

NG-Gateway – Tutorial 1

LAN and WiFi Initial Configuration

1. Introduction

In order to access NG-Gateway Web interface, it is essential to connect the device to a local network through a network cable. NG-Gateway LAN default setting is DHCP mode.

When in DHCP mode, if you need to know the device IP address within the LAN network, select LAN from the communication menu on the display. The LAN page shows all current network parameters.

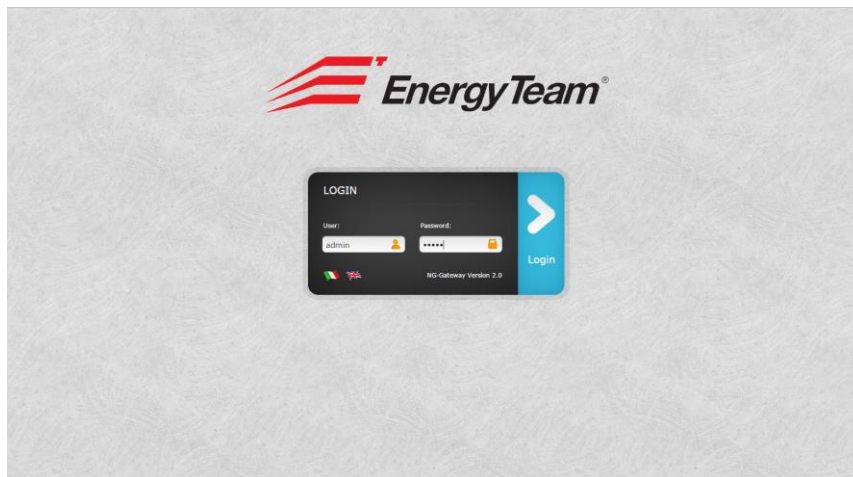
With this IP address, you can access NG-Gateway's web interface. If you cannot reach the page, check the device's connectivity and local network settings.

If the access is successful, you will visualize the initial Login page. On this page there are language selection buttons, software version label and login data text boxes.

2. User Interface Access

In order to configure the system, it requires access with administrator privileges. In our case, you can use these parameters:

- *Username:* admin
- *Password:* admin



ATTENTIONS: in order to preserve security, it's recommended to change the password of the administration user once the initial configuration is completed.

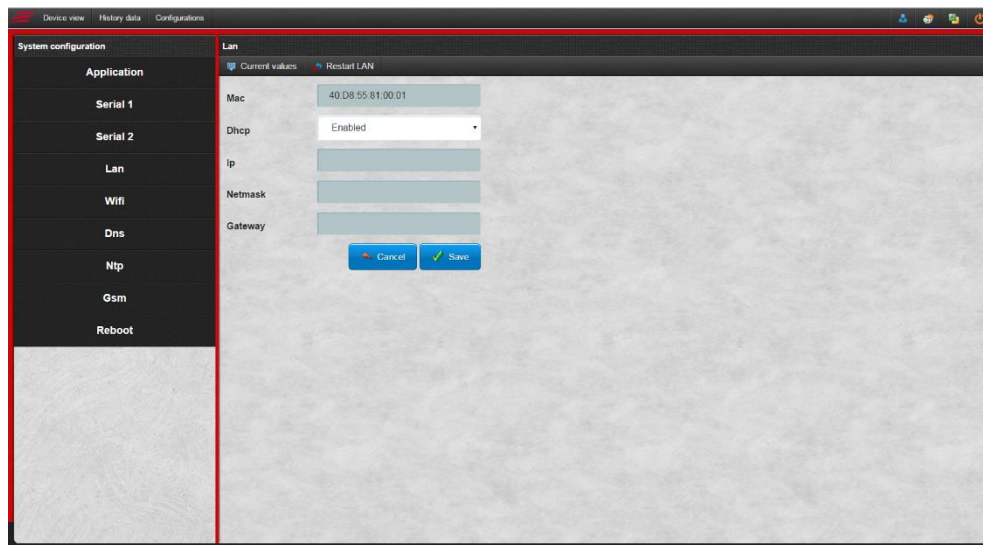
3. System Configuration

Once logged in to the web interface, select *System configuration* from the *Configurations* menu.

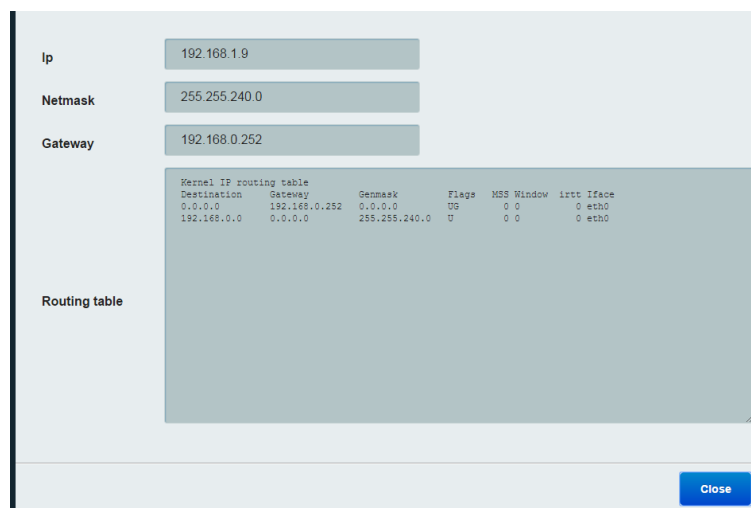
ATTENTION: Depending on the purchased version, menu entries may differ.

3.1 Lan Configuration

Select *LAN* from the menu on the left hand side. As previously explained, NG-Gateway is connected in DHCP mode to the local network.



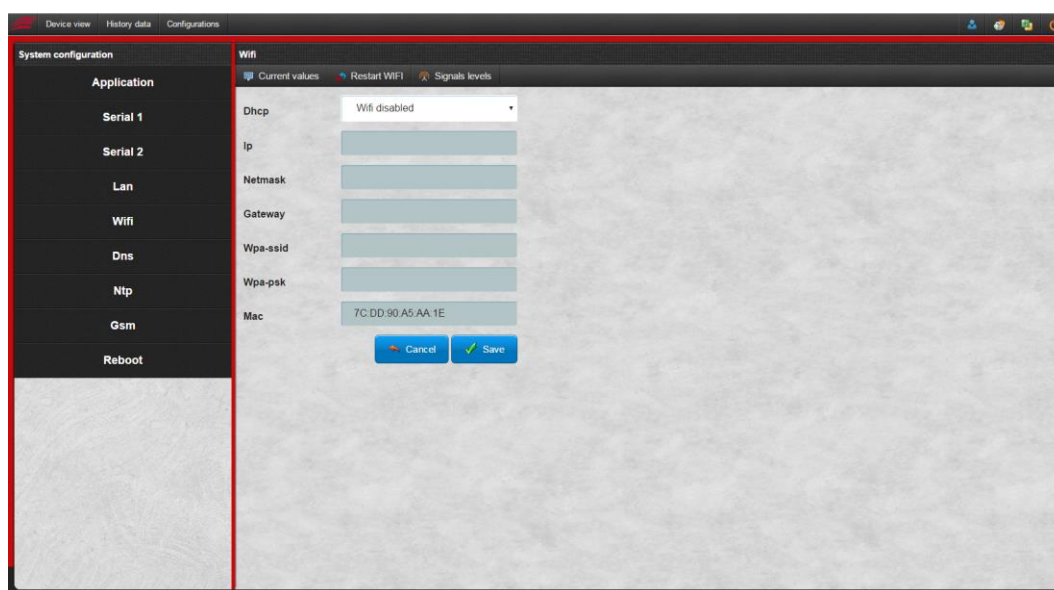
Clicking on *Current Values* button you can visualize IP address, Netmask, Gateway and routing table. If it's necessary to disable DHCP mode to insert custom parameters, select *Disable* from the DHCP drop down menu. You can now access the network parameters text boxes and insert your custom data. Click *save*. New changes are not effective until NG-Gateway's network card will be rebooted. If you are sure of the new parameters inserted, click *Restart Lan*.



ATTENTION: After rebooting the network card, you will lose web interface access. You need to use the new IP address to access the NG-Gateway web interface again.

3.2 WiFi Configuration

Select *Wi-Fi* from the menu on the left hand side. Make sure you have purchased NG-Gateway Wi-Fi optional module, otherwise you cannot use Wi-Fi connectivity. On default settings, Wi-Fi network card is disabled.



ATTENTION: if you need to enable Wi-Fi and LAN connections simultaneously, you need to pay extra attention to the configuration in order to avoid ambiguous situations of routing. In case of error in the configuration, you can lose access to the web interface, but you can fix correct functioning from NG-Gateway display.

Like in the LAN configuration page, in the Wi-Fi one we find the button that shows current values for network parameters and the restart network card button. We also find a *Signal levels* button, once Wi-Fi connection is enabled, this will show quantity and quality of Wi-Fi signal.

Should you decide to use NG-Gateway in DHCP mode, select “*Enabled*” from the DHCP drop down menu. In this case you will need to configure Wpa-SSID and WPA-psk parameters, respectively WiFi network name and access password. Once all parameters have been set and you are sure about them, click *save* and then *Restart Wi-Fi*.

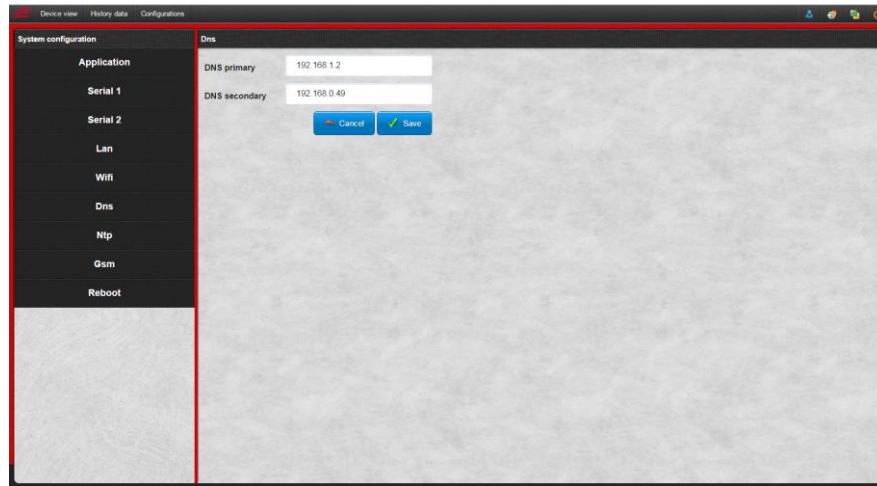
Otherwise, if you choose to configure Wi-Fi network with a static IP address, select “*Disabled*” from the DHCP down menu. This selection will enable the configuration text boxes for IP address, Netmask and Gateway parameters. Once the configuration is complete, click *save* and then *Restart Wifi*.

ATTENTION: If you change Wi-Fi parameters and restart wifi card, you need to repeat access to the web interface.

This page also shows Wi-Fi card mac address, which is different from the one indicated on the network Lan card.

3.3 DNS configuration

Domain name system, DNS, is a system used for host name resolution in IP addresses and vice versa. To allow NG-Gateway to resolve host name that need to be reached, it's important to properly do the DNS configuration.



Select DNS page from the left column menu. In DHCP mode, NG-Gateway gets automatically DNS servers IP addresses. If you need to change them or set a static IP address, insert Primary and secondary DNS in the correspondent boxes.

Press save after editing DNS parameters.

3.4 NTP Configuration.

NTP (Network Time Protocol) is a protocol used to synchronize computer watches within a network. In the NTP configuration page, we can insert NTP servers that NG-Gateway will use for time synchronization.

The configuration of the NG-Gateway, already includes several NTP public servers. should you need to change them, select NTP from left column menu and edit parameters in the text boxes.

You need at least one reachable NTP server to perform time sync.

