



IT INTEGRATION

FIRMENLADEN

INTEGRATION OF CHARGING STATIONS INTO THE FIRMENLADEN NETWORK

Dear Sir or Madam,

If it is necessary in your case to integrate your charging systems via Ethernet instead of mobile communication or similar, this document summarizes our extended last management requirements for you as the customer or as your responsible IT department.

The charging stations usually communicate with the billing backend via HTTP or WebSocket connection. This connection is required in order to transmit the billed charging processes data to the backend for processing and to monitor and control the corresponding users. In addition, we require a connection for our support team in order to update the backend accordingly and access the charging stations. The charging process can be started via a NFC RFID, for example by FTP server remotely updates can be performed and changes to the charging station settings can be made remotely.

For this purpose, certain network ports must be opened externally and internally so that we can access them. You will also find the direct IP addresses or domains of both endpoints in the table, so that you can specify the releases for these addresses. A NTP server is useful, if possible. For static IP addresses, DNS servers 8.8.4.4 and 8.8.8.8 are required as default. The connection is always initiated by the wallbox, and no incoming connections from the Internet are required. The connection is made to our charging management backend / load management server. Authentication via IEEE 802.1X is not required for KEBA charging hardware and may optionally be answered with deny.

In order to transfer performance specifications from a load management system to the charging points, a connection to the corresponding charging points must be created externally. In this case, communication between the two devices is implemented via Modbus TCP/IP. An example of such a setup is shown in Figure 2 below.

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Protokoll	Port
http & ws	80 TCP
https & wss	443 TCP
ftp	20 & 21 TCP
Modbus TCP/IP	502 TCP
Für	Adresse
For load management	89.26.112.70
Billing backend	217.119.3.166 / firmenladen.evc-net.com
DNS, if static IP specified	8.8.4.4 und 8.8.8.8
FTP server for updates/service	217.119.3.104 / ftp.evc-net.com