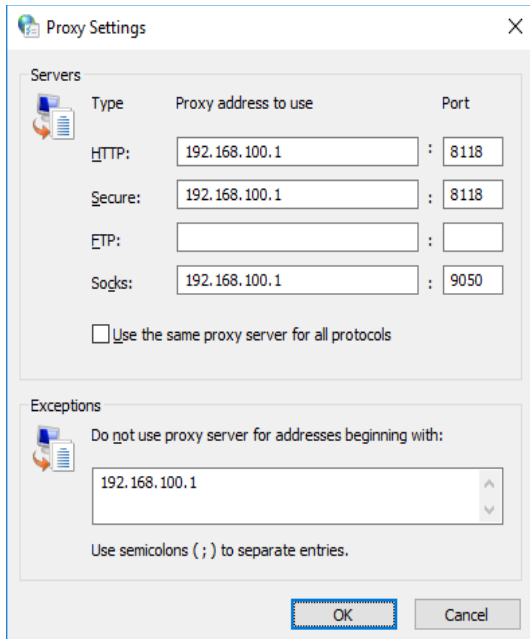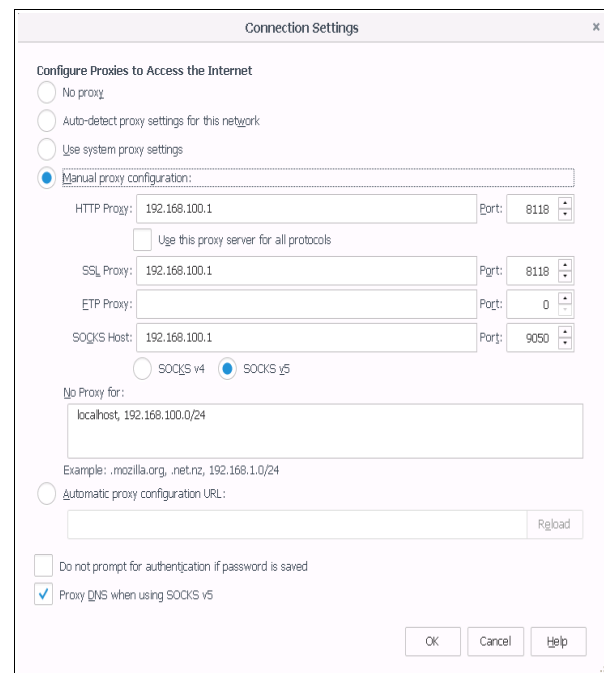# LEDE 5 – Quick Guide

This WAN – (W)LAN router comes default with Tor (3.1.9) enabled for LAN and WLAN clients.
For fully working it needs WAN connected to internet by an ethernet-cable, and ...
All clients **MUST** set their system / browser proxy settings, otherwise there´s no (internet) network @ all.

Windows example:

Firefox example:

Don´t forget the ´Exceptions´ (No Proxy for), as otherwise you won´t get the WEB interface of the box.

Check the time settings within the router. Make sure your laptop/PC has the right local time.
Login to the box and check time (*main screen*). When not set correct, Tor won´t start, use *Sync with browser*, within System / System.
If no correct WAN connection, Tor won't start! Only web & ssh connection to the box is possible.

2 Config files should be shipped with the box, and actually Tor-Config should be active:
•	Default-Config:	backup-LEDE5-router.tar.gz
•	Tor-Config:	backup-LEDE5-Tor-router.tar.gz
(These files are also available on the box in folder: */Lede5config/*, and saved within a ´Generate archive´.)

Default-Config is needed for example to install additional packages, or have the box running in ´normal´ router function. (DNS on all ports all available.)

Login info:

URL:	https://192.168.100.1
Login:	root
Password:	test1234
Wifi info on the box itself.
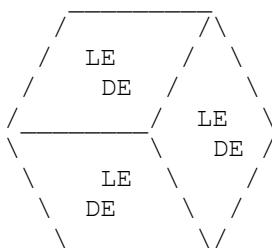Default DHCP ip range: 192.168.100.100 - 150

NOTES:

- DSL(x) functionality is NOT, i repeat **NOT** tested, and i doubt it will work.
  Test & usage is **@ own risk!**
- With Tor enabled no additional packages can be installed on the box!
  Restore ´Default-Config´ to install packages, save ´current config´ before and restore afterwards to make current config active again.
- DSL-control and DDNS are -or can be- disabled. If you wanna give it a try **@ own risk**, enable it and reboot the box (System / Startup).
- USB functionality is *in Experimental phase* and **use is @ own risk!**
  Best way is use command-line instead of WEB interface, once my test-box crashes on delete or umount (u**n**mount-button?)

Default-Config has NOT :

- Privoxy, Forwarding Socks 5t:
  / 192.168.100.1:9050 .
  (Don´t forget the space @ the end :))
- Firewall, custom rules enabled (last 2 rules):
  # Redirection rules for Transparent Tor
  #iptables -t nat -A PREROUTING -i lan -p udp --dport 53 -j REDIRECT --to-port 9053
  #iptables -t nat -A PREROUTING -i lan -p tcp --syn -j REDIRECT --to-port 9040
- Tor working. **A script will stop Tor.**
  Within System / Startup you´re able to disable Tor completely.
  After a reboot Tor won´t start. (Will give 20MB more space to play with the box @ own risk)
- Disabled DNS on WAN & LAN.
  Within Tor-Config DNS on WAN & LAN is **disabled**, Tor will DNS all traffic.

Preserve all current settings before a System upgrade or Config change:

1 - Use a wired connection to the box, **NOT WIFI**!
   Make sure the box does what is should do, works as designed.
2 - Within System / Backup Flash System, make a ´Generate archive´ on laptop/PC.
3 - ´Flash new firmware image´, with or without ´Keep settings´. Or ´Restore backup´ with default-config.
   Use file ´lede-R5-lantiq-xrx200-P2812HNUF1-ubifs-sysupgrade.bin´ (or a newer file)
4 - if with ´Keep settings´ is used, check after a minute if all mac/ip addresses are ok.
   When something wrong, ´Restore backup´ which u made earlier (Generate archive).
5 - if without ´Keep settings´ is used, ´Restore backup´ which u made earlier (Generate archive).
   Box will reboot and all should be ok within 3 minutes.

Custom FW build for ZyXEL P-2812HNU-F1 with LEDE:

```
       _____
      /          /\
     /   LE    /  \        _    ___  ___   ___  _
    /    DE   /    \      | |  | __||   \ | __|| |
   /_____/  LE   \     | |__| _| | |) || _| |__ \
   \        \   DE  /     |____|___||___/ |___||____/      lede-project.org
    \   LE   \    /       ------------------------------   LEDE5 TOR router
     \  DE    \  /        ------------------------------
      _____\/         Reboot (17.01.4, r3560-79f57e422d)
                          ------------------------------
```