# NETMAN TROUBLESHOOTING GUIDE

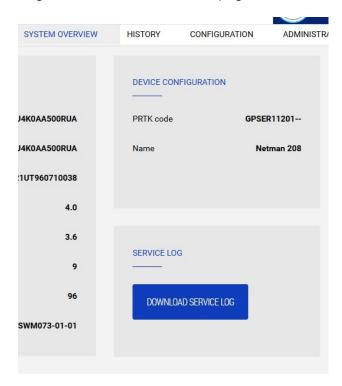
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Please ensure the **NetMan is updated** before proceeding.

If the NetMan is already updated and the issue persists, provide the **service.log** file and send it to your support contact.

You can find the service.log file **SYSTEM OVERVIEW** page:



#### 1. Why can't I see properly the webpage?

- Clear the cache:

It could happen that the webpage is not as expected, in this case **clear the cache** with **CTRL+F5** (or **SHIFT+F5**)

#### 2. Why the browser redirects to https?

- HTTP and HTTPS on the browser:

Some browsers redirect automatically to **HTTPS** and it may be not able to detect the Netman webpage. Pay attention, if the Netman is in HTTP you have to edit manually the url.

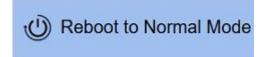
#### 3. I cannot reach my netman, how to recover?

#### - 3.1 Restore network from RECOVERY:

When in **RECOVERY** mode, it is always recommended to restore the network as the first action. This ensures that the HOSTNAME is set correctly in relation to the MAC address, making it easier to identify and connect to the Netman.

Once you have selected Restore network, it's suggested immediately after to reboot to normal mode.

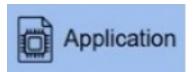


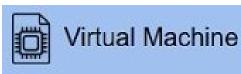


When in normal mode, verify on System Overview page that the network parameters are correct. Then, boot the Netman into recovery mode again.

When in RECOVERY mode and when the Restore network has been performed, <u>it's always</u> suggested to upgrade the System, the Application and the Virtual Machine.







#### - 3.2 Netman recovery procedure:

This procedure applies to **Recovery version 1.2** or above and MAC address **00:02:63:09:4F:B9** or newer.

If the Recovery version is older or the MAC address is older, a DHCP server is mandatory to configure the Netman.

This procedure describes how to recover a lost Netman.

A Netman can be considered lost if:

- The **HOSTNAME** is unknown.
- The **IP** address is incompatible with the network and IPv6 is disabled.

#### Recovery Steps

- Take note of the MAC address of the Netman card.
- Install the Netman card in the UPS while keeping the **RESET** button pressed.

While holding the RESET button, observe the status **LED** sequence (keep the RESET button pressed for 10 seconds):

- Steady green
- Steady red
- Flashing green
- Off
- Release the RESET button when the LED turns off.

The process takes approximately 10 seconds.

After releasing the RESET button, the status LED will:

- Turn steady red
- Turn steady green
- Start flashing green rapidly → This indicates Recovery Mode is active.

Once in Recovery Mode, the Netman provides the following network configuration:

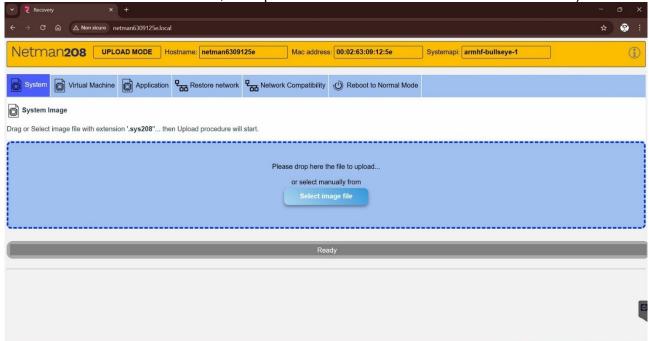
- **DHCP** service enabled
- IPv6 available
- fallback IP available if a DHCP is not available: 192.254.1.208

#### - 3.3 Condition one:

If:

- DHCP server available
- **HOSTNAME** is factory standard
- IP with wrong address or mask for the present network

you can open a browser and write the **zerconf** address "**Netman630xxxxx.local**" (example of a MAC address **00:02:63:09:12:5e**, example of zeroconf address **netman630912e5.local**):



From this page you can **Restore network**From this page you can upgrade the **System** and the **Application** 

Then press reboot to normal mode.

#### - 3.4 Condition two:

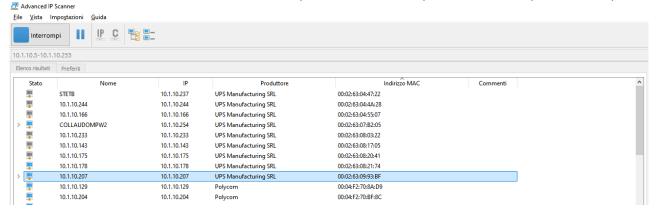
lf

- DHCP server available
- **HOSTNAME** unknown
- IP with wrong address or mask for the present network

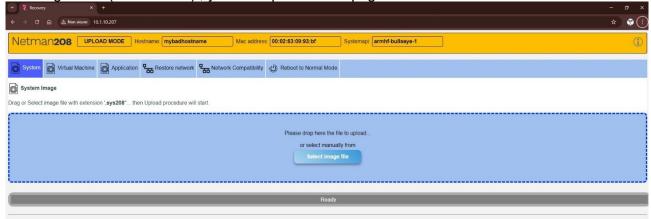
You need to perform a network scan to identify the IP address assigned to the known MAC address. This will allow you to locate the NetMan on the network.

#### i.e. MAC addrdress 00:02:63:09:93:bf

Network scanner, look for the MAC address (00:02:63:09:93:bf) to know the IP (10.1.10.207):



Knowing the IP (10.1.10.207):, you can open the webpage:



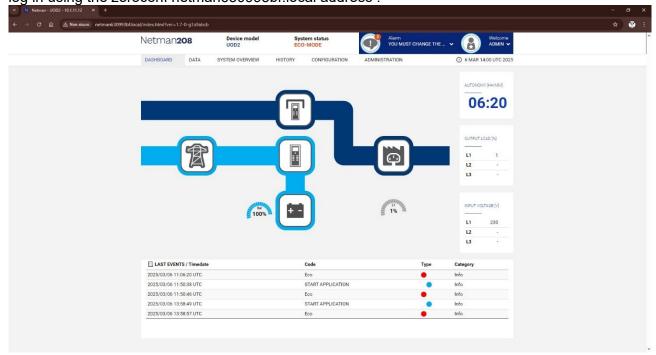
#### Please notice the HOSTNAME.

Now it's possible to restore the network:



Then press reboot to normal mode.

You will get the factory standard HOSTNAME **netman630993bf**.local where it will be possible to log in using the zeroconf netman630993bf.local address:



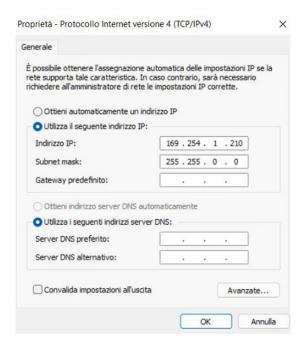
#### - 3.5 Condition three:

lf

- DHCP server is not available
- IP with wrong address or mask for the present network

configure the network card of your laptop as follow:

- IP = 169.254.1.210
- Mask = 255.255.0.0



Perform a ping to check when the Netman becomes reachable on the network.

Note: If a DHCP server is not available, the **fallback IP** will become available in approximately 4 minutes.

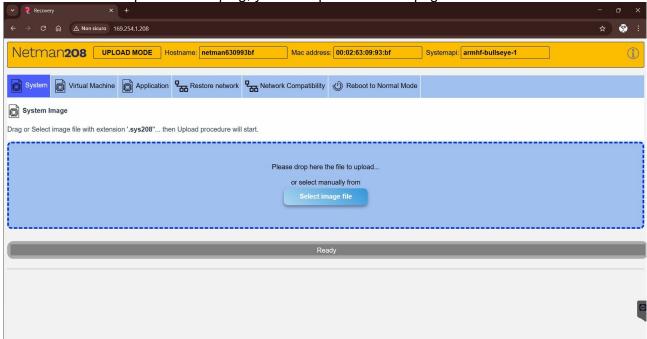


Install the NetMan into the UPS without connecting the Ethernet cable, or by connecting the Ethernet cable directly to a laptop and wait approximately 4 minutes.

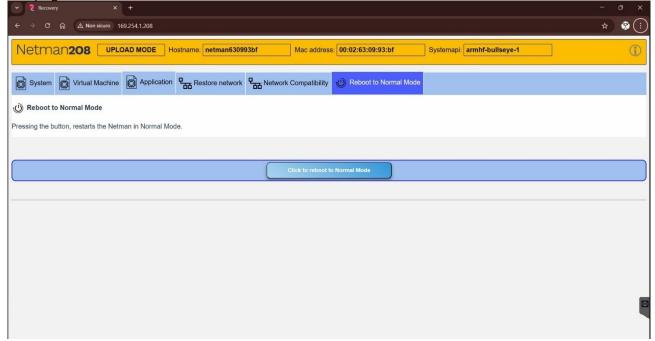
During the boot process, the status LED will be as follows:

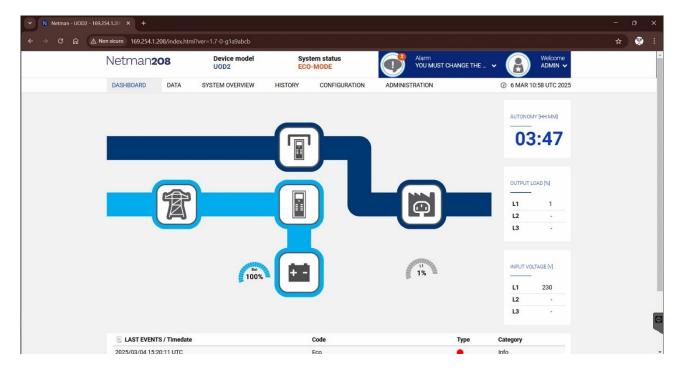
- steady green for about 1 second
- stedy red for about 125 seconds
- off for about 30 seconds
- steady red for about 35 seconds
- steady green -> now the netman is booted with fallback ip ready

Once the device responds to the ping, you can open the HTTP page:

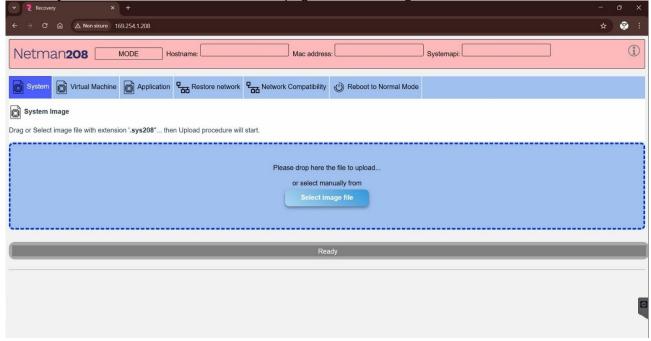


From this page, you can reboot the Netman to normal mode and you can connect to it through the webpage:





Note: If you are redirected back to this webpage after selecting "Reboot to Normal Mode":



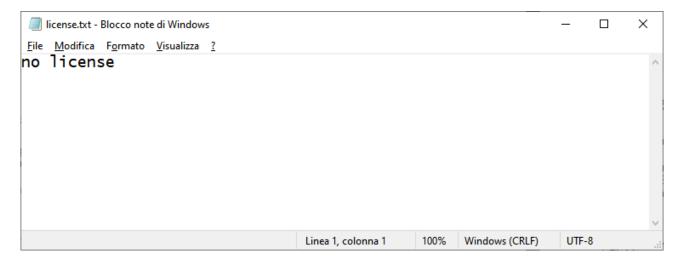
press Ctrl + F5 to clear the cache.

#### 4. How to set JSON?

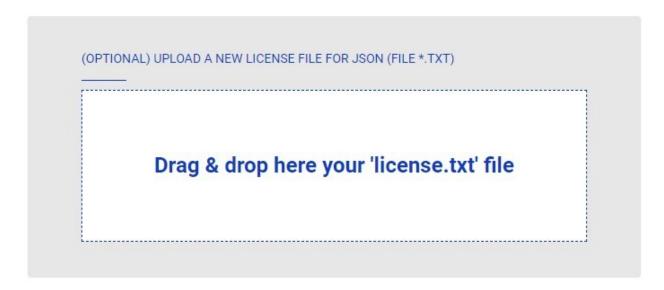
#### - 4.1 Licences.txt

Json requires a license.txt file to be uploaded. Create a license.txt file and write the string:

no licence



Upload it on the Netman:



#### Example output:

```
{
       "timestamp": 1727271949,
       "model": "RT1K06",
       "license": "no license",
       "name": "Netman 208",
       "location": "Italy",
       "contact": "Riello UPS",
       "partnumber": "CSEP1K0AA3", "serialnumber": "MU41VOD20017813",
       "status": [ 0, 0, 0, 6, 0, 0 ],
       "measures": { "vin1": 230, "vin2": 0, "vin3": 0, "fin": 49.9, "vbyp1": 230, "vbyp2": 0, "vbyp3": 0,
       "fbyp": 49.9, "vout1": 0, "vout2": 0, "vout3": 0, "fout": 0.0, "load1": 0, "load2": 0, "load3": 0,
       "vbat": 204.4, "autonomy": 262, "batcap": 100, "tsys": 39 }
}
Description:
"timestamp" The number of non-leap seconds which have passed since 00:00:00 UTC on
Thursday, 1 January 1970 (Unix time).
"model" UPS model
"license" no license
```

"name" Name (field in "General device configuration")
"location" Location (field in "General device configuration")
"contact" Contact (field in "General device configuration")

"partnumber" Part Number P/N of the UPS "serialnumber" Serial Number S/N of the UPS

"status": [byte\_1, byte\_2, byte\_3, byte\_4, byte\_5, byte\_6]

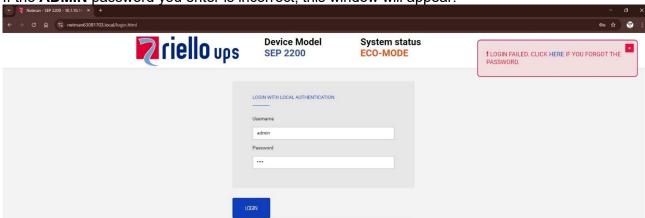
	0x80 = internal alarm OR lock
	0x40 = overload
	0x20 = ups fail
byte 1	0x10 = on bypass
byte_1	0x08 = on battery
	0x04 = battery low
	0x02 = comm lost
	0x01 = RESERVED
	0x80 = RESERVED
	0x40 = RESERVED
	0x20 = RESERVED
byto 2	0x10 = RESERVED
byte_2	0x08 = output powered
	0x04 = RESERVED
	0x02 = RESERVED
	0x01 = RESERVED
	0x80 = RESERVED
	0x40 = RESERVED
	0x20 = RESERVED
byte_3	0x10 = RESERVED
bytc_5	0x08 = RESERVED
	0x04 = ECO mode
	0x02 = RESERVED
	0x01 = RESERVED
	0x80 = RESERVED
	0x40 = RESERVED
	0x20 = RESERVED
byte_4	0x10 = RESERVED
by to_1	0x08 = bypass out of range
	0x04 = battery charging
	0x02 = battery charged
	0x01 = replace battery
	0x80 = RESERVED
	0x40 = RESERVED
	0x20 = RESERVED
byte_5	0x10 = RESERVED
,	0x08 = shutdown active
	0x04 = shutdown imminent
	0x02 = test in progress
	0x01 = RESERVED
	0x80 = RESERVED
byte_6	0x40 = RESERVED
	0x20 = RESERVED
	0x10 = RESERVED
	0x08 = RESERVED
	0x04 = alarm overload
	0x02 = alarm overtemperature
	0x01 = RESERVED

```
"measures": { "vin1": , "vin2": , "vin3": , "fin": , "vbyp1": , "vbyp2": , "vbyp3": , "fbyp": , "vout1": , "vout2": , "fout": , "load1": , "load2": , "load3": ,
"vbat": , "autonomy": , "batcap": , "tsys": }
"vin1"
                      Input voltage (Ph-N) V1
                                                     [V]
                                                     ſVΪ
"vin2"
                      Input voltage (Ph-N) V2
                      Input voltage (Ph-N) V3
                                                     [V]
"vin3"
"fin"
                      Input frequency
                                                     [Hz]
"vbyp1"
                      Bypass voltage (Ph-N) V1
                                                     [V]
"vbyp2"
                      Bypass voltage (Ph-N) V2
                                                     [V]
"vbyp3"
                      Bypass voltage (Ph-N) V3
                                                     [V]
"fbyp"
                      Bypass frequency
                                                     [Hz]
"vout1"
                      Output voltage (Ph-N) V1
                                                     [V]
"vout2"
                      Output voltage (Ph-N) V2
                                                     [V]
"vout3"
                      Output voltage (Ph-N) V3
                                                     [V]
"fout"
                      Output frequency
                                                     [Hz]
"load1"
                      Load phase L1
                                                     [%]
"load2"
                      Load phase L2
                                                     [%]
"load3"
                      Load phase L3
                                                     [%]
"vbat"
                      Battery voltage
                                                     [V]
"autonomy"
                      Autonomy time
                                                     [minutes]
"batcap"
                      Battery charge
                                                     [%]
"tsys"
                      System temperature
                                                     [°C]
```

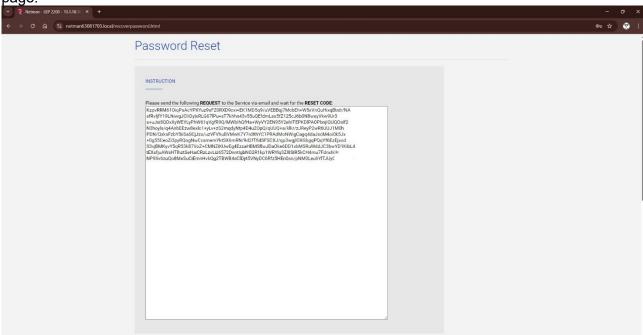
#### 5. How to reset the password?

#### - 5.1 Password reset

If the **ADMIN** password you enter is incorrect, this window will appear:

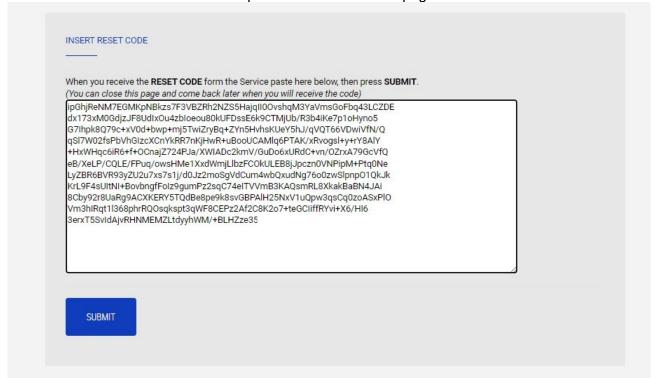


To restore the password, click on the top right corner to be redirected to the password recovery page:



Manually copy the entire text within the box and send it to your support contact.

You will receive the reset code to be pasted in the same webpage:



Press submit and the password is reset.

#### 6. How to name the vCenter server?

#### - 6.1 Naming the vCenter

The vCenter must be named as "VMware vCenter Server Appliance" to allow the Netman to manage the System correctly. If you name the vCenter in a different way, the Netman will be not able to shutdown the System correctly.

#### 7. How to shutdown a Cluster?

Field	Parameters to be inserted
Action	<b>Shutdown Cluster</b> will shutdown all the active VM on the specified cluster and all hosts part of the cluster

Note: In case the **VMware vCenter Server Appliance** is included in the cluster, a particular configuration must be performed.

In the section "Infrastructure connectors" the credentials of the VMware vCenter Server Appliance must be set and the credentials of all the hosts included in the cluster must be set as well.

In the section "Actions" it must be set the "Shutdown cluster" as first action and the "Shutdown host" for all the hosts present in the cluster as the other actions

Here an example:

VMware vCenter Server Appliance is included in the cluster "Riello UPS Cluster2". There are two hosts, "10.1.30.245" and "10.1.30.246".



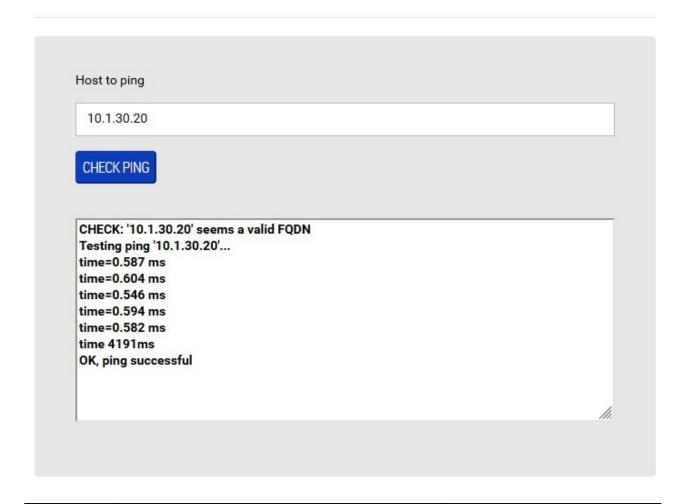
With this configuration the Netman will shutdown all the VMs, the host where the VMware vCenter Server Appliance is not running, the VMware vCenter Server Appliance and the host where the VMware vCenter Server Appliance is running.

#### 8. I can't validate my VMWare credentials, why?

#### - 8.1 Check ping

In the Netman with APP version 1.8 or higher, in the webpage "CONFIGURATION -> YOUR NETMAN -> CONNECTIVITY" there's the possibility to check the ping. It's usefu to know if the Netman is able to reach a device (i.e. an VMWare host with IP 10.1.30.20):

## **Check Ping**



#### 9. What could be the conditions of the VMWare tools?

There are different conditions inside the VMWare about the tools. The conditions could be:

toolsOk toolsOld toolsNotRunning toolsNotInstalled

The Netman can detect all the conditions, and in case the tools are not installed or not running the Netman doesn't stop the shutdown procedure.

**NOTE**: In a Windows VM if the screensaver is enabled, once it's activated it may shut the virtual disk off and consequently the Vmware tools condition is changed from "toolsOK" to "toolsNotRunning".

If the status of the tools is "toolsNotRunning" then the automatic restart of the VM will be not possible.

#### 10. How to syncrhonize the date and time on an UPS using NTP?

The Netman can provide the clock and time to some UPS models, only if the NTP is properly set and running. The synchronization is performed once a day at 00:30 The UPS's who supports the time synchronization are:

- All the UPS's with PRTK: SENTR

- The ups model: SENTRYUM

#### 11. How to define the password complexity?

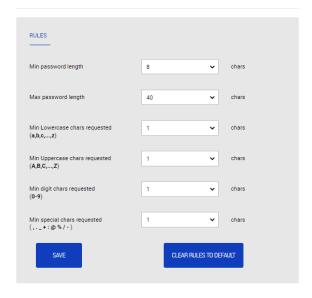
From APP version 1.6:

It's possible to define the password complexity from the menu:

ADMINISTRATION -> Change local password

Custom definition for Password Complexity for the "admin", "power" and "view" users: By default, the complexity requirements are set to strict with the following settings (customizable):

#### **Password complexity**



#### 12. Why the "view" user requires a password?

From APP version 1.6:

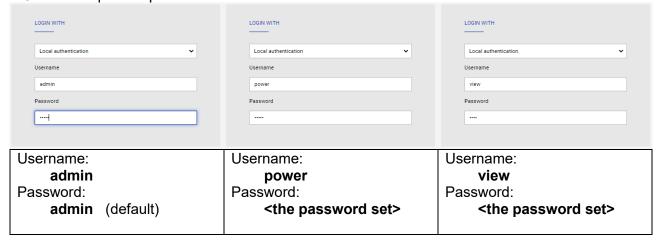
the "view" user requires a password.

The local users are as before:

- admin
- power
- view

By default only "admin" user is active, "power" and "view" user must be activated.

**View** user requires a password as well the other users:



The previous "View" button (accessing without password) in the Login page has been removed indeed.



#### 13. How to define the user roles?

From APP version 1.6:

User "admin" has full functionalities by default and it is always available.

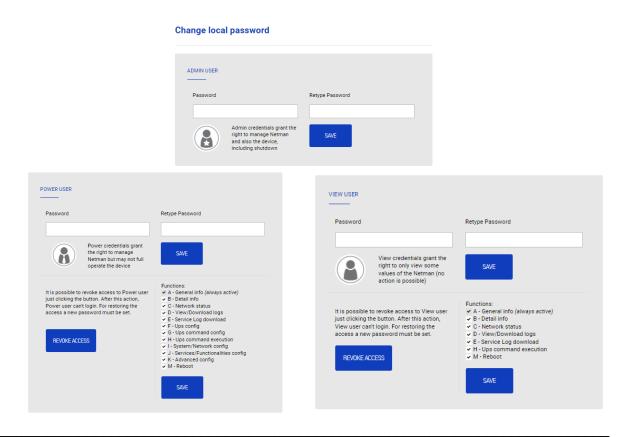
Users "power" and "view" are NOT activate by default and they must be enabled in the configuration.

All the users "admin", "power" and "view" needs a password.

The roles for these users now can be configured only from the "admin" user and allows to select multiple specific functions in a more flexible way.

E.g.: the "view" user may be able to reboot the Netman with "M-reboot" function flagged.

Only the "admin" user has full power with all the functions enabled.

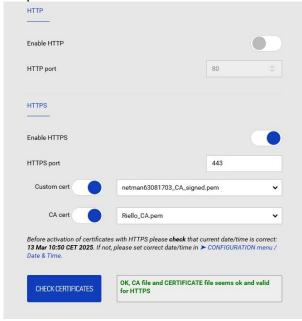


#### 14. How to test a HTTPS certificate?

From APP version 1.7:



It's possible to test the HTTPS certificate before saving:



## 15. Is it possible to receive an email when the external environmental sensor detects a value out of range?

From APP version 1.6:

It is possible to receive an email notification when the external environmental sensor detects a value out of range. Additionally, an email can be sent when the input contact is activated.

## 16. Is it possible to retrieve SNMP values and traps using SNMPv1 and SNMPv3 for the external environmental sensor readings?

Yes, it's possible to retrieve SNMP values and traps using SNMPv1 and SNMPv2 for the external environmental sensor readings.

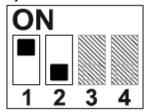
## 17. I can't get the external environmental sensor (P/N YSKCSE8A) working what should I do?

Remember that the led conditions on the external environmental sensor are as follows:

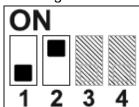
INDICATION	MEANING
Off	No power
Green, flashing	Running and connection ok with the Netman 208.
Red	Netman 208 not configured OR communication error.
Red, flashing	Wrong address configuration.

In case the led is red flashing, check if the dip switches of the external environmental sensor are properly set.

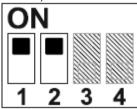
If you have one sensor, they must be configured as follows:



If you have two sensors, the first sensor must be configured as described above, the second must be configured as follows:



If you have three sensors, the first sensor and the second sensor must be configured as described above, the third must be configured as follows:



Please refer to the external environmental sensor user manual for more information.

### Changelog

DocRev	Data	Change
rev00	13/03/2025	First release
rev01	14/03/2025	Added an information about the netman updating on page 3 Added status LED descritption about the fallbackip chapter 3.5 Corrected the MASK of the laptop on chapter 3.5
Rev02	17/03/2025	Added chapter 15 and 16
Rev03	28/03/2025	Added chapter 17