

## Gemalto EHS6T-LAN Basic Configuration



### Introduction

Gemalto's EHS6T-LAN with Ethernet + Serial interfaces will function 'out-of-the-box' without any changes of the configuration settings. In such a scenario the device automatically connects to the Cellular network (APN) using pre-defined credentials for the SIM card. The Ethernet LAN interface functions as a DHCP server.

For applications where an alternative APN or Ethernet LAN configuration is required the http-web interface is available to make quickly make and save changes. The following guide is intended to show where to find and change necessary parameters.

Pre-requisite: This guide is not a replacement for the Cinterion® Java Terminal - Hardware Interface Description, released by Gemalto. Please refer to that document for information regarding the device, interface and functionality of the EHS6T family of devices.

What is covered in this basic configuration guide:

- Accessing the EHS6T-LAN http web interface.
- Changing the Password
- Changing the Wireless Network settings such as Network APN Credentials
- Changing the Ethernet LAN Settings

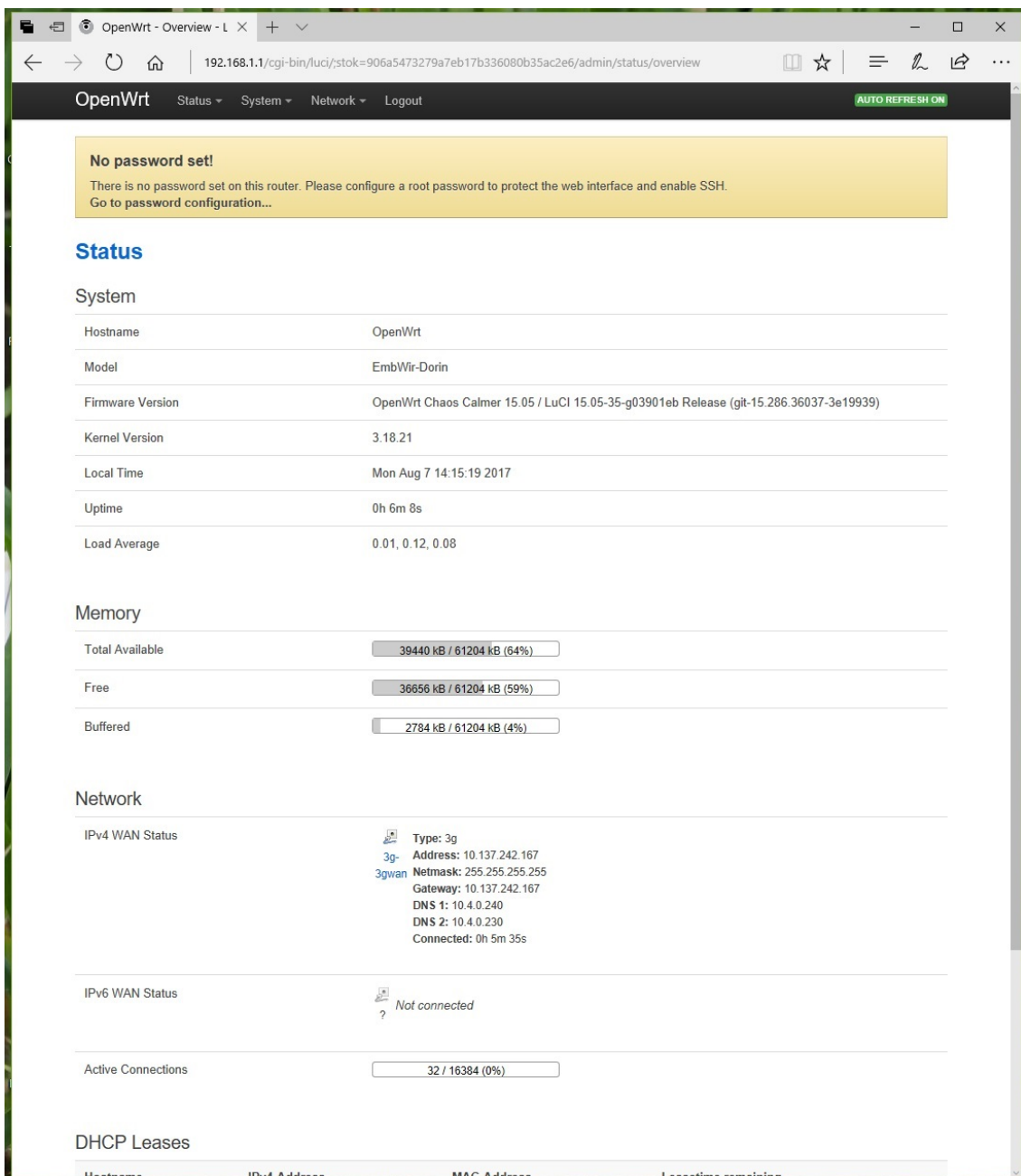
## Accessing the EHS6T-LAN http web interface

After powering-up the device, connect an Ethernet cable between the EHS6T-LAN & PC. The EHS6T-LAN Ethernet interface functions as a DHCP server. The PC Ethernet LAN port should be configured as a DHCP client.

Browse to the address <http://192.168.1.1> using any web-browser

When prompted, enter the password: admin ('User' should automatically be set as: root)

The next page displayed will be the Initial Status Page, as below



The screenshot shows the OpenWrt web interface. At the top, there is a navigation bar with 'OpenWrt' and menu items: Status, System, Network, and Logout. A green 'AUTO REFRESH ON' button is on the right. A yellow warning box states: 'No password set! There is no password set on this router. Please configure a root password to protect the web interface and enable SSH. Go to password configuration...'. Below this is the 'Status' section, which includes a 'System' table with fields like Hostname, Model, Firmware Version, Kernel Version, Local Time, Uptime, and Load Average. The 'Memory' section shows three progress bars for Total Available (64%), Free (59%), and Buffered (4%) memory. The 'Network' section displays IPv4 WAN Status with details for interface 3gwan, including IP address, netmask, gateway, and DNS servers. IPv6 WAN Status is shown as 'Not connected'. Active connections are listed as 32 / 16384 (0%). The 'DHCP Leases' section is partially visible at the bottom.

System	Value
Hostname	OpenWrt
Model	EmbWir-Dorin
Firmware Version	OpenWrt Chaos Calmer 15.05 / LuCI 15.05-35-g03901eb Release (git-15.286.36037-3e19939)
Kernel Version	3.18.21
Local Time	Mon Aug 7 14:15:19 2017
Uptime	0h 6m 8s
Load Average	0.01, 0.12, 0.08

Memory	Value
Total Available	39440 kB / 61204 kB (64%)
Free	36656 kB / 61204 kB (59%)
Buffered	2784 kB / 61204 kB (4%)

Network	Value
IPv4 WAN Status	Type: 3g Address: 10.137.242.167 Netmask: 255.255.255.255 Gateway: 10.137.242.167 DNS 1: 10.4.0.240 DNS 2: 10.4.0.230 Connected: 0h 5m 35s
IPv6 WAN Status	Not connected
Active Connections	32 / 16384 (0%)

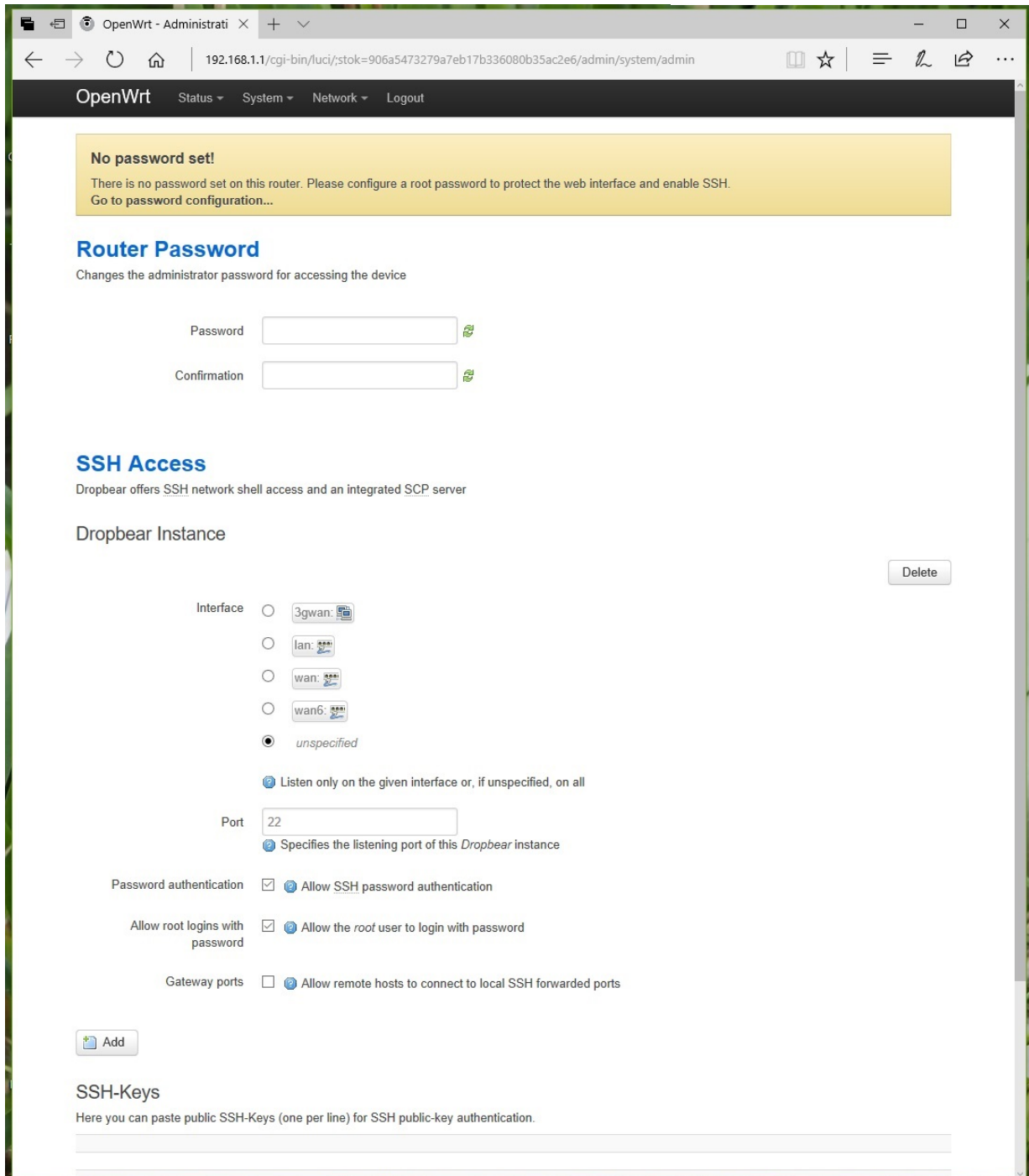
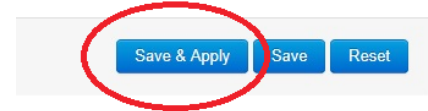
DHCP Leases	Value		
Hostname	IPv4 Address	MAC Address	Leasetime remaining

Along the top of the page, after the title 'Open-Wrt' are the main menu headings.

## Changing the Password

Under the 'System' heading is the Administration Page as shown below. The device password can be changed on this page.

After entering the new password click on the Save-Apply button at the base of the page.



Do not forget the new password!

Note: there is also a direct link to this page in the 'No Password Set!' warning box

## Changing the Wireless Network settings such as Network APN Credentials

On the top level menu options hover over the 'Network' heading then select 'Interfaces'

The Network Interfaces Overview page will be displayed as follows.

The screenshot shows the OpenWrt web interface for Network Interfaces. At the top, there is a navigation bar with 'OpenWrt', 'Status', 'System', 'Network', and 'Logout' options. A yellow warning box states 'No password set!'. Below this is the 'Interfaces' section, titled 'Interface Overview'. It contains a table with the following data:

Network	Status	Actions
LAN br-lan	Uptime: 0h 2m 59s MAC-Address: 00:1F:7D:F0:77:6B RX: 244.69 KB (2220 Pkts.) TX: 476.95 KB (1433 Pkts.) IPv4: 192.168.1.1/24 IPv6: FDCB:6C56:9E6::1/60	Connect Stop Edit Delete
3G WAN 3g-3gwan	Uptime: 0h 2m 46s RX: 180.48 KB (507 Pkts.) TX: 92.82 KB (564 Pkts.) IPv4: 10.137.242.167/32	Connect Stop Edit Delete
WAN eth0.2	Uptime: 0h 0m 0s MAC-Address: 00:00:00:00:00:00 RX: 0.00 B (0 Pkts.) TX: 22.17 KB (77 Pkts.)	Connect Stop Edit Delete
WAN6 eth0.2	Uptime: 0h 0m 0s MAC-Address: 00:00:00:00:00:00 RX: 0.00 B (0 Pkts.) TX: 22.17 KB (77 Pkts.)	Connect Stop Edit Delete

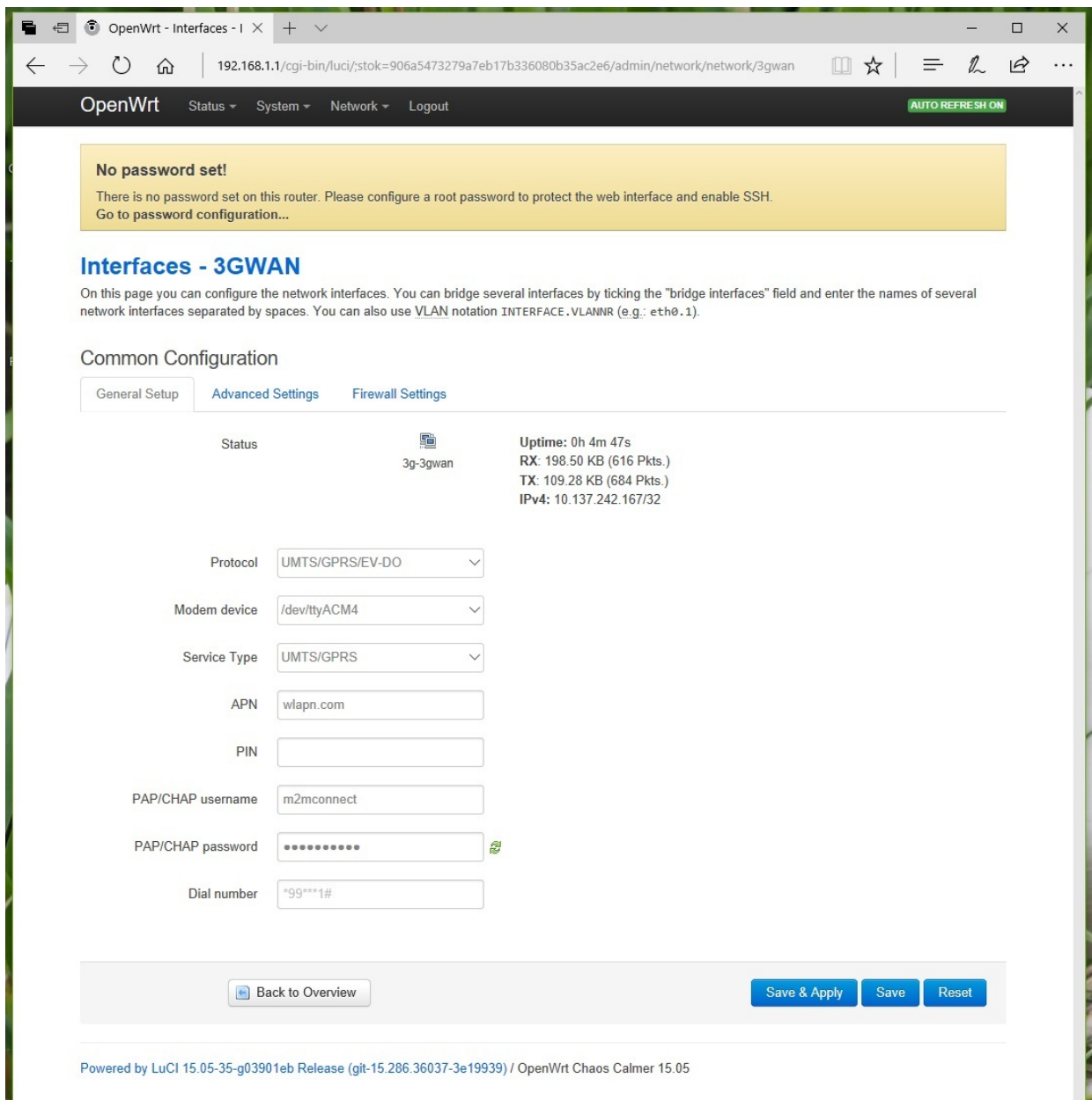
Below the table is an 'Add new interface...' button. Under 'Global network options', there is an input field for 'IPv6 ULA-Prefix' with the value 'fdcb:6c56:09e6::48'. At the bottom right are 'Save & Apply', 'Save', and 'Reset' buttons. The footer text reads: 'Powered by LuCI 15.05-35-g03901eb Release (git-15.286.36037-3e19939) / OpenWrt Chaos Calmer 15.05'.

To edit the APN credentials or other settings for the 3G Wireless Wide Area Network click on the **Edit** button in the 3G WAN section, as highlighted above.

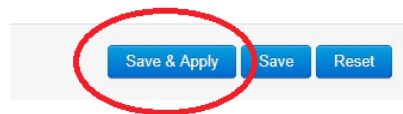
The page below will be shown where APN details can be configured.

Enter the APN Name, and the Username & Password.

Note: 'PAP/CHAP' (in front of Username & Password) refers to the two authentication methods which the device will automatically select & use to register onto the APN.



Remember to click Save & Apply!



**NOTE:** For ease of use, it's also possible to transfer directly to the above page from the initial status page. On the Initial Status Page (first screen shot in this document), within the **Network** section, the 3G-WAN word and icon is a clickable-link directly to the above settings page.

## Network

IPv4 WAN Status



## Changing the Ethernet LAN Settings

On the **Network->Interfaces** Overview page (see page 4), adjacent to the **LAN** information, click on the **Edit** button. The LAN Interface Configuration settings page will be displayed.

To disable the DHCP server, check the tick-box in the DHCP Server section. The IP address is defined in the 'IPv4 Address' box in the Common Configuration section. The Protocol can be left as 'static' unless other protocols are required.

Remember to save changes

