Release Notes for Netman 208

APP Version 1.7

(October 2024)

Brief

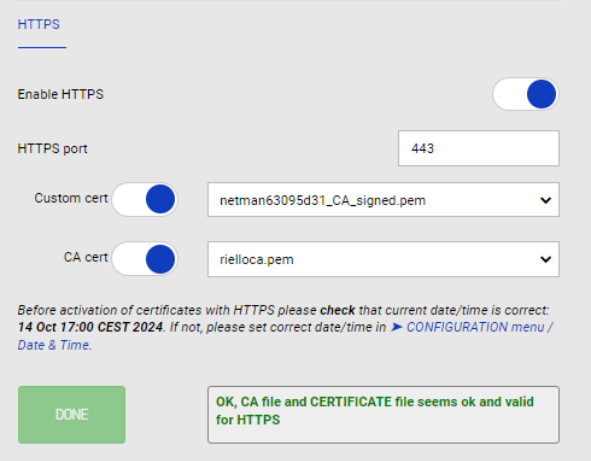
It is always reccommended to upgrade to the latest available version of the firmware.

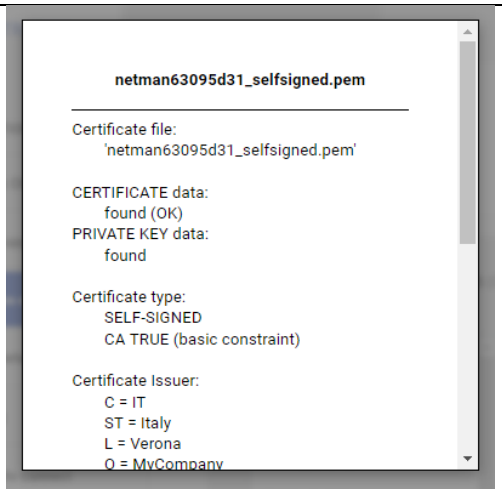
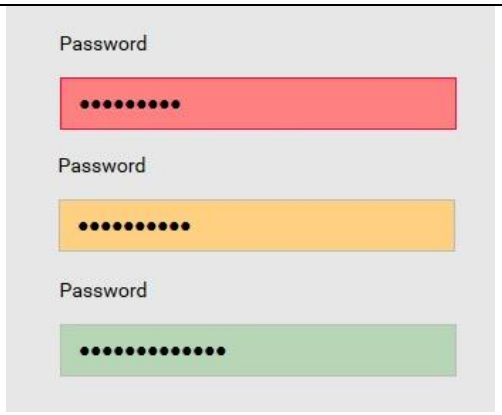
This update for Netman 208 includes only optimizations, improvements and bug fixes that do not have a severe impact on the usage over version 1.6.

If upgrading from a version below 1.6 please also read the section "Release Notes for Netman 208 APP Version 1.6/ SYS Version 1.4".

Brief list of New Features and changes

Here follows the list of some changes:

HTTPS Certificate test Added a manual pre-check for HTTPS certificates before application ans Save operation. It allows to check the HTTPS configuration checking for its validity, both with single certificate and with CA.	

View Certificates It shows some data of the loaded certificates. It allows to check some data and validity of the certificates loaded.	
Password strength suggestions with colors (red, orange, green). Some password fields are checked against common passwords usage: **red** is very common or guessable, **green** is a good password.	

Some other minor improvements:

- JSON TRAP (internal improvement)
- Datalog fix for RielloConnect service (internal improvement)
- Communication with some UPS and operations (internal improvement)
- Enhanced read/write capabilites for MODBUS and some UPS devices
- LDAP optimization for AD (internal improvement)
- FTP settings (internal improvement)
- other web pages improvements

Release Notes for Netman 208

APP Version 1.6 / SYS Version 1.4

(September 2024)

Brief

This update for Netman 208 introduces some features from Cybersecurity policies and rules other than other fixes and improvements for the beahviour of web interface and the system. Implementation of some new features may change deeply some previous habits and settings with the Netman 208 card and this is the reason of this Release Notes. The aim is to show the changes with more impact at first User sight.

Instructions for this update

Please note that this update:

- clears **all the passwords saved** in the configuration
- clears the **Date/Time/NTP configuration** saved

so remember to save separately the password and the Date/Time settings necessary before the update execution. After the update you will proceeed to re-tytpe again those passwords and settings.

Update instructions

Please follow this order for the update:

- goto Upload/Recovery mode
- load **SYS version 1.4**
- then load **APP version 1.6**
- then reboot to normal mode
- after login with "**admin**" user please re-insert all the passwords and the Date/Time settings

If you have problems rebooting to normal mode (every reboot gets always to Recovery mode):

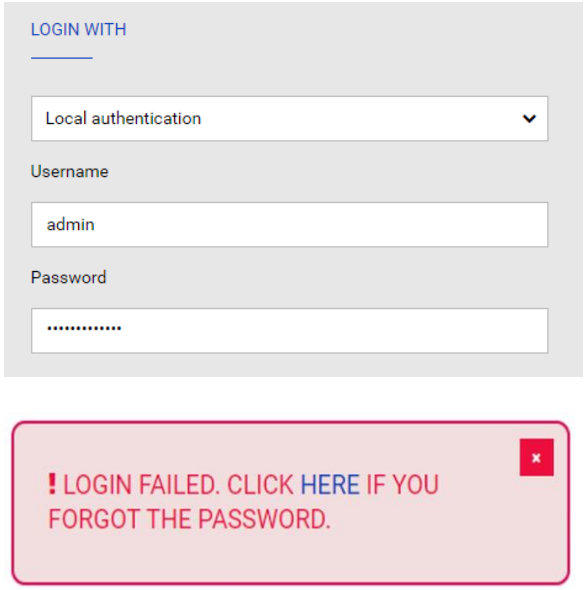
- from Upload/Recovery mode
- load the **JVM version 1.0**
- then reboot to normal mode

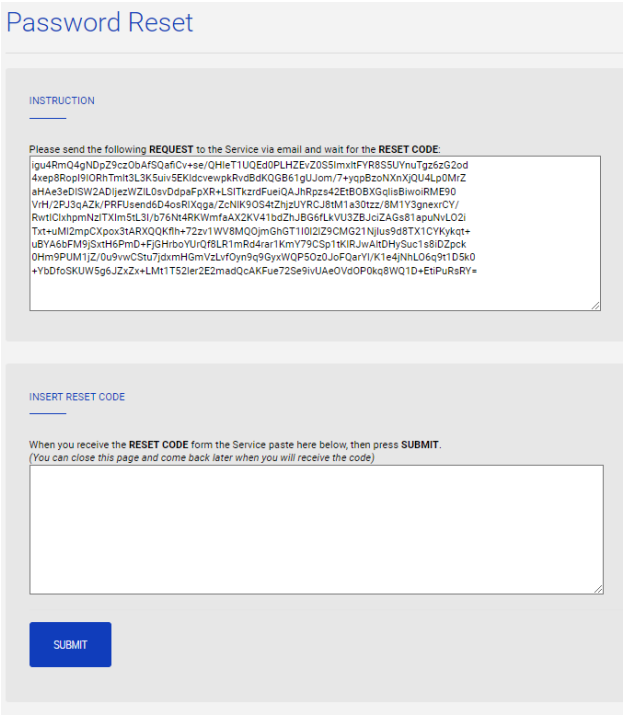
Brief list of New Features and changes

Here follows the list of the most impact changes for the user.

] Reset password from Service [

When "**admin**" tries to login with wrong password, a new RESET PASSWORD procedure can be called:





The User must copy and send (by email) the REQUEST CODE to the Service then wait for RESET CODE.

The new procedure implements a ciphered requests (more secure than before) that allows to reset the password restoring the default password ("*admin*") for the "**admin**" user.

] HTTP / HTTPS [

When the Netman is configured with HTTPS web settings enabled, the browser searching for HTTP it will be redirected to the correct HTTPS web service and port.

e.g.:

http://netman6309xxyy.local → (auto-redirection) → **https:**//netman6309xxyy.local

This redirection is available for both **IPv4** and **IPv6**.

] Users [

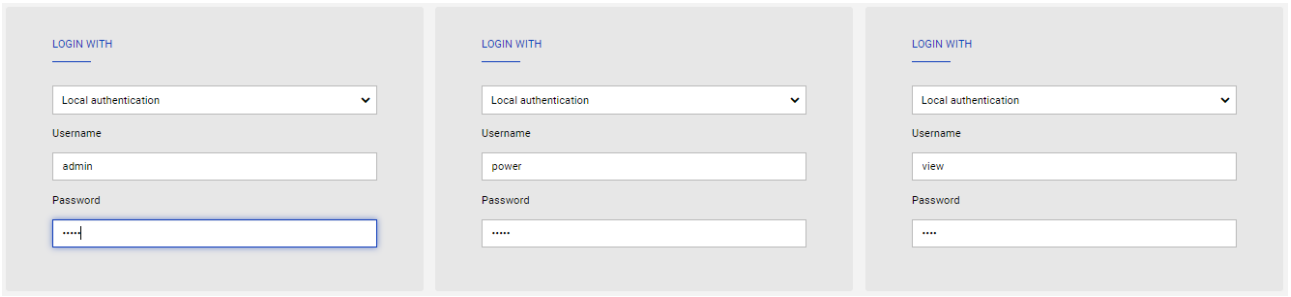
ADMINISTRATION → **ADMINISTRATION** → **Change local password**

The local users are as before:

- **admin**
- **power**
- **view**

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

The big difference is that now "**view**" user requires a password as well the other users:



Username: **admin** Password: **admin** (default)	Username: **power** Password: **<the password set>**	Username: **view** Password: **<the password set>**

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

] User Roles [

ADMINISTRATION → **ADMINISTRATION** → **Change local password**

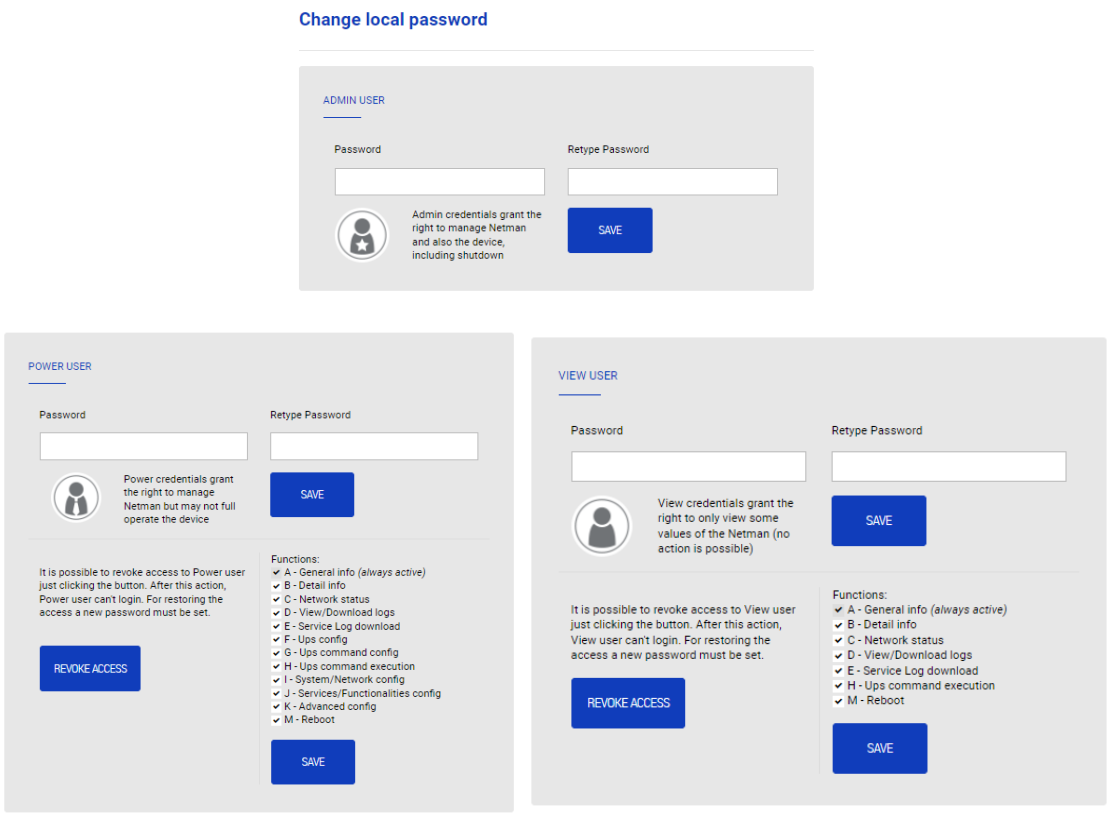
User "**admin**" has full functionalities by default and is always available.

Users "**power**" and "**view**" are non activate by default and 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.



] Stronger User Login check and retries [

ADMINISTRATION → **ADMINISTRATION** → **Login rules**

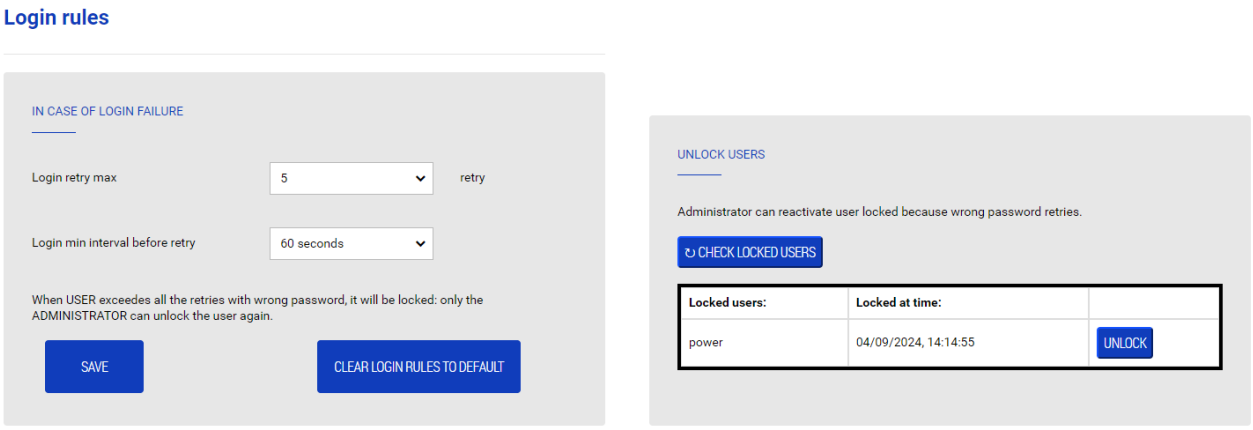
A new mechanism for the login failed has been added: a User has limited retries before being locked and a certain customizable time to wait before any retry.

Default values for the retries are:

- max **5** retries
- **60** seconds between each retry

and can be customized.

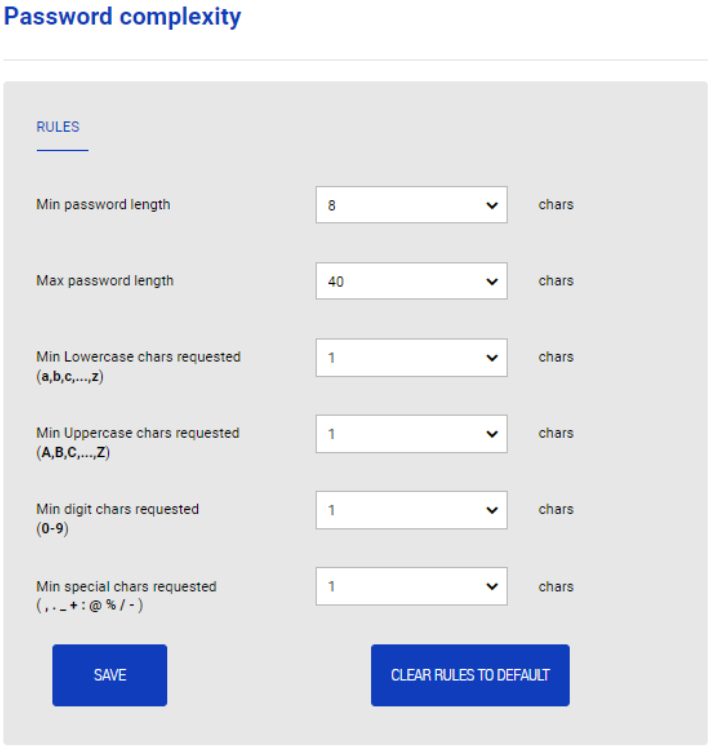
After the max retries with login failed the user is beign locked and only the admin user can unlock it from its web configuration. Remember that the the "**admin**" user will never be locked.



] Password complexity [

ADMINISTRATION → **ADMINISTRATION** → **Change local password**

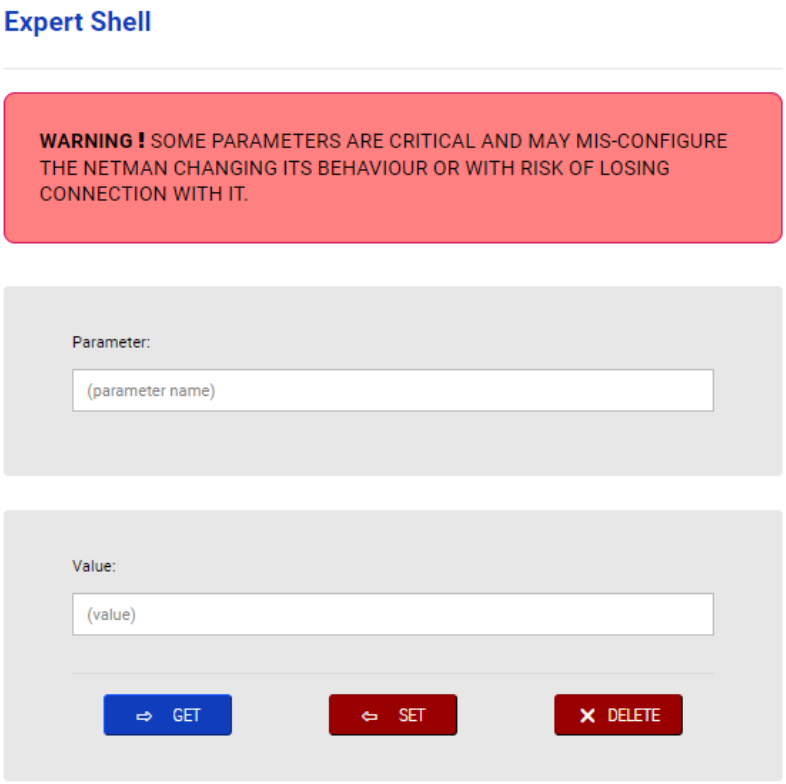
New custom definition for Password Complexity for the "**admin**", "**power**" and "**view**" users: by default the complexity is strict with the following settings (can be customized):



] Expert Shell via Web [

CONFIGURATION → YOUR NETMAN → **Expert Shell**

Now the previous "SSH Expert Shell" is available in the Web section (only for "admin" user). It allows to manage the internal parameter from the Web, without accessing the SSH command line interface.

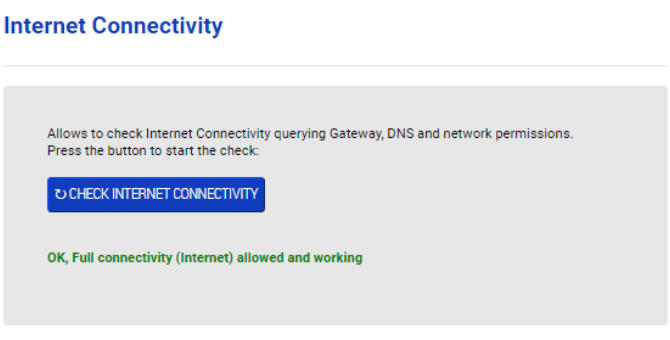


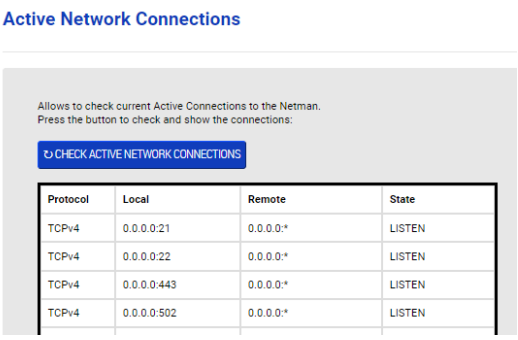
This section is available only from the "**admin**" user and is used only rarely with special configurations. Please remember that managing the parameters wuthout any reason may lead to mulfunctions with the Netman.

] Network connections [

CONFIGURATION → YOUR NETMAN → **Connectivity**

A new section in Web is now available for checking the **Internet Connectivity** and some socket **Connections Active** in the Netman understanding the services and the connections active in the Netman.

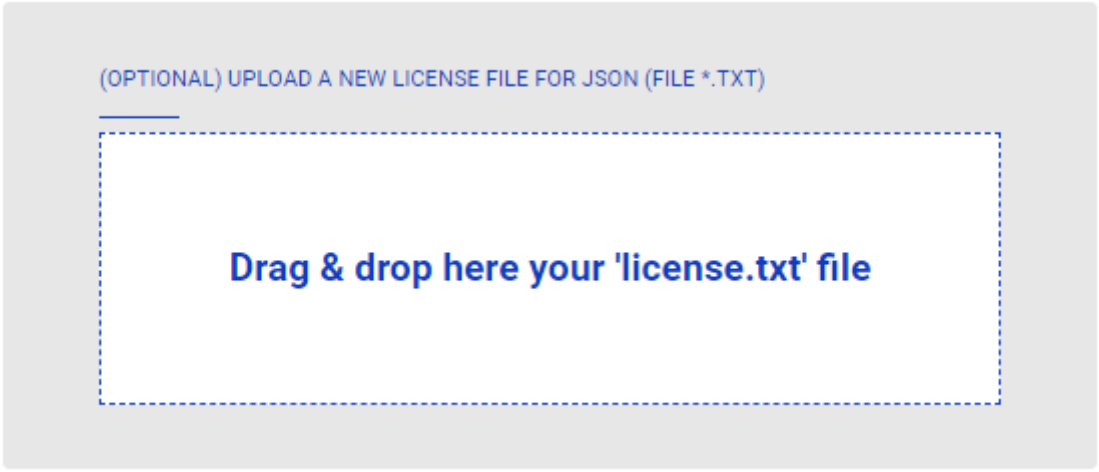




] JSON file upload via Web [

CONFIGURATION → YOUR NETMAN → **JSON**

For the JSON configuration, now the "**licence file**" of the JSON service can be uploaded via web.



User can drop a file with some text data; the content of this file will be written in the JSON field "**`license`**" as simple text:

```
[{
        "timestamp": 1682497583,
        "license": "<CONTENT_OF_LICENSE_FILE>",
        "io_conf": 1,
        "status": [0, 8, 0, 6, 0, 0],
        "measures": {
            "vin1": 230,
            …
            …
            "tsys": 23
        }
    }
]
```

] Variuous Security improvements [

The security of the Netman 208 has been improved with:

- HTTP/HTTPS security improvements (cookies/sessions)
- Fields in the Web pages (input check validation with chars allowed and length validation)
- SSH Service warning if active (SSH can be used but is no more a full-safe service - *please consider disable it if not necessary*)
- “admin” default password warning if the password is left as default (it should be changed after first login)
- Other bugfixes and CVE fixes

] Others minor improvements [

- Auto-logout improved (time of autologout showed)
- Enviromental Sensors update (fix for some reading problems reported and web page updates for email alarms and management)
- BACNET address range extended to 4194302
- NUTANIX fix (internal keys management)
- General system and user messages improvement