

Versinetic V4 LinkRay Load Balancing Controller User Guide

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Versinetic V4 LinkRay Load Balancing Controller



Product Information

Specifications

- Firmware Version: 1.3.11
- · Network Settings available
- Charger Configuration in multiple parts
- Supports RFID Tags (Optional)

Product Usage Instructions

1. Connecting the Device

Connect the power and ethernet cables according to the wiring diagram provided. Ensure proper Modbus connections.

2. LED Patterns

Solid green light indicates starting up, blinking green light indicates normal operation, and solid red light indicates a fault.

3. Device Startup

The device will take about 2 minutes to boot up. Once the LED is blinking green, it is operating normally.

4. Remote Access

Log onto the online remote access tool using the provided email and password. Select the device from the list to access the user interface.

5. User Interface

Use the default credentials to log into the LinkRay device's user interface. Customize settings as needed.

6. Charging Configuration

Set up charging options based on your requirements, such as enabling new charging while offline and controlling charging limits.

7. IP Configuration

Set a static IP address for the device and reserve it in the routers for stability. Ensure proper IP configuration for seamless operation.

8. Charger Connection

Get the IP address of the LinkRay device, format it correctly, and use it to connect your charger to the system

for charging sessions.

FAQ

• Q: Why is setting a static IP address important?

A: Setting a static IP address ensures that all chargers can reliably connect to the LinkRay device without any IP conflicts, providing stable operation.

• Q: How do I connect a charger to the LinkRay device?

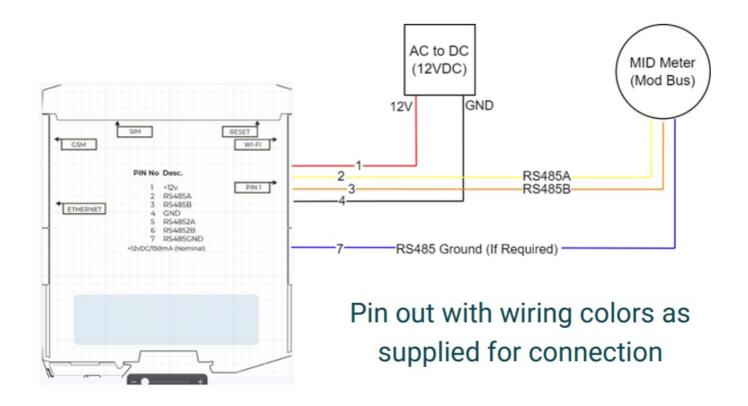
A: Download the Autel Charge -EV Charging app, connect to the charger via Bluetooth by scanning the provided QR codes for easy setup.

Physical Setup

Connect the power and ethernet cables



In the wiring diagram there is also Modbus connections to a mid-meter RS485A & RS485B, this is only applicable on relevant installs



Initial Startup

LED Patterns:

- solid green starting up
- Blinking green normal operation
- solid red Fault



The LinkRay device will follow this procedure given no faults occur:

- 1. It will take about 2 minutes to boot and start up LED will be ON (If the LED is still UNBLINKING after this, it is most likely updating to the most recent software version the time this takes varies as devices with older software versions need to update multiple times)
- 2. Then it will be operating normally LED will be FLASHING green

Remote Access

The LinkRay device should automatically start once provided power and connection to the internet, it can now be

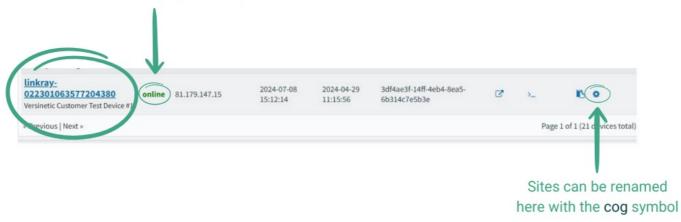
Versinetic	emote Access	
	Username: somebody@somewhere.com	
	Password:	
n	Sign in Forgot password?	
	Log onto our online remote access tool:	
	https://www.remote.versinetic.com with your supplied email and password	
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Log onto our online remote access tool: https://www.remote.versinetic.com with your supplied email and password

Log In I LinkRay User Interface

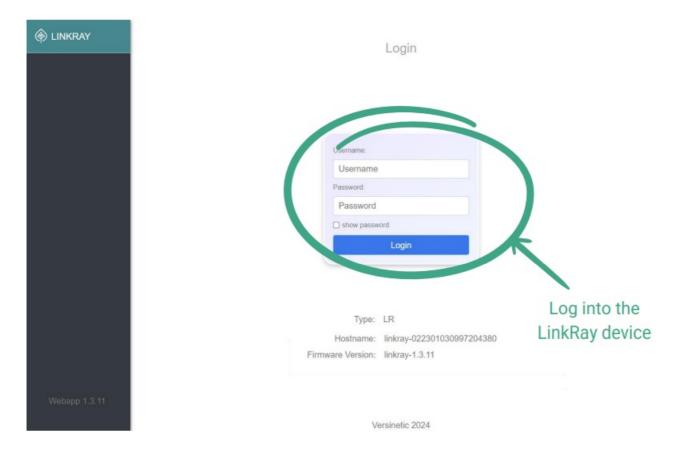
Select the LinkRay name to connect. This will take you through to the LinkRay User Interface





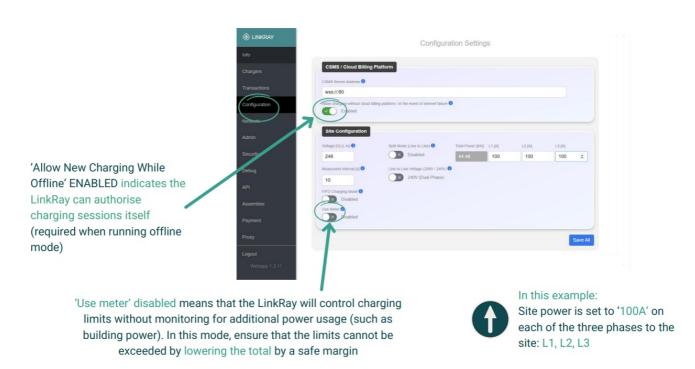
LINKRAY USER INTERFACE

Default User: Assembler Default Password: 2WW%[4%9nU`HWhGe



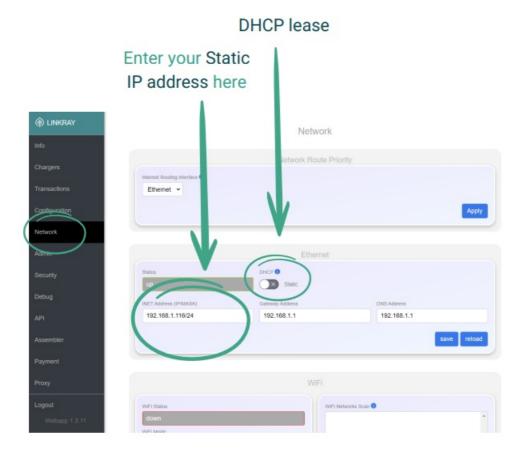
Configure the Site Power Limits

No CSMS URL (or default: ws://:80) means LinkRay is running without payment backend



Network Settings

Set a Static IP address & ideally also reserve the LinkRay IP in the routers DHCP lease (If you leave this option as dynamic, an IP address is automatically assigned)

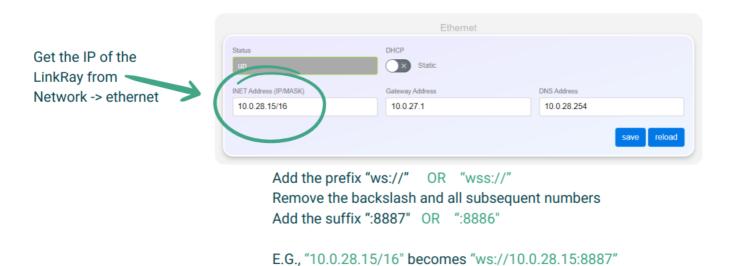


NB: after swapping between DHCP & Static, the LinkRay will need to be rebooted

Why is this important?

All chargers need to be configured to point to the LinkRay. The IP address must stay at a fixed IP for LinkRay to function

Charger Configuration [Part 1]



You will need to copy this or write it down to enter it into a charger later, it will be referred to as CSMS URL or Server URL or

It should be in the format of: ws://aaa.bbb.ccc.ddd:8887 OR wss://aaa.bbb.ccc.ddd:8886 (where each section of numbers can be 1, 2, or 3 long)

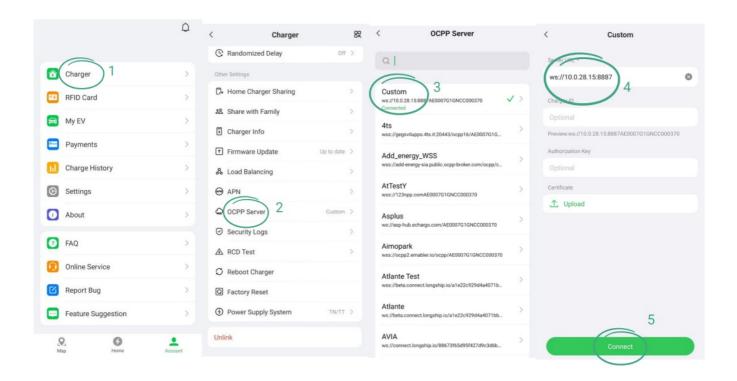
- ws indicates a web socket (like http) more likely to work (better for initial setup)
- wss indicates secure web sockets (like https) more secure (more advanced)

The Subsequent 3 pages all cover the same thing: connecting a charger to the LinkRay device. They are from 3 different chargers and are only examples, your charger may differ in the steps themselves, but the principle is the same

Charger Configuration [Part 2 – Example 1: AUTEL]

Download the "Autel Charge -EV Charging" and connect to the charger via Bluetooth (done easily by scanning the QR code on the charger and then the QR code with the manual)

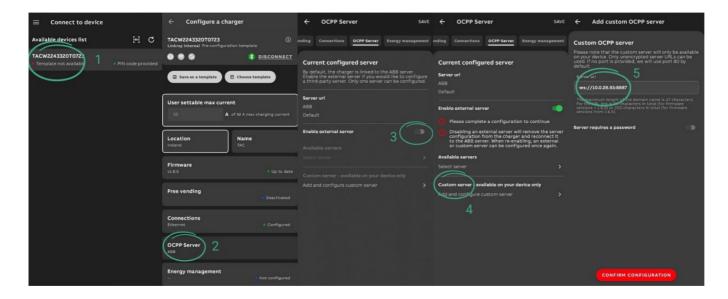
- 1. Select "Charger"
- 2. Scroll down and select "OCPP Server"
- 3. Select Custom
- 4. Type in the Server URL
- 5. Connect



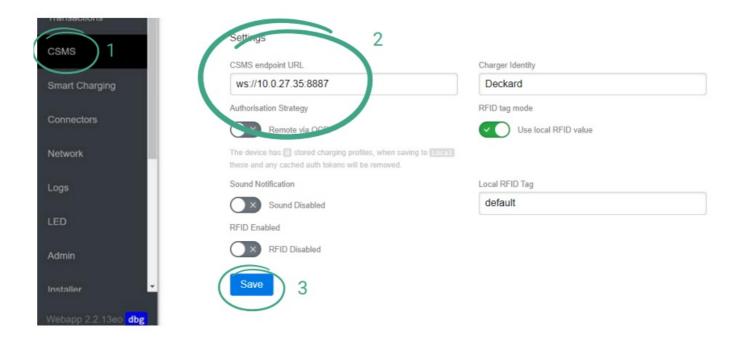
harger Configuration [Part – Example 2: ABB

Using the ABB TerraConfig App log onto the charger using Bluetooth. You maybe required to enter the user PIN at this point.

- 1. Log onto the charger using Bluetooth
- 2. The default server will be ABB, click to update it
- 3. Enable the external server slider
- 4. Select "Add and configure custom server"
- 5. Enter IP address of LinkRay device



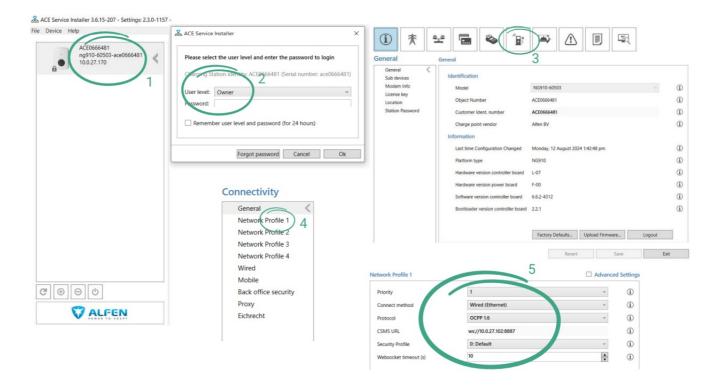
Charger Configuration [Part 2 - Example 3: EOI



Charger Configuration [Part – Example 4: ALFEN

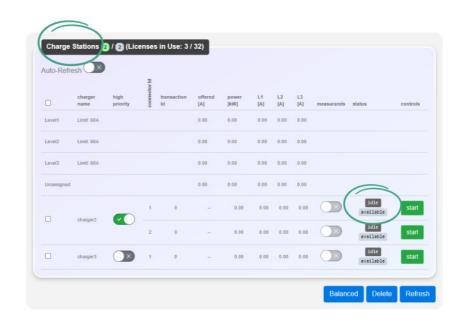
The MyEve mobile app is NOT a valid way to set up an ALFEN charger as it does not allow for custom CSMS URL's, instead you MUST install the ACE Service installer, and contact ALFEN support for details to log in. Once logged in then you can add chargers with the code found with the charger.

- 1. add the charger and select it
- 2. log in using the credentials given
- 3. Select the EV charging symbol
- 4. select "Network Profile 1"
- 5. Copy the drop downs as seen, but enter your own CSMS URL



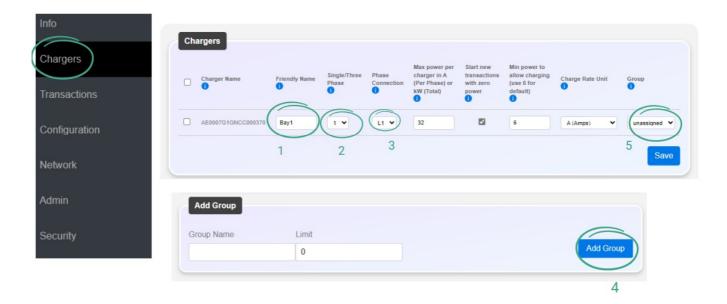
Charger Configuration [Part 3]





Charger Configuration [part 4]

- 1. Select the 'Charger' tab and enter a 'Friendly Name' to aid identifying devices
- 2. Select if the charger is 'Single Phase' or 'Three Phase'
- 3. Select the physical phase connections, i.e. L1-L1/L2-L2/L3-L3
- 4. Optional: Chargers can be grouped with limits, per group (if required)
- 5. Click on SAVE



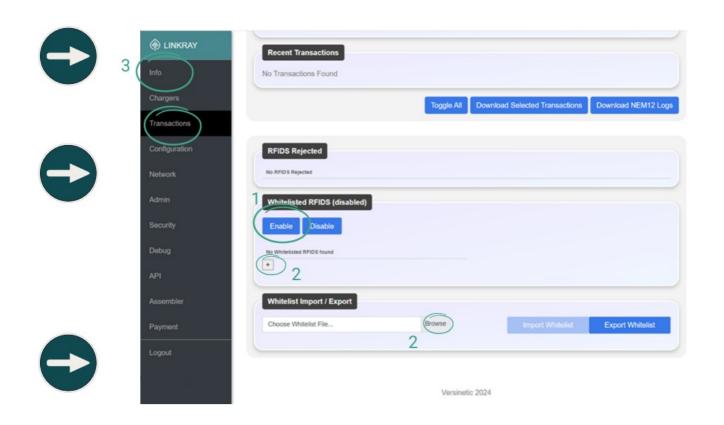
Enable & Add Any RFID Tags (Optional) + TEST

1. Enable:

If required turn on a whitelist for RFID authorisation

- 2. Add tags by:
 - presenting them to a configured charger (manually tap the RFID card onto the charger). Then selecting it from the "RFIDS rejected" using the tick box
 - · OR uploading a CSV file
 - OR manually using the [+] button
- 3. Test:

Navigate to the 'Info' tab, the system is ready to be tested



- Full user manuals are available at: https://docs.versinetic.com
- Discover more about LinkRay: https://www.versinetic.com/hardware/linkray-charge-station-load-balancing-controller/

Documents / Resources



Versinetic V4 LinkRay Load Balancing Controller [pdf] User Guide

V4 LinkRay Load Balancing Controller, V4, LinkRay Load Balancing Controller, Load Balancing Controller, Balancing Controller, Controller

References

- m Remote Access
- User Manual

Manuals+, Privacy Policy

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