

# Integratie van AC SMART in een Backend Systeem

- **Beschrijving van AC SMART:** Een overzicht van de functionaliteiten en voordelen van AC SMART.
- **Belang van backend integratie:** Waarom integratie met een backend systeem cruciaal is voor de werking van AC SMART.
- **Stappen in de integratieprocedure:** Een kort overzicht van de stappen die in deze presentatie behandeld zullen worden.



- **Inleiding**

Overzicht van de presentatie: Beschrijving van AC SMART, belang van backend integratie, en stappen in de integratieprocedure.

- **Vorbereiding**

Installatie van AC SMART: Volg de handleiding in de Weidmüller online catalogus onder Downloads.

- **Toegang tot Webserver**

Open de webserver van AC SMART: Ga naar hoofdstuk 9.3 van de gebruiksaanwijzing om toegang te krijgen.

# Netwerk en Cloud Instellingen

- **Instellen van netwerkverbindingen:** Ga naar het menu Netwerk onder Cloud en pas de benodigde instellingen aan om een verbinding te maken met een backend.

The screenshot displays the Weidmüller AC SMART ADVANCED web interface. The top left corner features the Weidmüller logo, and the top right corner displays 'AC SMART ADVANCED'. A left-hand navigation menu includes options such as Status, Charging monitoring, Authorisation, RFID/PLC-MAC, Config, Network, General, Local, WiFi, Cellular, and Cloud (which is highlighted in orange). The main content area is titled 'Cloud settings' and contains a 'Server settings' section. This section includes several configuration items: 'Enable OCPP' (a toggle switch that is currently turned off), 'Interface' (a dropdown menu set to 'Wifi'), 'Portal password' (an empty text input field), 'Portal address' (an empty text input field), 'Portal port' (an empty text input field), 'Portal path' (an empty text input field), 'Encryption' (a toggle switch that is currently turned off), 'Verify server certificate' (a toggle switch that is currently turned off), 'NTP server' (a text input field containing 'de.pool.ntp.org'), and 'Verify FTPS server certificate' (a toggle switch that is currently turned off).

# OCPA Activeren

- **Activeer OCPP:** Selecteer de interface waarmee de AC SMART verbinding maakt met het internet (Wifi, Ethernet, 4G LTE Modem).

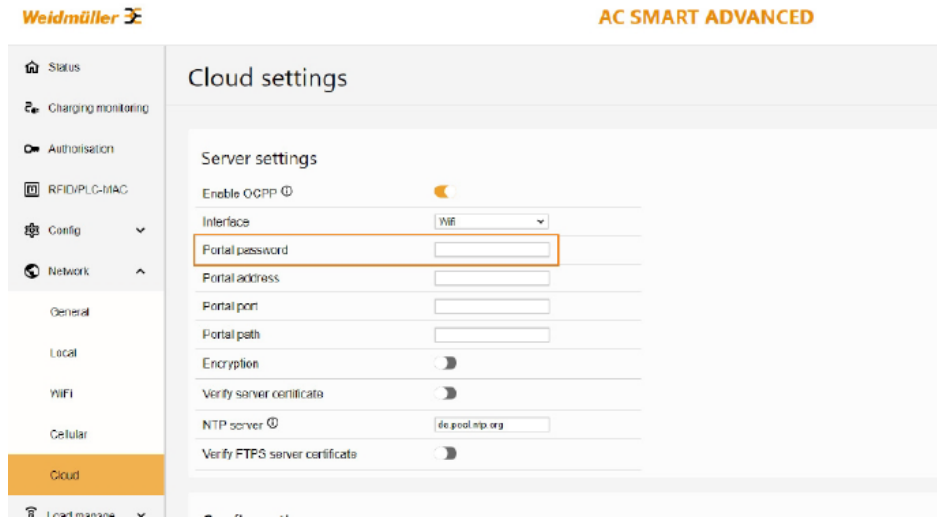
The image displays two screenshots of the Weidmüller AC SMART ADVANCED web interface, illustrating the steps to enable OCPP. Both screenshots show the 'Cloud settings' page with the 'Server settings' section expanded.

**Left Screenshot:** The 'Enable OCPP' toggle is currently turned off (indicated by a grey moon icon). The 'Interface' dropdown menu is set to 'Wifi'. Other settings include Portal password, Portal address, Portal port, Portal path, Encryption (off), Verify server certificate (off), NTP server (de.pool.nip.org), and Verify FTPS server certificate (off).

**Right Screenshot:** The 'Enable OCPP' toggle is now turned on (indicated by an orange sun icon). The 'Interface' dropdown menu remains set to 'Wifi'. All other settings are identical to the left screenshot.

# Authenticatie met Backend Provider

- **Wachtwoord invoeren (optioneel):** Voer het wachtwoord in dat je van je backend provider hebt ontvangen. Dit is niet voor alle systemen vereist.



The screenshot shows the 'Cloud settings' page in the Weidmüller AC SMART ADVANCED web interface. The left sidebar contains navigation options: Status, Charging monitoring, Authorisation, RFID/PLC-MAC, Config, Network, General, Local, WiFi, Cellular, and Cloud (which is currently selected). The main content area is titled 'Cloud settings' and contains a 'Server settings' section. This section includes several configuration options: 'Enable OCPP' (toggle), 'Interface' (dropdown menu set to 'WiFi'), 'Portal password' (text input field, highlighted with an orange border), 'Portal address' (text input field), 'Portal port' (text input field), 'Portal path' (text input field), 'Encryption' (toggle), 'Verify server certificate' (toggle), 'NTP server' (text input field set to '66.pool.ntp.org'), and 'Verify FTPS server certificate' (toggle).

# Toegang tot Backend Systeem

- **Voer toegangsgegevens in:** Voer de toegangsgegevens in die je van je backend provider hebt ontvangen en sla je instellingen op.
- **Certificaat uploaden:** Als de optie 'Verfiy Server Certificate' is geselecteerd, upload het corresponderende message certificaat.

The screenshot shows the 'Configuration' section of the AC SMART ADVANCED interface. The left sidebar has 'Network' expanded, with 'Cloud' selected. The main area displays various OCPP settings with input fields and dropdown menus. At the bottom, there is an 'Upload certificate' section with three slots, each containing a file selection button and an 'Upload' button. The 'Upload' buttons are highlighted with an orange box.

Parameter	Value
Ping interval [s]	240
Connection timeout [s]	150
Heartbeat interval [s]	3000
Meter/Value sample interval [s]	1500
Connector maximum current [A]	15
Transaction message attempts	5
Transaction message retry interval [s]	60
OCPP vendor	Wieland
OCPP model	ACSMARTADVANCED

Upload certificate

Slot	File	Status	Action
Slot 1	[File selection]	Keine ausgewählt	Upload
Slot 2	[File selection]	Keine ausgewählt	Upload
Slot 3	[File selection]	Keine ausgewählt	Upload

The screenshot shows the 'Cloud settings' section of the AC SMART ADVANCED interface. The left sidebar has 'Network' expanded, with 'Cloud' selected. The main area displays 'Server settings' with various options and input fields. The 'Portal address', 'Portal port', and 'Portal path' fields are highlighted with an orange box.

Cloud settings

Server settings

Setting	Value
Enable OCPP	<input type="checkbox"/>
Interface	WiFi
Portal password	[Input field]
Portal address	[Input field]
Portal port	[Input field]
Portal path	[Input field]
Encryption	<input type="checkbox"/>
Verify server certificate	<input type="checkbox"/>
NTP server	de.pool.ntp.org
Verify FTPS server certificate	<input type="checkbox"/>

# Instellingen Opslaan en AC SMART Herstarten

- **Instellingen opslaan:** Nadat je alle toegangsgegevens hebt ingevoerd, sla de instellingen op door op 'Opslaan' te klikken.
- **Herstart AC SMART:** Herstart je AC SMART via 'Restart' om de verbinding met het backend systeem te vestigen.

The screenshot displays the configuration interface for AC SMART. On the left is a navigation menu with the following items: Authorization, RFID/PLC-MAC, Config (selected), Network, General, Local, WiFi, Ockler, Cloud, Load manage, Powerline, Report, and Logout. The main content area is titled 'Configuration' and contains the following settings:

Ping interval [s]	240
Connection timeout [s]	100
Heartbeat interval [s]	3600
MeterValue sample interval [s]	1800
Connector maximum current [A]	16
Transaction message attempts	5
Transaction message retry interval [s]	60
OCPP vendor	Wielimaster
OCPP model	ACSMARTADVANCED

Below the configuration settings is the 'Upload certificate' section, which includes three slots:

Slot 1	Delete auswählen	Keine ausgewählt	Upload
Slot 2	Delete auswählen	Keine ausgewählt	Upload
Slot 3	Delete auswählen	Keine ausgewählt	Upload

At the bottom of the interface, there are three buttons: Save, Refresh, and Restart. The Save and Restart buttons are highlighted with a red box.

# Foutopsporing en Ondersteuning

- **Fouten oplossen:** Controleer de LED-indicatoren (groen = succesvol, rood = fout).  
De corresponderende foutmelding wordt weergegeven in de webserver van je AC SMART.
- **Neem contact op met Weidmüller:** Als je de foutstatus niet kunt oplossen, neem dan contact op met Weidmüller voor ondersteuning.