INSTALATION MANUAL

for Smart RF box eLAN-RF-103

1. Installation eLAN-RF-103, IP address 5
2. Login to the web interface eLAN-RF-103..... 6
3. Settings 7
3.0.1 Logging 8
3.1 Settings..... 8
3.1.1 Device 8
3.1.3 Network settings 9
3.1.4 Cloud settings.....10
3.2 Configuration backup 12
3.3 Firmware Update 12

Before you begin!

The instructions are intended for use for installation and user of the device. Instructions are always included. Carry out the installation after conplete familiarization with the instructions and functions of the device. The trouble-free operation of the device depends on the previous method of transport, storage and handling. If you find any signs of damage, deformation, malfunction or missing part, do not install this product and claim from the seller. The product or its parts shall be treated as electronic waste at the end of its life. Before starting the installation, make sure that all wires, connected parts are voltage-free. During installation and maintenance, it is necessary to comply with safety regulations, standards, directives and professional provisions for working with electrical equipment.

Congratulations on your purchase of the eLAN-RF-103 RF Smart Box, which is part of the RF Control wireless system.

- The RF smart box allows you to control the wiring with your smartphone or using the voice assistants Google Home and Amazon Alexa.
- Transmits and receives commands from up to 70 components and processes set programs for automatic regulation (you can gradually expand the installation from 1component iNELS RF Control).
- Thanks to two-way communication, it visualizes the current state of individual components.
- RF Smart box eLAN-RF-103 is a LAN network cable connected to the home network (router) and communicates with the smartphone.
- The intuitive app interface offers central control from one place.
- iNELS app features:
  - regulation of hot water or electric underfloor heating
  - temperature measurement by wireless sensors
  - switching of appliances (garage doors, blinds, fan, irrigation, sockets...)
  - dimming of lights (LED, energy-saving, halogen or classic bulbs)
  - time switching (delayed switching off of the light when leaving the room)
  - remote control
  - scenes (press one time to execute multiple commands at once)
- If you do not have a fixed IP address, the smart RF box will get it from the DHCP server automatically.
- Power supply of the Smart RF box using a 5V DC adapter (included).
- Possibility to set via **the iNELS application.**
- Internal AN-I antenna is included, if the RF Smart box is located in a metal switchboard, you can use an external AN-E antenna* to improve the signal.
- Range up to 100 m (in open space), in case of insufficient signal between the RF smart box and the component, use the RFRP-20 signal repeater.
- Communication frequency with bidirectional protocol iNELS RF Control.

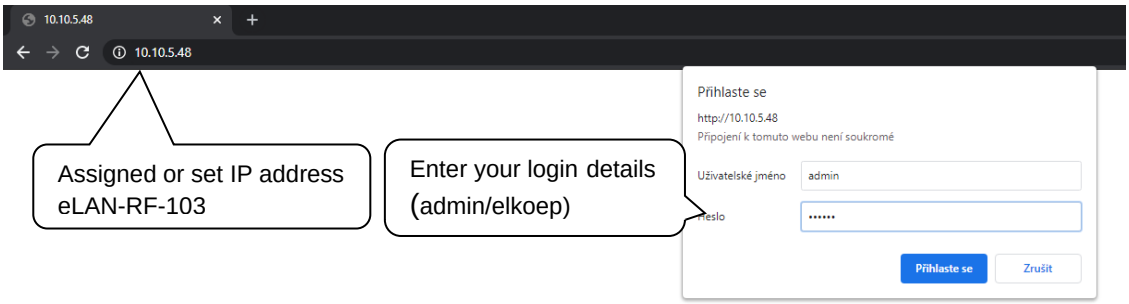
* Max. antenna connector tightening torque: 0.56 Nm.

Notification:
The minimum distance between the controller (system unit) and the element must not be less than 1cm.

Setting options:
max. number of actuators - 70
max. number of temperature zones – 16
max. number of timetables - 20, (max. 20 assigned actuators or HCAs in the plan)
max. number of central sources - 5
max. number of heating and cooling devices in the temperature zone - 10 actuators for HEAT and max. 10 actuators for COOL, total 20
max. number of intervals in the timetable – 8
max. number of rooms: 60, (max. 32 actuators in the room)
max. number of scenes: 30, (max. 30 actions in scene)

1. Installation eLAN-RF-103, IP address

1. Connect the eLAN-RF-103 to the power supply via an Ethernet cable to your local network. Your local network (router) assigns an eLAN-RF-103 IP address. By default, the eLAN-RF-103 is set to automatic IP address retrieval (DHCP).



- *Login*

1. In the installed application, in the **account / gateway administration** menu, press **the +** icon - the **search** will start. You will see the eLAN-RF-103 found, which is located in your network to which you are currently connected by your phone (home network) and their IP addresses. Here you will find the IP address assigned to the eLAN-RF-103.
2. Alternatively, it is possible to use the ELKO Finder search software and enter the eLAN IP address manually. SW to download here:

https://www.elkoep.cz/media/import/Elko/eLAN/eLAN-RF-003/CS/ELKO%20Finder%202.1.003.rar

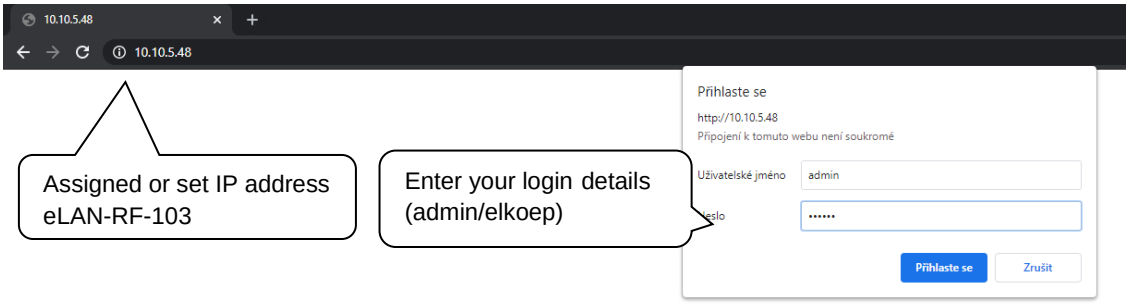
- You can install the application on your smartphone:
  - For mobile phone with Android OS: download the current version on **Google Play** under the name **iNELS.**
  - for mobile phones with IOS: App **Store** under the name iNELS download the current version.

2. Login to the web interface eLAN-RF-103

- You start a web browser.
- In your Internet browser, add the IP address of your eLAN-RF-103 to the ***address*** bar.
- After confirming the specified IP address, the login page of the web server is loaded.
- The factory setting for administrator login is:

Name: admin

Password: elkoep



You can log in to the eLAN-RF-103 web interface as:

- Administrator (admin) - has all rights to set and control
- Owner - has limited rights for setting and controlling
- User- (user) - can only control the device

- Users log in to the dialog boxes – ***Name***, ***Password*** (each with their own name and password).

- Login can be confirmed by clicking on ***the Login*** button

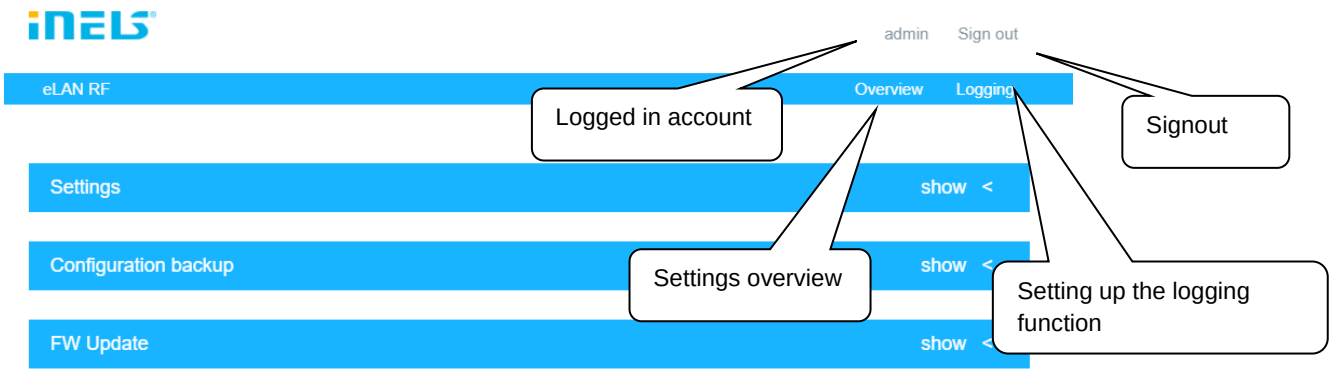
Note: Reset the eLAN-RF-103 element can be done by long pressing the button for 10s on the front panel of the device. The IP address and credentials are reset to factory settings and set to automatic IP address retrieval (DHCP).
After 5s, only the network settings are reset, after another 5s, the complete settings are reset.

Factory password setting for login for both admin and owner is: elkoep

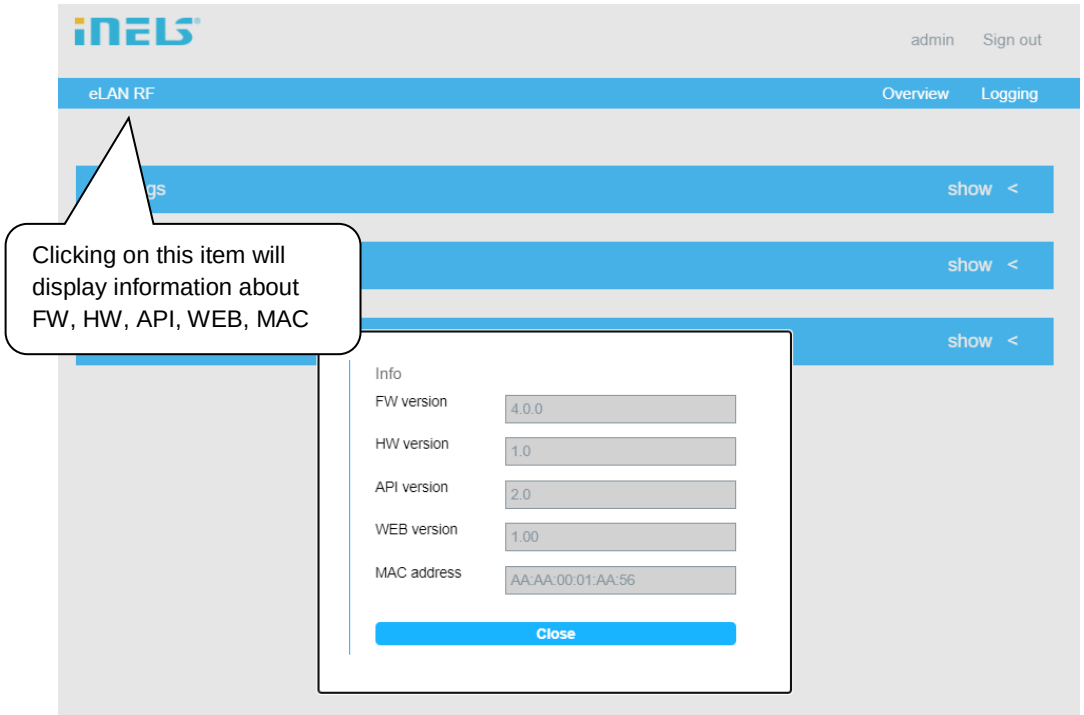
3. Settings

After logging in, a window with the following signpost will appear in your browser:

- Taskbar – to display information about eLAN-RF-103, logging function and logout
  - eLAN RF button displays information about FW, HW, API, WEB, MAC
  - Overview – opens a screen with a detailed description of the entire configuration (for service purposes)
  - Logging – opens the logging settings menu (for service purposes)
- Settings – use for basic eLAN-RF-103 settings
- Configuration backup – used to create/restore a backup
- FW update – used to load firmware



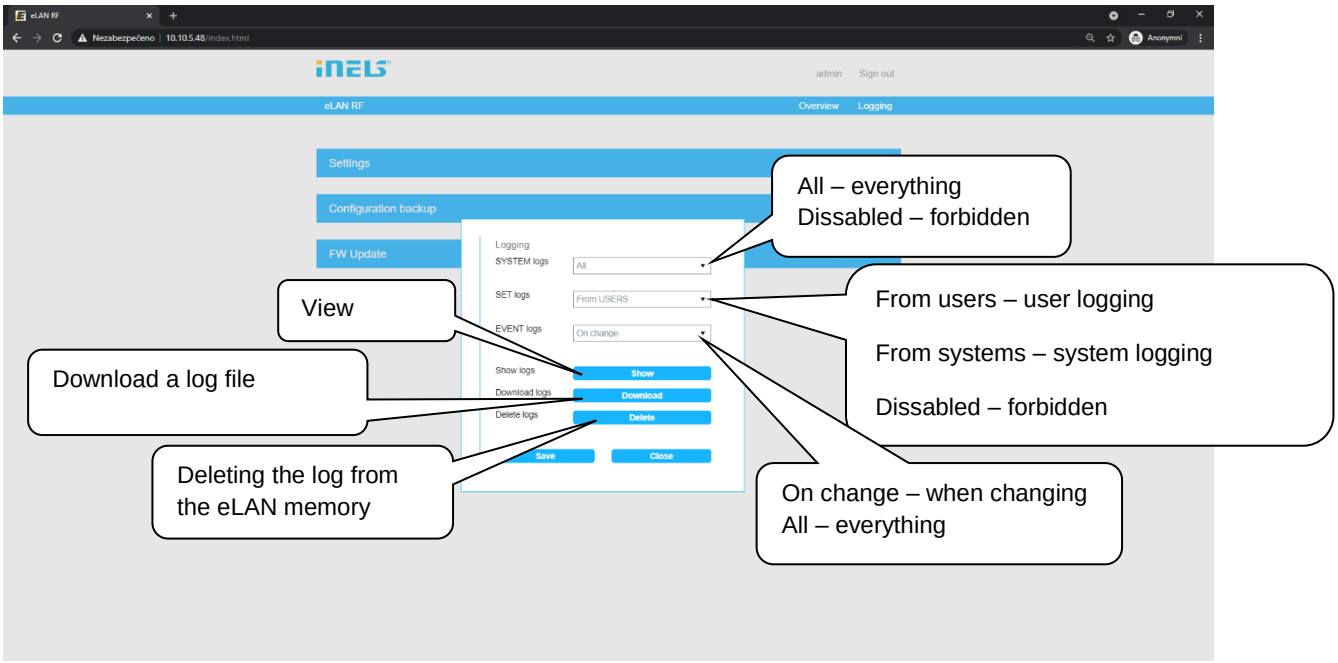
Hlavní obrazovka



eLAN RF information

3.0.1 Logging

This part of the settings is used primarily for service purposes. After enabling logging, the eLAN-RF-103 will start saving the set records of events that happened on the device.

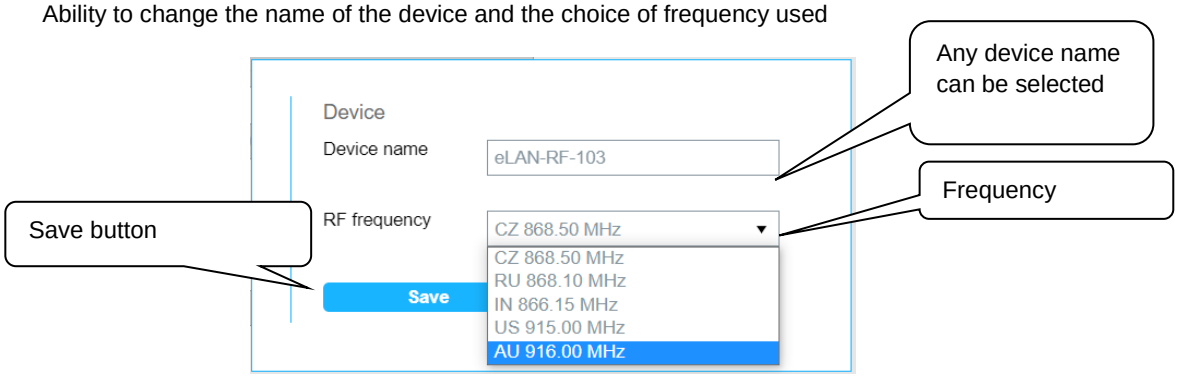


Logging

3.1 Settings

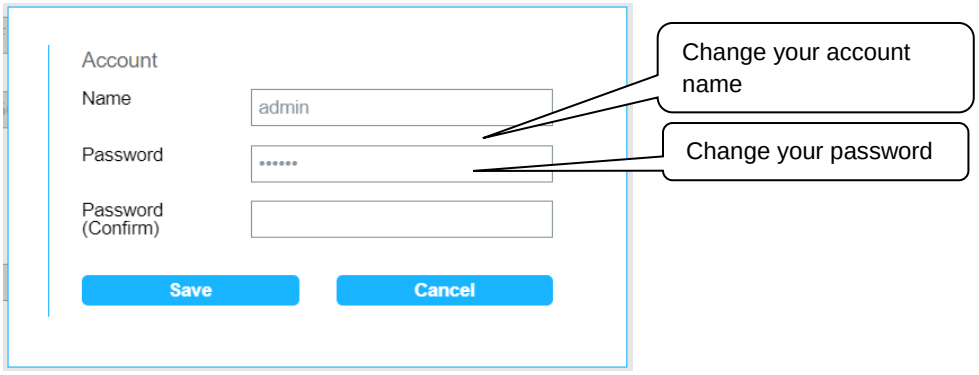
3.1.1 Device

Ability to change the name of the device and the choice of frequency used



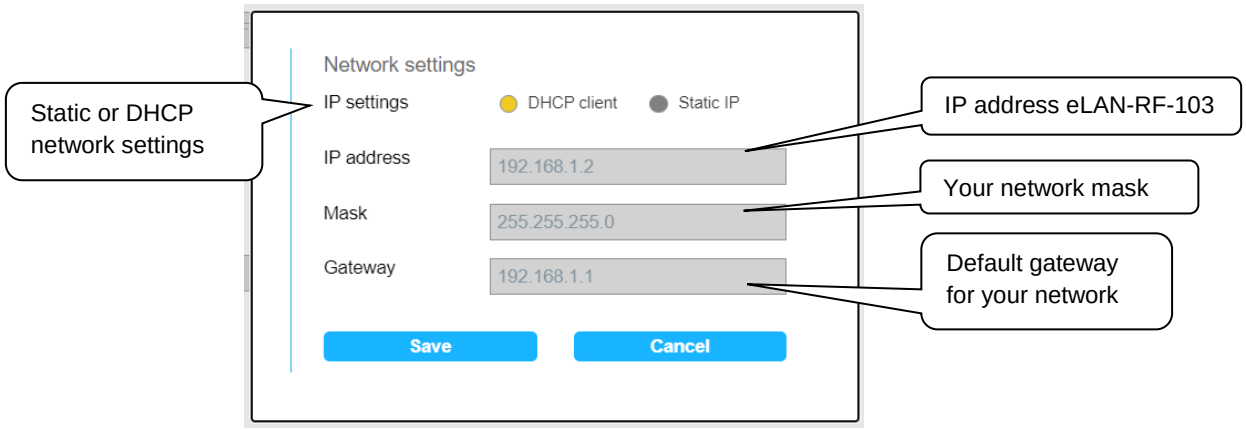
3.1.2 Account

Ability to change login details.



3.1.3 Network settings

It is used to configure network settings, which you can change according to your network.

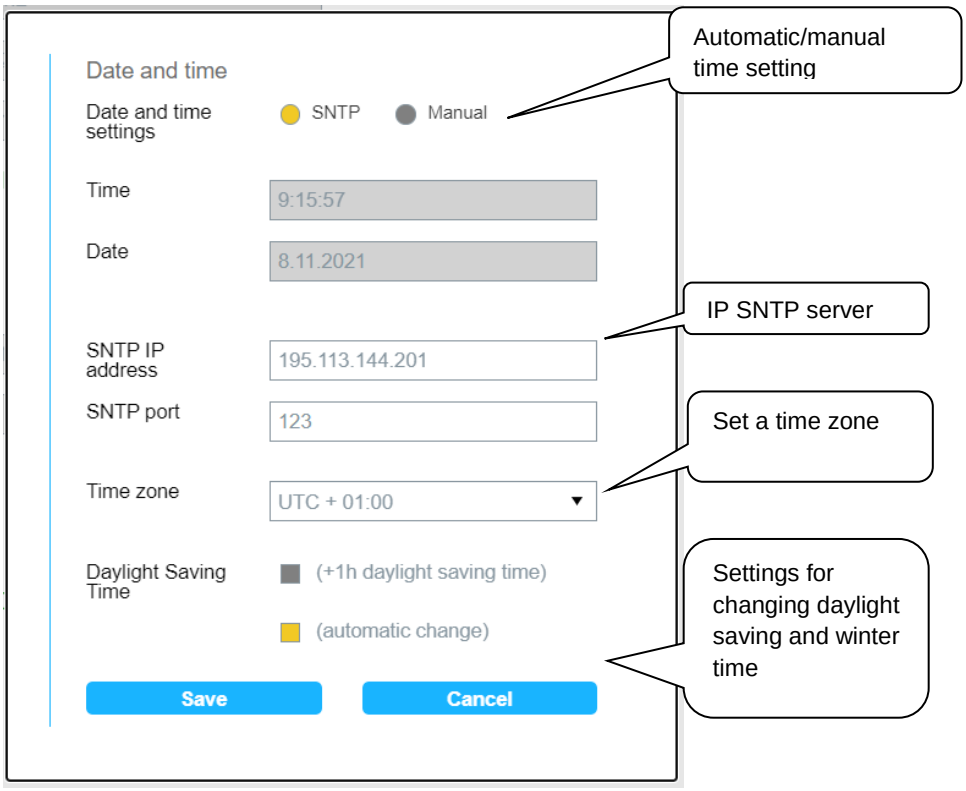


Date and time - automatic reading of time from SNTP server is set by default. Another option is to set the time manually.

SNTP IP address port – settings for own SNTP server.

Time zone – time zone settings.

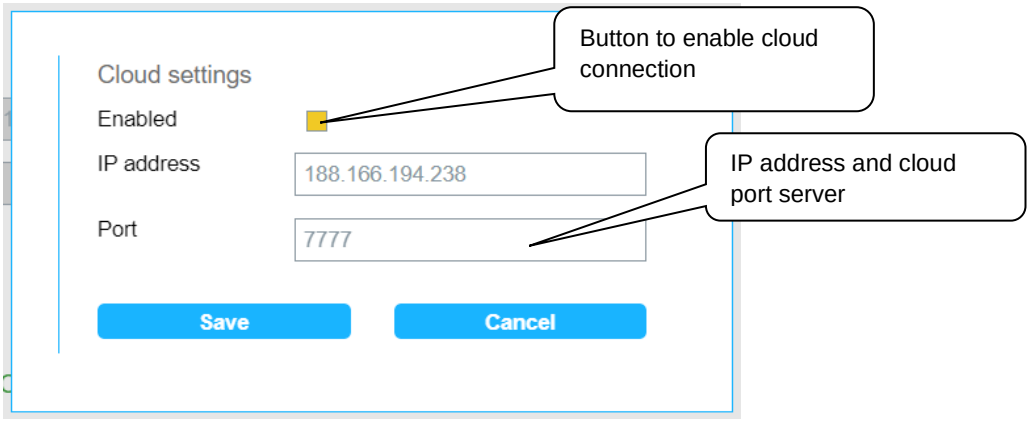
Daylight Saving Time – Setting the change of summer and winter time. Set by default for automatic change.

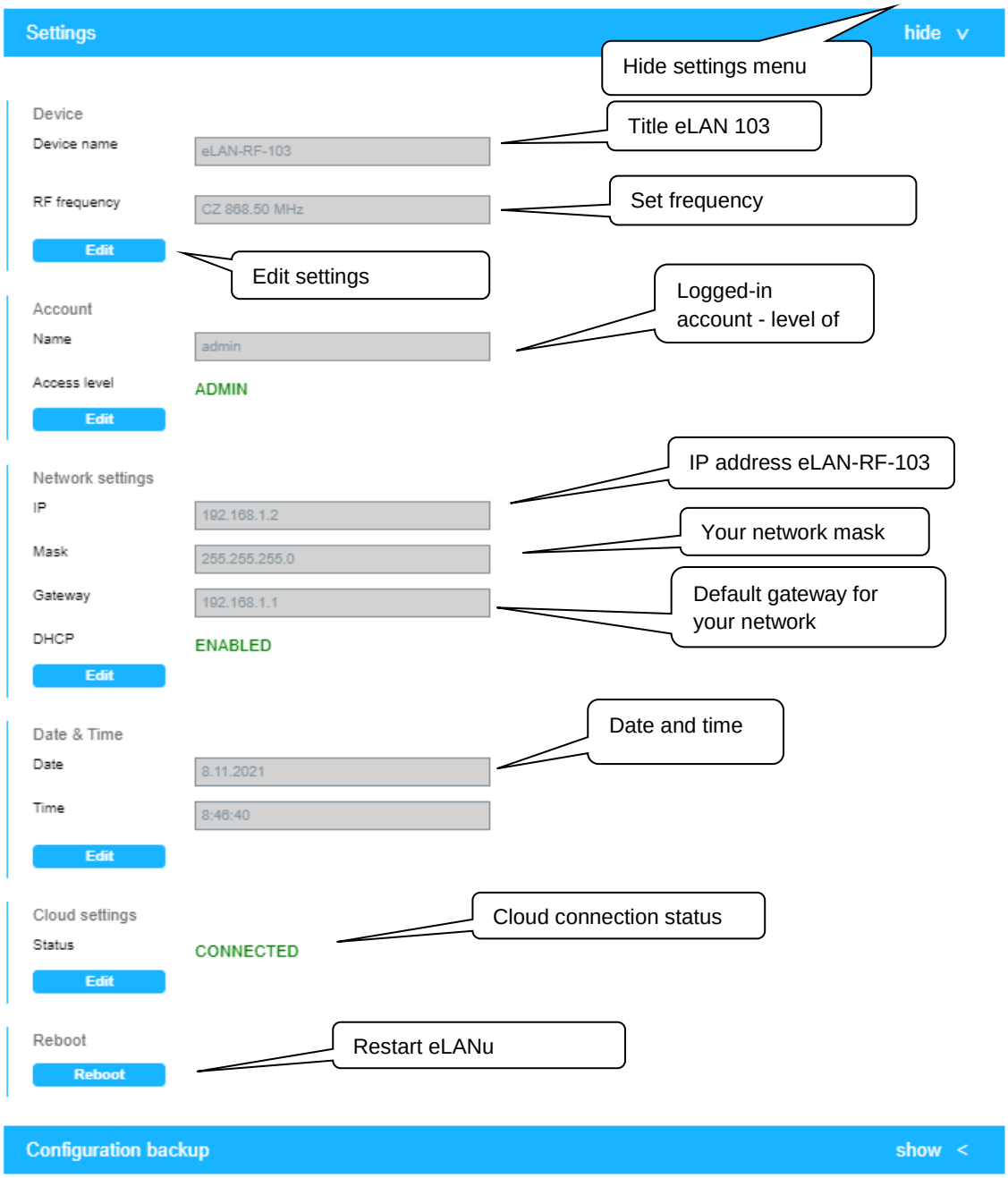


3.1.4 Cloud settings

Setting up a cloud connection (done using the app)

Here it is possible to enable and change the IP cloud connection, set by default to elko.cloud

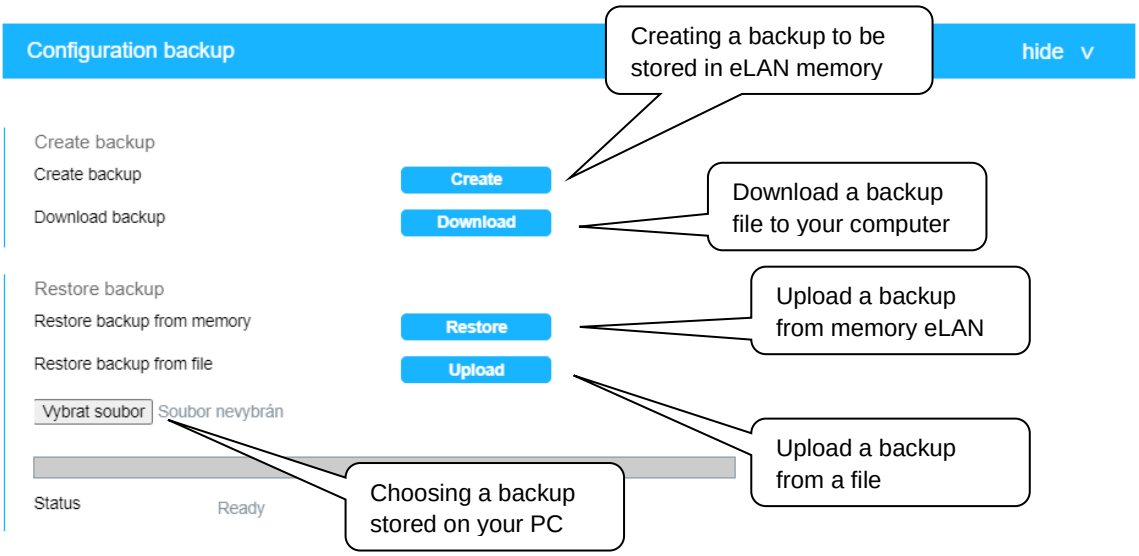



Settings
hide
Hide settings menu
Device
Device name
eLAN-RF-103
Title eLAN 103
RF frequency
CZ 868.50 MHz
Set frequency
Edit
Edit settings
Account
Name
admin
Logged-in account - level of
Access level
ADMIN
Edit
Network settings
IP address eLAN-RF-103
IP
192.168.1.2
Mask
255.255.255.0
Your network mask
Gateway
192.168.1.1
Default gateway for your network
DHCP
ENABLED
Edit
Date & Time
Date and time
Date
8.11.2021
Time
8:46:40
Edit
Cloud settings
Cloud connection status
Status
CONNECTED
Edit
Reboot
Restart eLANu
Reboot
Configuration backup
show

Settings

3.2 Configuration backup

Use this section of the settings to back up and restore the configuration of the eLAN-RF-103



Back up your settings

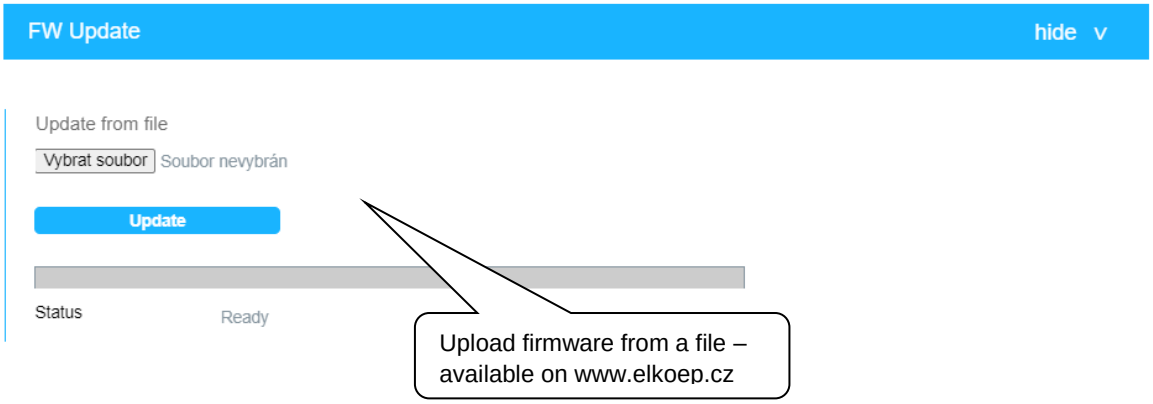
3.3 Firmware Update

Update FW eLAN-RF-103:

1. From the website **http://www.elkoep.cz/produkty/inels-rf-control/rf-control-systemove-prvky/** download the latest version FW eLAN-RF-103.

2. Click the ***Select File*** button and click to select the downloaded file (the file for the FW update must always contain the extension *.efw). Confirming the Update button will automatically start updating the FW in your eLAN-RF-103.

Note: Do not turn off or use the Reset button during the FW update. The eLAN-RF-103 will automatically restart when the FW update is complete. After the firmware update, all your settings will be preserved (IP address, login data, visualization panel as with the FW version before the update).



FW Update