22I01Control/  
LLN0\$GOOSE2 ■

Event time:	12:25:09 PM, us:302194	
State:	372	Seq.: 647

data_1	0000	<input type="checkbox"/>
data_2	0000	<input type="checkbox"/>
data_3	0000	<input type="checkbox"/>
data_4	0000	<input type="checkbox"/>
data_5	0000	<input type="checkbox"/>
data_6	0000	<input type="checkbox"/>
data_7	0000	<input checked="" type="checkbox"/>
data_8	0000	<input type="checkbox"/>

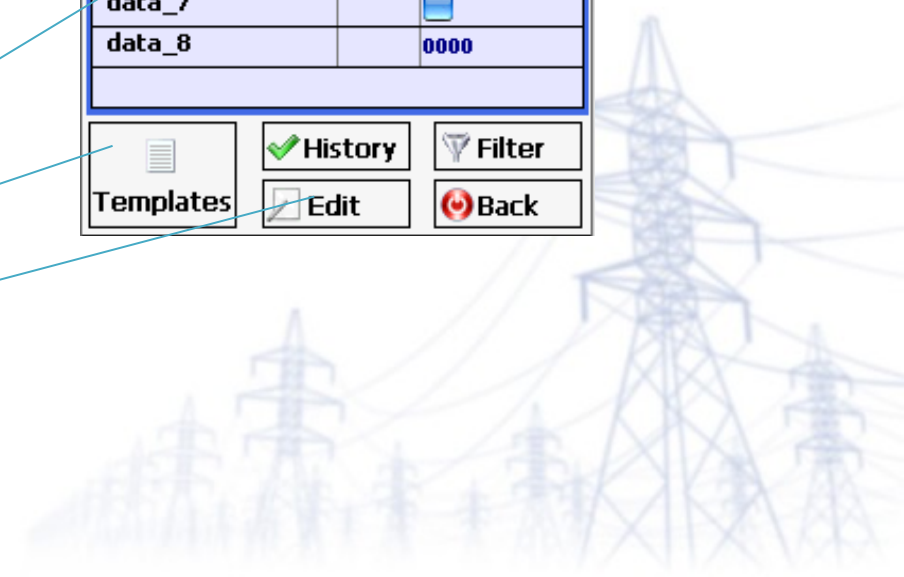
Templates

History

Filter

Edit

Back





# History Panel

List of changes , with time

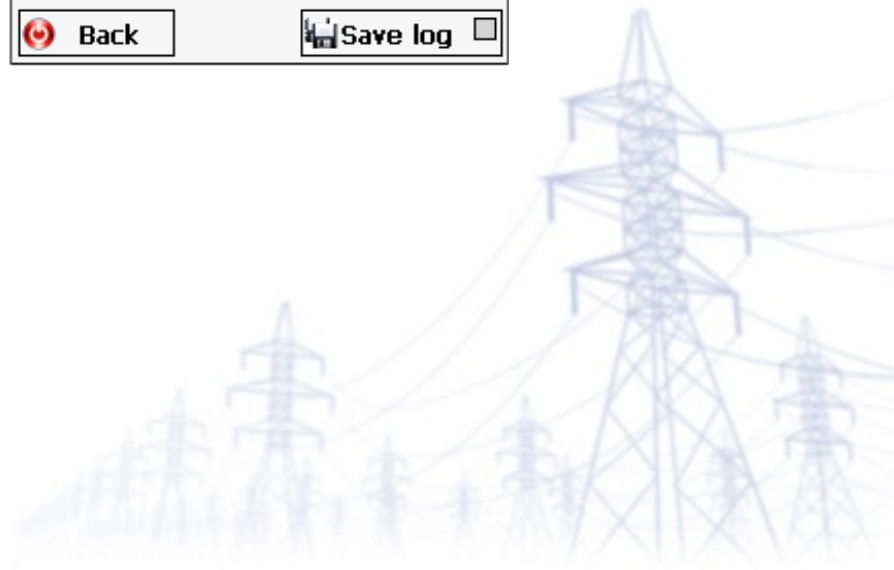
Can be recorded for further analysis

History panel. free mem: 11088 (44%)

Event time: 12:25:09 PM, us:302194

00001.data_8:	0000
00002.data_7:	ON
00003.data_6:	0000
00004.data_5:	OFF
00005.data_4:	0000
00006.data_3:	OFF
00007.data_2:	0000
00008.data_1:	OFF

Back  Save log







GOOSEMeter One



# GooseSync – Download and analysis on Pc

GOOSEMeter V. 1.00 @EuroSMC

**GOOSEMeterOne:**

General information:

History files in device:

Import Delete

Datasets	History date
SI0001JQ21I01CTRL/LLN0\$D...	3/31/2003 ...
SI0001JQ21I01CTRL/LLN0\$D...	3/31/2003 ...
SI0001JQ21I01CTRL/LLN0\$D...	3/31/2003 ...
SI0001JQ22I01Control/LLN0...	10/17/2012...
SI0001JQ21I01CTRL/LLN0\$D...	10/17/2012...
JcrSMC_gcbref/Goose_tx_dat...	10/17/2012...
GEDevice#650/LLN0\$GOOSE1	10/18/2012...
BENAEQ01I02LDInst/LLN0\$G...	10/18/2012...
Goose_emulationGEN/LLN0\$...	10/18/2012...
SI0001FQ62I01LD1/LLN0\$G...	12/4/2012 ...

Property	Value
Destination Ad...	01:0c:cd:01:00:01
Source address:	00:16:a3:00:2a:9b
DatasetREF:	JcrSMC_gcbref/Goose_tx_dat...
GOOSEId:	JcrSMC_gcbref_goID
Ctrl. Block Ref.:	JcrSMC_gcbref\$GSE_DESTINO
History date:	10/17/2012 9:36:35 AM

History files local database:

Templates list in device:

**JcrSMC\_gcbref/Goose\_tx\_dataset**

Event times list:

0000007:	10:36:22 AM, us:520999
0000006:	10:36:21 AM, us:395999
0000005:	10:36:19 AM, us:926999
0000004:	10:36:18 AM, us:316999
0000003:	10:36:16 AM, us:425999
0000002:	10:36:13 AM, us:612999
0000001:	10:35:58 AM, us:938999

**DATA LIST**

Event time:	10:36:22 AM, us:520999
State:	7
Sequence:	1
data_1	<input type="checkbox"/>
data_2	<input type="checkbox"/>
data_3	<input type="checkbox"/>
data_4	<input type="checkbox"/>
data_5	<input type="checkbox"/>
data_6	<input type="checkbox"/>
data_7	<input checked="" type="checkbox"/>
data_8	<input type="checkbox"/>
data_9	<input type="checkbox"/>
data_10	<input type="checkbox"/>





**Thank you very much for your  
kind attention**



**[www.smcint.com](http://www.smcint.com)**

