STATYS

Ethernet Connection

ENICOM Operating manual GB

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INDEX

1. PRESENTATION

1. 1. INTRODUCTION

This document describes the configuration and the function of the Ethernet connection for STATYS range.

Functions available:
- MODBUS TCP
- SNMP agent
- E-mail
- Remote monitoring via embedded Web server

1. 2. TOOLS AND SOFTWARE

The configuration is done via a PC running under WINDOWS. A specific tool (ENIFinder.exe) needs to be copied to the computer.

The PC should be connected to the same Network as STATYS. It's also possible to use an Ethernet cross and point to point cable, for commissioning.

1. 3. NETWORK CONNECTION

The RJ45 connector is located on the front of STATYS's panel. For cabinet, it's necessary to open the door, to access on the connector.

RJ45

2. IP ADDRESS CONFIGURATION

DHCP service is enabled as default configuration.

2. 1. ENIFINDER

This tool is used to configure the TCP IP network parameters, to upload firmware, and configuration files. It detects automatically all STATYS connected on Network.
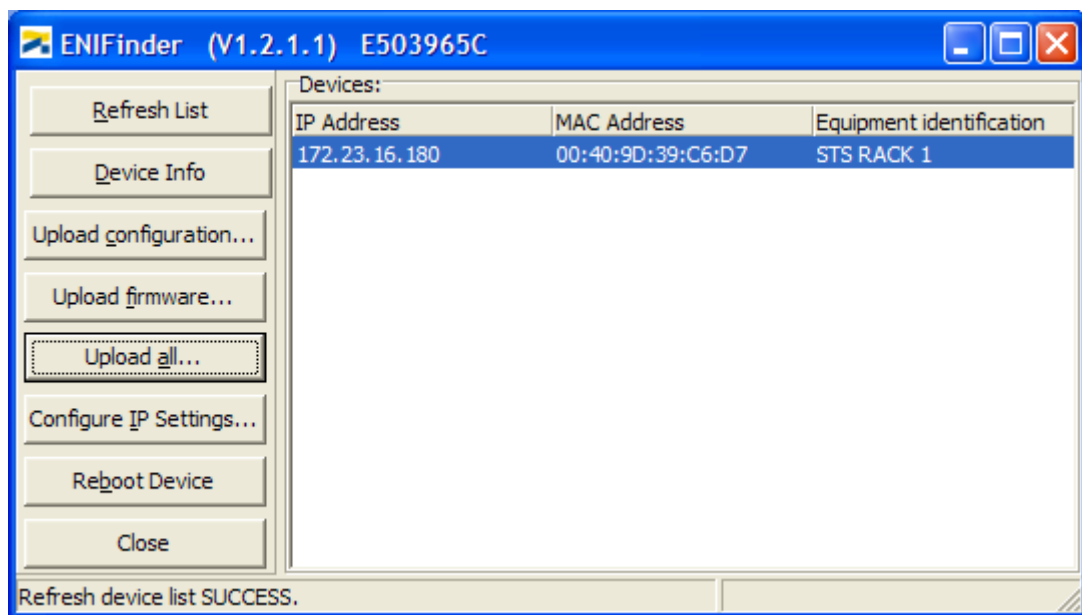
2. 2. ENIFINDER INSTALLATION

Copy the entire ENICOM directory on a local WINDOWS PC. Installation procedure is not needed.
Local ENICOM directory contains (example):
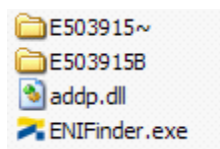
After running ENIFinder.exe program, the main window is displaying:
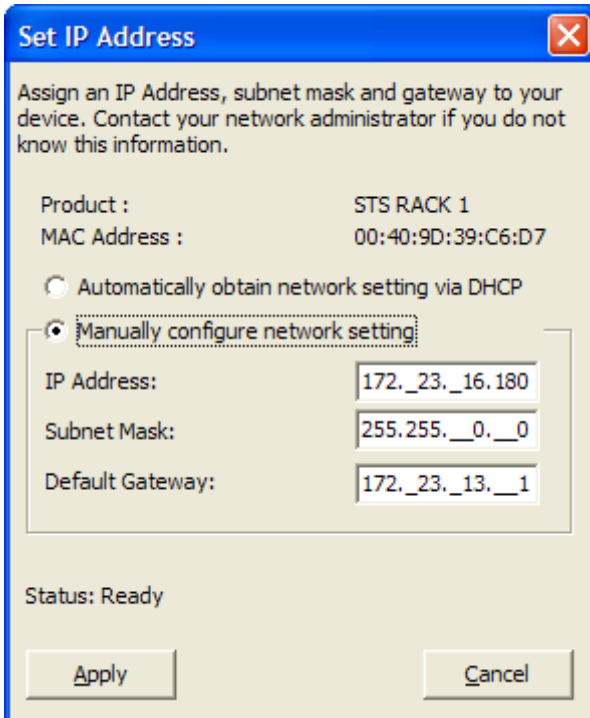

Example of a Statys Network

STATYS detected on the network are automatically displayed in the window.
Double-clicking a row opens the web page for the corresponding STATYS.

STATYS Ethernet Connection Enicom - Ref.: IOMSTAET0910-GB_04

2. 3. IP SETTINGS

Select [Configure IP Settings...] to change network parameters.

Select DHCP or set fixed IP Address, mask and gateway if necessary.
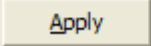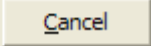
Set IP Address

Assign an IP Address, subnet mask and gateway to your device. Contact your network administrator if you do not know this information.

Product :	STS RACK 1
MAC Address :	00:40:9D:39:C6:D7

○ Automatically obtain network setting via DHCP

◉ Manually configure network setting

IP Address:	172._23._16.180
Subnet Mask:	255.255.__0.__0
Default Gateway:	172._23._13.__1

Status: Ready

[Apply]   [Cancel]

[Apply]   ENIFinder sends these new parameters, ENICOM reboots automatically.
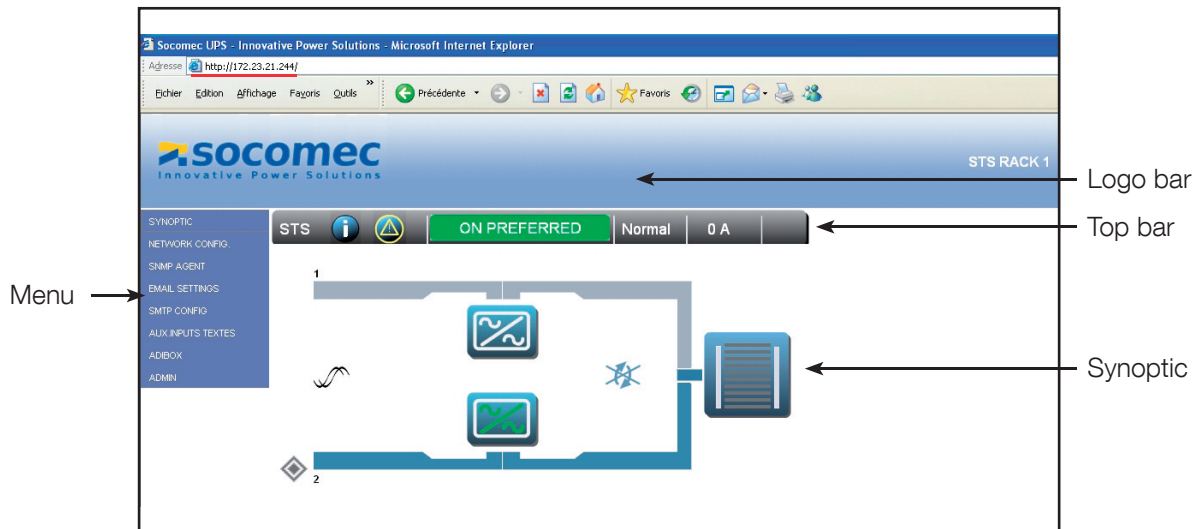
=> wait for 1 minute

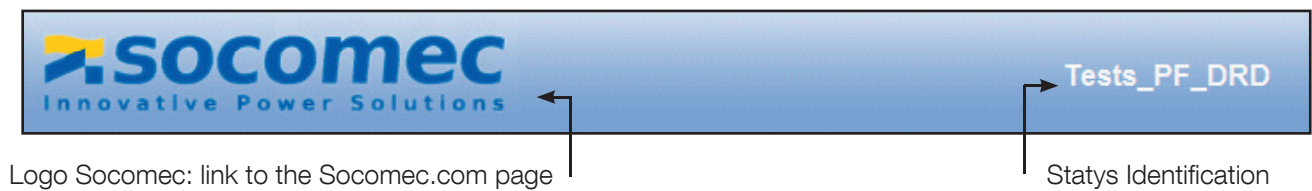=> the list of connected STATYS will be updated with New parameters.

3. WEB PAGES

3. 1. OVERVIEW

The Statys interface is accessible via a web browser (Internet Explorer, Firefox) by informing the corresponding IP address

3. 2. LOGO BAR

Logo Socomec: link to the Socomec.com page   Statys Identification

3. 3. TOP BAR

Information   Alarm   Status bar   Mode   Output current

3. 3.1. Information

Give information about this Statys.

Exemple

> STS REFERENCE

Identification :	STS RACK 1
Description :	STATYS MONO
Serial Number :	0920348001
Nominal Amps :	63
SW Version :	E503915D 151209a

3. 3.2. Window alarms
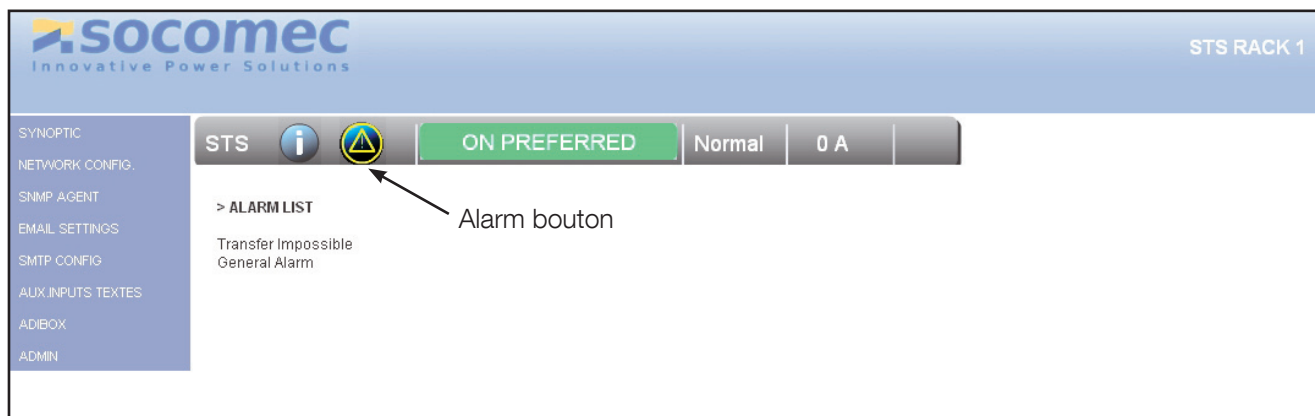
The list is updated automatically every 10 seconds. It is available only if the button "alarm" is present.

3. 3.3. STATYS status bar

COLOUR	CONDITION
GREEN	on preferred source
YELLOW	on auxiliary source
	on bypass maintenance 1 or 2
RED	Load not supplied
	arrest imminent
GRAY	undefined

3. 3.4. Mode

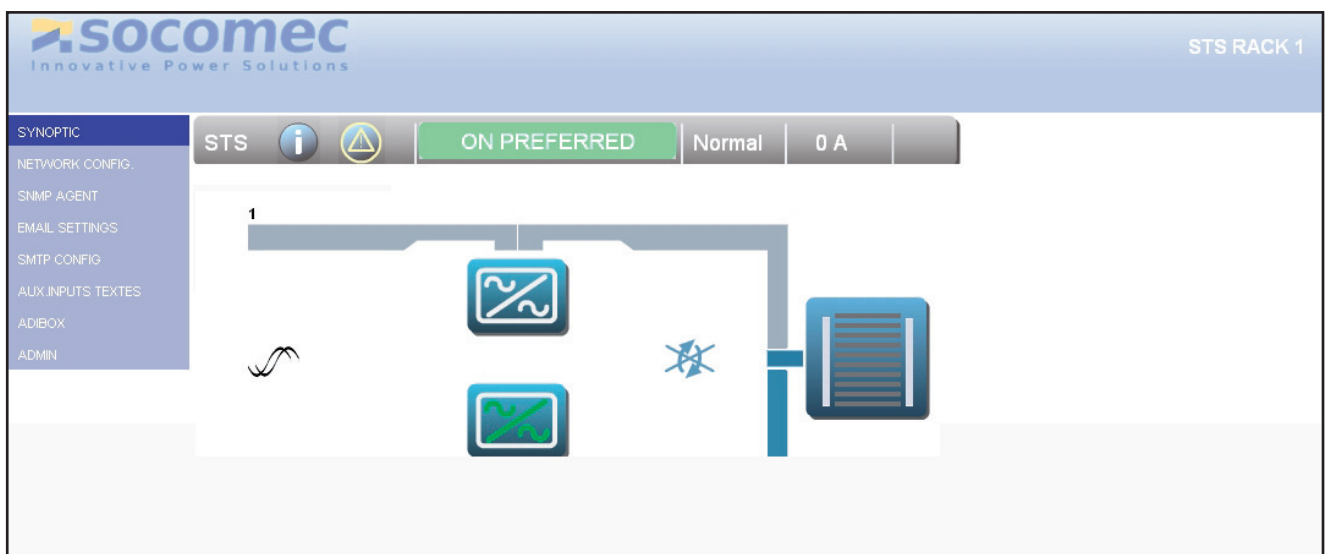| MODE	DISPLAYED TEXTS
Normal	normal
Maintenance	Service

3. 3.5. Current supplied

Displays the output STATYS current measuring (Max of 3 phases).

3. 4. MENU
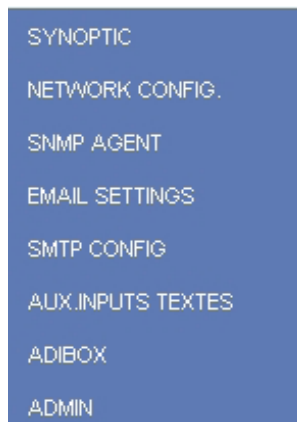
3. 5. SYNOPTIC MENU

Back to the synoptic display.

3. 5.1. Animation of synoptic

SYMBOL	CONDITION
Priority Source	Positioned next to the priority source (1 or 2)
Input 1	Gray = no network Blue = network present
CS1	White = not conducting Green = conducting Yellow = conducting and on fault
Output CS1	Gray = CS1 not conducting Blue = CS1 conducting
Output	Q3 closed and a CS lead
Load	Indicates the loading rate: 120% - yellow 110% - yellow 100% .. 30%
Input 2	Gray = no network Blue = network present
CS2	White = not conducting Green = conducting Yellow = conducting and on fault
Output CS2	Gray = CS2 not conducting Blue = CS2 conducting
	Impossible transfer
	Sources Synchronous
	Sources sliding
	On maintenance bypass (1 or 2)

3. 5.2. Data Page

STATYS status page: active states and current measures

Accessible via the button "Status Bar" in the "Space Bar"   ON PREFERRED

STATUS AND MEASUREMENTS		
TES	**MEASUREMENTS**	
ce 1 Absent	Output voltage L1 (V)	231
erPath 1 OK	Output voltage L2 (V)	0
ce 2 OK	Output voltage L3 (V)	0
erPath 2 OK	Output voltage U12 (V)	0
perm. Not Synchron.	Output voltage U23 (V)	0
on Preferred Source	Output voltage U31 (V)	0
on S2	Output frequency (Hz)	49.9
ut OK	Output current I1 (A)	0
closed	Output current I2 (A)	0
closed	Output current I3 (A)	0
closed	Output current IN (A)	0
mode	Output load rate (%)	0
	Output Apparent P. L1 (kVA)	0
	Output Apparent P. L2 (kVA)	0
	Output Apparent P. L3 (kVA)	0
	Output load rate L1 (%)	0
	Output load rate L2 (%)	0
	Output load rate L3 (%)	0

CS 1 Page

Accessible by clicking on the symbol of CS1

> S1 STATUS AND MEASUREMENTS

STATES	ALARMS	MEASUREMENTS	
Source 1 Absent		S1 voltage L1N (V)	0
PowerPath 1 OK		S1 voltage L2N (V)	0
Srcs perm. Not Synchron.		S1 voltage L3N (V)	0
		S1 voltage U12 (V)	0
		S1 voltage U23 (V)	0
		S1 voltage U31 (V)	0
		S1 frequency (Hz)	0.0
		SS1 temperature (°C)	21
		S1-S2 phase shift (°)	0.0

CS 2 Page

Accessible by clicking on the symbol of CS2

> S2 STATUS AND MEASUREMENTS

STATES	ALARMS	MEASUREMENTS	
Source 2 OK		S2 voltage L1 (V)	230
PowerPath 2 OK		S2 voltage L2 (V)	0
Srcs perm. Not Synchron.		S2 voltage L3 (V)	0
Q42 closed		S2 voltage U12 (V)	0
SS2 closed		S2 voltage U23 (V)	0
		S2 voltage U31 (V)	0
		S2 frequency (Hz)	49.9
		SS2 temperature (°C)	21
		S1-S2 phase shift (°)	0.0

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Output page
Accessible by clicking the exit of the STATYS

> OUTPUT STATUS AND MEASUREMENTS

STATES	ALARMS	MEASUREMENTS	
Load on Preferred Source	Transfer Impossible	Output voltage L1 (V)	231
Load on S2		Output voltage L2 (V)	0
Output OK		Output voltage L3 (V)	0
Q30 closed		Output voltage U12 (V)	0
		Output voltage U23 (V)	0
		Output voltage U31 (V)	0
		Output frequency (Hz)	49.9
		Output current I1 (A)	0
		Output current I2 (A)	0
		Output current I3 (A)	0
		Output current IN (A)	0
		Output load rate (%)	0
		Output Apparent P. L1 (kVA)	0
		Output Apparent P. L2 (kVA)	0
		Output Apparent P. L3 (kVA)	0
		Output Power factor L1	0.00
		Output Power factor L2	0.00
		Output Power factor L3	0.00
		Output crest factor L1	0.0
		Output crest factor L2	0.0
		Output crest factor L3	0.0
		Output crest factor N	0.0
		Ambient temperature (°C)	32
		Output Active Power L1 (kW)	0
		Output Active Power L2 (kW)	0
		Output Active Power L3 (kW)	0
		Output load rate L1 (%)	0
		Output load rate L2 (%)	0
		Output load rate L3 (%)	0
		Output load rate N (%)	0

⚠ **In the case of a STATYS phase, measurements of phases 2 and 3 are 0**

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STATYS Ethernet Connection Enicom - Ref.: IOMSTAET0910-GB_04 11

3. 6. NETWORK CONFIGURATION MENU

3. 6.1. Password Protection

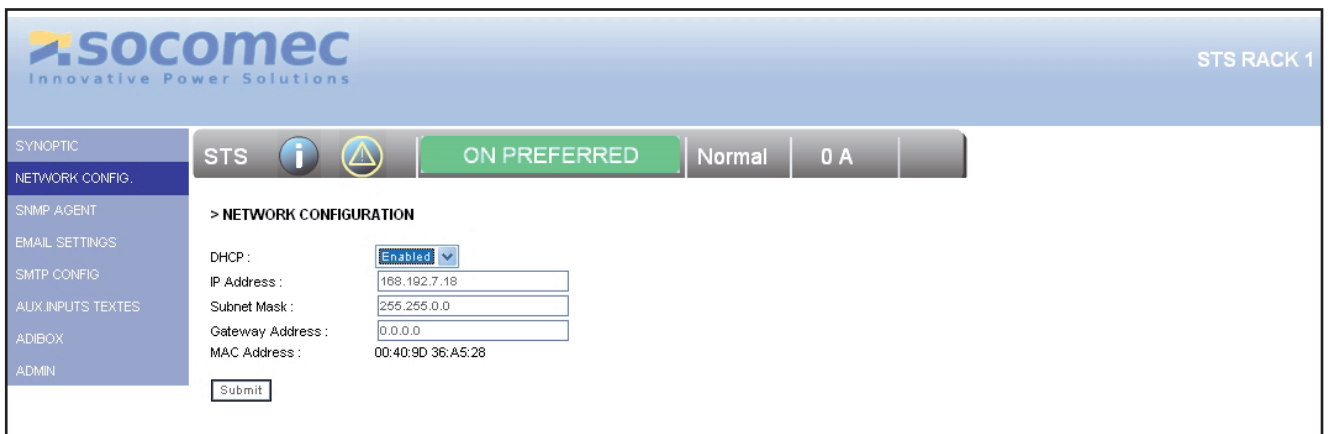⚠️ **Default login: admin**

Password default: public

Each configuration page is protected by password

The password is stored throughout the session

3. 6.2. Network Configuration

Used to activate the DHCP or assign a static IP

Click to [Submit] save the configuration

3. 7. SNMP MENU

3. 7.1. Configuration

1 Select version: V1 only

2 Enabling or disabling the function of TRAP: if the TRAP function is disabled, reading the OID via the GET function is activated

3 NMS IP Addresses: put the IP address of the NMS

Community

⚠ **Public - read by default. No configuration possible**

4

Save the settings by clicking: Submit

3. 7.2. MIB download

5

Click the button   Download MIB file   to reload the MIB file:
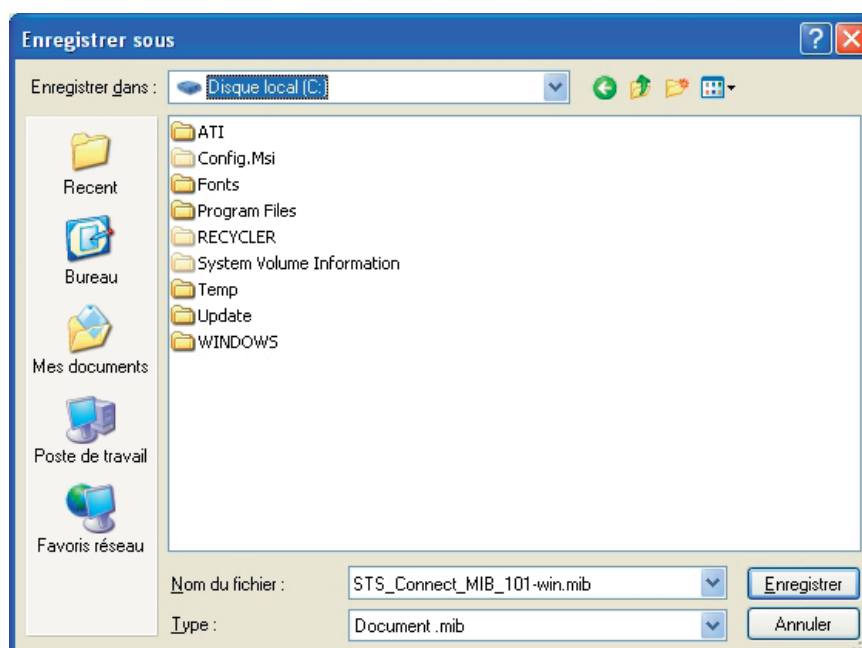
3. 7.3. List of OIDs of the MIB STATYS

STATYS Identification	STATYS INFORMATION (§ DATA BASE)
stsIdentModel	
stsIdentSerialNumber	
stsIdentFirmwareVersion	
stsIdentAgentSoftwareVersion	
STATYS Source 1	
stsSource1Status	
unknown(1),	
source1OK(2),	S000
source1Critical(3),	S001
source1OutTol(4),	S002
source1Absent(5)	S003
stsSource1Prefered	
no(1),	
yes(2)	S016
stsSource1Frequency	M006
stsSource1Voltage	M000 - M002
STATYS Source 2	
stsSource2Status	
unknown(1),	
source2OK(2),	S006
source2Critical(3),	S007
source2OutTol(4),	S008
source2Absent(5)	S009
stsSource2Prefered	
no(1),	
yes(2)	!S016
stsSource2Frequency	M014
stsSource2Voltage	M008 - M009 - M010
STATYS Sources Interaction	
stsSourcesInteraction	
unknown(1),	
synchron(2),	S012
sliding(3),	S013
asychron(4)	S014

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STATYS Output	
stsOutputLoadStatus	
unknown(1),	
outputLoadOnPreferredSource(2),	S017
outputLoadOnAlternateSource(3),	S018
outputLoadOFF(4),	S019
outputLoadOnMBP1(5),	S020
outputLoadOnMBP2(6)	S021
stsOutputStatus	
unknown(1),	
outputOnSwitch1(2),	S023
outputOnSwitch2(3),	S024
outputOFF(4)	!S023 & !S024
stsOutputFrequency	M022
stsOutputLoadRate	M029
stsOutputVoltage	M016 - M017 - M018
stsOutputCurrent	M024 - M025 - M026
stsOutputkVA	M032 - M033 - M034
stsOutputkW	M048 - M049 - M050
stsOutputCrestFactor	M040 - M041 - M042
stsOutputPowerFactor	M035 - M036 - M037
STATYS Alarms / Alerts	
stsImminentStop no (1) yes (2)	A000
stsTransferImpossible no (1) yes (2)	A007
stsConsecutiveDetection no (1) yes (2)	A005
stsOverload no (1) yes (2)	A003
stsString1Alarm no (1) yes (2)	A011
stsString2Alarm no (1) yes (2)	A015
stsPreventiveMaintenance no (1) yes (2)	S046
stsGeneralAlarm no (1) yes (2)	A031
stsCustomInputAlarm no (1) yes (2)	A029

3. 7.4. SNMP TRAPS (TRAPS management)

LISTE DES TRAPS	STATYS INFORMATION (§ DATA BASE)
stsTrapImminentStop	A000
stsTrapOverload	A003
stsTrapSwitchOnPreferedSource	S017
stsTrapSwitchOnAlternateSource	S018
stsTrapSource1PreferredSource	S016
stsTrapOutputLoadOFF	S019
stsTrapGeneralAlarm	A031
NormalSituation	

3. 8. SMTP Configuration Menu

The e-mails are only sent if the SMTP server has been configured in advance.

1 The IP address of mail server

2 Port number to 25 by default (modifiable)

3 Identifies the sender of the mail

4 Required based on the mail server used

3. 9. EMAIL CONFIGURATION MENU

1. Selected events will trigger the sending of mail.

2. Tempo in which events must be active to generate the sending of email.

3. Interval in hours of rehearsal for sending email if the event or events are always enabled

4. Up to 8 addresses. (field description is given only by way of info, it is not transmitted with the message)

5. Free text (in the body of the message)

6. Save the configuration by clicking **Submit**

7. Sending a test email
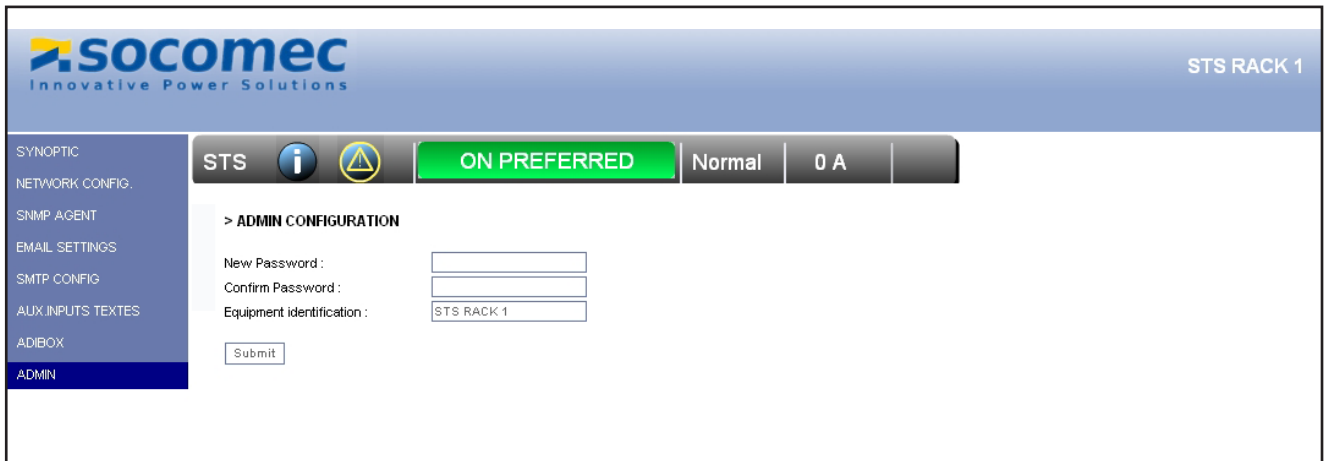
⚠ **Configuration must be saved the before you can send a test email**

3. 10. TEXTS INPUT MENU

This feature is only available if the graphics screen is present on STATYS.

It allows assigning texts to the auxiliary input if the cards I/O (ADC) are installed
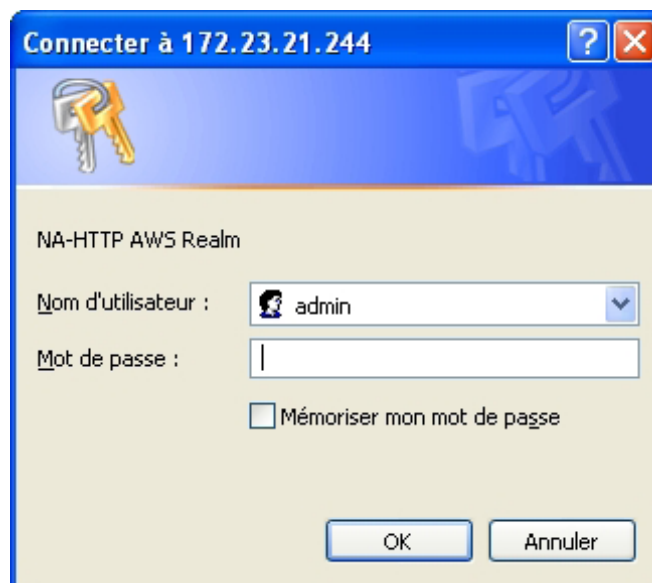
3. 11. ADMIN MENU

3. 11.1. Managing password

Allows you to change the password to access the configuration pages ("public" by default):

The password is requested for all pages of configurations:

4. STATYS DATA BASE

Accessibles via Modbus TCP ou RTU (RS485)

4. 1. STATE : ADDRESS MODBUS 0x0140 - 3 WORDS

S000   Source 1 OK
S001   Source 1 critical
S002   Source 1 out of tolerance
S003   Source 1 absent
S004   PowerPath 1 OK
S005
S006   Source 2 OK
S007   Source 2 critical
S008   Source 2 out of tolerance
S009   Source 2 absent
S010   PowerPath 2 OK
S011
S012   Srcs perm. Synchronised
S013   Sliding Sources
S014   Srcs perm. Not Synchron.
S015   Srcs Instant. Synchron.

S016   S1 is preferred source
S017   Load on preferred source
S018   Load on auxiliary source
S019   Load not supplied
S020   Load on manual by-pass1
S021   Load on manual by-pass2
S022
S023   Load on S1
S024   Load on S2
S025
S026   Transfer locked ext.
S027
S028   Output OK
S029   Output out of tolerance
S030   Output absent
S031

S032   ESD input active
S033   Q41 closed
S034   Q42 closed
S035   SS1 closed
S036   SS2 closed
S037   Q30 closed
S038   Q51 closed
S039   Q52 closed
S040
S041   Access profile 1
S042   Access profile 2
S043
S044
S045   Remote controls enabled
S046   Maintenance alert
S047   User mode

4. 2. ALARM : ADDRESS MODBUS 0x0148 - 2 WORDS

A000 Imminent stop
A001 Output Isc detection
A002 Manual By-Pass
A003 Overload
A004
A005 Consecutive Detections
A006 Switchback impossible
A007 Transfer impossible
A008
A009 PowerPath1 deteriorated
A010 PowerPath1 short circuit
A011 PowerPath1 in failure
A012
A013 PowerPath2 deteriorated
A014 PowerPath2 short circuit
A015 PowerPath2 in failure

A016 Backfeed1 protection open
A017 Backfeed2 protection open
A018 Ambient temperature max
A019
A020 Insufficient resources
A021
A022
A023
A024
A025 Preventive alarm
A026 Configurartion Alarm
A027 HMI Alarm
A028 Electronics
A029 Custom input alarm
A030 Maintenance Alalrm
A031 General Alarm

4. 3. MEASUREMENT - ADDRESS MODBUS 0x0220 - 64 WORDS

M000 S1 voltage L1N   (V)
M001 S1 voltage L2N   (V)
M002 S1 voltage L3N   (V)
M003 S1 voltage U12   (V)
M004 S1 voltage U23   (V)
M005 S1 voltage U31   (V)
M006 S1 frequency   (Hz)
M007
M008 S2 voltage L1   (V)
M009 S2 voltage L2   (V)
M010 S2 voltage L3   (V)
M011 S2 voltage U12   (V)
M012 S2 voltage U23   (V)
M013 S2 voltage U31   (V)
M014 S2 frequency   (Hz)
M015

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M016   Output voltage L1   (V)
M017   Output voltage L2   (V)
M018   Output voltage L3   (V)
M019   Output voltage U12   (V)
M020   Output voltage U23   (V)
M021   Output voltage U31   (V)
M022   Output frequency   (Hz)
M023
M024   Output current I1   (A)
M025   Output current I2   (A)
M026   Output current I3   (A)
M027   Output current IN   (A)
M028
M029   Output load rate   (%)
M030
M031   S1-S2 phase shift   (°)

M032   Output Apparent P. L1 KVA
M033   Output Apparent P. L2 KVA
M034   Output Apparent P. L3 KVA
M035   Output Power factor L1
M036   Output Power factor L2
M037   Output Power factor L3
M038
M039
M040   Output crest factor L1
M041   Output crest factor L2
M042   Output crest factor L3
M043   Output crest factor N
M044
M045
M046
M047   Ambient temperature (°C)

M048   Output Active Power L1 KW
M049   Output Active Power L2 KW
M050   Output Active Power L3 KW
M051
M052
M053
M054
M055
M056   Output load rate L1   (%)
M057   Output load rate L2   (%)
M058   Output load rate L3   (%)
M059   Output load rate N   (%)
M060
M061
M062
M063

5. FIRMWARE UPDATE

This utility can also update the firmware, configuration files and files of different languages

5. 1. UPDATE ALL (FW + CONFIG)
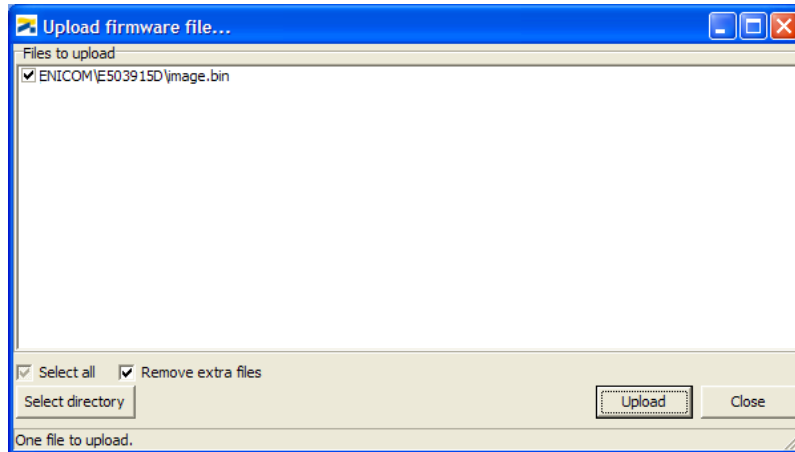
5. 2. UPLOAD CONFIG FILES

Is done automatically if the option "Both" has been chosen.

6. VERIFICATION DES LED ENICOM

Yellow LED = ENICOM fed

Green LED during the configuration phase

Green LED slow blinking: normal operation:

Green LED blinking fast: configuration file absent:

No Ethernet connection, the 2 LEDs are off. If the network connection is present, but the device is not programmed, the green LED indicates network traffic.

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