TT230702 – LoRa - LoRaWAN Gateway Setup

1. In this document, we will show you how setup the LoRaWAN gateway (DS-LoRaGateway).

2. Then we will connect the AM307 LoRaWAN sensor to the LoRaWAN gateway.

3. Below are the default settings for the LoRaWAN gateway.

4. Connect the gateway to your network and login using the default username and password.
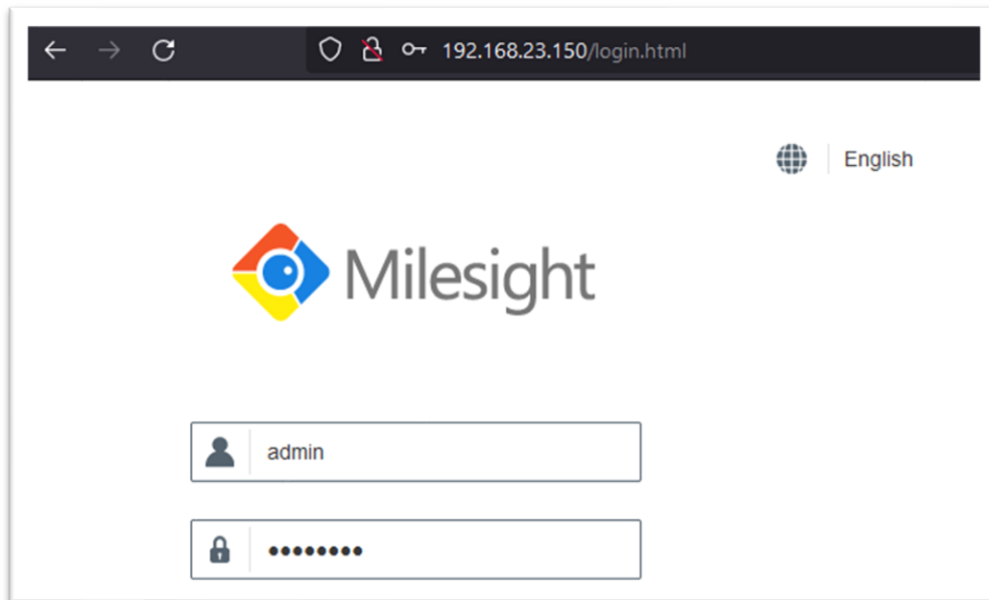
5. Select the antenna type and change the password.

6. Now you should see the below overview of the gateway.

7. Click on "Network", "Interface". Change the "Port" settings (e.g. IP address) to meet your network settings. Click "Save & Apply" button.

8. Wait until it's finished and connect to the gateway again with the new IP address. Click on "System", "General Settings", and then the "System Time" tab to setup the "System Time Settings". The gateway is now ready for use.

9. Download the "DEOS LoRa Toolkit for (DEOS TEO)" from https://portal.deos-ag.com. It's under "Download Center", "Beta Tools".

10. Install and run it. Go to the "License" tab, click the "+" button at the bottom right-hand corner.
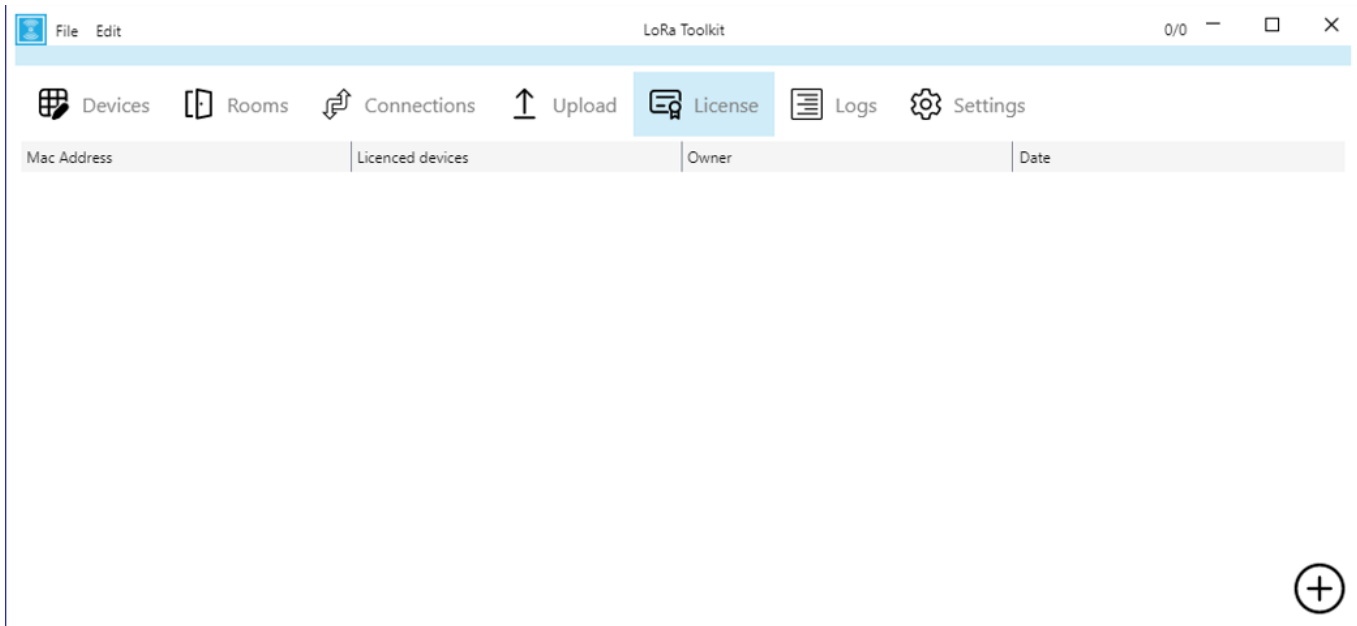
11. Select the license file you ordered from DEOS.
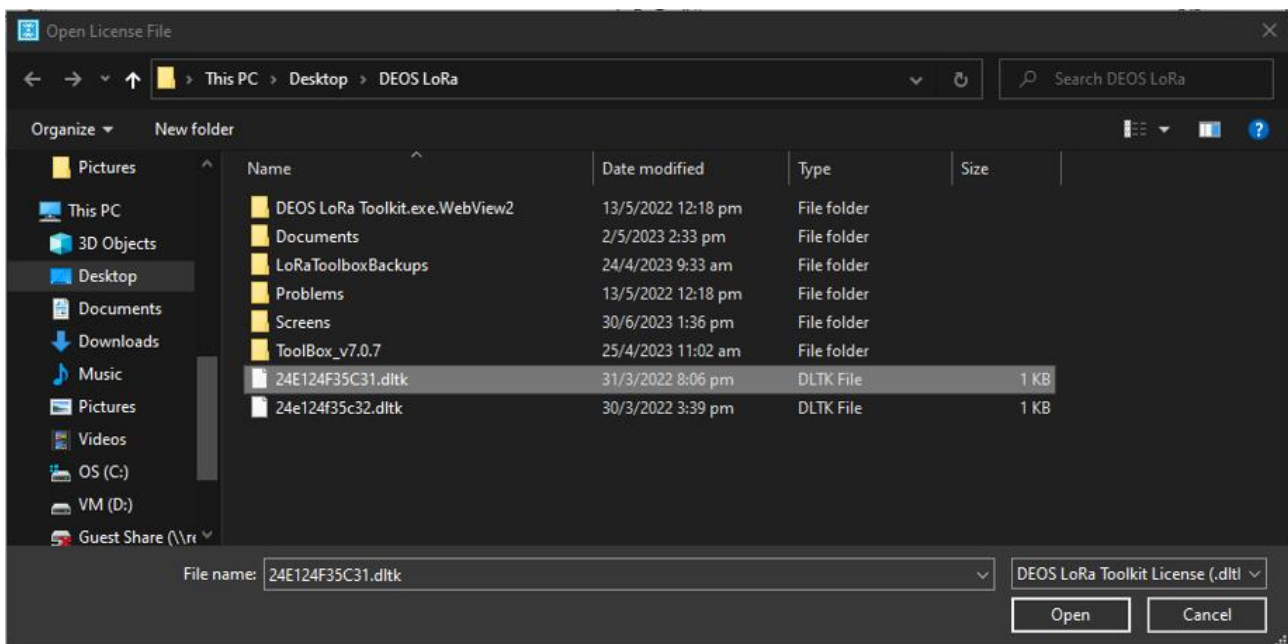
12. Now you should see the license details. Please note that the license is linked to the MAC address of the gateway. In this example, we connect to the gateway using LAN (Ethernet), so it is linked to the MAC address of the gateway Ethernet port (i.e. Gateway EUI).
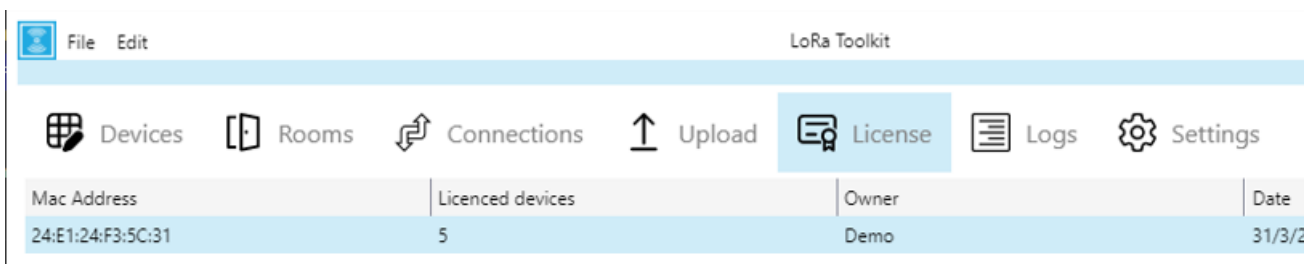
13. Please note that there are multiple MAC addresses in the gateway (e.g. wireless), so make sure you use the correct MAC address when purchasing the license.
14. Click "Upload" tab, enter the gateway IP address, username and password. Click the "Update app on gateway" button.

15. Click "Yes" to proceed the upload and wait until it's finished.

16. Click the "Devices" tab and click the "+" button.

17. Select the LoRaWAN device you want to add. In this example, we select the "Milesight AM307" device. Click the "Add" button to add to the gateway.
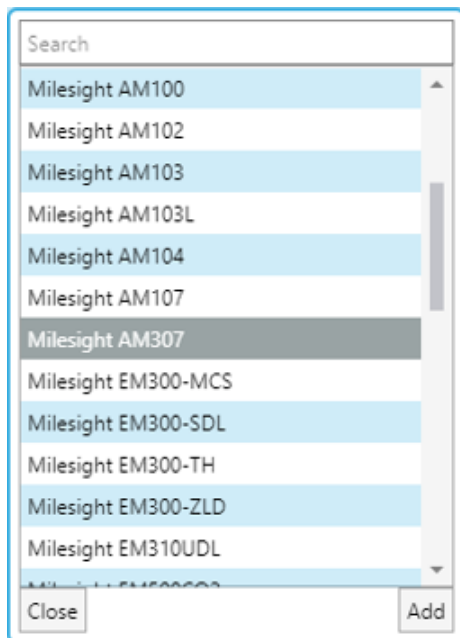
18. Type the "Name" and "Description" for the device.

19. The "Dev EUI" is a unique ID for each LoRaWAN device. For Milesight AM307, you can find it at the back of the device.
20. The "App Key' is similar to a password for the device. For Milesight AM307, the default "App Key" is "5572404C696E6B4C6F52613230313823".
21. You can change the "App Key" for each device for security reasons. For details, please refer to the LoRaWAN device manual.
22. You can set the "Timeout" to, for example, 1 second (i.e. 1000).
23. Go to the "Upload" tab, set "Remove unknown devices" and click the "Upload configuration" button.
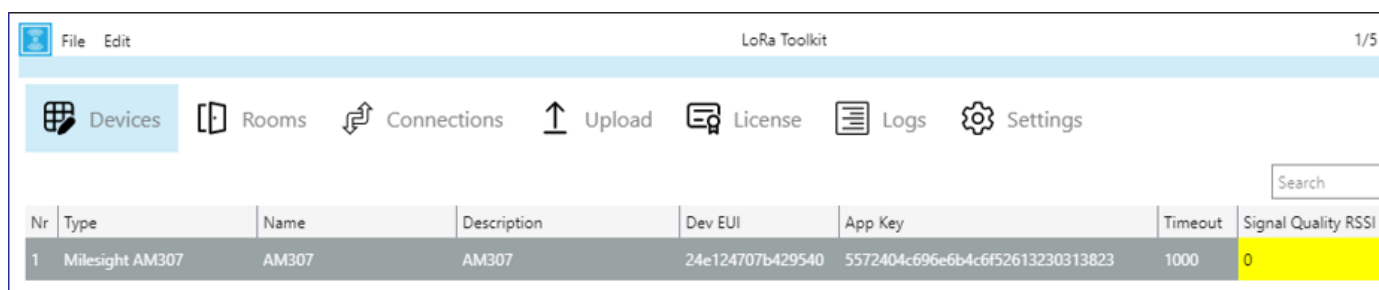
24. Wait until it's finished. Save the project.
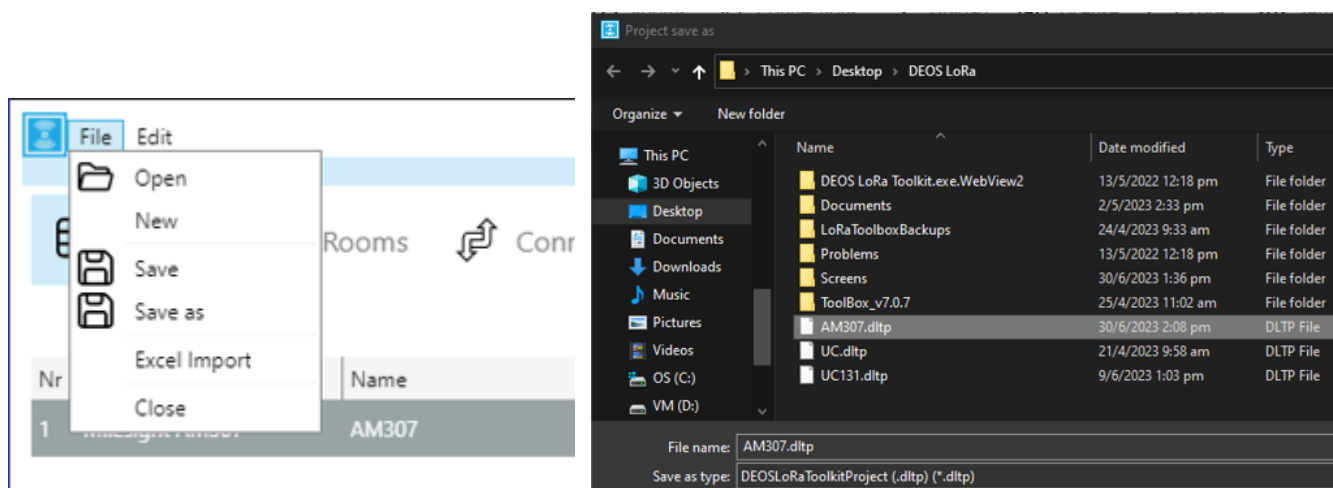
25. Now the setup of the LoRaWAN gateway and device are finished. If everything OK, then you should see the "Signal Quality RSSI" change to green color with a negative number. If you see like below as yellow color after a few minutes, then you can restart (power off and then on) the LoRaWAN device (not the gateway).

26. After device restart (and maybe a few minutes later), you should see like below and now it's done.