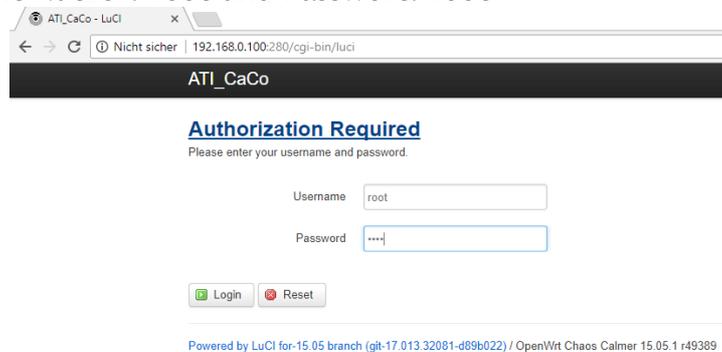
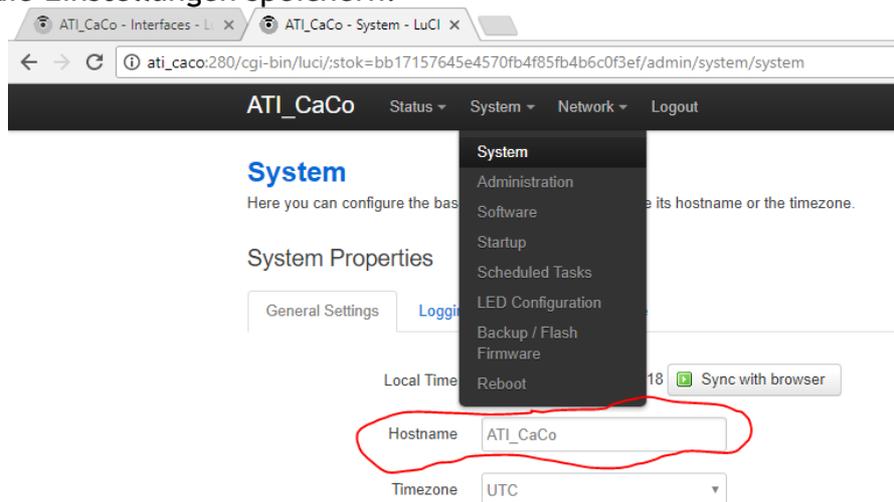


HowTo - Hybrid in bestehendes WIFI Netzwerk einbinden

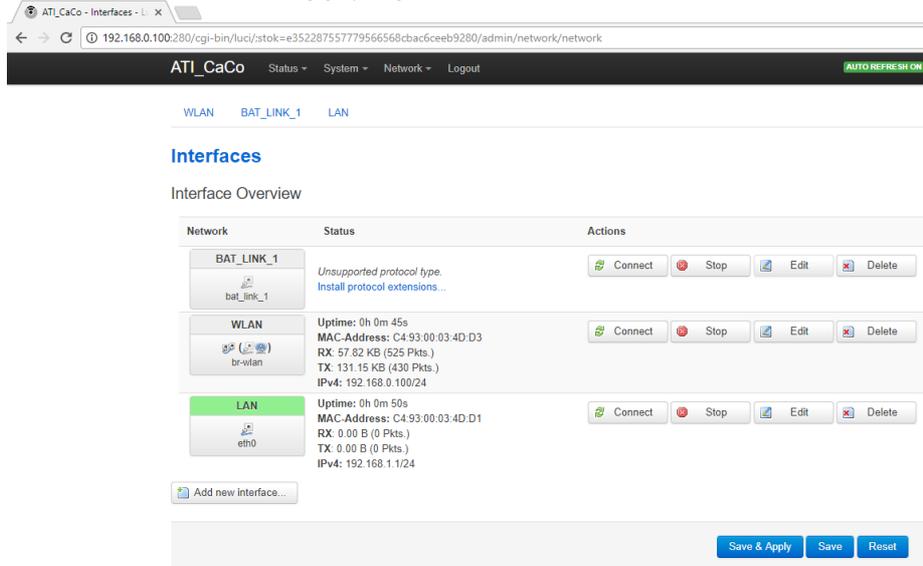
1. Mit WIFI der Lampe verbinden und `http://192.168.0.100:280` im Browser öffnen
2. Oder mittels LAN Kabel mit der Lampe verbinden und `http://192.168.1.1:280` im Browser öffnen
3. Anmelden mit Nutzer: root und Passwort: root



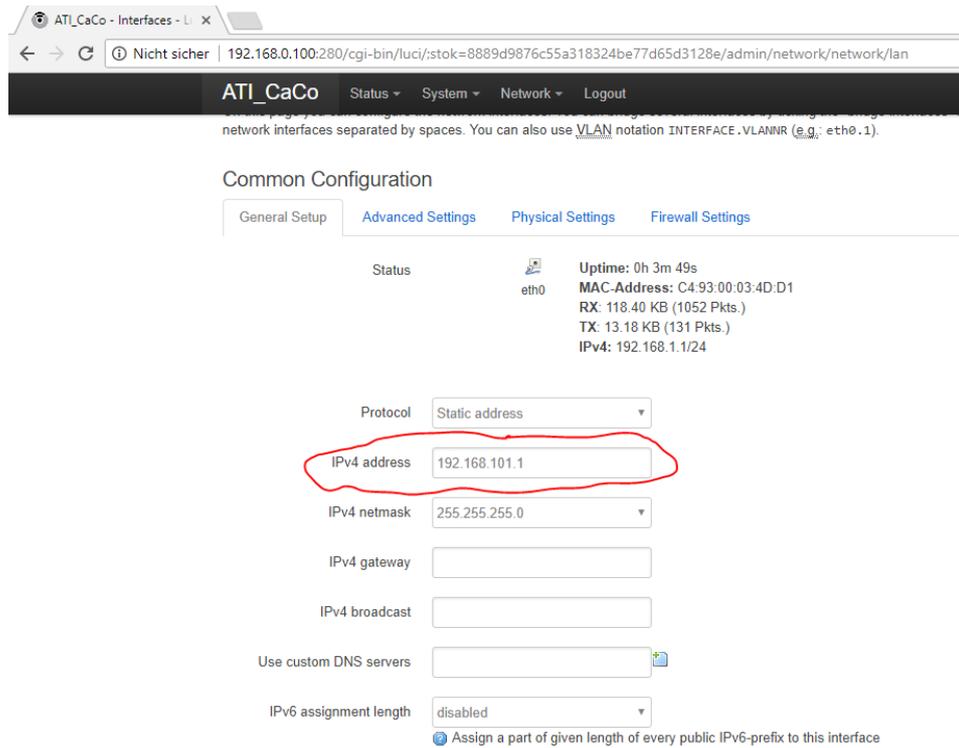
4. Zu System → System navigieren und einen eindeutigen Netzwerkname vergeben. (Zum Beispiel `ATI_CaCo1`, `ATI_CaCo2`, ...) Mittels 'Save & Apply' am Ende der Seite die Einstellungen speichern.



5. Zu Network → Interfaces navigieren und BAT_LINK_1 mittels 'Delete' löschen und anschließend mit 'Save & Apply' speichern.



6. Danach den Eintrag unter 'LAN' editieren mittels 'Edit' und die IP Adresse ändern von 192.168.1.1 zu 192.168.101.1



- 7.

8. In den Tab 'Physical Settings' wechseln und die Optionen 'Bridge interfaces', 'Ethernet Adapter „eth0“, Wireless Network aktivieren'

The screenshot shows a web browser window with the URL `192.168.0.100:280/cgi-bin/luci/stok=0713779201bbd854dc5455d39dd80ba8/admin/network/network/lan`. The page title is "Interfaces - LAN". Below the title, there is a description: "On this page you can configure the network interfaces. You can bridge several interfaces by ticking the 'bridge interfaces' field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: `eth0.1`)." Under the heading "Common Configuration", there are four tabs: "General Setup", "Advanced Settings", "Physical Settings" (which is selected), and "Firewall Settings". In the "Physical Settings" tab, the following options are visible: "Bridge interfaces" with a checked checkbox and a tooltip that says "creates a bridge over specified interface(s)"; "Enable STP" with an unchecked checkbox and a tooltip that says "Enables the Spanning Tree Protocol on this bridge"; and a list of interfaces: "Ethernet Adapter: 'bat0' (wlan)" with an unchecked checkbox; "Ethernet Adapter: 'eth0' (lan)" with a checked checkbox; "Ethernet Adapter: 'eth1'" with an unchecked checkbox; "Wireless Network: Master 'ATI-Fixture' (lan, wlan)" with a checked checkbox; and "Custom Interface:" with an empty text input field. Red circles are drawn around the checkboxes for "Bridge interfaces", "Ethernet Adapter: 'eth0' (lan)", and "Wireless Network: Master 'ATI-Fixture' (lan, wlan)".

9. Anschließend mit 'Save & Apply' die Änderung speichern

10. Falls die Lampe mittels LAN Kabel mit dem Rechner verbunden ist, muss jetzt im Browser zu `http://192.168.101.1` navigiert werden

11. Zu Network → WIFI navigieren und Button Scan klicken

The screenshot shows the 'Wireless Overview' page in the OpenWrt LuCI interface. The page title is 'ATI_CaCo' and the breadcrumb is 'Network > Wireless'. The main content area shows the 'radio0: Master "ATI-Fixture"' configuration. A 'Scan' button is circled in red. Below the main configuration, there is an 'Associated Stations' table with the following data:

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
ATI-Fixture	4C:80:93:7C:88:3C	192.168.0.230	-65 dBm	-95 dBm	72.2 Mbit/s, MCS 7, 20MHz	65.0 Mbit/s, MCS 7, 20MHz

At the bottom of the page, it says 'Powered by LuCI for-15.05 branch (git-17.013.32081-d89b022) / OpenWrt Chaos Calmer 15.05.1 r49389'.

12. Dem gewünschten WLAN mittels dem Button 'Join Network' beitreten

The screenshot shows the 'Join Network: Wireless Scan' page in the OpenWrt LuCI interface. The page title is 'ATI_CaCo' and the breadcrumb is 'Network > Wireless'. The main content area shows a scan result for 'gallifrey' with the following details: Channel: 11 | Mode: Master | BSSID: AC:9E:17:BD:4C:24 | Encryption: WPA2 - PSK. A 'Join Network' button is circled in red. Below the scan result, there are two buttons: 'Back to overview' and 'Repeat scan'. At the bottom of the page, it says 'Powered by LuCI for-15.05 branch (git-17.013.32081-d89b022) / OpenWrt Chaos Calmer 15.05.1 r49389'.

13. 'Replace wireless configuration' deaktivieren, WIFI Passwort eingeben, unter 'Create / Assign firewall-zone' letzte Option wählen und mit 'Submit' bestätigen

The screenshot shows the 'Join Network: Settings' page in the OpenWrt LuCI interface. The page title is 'ATI_CaCo123' and the breadcrumb is 'Network > Wireless'. The main content area shows the 'Join Network: Settings' form. The 'Replace wireless configuration' checkbox is unchecked. The 'WPA passphrase' field is filled with a password. The 'Name of the new network' field is filled with 'wwan'. Under 'Create / Assign firewall-zone', the 'unspecified -or- create' option is selected. At the bottom of the page, there are two buttons: 'Submit' and 'Back to scan results'. The 'Submit' button is circled in red. At the bottom of the page, it says 'Powered by LuCI for-15.05 branch (git-17.013.32081-d89b022) / OpenWrt Chaos Calmer 15.05.1 r49389'.

14. Auf der folgenden Seite bis nach unten scrollen, optionen 'lan' und 'wwan' aktivieren und die Einstellungen mittels 'Save & Apply' speichern

ATI_CaCo123 - Wifi - LuCI

192.168.0.100:280/cgi-bin/luci/stok=ca5c6fe77f995644d14ff4da5d986cb6/admin/network/wireless/radio0.network2

ATI_CaCo123 Status System Network Logout UN SAVED CHANGES: 12 AUTO REFRESH ON

General Setup Wireless Security

ESSID: gallifrey

Mode: Client

BSSID: AC:9E:17:BD:4C:24

Network lan: wlan: wwan: create:

Choose the network(s) you want to attach to this wireless interface or fill out the *create* field to define a new network.

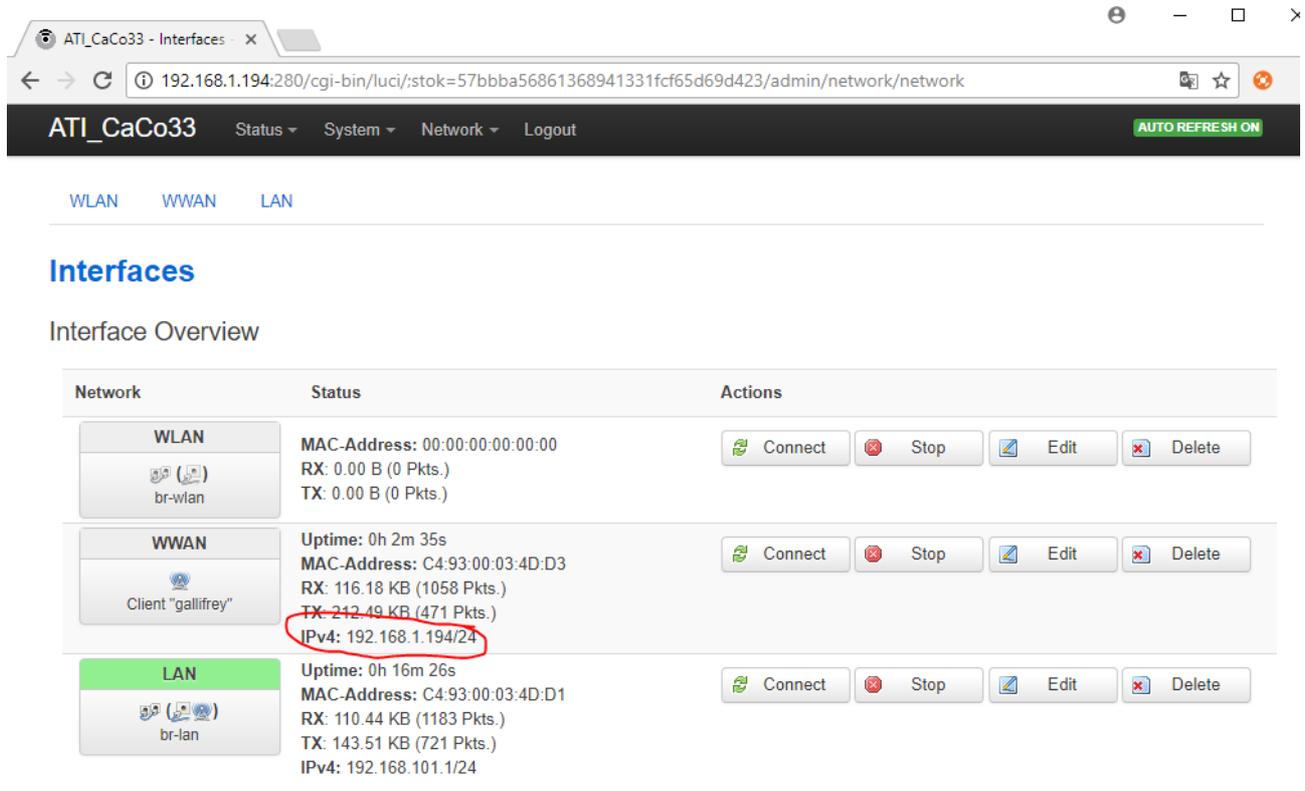
Back to Overview Save & Apply Save Reset

15. Lampe neu starten (dazu Lampe für mindestens 10sec. Vom Strom trennen)

16. Tablet oder Laptop mit WIFI verbinden und im Browser zu dem eindeutigen Namen navigieren (siehe Punkt 4, im Beispiel `http://ati_caco[n]` wobei [n] für 1, 2, ..., steht)

Hinweis 1:

Sollte die Auflösung mittels des vergebenen Namen nicht funktionieren (siehe Punkt 16), kann man sich erneut an dem WIFI ATI-Fixture anmelden (<http://192.168.0.100:280>) und unter Interfaces die IP ermitteln die vom Router vergeben wurde:



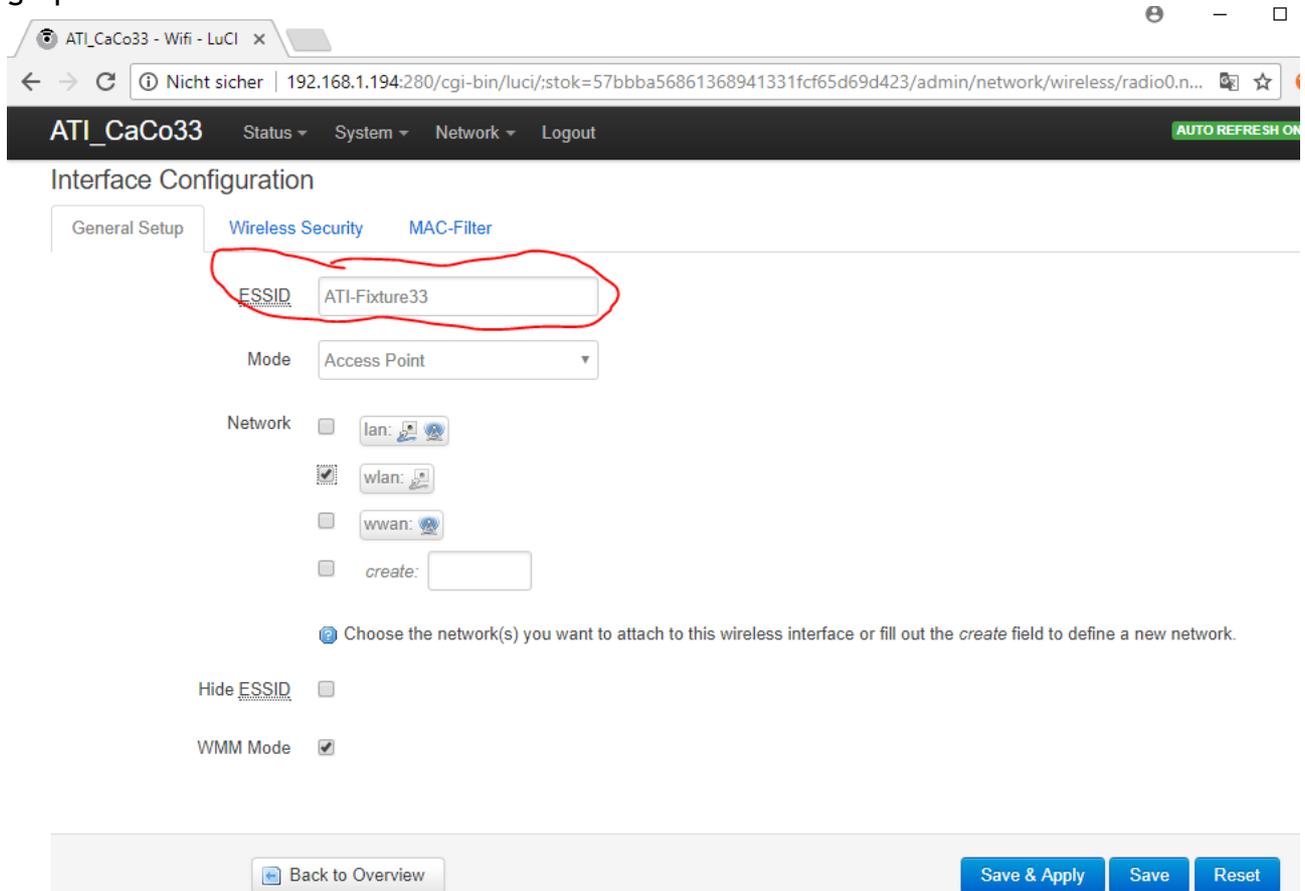
The screenshot shows the AT!_CaCo33 web interface. The browser address bar displays 192.168.1.194:280/cgi-bin/luci/stok=57bbba56861368941331fcf65d69d423/admin/network/network. The page title is "AT!_CaCo33" and the navigation menu includes "Status", "System", "Network", and "Logout". The "Network" menu is active, and the "Interfaces" section is displayed. The "Interface Overview" table shows three interfaces: WLAN, WWAN, and LAN. The WWAN interface is selected, and its IPv4 address, 192.168.1.194/24, is circled in red.

Network	Status	Actions
WLAN br-wlan	MAC-Address: 00:00:00:00:00:00 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Connect Stop Edit Delete
WWAN Client "gallifrey"	Uptime: 0h 2m 35s MAC-Address: C4:93:00:03:4D:D3 RX: 116.18 KB (1058 Pkts.) TX: 242.49 KB (471 Pkts.) IPv4: 192.168.1.194/24	Connect Stop Edit Delete
LAN br-lan	Uptime: 0h 16m 26s MAC-Address: C4:93:00:03:4D:D1 RX: 110.44 KB (1183 Pkts.) TX: 143.51 KB (721 Pkts.) IPv4: 192.168.101.1/24	Connect Stop Edit Delete

Im Beispiel wäre es dann die 192.168.1.194. In dem gewählten (siehe Punkt 12) WLAN kann man dann mittels Browser auf <http://192.168.1.194> auf die Lampe zugreifen.

Hinweis 2:

Nach Punkt 11 kann man zusätzlich noch den WIFI Namen der Lampe ändern wenn mehrere Lampen genutzt werden. Dazu wählt man 'Edit' unter ATI-Fixture und vergibt unter ESSID einen eindeutigen Namen. Die Änderungen werden mittels 'Save & Apply' gespeichert.



The screenshot shows the LuCI web interface for configuring a wireless interface. The browser address bar shows the URL: `192.168.1.194:280/cgi-bin/luci/stok=57bbba56861368941331fcf65d69d423/admin/network/wireless/radio0.n...`. The page title is "ATI_CaCo33" and the navigation menu includes "Status", "System", "Network", and "Logout". The "Interface Configuration" section is active, with tabs for "General Setup", "Wireless Security", and "MAC-Filter". The "ESSID" field is highlighted with a red circle and contains the text "ATI-Fixture33". The "Mode" dropdown is set to "Access Point". The "Network" section has checkboxes for "lan:", "wlan:", "wwan:", and "create:". The "wlan:" checkbox is checked. Below the network selection, there is a note: "Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network." The "Hide ESSID" checkbox is unchecked, and the "WMM Mode" checkbox is checked. At the bottom, there are buttons for "Back to Overview", "Save & Apply", "Save", and "Reset".