

STATYS

Ethernet Connection

ENICOM Operating manual 



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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.



2. IP ADDRESS CONFIGURATION

DHCP service is enabled as default configuration.

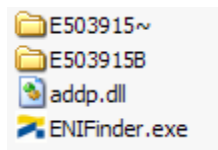
2. 1. ENIFINDER

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.

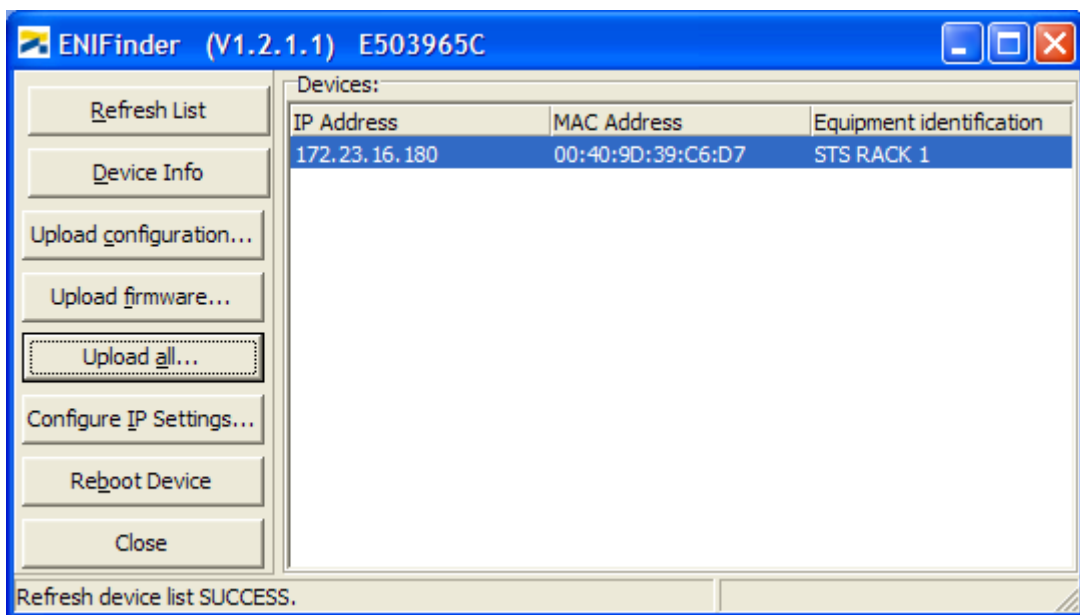
2. 2. ENIFINDER INSTALLATION

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

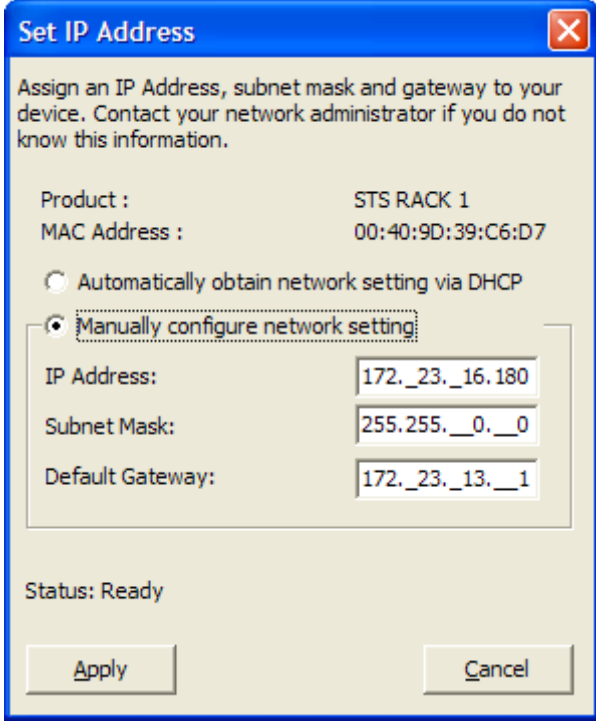
STATYS detected on the network are automatically displayed in the window.

Double-clicking a row opens the web page for the corresponding STATYS.

2. 3. IP SETTINGS

Select  to change network parameters.

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



The image shows a 'Set IP Address' dialog box with a blue title bar and a close button. The main text reads: 'Assign an IP Address, subnet mask and gateway to your device. Contact your network administrator if you do not know this information.' Below this, the 'Product' is 'STS RACK 1' and the 'MAC Address' is '00:40:9D:39:C6:D7'. There are two radio buttons: 'Automatically obtain network setting via DHCP' (unselected) and 'Manually configure network setting' (selected). The manual configuration section contains three text boxes: 'IP Address' with '172._23._16.180', 'Subnet Mask' with '255.255._0._0', and 'Default Gateway' with '172._23._13._1'. At the bottom, the status is 'Ready' and there are 'Apply' and 'Cancel' buttons.

 Apply

ENIFinder sends these new parameters, ENICOM reboots automatically.

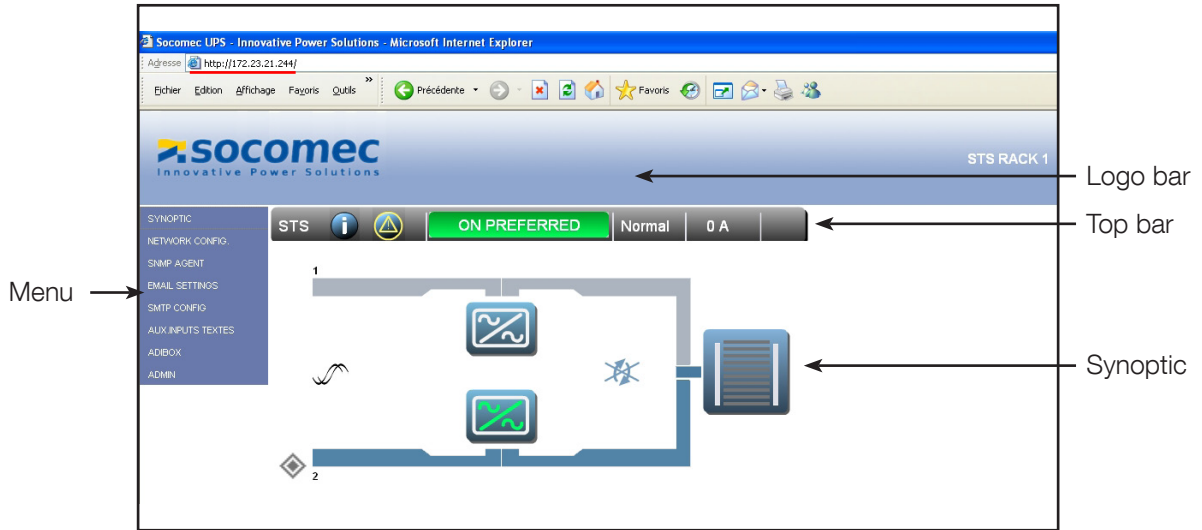
=> wait for 1 minute

=> 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



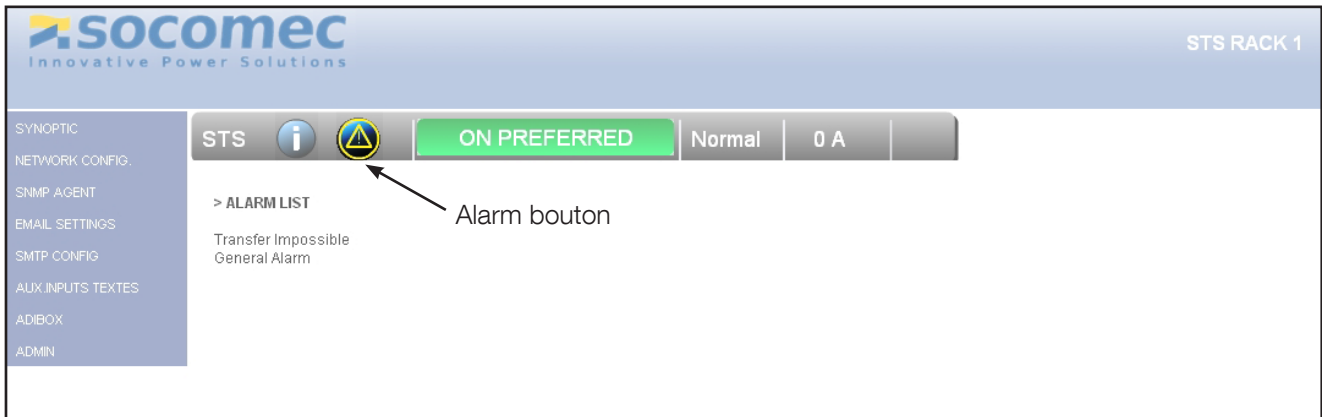
3. 3.1. Information

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

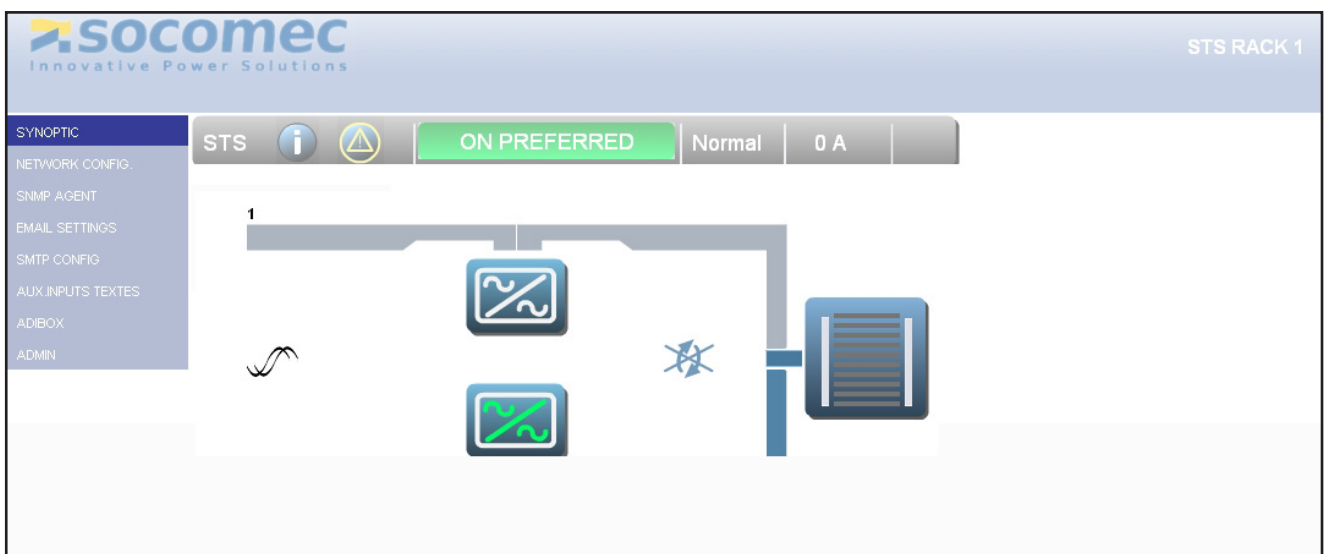
Displays the output STATYS current measuring (Max of 3 phases).

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”



| S STATUS AND MEASUREMENTS | | |
|---------------------------|-----------------------------|------|
| STATES | MEASUREMENTS | |
| Source 1 Absent | Output voltage L1 (V) | 231 |
| PowerPath 1 OK | Output voltage L2 (V) | 0 |
| Source 2 OK | Output voltage L3 (V) | 0 |
| PowerPath 2 OK | Output voltage U12 (V) | 0 |
| Srcs perm. Not Synchron. | Output voltage U23 (V) | 0 |
| On Preferred Source | Output voltage U31 (V) | 0 |
| Q42 on S2 | Output frequency (Hz) | 49.9 |
| Q42 OK | Output current I1 (A) | 0 |
| Q42 closed | Output current I2 (A) | 0 |
| Q42 closed | Output current I3 (A) | 0 |
| Q42 closed | Output current IN (A) | 0 |
| SS2 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 |

Output page

Accessible by clicking the exit of the STATYS



> OUTPUT STATUS AND MEASUREMENTS

STATES

Load on Preferred Source
Load on S2
Output OK
Q30 closed

ALARMS

Transfer Impossible

MEASUREMENTS

| | |
|-----------------------------|------|
| Output voltage L1 (V) | 231 |
| Output voltage L2 (V) | 0 |
| Output voltage L3 (V) | 0 |
| 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

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 save the configuration

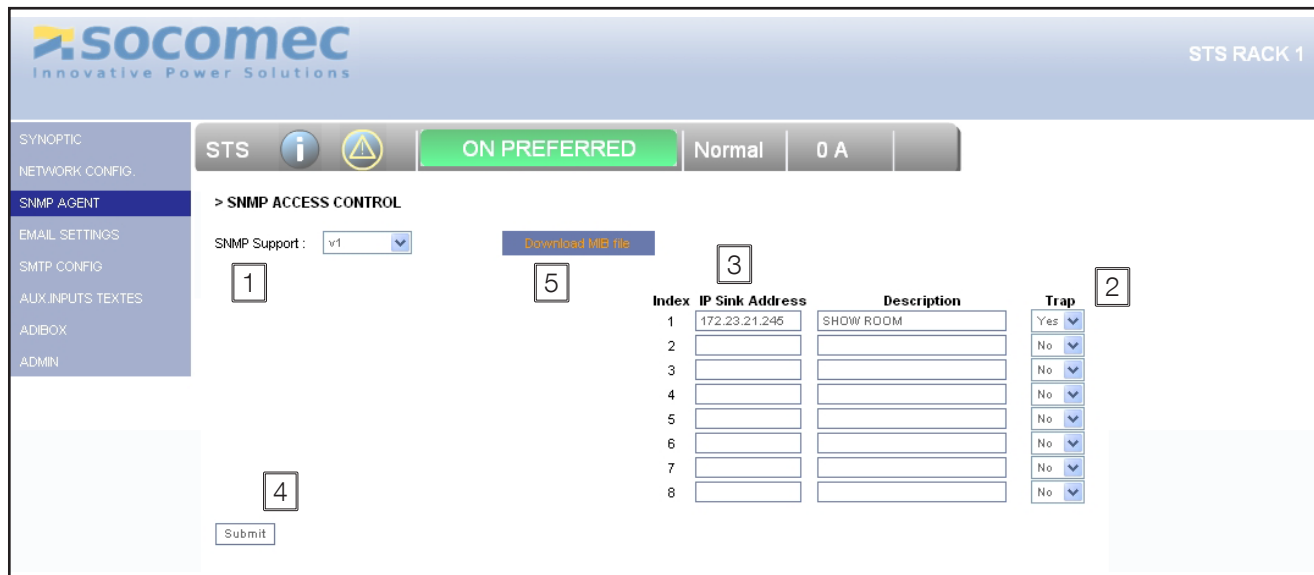
The screenshot shows the Socomec web interface for 'STS RACK 1'. The top navigation bar includes 'STS', an information icon, a warning icon, and a green 'ON PREFERRED' button. Below this are 'Normal' and '0 A' buttons. The left sidebar menu lists: SYNOPSIS, NETWORK CONFIG. (highlighted), SNMP AGENT, EMAIL SETTINGS, SMTP CONFIG, AUX INPUTS TEXTES, ADIBOX, and ADMIN. The main content area is titled '> NETWORK CONFIGURATION' and contains the following fields:

| | |
|-------------------|---|
| DHCP : | <input type="button" value="Enabled"/> |
| IP Address : | <input type="text" value="168.192.7.18"/> |
| Subnet Mask : | <input type="text" value="255.255.0.0"/> |
| Gateway Address : | <input type="text" value="0.0.0.0"/> |
| MAC Address : | 00:40:9D:36:A5:28 |

At the bottom of the configuration area is a button.

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

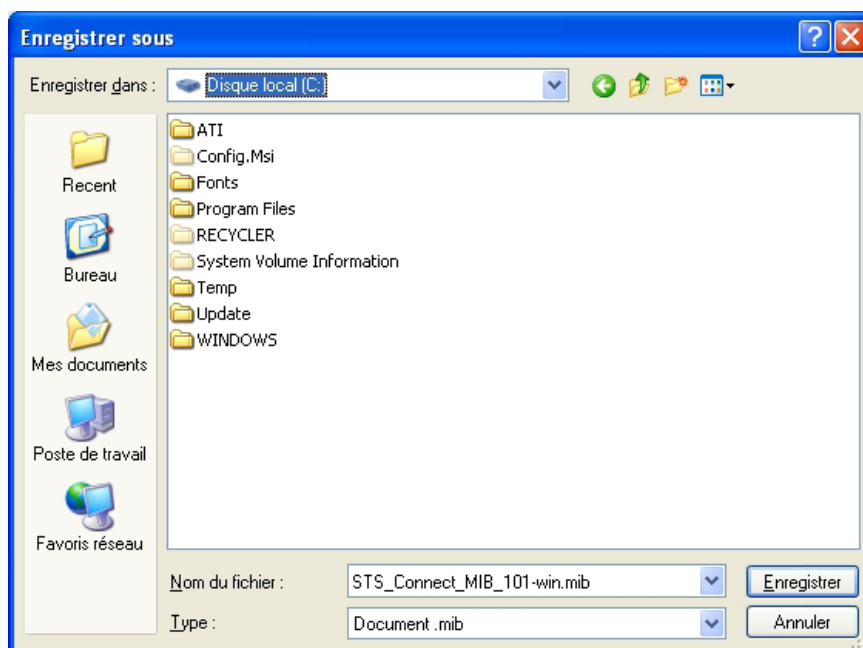
4

Save the settings by clicking:

3. 7.2. MIB download

5

Click the button to reload the MIB file:



3. 7.3. List of OIDs of the MIB STATYS

| STATYS Identification | STATYS INFORMATION (§ DATA BASE) |
|-----------------------------------|---|
| stslIdentModel | |
| stslIdentSerialNumber | |
| stslIdentFirmwareVersion | |
| stslIdentAgentSoftwareVersion | |
| | |
| STATYS Source 1 | |
| stsSource1Status | |
| unknown(1), | |
| source1OK(2), | S000 |
| source1Critical(3), | S001 |
| source1OutTol(4), | S002 |
| source1Absent(5) | S003 |
| stsSource1Preferred | |
| 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 |
| stsSource2Preferred | |
| no(1), | |
| yes(2) | !S016 |
| stsSource2Frequency | M014 |
| stsSource2Voltage | M008 - M009 - M010 |
| | |
| STATYS Sources Interaction | |
| stsSourcesInteraction | |
| unknown(1), | |
| synchron(2), | S012 |
| sliding(3), | S013 |
| asynchron(4) | S014 |

| 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 |
| stsTrapSwitchOnPreferredSource | 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.

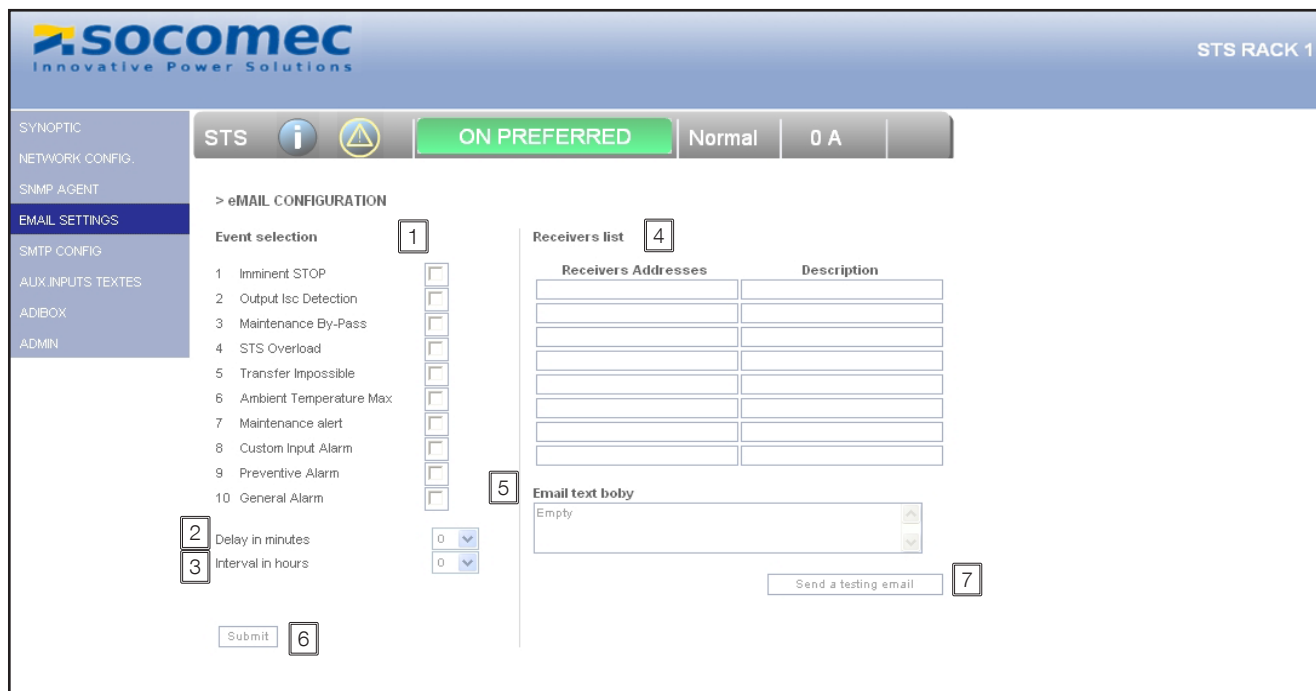
The screenshot shows the Socomec web interface for 'STS RACK 1'. The top navigation bar includes the Socomec logo and 'Innovative Power Solutions'. Below the logo, there are status indicators: 'STS', an information icon, a warning icon, a green 'ON PREFERRED' button, and 'Normal 0 A'. The left sidebar contains a menu with 'SMTP CONFIG' highlighted. The main content area is titled '> SMTP CONFIGURATION' and contains the following fields:


- eMail Server Address : 1 172.23.14.82
- SMTP Port : 2 25
- eMail Account : 3 16A MONO STS
- SMTP Authentication : 4 Disabled (dropdown menu)
- Account Password : [empty text box]

A 'Submit' button is located below the 'Account Password' field.

- 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

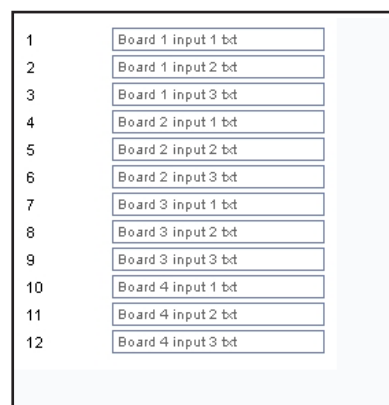


- 1 Selected events will trigger the sending of mail.
- 2 Tempo in which events must be active to generate the sending of email.
- 3 Interval in hours of rehearsal for sending email if the event or events are always enabled
- 4 Up to 8 addresses. (field description is given only by way of info, it is not transmitted with the message)
- 5 Free text (in the body of the message)
- 6 Save the configuration by clicking 
- 7 Sending a test email

 **Configuration must be saved the before you can send a test email**

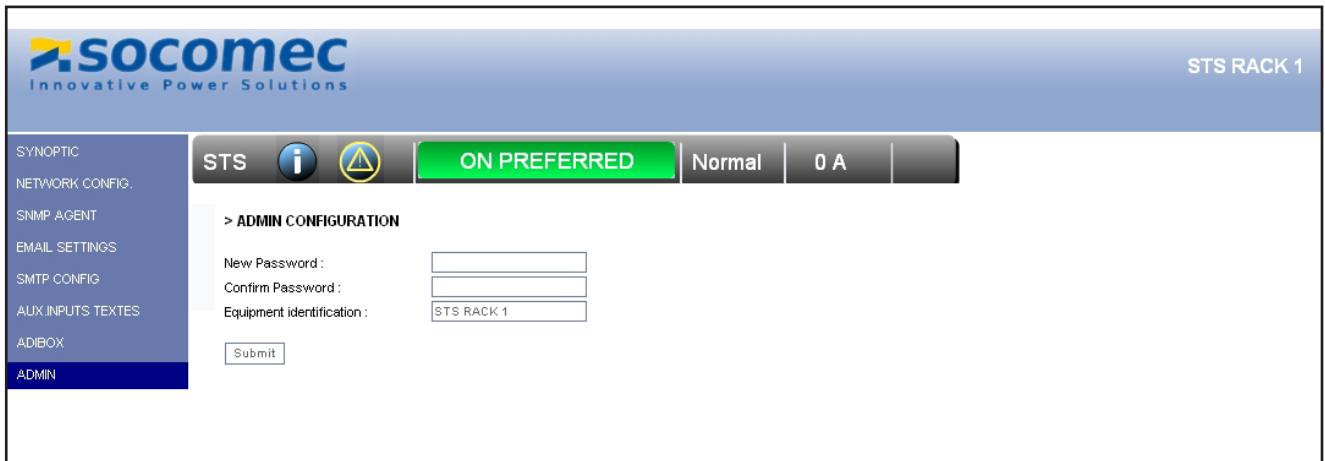
3. 10. TEXTS INPUT MENU

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

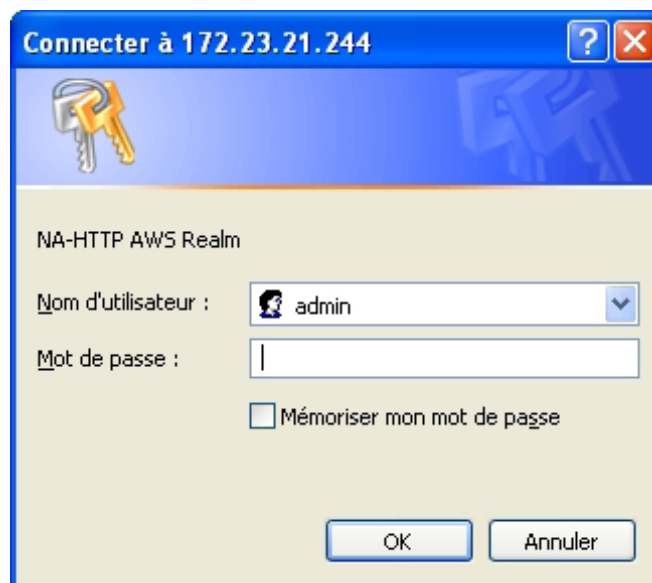


The screenshot shows the Socomec web interface for 'STS RACK 1'. The top navigation bar includes the Socomec logo and the text 'Innovative Power Solutions'. A status bar at the top right displays 'STS RACK 1'. Below the navigation bar, there is a menu with options: SYNOPSIS, NETWORK CONFIG., SNMP AGENT, EMAIL SETTINGS, SMTP CONFIG, AUX.INPUTS TEXTES, ADIBOX, and ADMIN (highlighted). The main content area is titled '> ADMIN CONFIGURATION' and contains the following fields:

- New Password : [text input field]
- Confirm Password : [text input field]
- Equipment identification : [text input field containing 'STS RACK 1']
- Submit [button]

At the top of the main content area, there are several status indicators: 'STS', an information icon, a warning icon, a green 'ON PREFERRED' button, and 'Normal' and '0 A' labels.

Allows you to change the password to access the configuration pages ("public" by default):
The password is requested for all pages of configurations:



The screenshot shows a Windows-style login dialog box titled 'Connecter à 172.23.21.244'. The dialog box has a blue header with a question mark and a close button. Below the header, there is a key icon and the text 'NA-HTTP AWS Realm'. The login fields are:

- Nom d'utilisateur : [dropdown menu showing 'admin']
- Mot de passe : [password input field]
- Mémoriser mon mot de passe

At the bottom of the dialog box, there are two buttons: 'OK' and 'Annuler'.

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 |

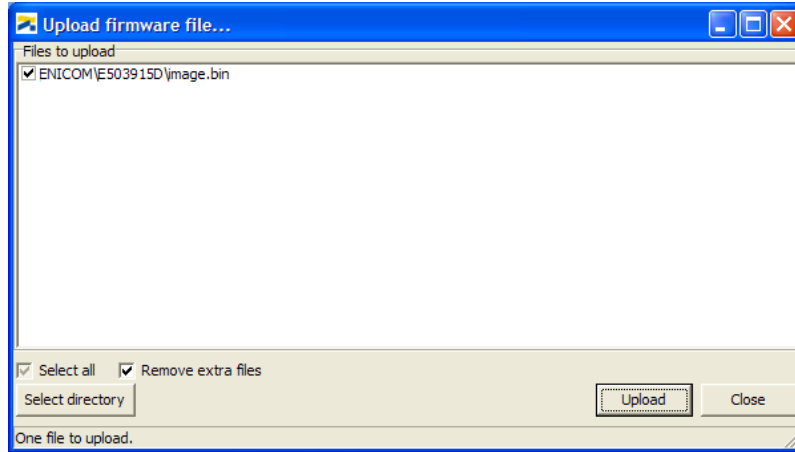
4. 3. MEASUREMENT - ADDRESS MODBUS 0x0220 - 64 WORDS

| | | | | | |
|------|--------------------|------|------|------------------------|------|
| M000 | S1 voltage L1N | (V) | M032 | Output Apparent P. L1 | KVA |
| M001 | S1 voltage L2N | (V) | M033 | Output Apparent P. L2 | KVA |
| M002 | S1 voltage L3N | (V) | M034 | Output Apparent P. L3 | KVA |
| M003 | S1 voltage U12 | (V) | M035 | Output Power factor | L1 |
| M004 | S1 voltage U23 | (V) | M036 | Output Power factor | L2 |
| M005 | S1 voltage U31 | (V) | M037 | Output Power factor | L3 |
| M006 | S1 frequency | (Hz) | M038 | | |
| M007 | | | M039 | | |
| M008 | S2 voltage L1 | (V) | M040 | Output crest factor | L1 |
| M009 | S2 voltage L2 | (V) | M041 | Output crest factor | L2 |
| M010 | S2 voltage L3 | (V) | M042 | Output crest factor | L3 |
| M011 | S2 voltage U12 | (V) | M043 | Output crest factor | N |
| M012 | S2 voltage U23 | (V) | M044 | | |
| M013 | S2 voltage U31 | (V) | M045 | | |
| M014 | S2 frequency | (Hz) | M046 | | |
| M015 | | | M047 | Ambient temperature | (°C) |
| | | | M048 | Output Active Power L1 | KW |
| M016 | Output voltage L1 | (V) | M049 | Output Active Power L2 | KW |
| M017 | Output voltage L2 | (V) | M050 | Output Active Power L3 | KW |
| M018 | Output voltage L3 | (V) | M051 | Global Active Power | KW |
| M019 | Output voltage U12 | (V) | M052 | | |
| M020 | Output voltage U23 | (V) | M053 | | |
| M021 | Output voltage U31 | (V) | M054 | | |
| M022 | Output frequency | (Hz) | M055 | | |
| M023 | | | M056 | Output load rate L1 | (%) |
| M024 | Output current I1 | (A) | M057 | Output load rate L2 | (%) |
| M025 | Output current I2 | (A) | M058 | Output load rate L3 | (%) |
| M026 | Output current I3 | (A) | M059 | Output load rate N | (%) |
| M027 | Output current IN | (A) | M060 | | |
| M028 | | | M061 | | |
| M029 | Output load rate | (%) | M062 | | |
| M030 | | | M063 | | |
| M031 | S1-S2 phase shift | (°) | | | |

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.

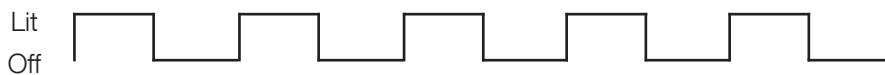
6. VERIFICATION DES LED ENICOM

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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