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# VERTICA PRO - Touchscreen Customization

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This document outlines the customization options available for the LCD touchscreen display of the VERTICA PRO charging station. It details the OCPP keys that allow operators to modify key display elements, including **tariffs, advertisements, and contact information**.

#### Key Customization Options:

- Tariff Configuration Set pricing per kWh, per minute, or a fixed session fee.
- **Branding & Contact Details** Customize the layout color, operator name, website, support details, and replace the Enelion logo with your own.
- Ad Management Enable automatic ads or manually display specific ones.
- Language Selection Choose up to 12 installed languages.
- **Custom Messages** Display important information directly on the charger screen.

Important: Some settings cannot be changed remotely via OCPP. These include language installation (other than the default ones), advertisement images, and branding elements (such as the company logo and layout color). These must be configured during the production process.

# Custom OCPP Keys List:

(Supported from Firmware Version 4.4.4)

OCPP Key	Data Type	Example Value	Description
EnelionSetDisplayStationNumber{CAN_ID}	Max. 3 characters	11	Sets the station number in the CAN network.
EnelionSetDisplayTariffEnabled	Boolean (true/false)	true	Enables or disables the tariff functionality.
EnelionSetDisplayTariffPerKWh	Float (XXXX.XX format, max 6 digits)	1.01	Sets the tariff per kWh. Enabling this disables the per-minute tariff.
EnelionSetDisplayTariffPerMinute	Float (XXXX.XX format, max 6 digits)	1.12	Sets the tariff per minute. Enabling this disables the per-kWh tariff.
EnelionSetDisplayQrCodeEnabled	Boolean (true/false)	true	Enables or disables the QR code for payment.
EnelionSetDisplayPage{CAN_ID}	Integer (0–69)	5	Selects the display page (In order to use it first disable auto adverts). <b>See the list of page</b> <b>codes below the table.</b>
EnelionSetDisplayOperator	Max. 20 characters	Enelion Operator	Displays the operator's name on the screen (Contact Page).
EnelionSetDisplayEmail	Max. 20 characters	support@enelion.com	Displays the contact email on the screen (Contact Page).
EnelionSetDisplayPhone	Max. 20 characters	+123456789	Displays the contact phone number on the screen (Contact Page).
EnelionSetDisplayWebPage	Max. 20 characters	www.enelion.com	Displays the operator's website link on the screen (Contact Page).
EnelionSetDisplayUpInfolineTime	Max. 20 characters	Mo-Fri: 08:00-18:00	Displays upper infoline time on the screen (Contact Page).
EnelionSetDisplayDownInfolineTime	Max. 20 characters	Sat-Sun: 10:00-16:00	Displays lower infoline time on the screen (Contact Page).
EnelionSetDisplayFreeParkingTime	Integer (max 5 digits)	15	Defines the duration (in minutes) for free parking at the charging station.
EnelionSetDisplayFixedFee	Float (XXXX.XX format, max 6 digits)	1.06	Sets a fixed fee per charging session, regardless of time or energy consumption.

EnelionSetDisplayFeeForParking	Float (XXXX.XX format, max 6 digits)	1.06	Sets a parking fee for vehicles exceeding the free parking time.
EnelionSetDisplayCurrency	Max. 3 characters	EUR	Sets the display currency (e.g., PLN, USD).
EnelionQrCodeURL{CAN_ID}	Max. 243 characters	https://QR_payment.com	Sets the QR code URL for payment.
EnelionSetDisplayAutoAdverts	Boolean (true/false)	true	Enables or disables default adverts. When enabled, a different ad is displayed every five seconds.
EnelionSetDisplayCommunique{CAN_ID}	Max. 100 characters	Hello Enelion!	Displays an information message on the charger screen. Auto-adverts must be off!
EnelionSetDisplayFooter	Max. 25 characters	www.enelion.com	Displays a footer message on the screen.

## Page Codes for EnelionSetDisplayPage{CAN\_ID}

Use one of the following values to select a specific page:

- 0 START\_PAGE
- 1 SCREENSAVER\_PAGE
- 2 EV\_UNCONNECTED\_TARIFF\_PAGE
- 3 EV\_UNCONNECTED\_NO\_TARIFF\_PAGE
- 4 TARIFF\_PAGE
- 5 LAST\_CHARGE\_INFO\_PAGE
- 6 CONTACT\_PAGE
- 7 STATION\_DIAGNOSTIC\_PAGE
- 8 STATION\_INFO\_PAGE
- 9 PREPARING\_PAYMENT\_PAGE
- 10 PREPARING\_AUTH\_PAGE
- 11 QR\_CODE\_PAGE
- 12 CHARGING\_NO\_TARIFF\_PAGE
- 13 CHARGING\_TARIFF\_PAGE
- 14 CHARGING\_INFO\_PAGE
- 15 SUSPENDED\_EV\_TARIFF\_PAGE
- 16 SUSPENDED\_EVSE\_POWER\_BLOCK\_PAGE
- 17 SUSPENDED\_EVSE\_TIME\_BLOCK\_PAGE
- 18 FINISHING\_TARIFF\_PAGE
- 19 RESERVED\_PAGE
- 20 CRITICAL\_ERROR\_PAGE
- 21 WARNING\_PAGE
- 22 NO\_CRITICAL\_ERROR\_PAGE

- 23 UNAVAILABLE\_PAGE
- 24 LANGUAGE\_MENU\_PAGE
- 25 INFO1\_PAGE
- 26 INFO2\_PAGE
- 27 CARD\_ACCEPTED\_PAGE
- 28 CARD\_UNKNOWN\_PAGE
- 29 SERVER\_WAIT\_PAGE
- 30 LANG\_MENU\_2\_PAGE
- 31 LANG\_MENU\_3\_PAGE
- 32 STATION\_DIAGNOSTIC2\_PAGE
- 33 PP\_SHORT\_PAGE
- 34 WARNING\_2\_PAGE
- 35 WARNING\_3\_PAGE
- 36 MAINS\_L1\_MISSING\_PAGE
- 37 MAINS\_OVERVOLTAGE\_PAGE
- 38 MAINS\_UNDERVOLTAGE\_PAGE
- 39 WARNING\_7\_PAGE
- 40 MAINS\_PHASE\_SEQUENCE\_PAGE
- 41 INVALID\_STATE\_PAGE
- 42 PP\_DISCONNECTED\_PAGE
- 43 PP\_NOT\_CONNECTED\_PAGE
- 44 DIODE\_FAULT\_PAGE
- 45 CP\_SHORT\_PAGE
- 46 LOCK\_LOCKING\_ERROR\_PAGE
- 47 UNUSED\_1\_PAGE
- 48 RCDA\_TRIP\_PAGE
- 49 RCDB\_TRIP\_PAGE
- 50 UNUSED\_2\_PAGE
- 51 RCMB\_FAULT\_PAGE
- 52 MAINS\_O\_PEN\_FAULT\_PAGE
- 53 DEVICE\_BUS\_FAULT\_PAGE
- 54 PREPARING\_AUTH\_ANYRFID\_PAGE
- 55 LAST\_CHARGE\_INFO\_NO\_TARIFF\_PAGE
- 56 SUSPENDED\_EV\_NO\_TARIFF\_PAGE
- 57 FINISHING\_NO\_TARIFF\_PAGE
- 58 INIT\_WARNING\_PAGE
- 59 CONFIG\_CHANGE\_PAGE
- 60-69 ADVO\_PAGE to ADV9\_PAGE (advert pages)

# **Display Customization:**

#### Branding:







#### Languages menu:

The touchscreen allows users to choose from **up to 12 preinstalled languages**. These languages must be selected and configured during the production of the charging station.

Once the selected languages are installed, the user can switch the interface language directly from the touchscreen. It is not possible to add new languages remotely via OCPP. Before ordering a charging station, it is essential to ensure that the default language list is sufficient or specify if additional languages are required.

The default list of languages is shown below:



### **Operator Contact Page:**



#### **Station Details Page:**



#### **One-Time Payment Page:**



#### **Tariff Settings:**





#### **Custom Message Display:**



#### Advertisement:

Automatic advertisement display can be enabled using the OCPP key **EnelionSetDisplayAutoAdverts**. When enabled, advertisements are randomly selected from a pool of up to 10 **pre-configured ads** and appear on the **screensaver** and when a **charging session starts**.

Advertisements can also be displayed **manually** using the OCPP key **EnelionSetDisplayPage{CAN\_ID}**. To manually select a specific ad, send an integer between 60 and 69. Automatic advertisements must be disabled before using this option.

The advertisement image size is 272×480 pixels. Images must be pre-configured on the charging station during production, as OCPP does not support remote uploading or modification of advertisement images.

Example ads:

