## Interesting features

by Martin Krug







## POWER Redundancy 3G MODEM SPECIAL LOGIN





### UPSy....







### PROBLEM ON THE SITE

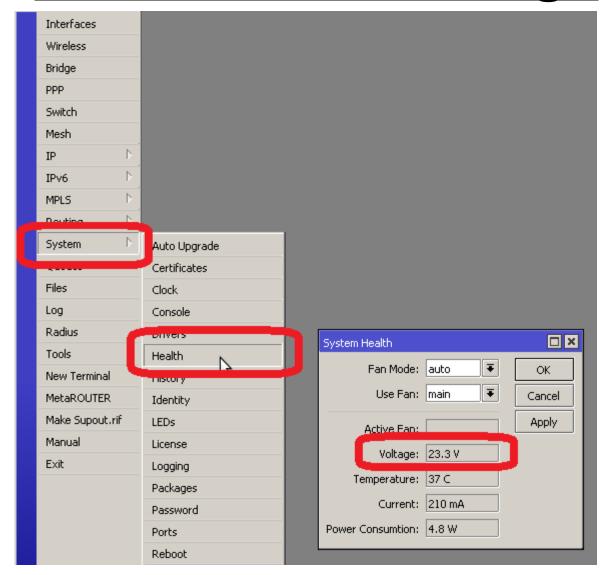
 There was a lighting storm and most of the sites broke down or are without power and some power supplays burned out

 Some new RouterBoards have redundant power options RB4xx RB7xx, RB9xx, RB2011x





### You can see voltage







### Redundant RB

Router will use port with higher voltage

 When one power input will fail then RB will automatically use secondary input





### Problem sollution - 1

• I'm on MUM so it is looking that it is a Mission Inpossible to connect SERIAL cable to brooken SWITCH and do it only with a Phone

First I need internet connection –
 I will use USB dongle and RB756 –
 configuration trough WEB-FIG





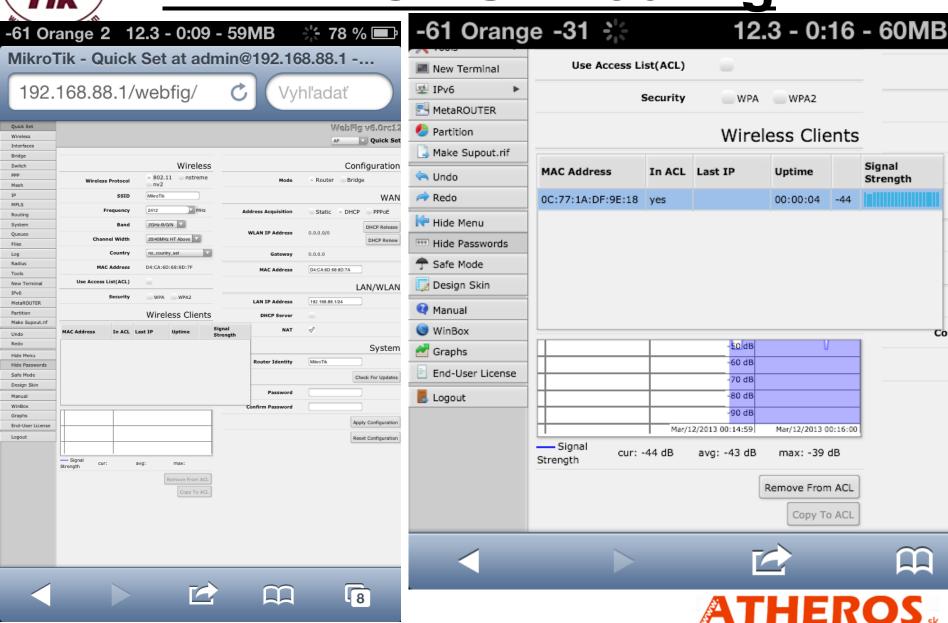
Compatible USB dongle

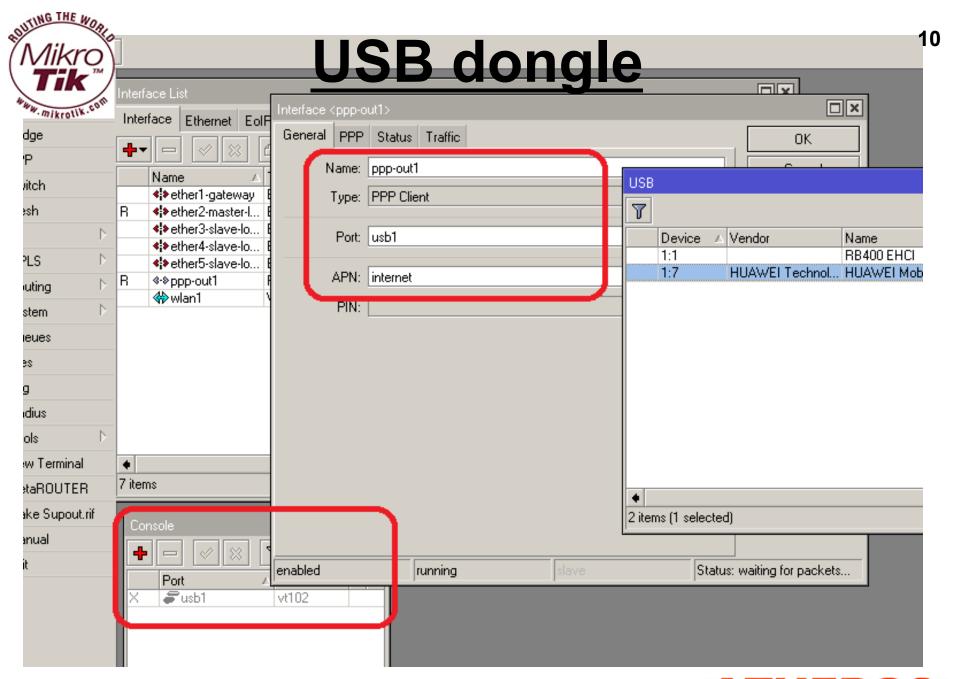






### WEB-FIG FULL config









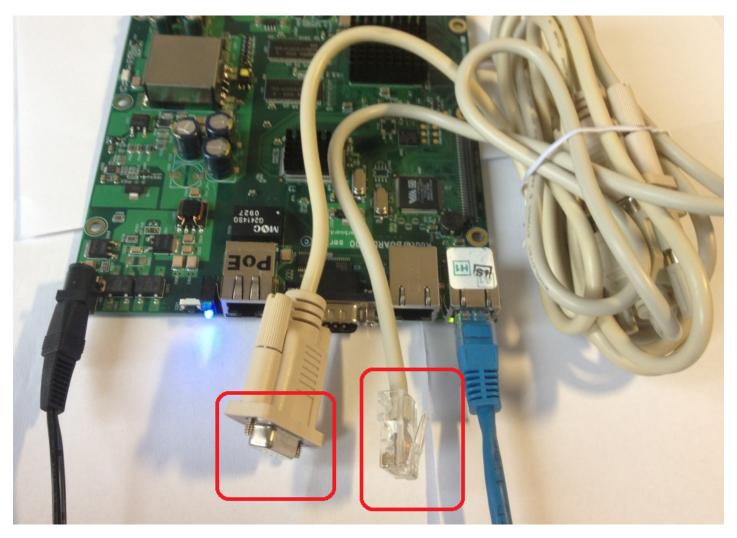
### Problem sollution - 2

 On far side we have backup line connected to RB with a serial port connected trough null-modem cable to a MAIN-Switch





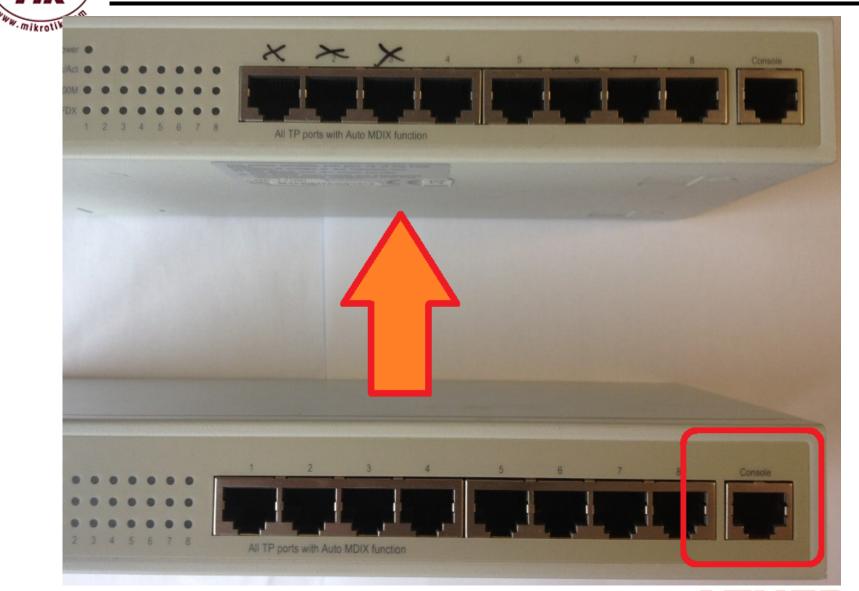
### RB with serial and cable





### **Burned Ports on the switch**

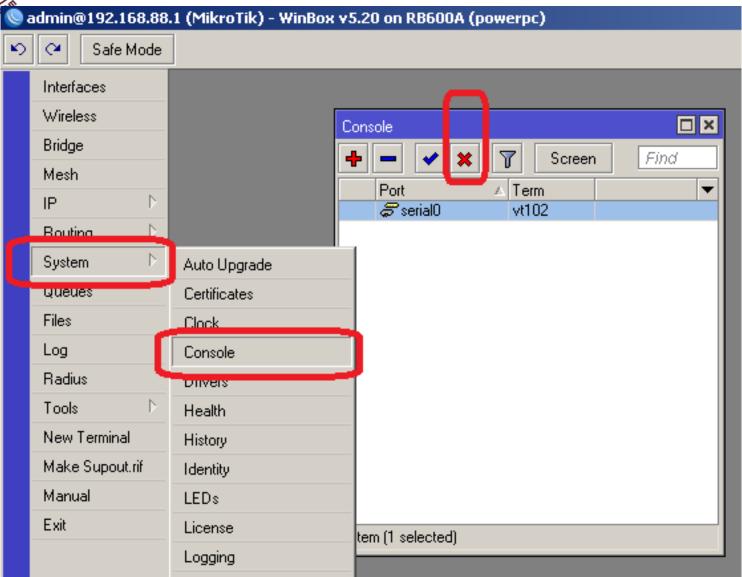
ROUTING THE WOA







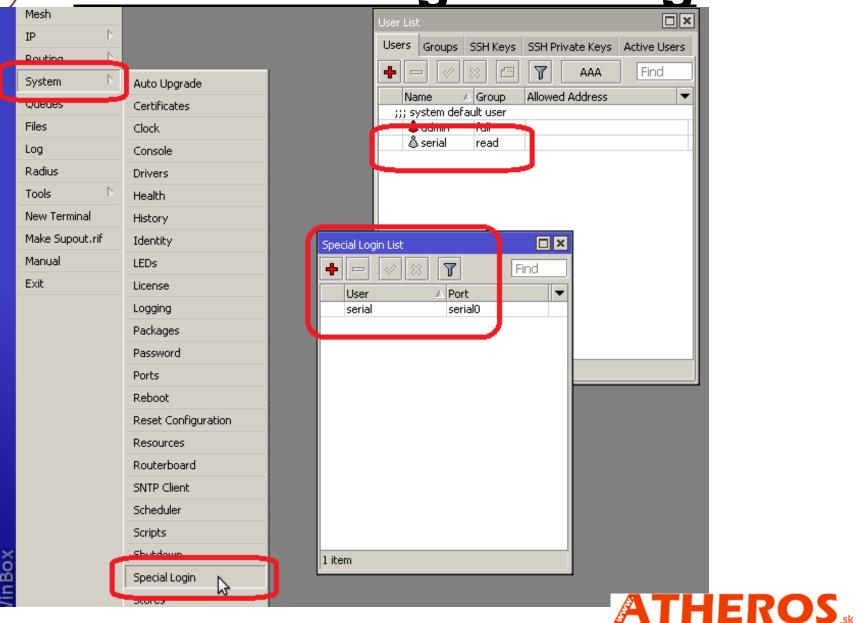
### **SERIAL** port config





**SPECIAL Login config** 

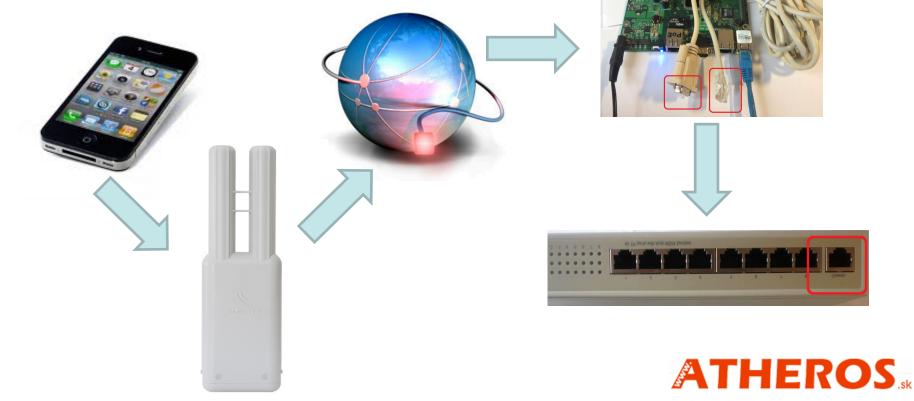
ROUTING THE WORK





### Serial login trough telnet

 I will use phone and integrated telnet to configure remote switch trough Internet





[admin@MikroTik] > system [admin@MikroTik] /system> serial-terminal port: serial0

[Ctrl-A is the prefix key]

[Q - quit connection] [B - send break]

[A - send Ctrl-A prefix] [R - autoconfigure rate]

trying rate 19200 timeout trying rate

trying rate 38400 rate detected Username:mato Password:

8-Port Switch>show port

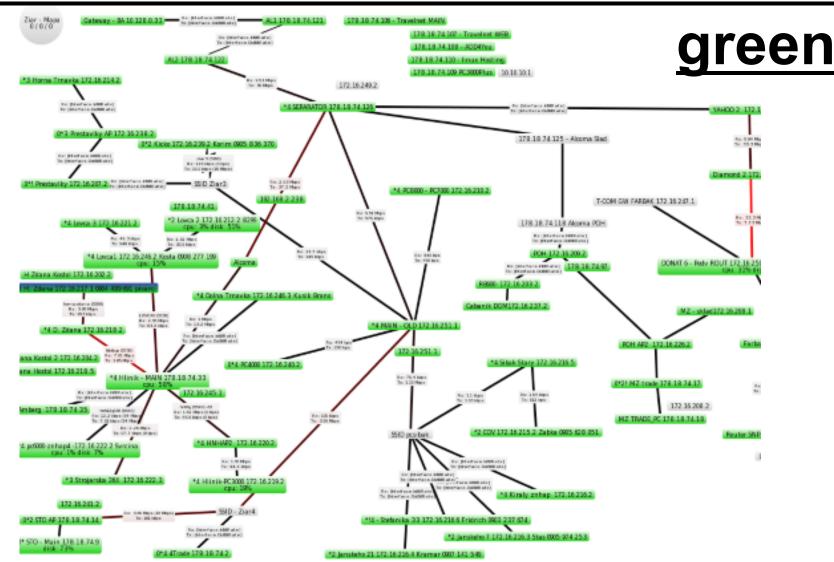
[Port Configuration]

Port Name Status Disable Auto. Speed Duplex Flow Control

1 WAN DOWN NO ON 10 Half OFF 2 10/100M base-T DOWN NO ON 10 Half OFF



#### Basic need is to have Dude all







# RB750UP and OmniTIK UPA-5HnD PoE injector





### **RB750UP** monitor

 To power other devices with PoE (non 802.3af) max 30V and 500mA per port – using the same PSU (from RouterOS v5.20)

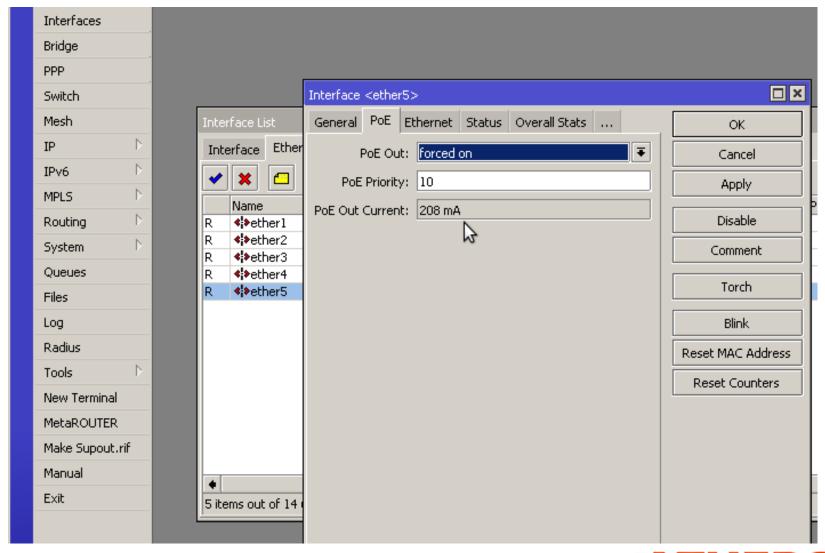
```
name: ether5
poe-out-voltage: 23.4V
poe-out-current: 128mA
poe-out-power: 2.9W

- [Q quit|D dump|C-z pause]
```





### **RB750 PoE out**





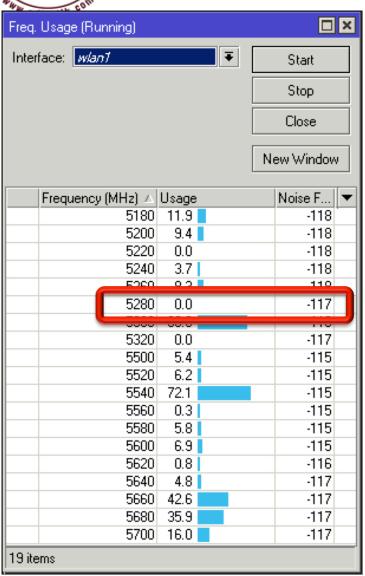


## Wireless debugging TOOLS





#### Problem with a link

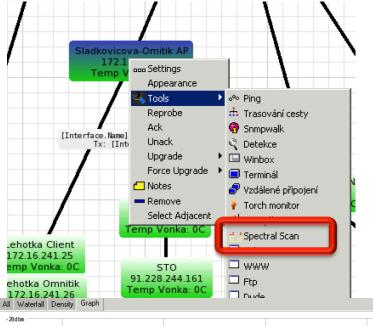


- I do have a problems with link failing transmit data
- The link is in the 5280HMz
- On first look with a standard Frequency Scan there is a free chanel
- Why is our link keeping failing?

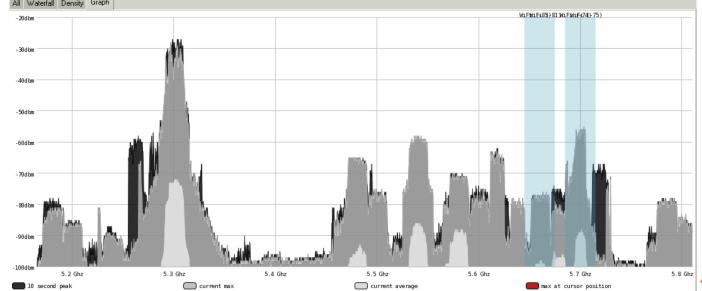




### <u>Dude – spectral scan</u>



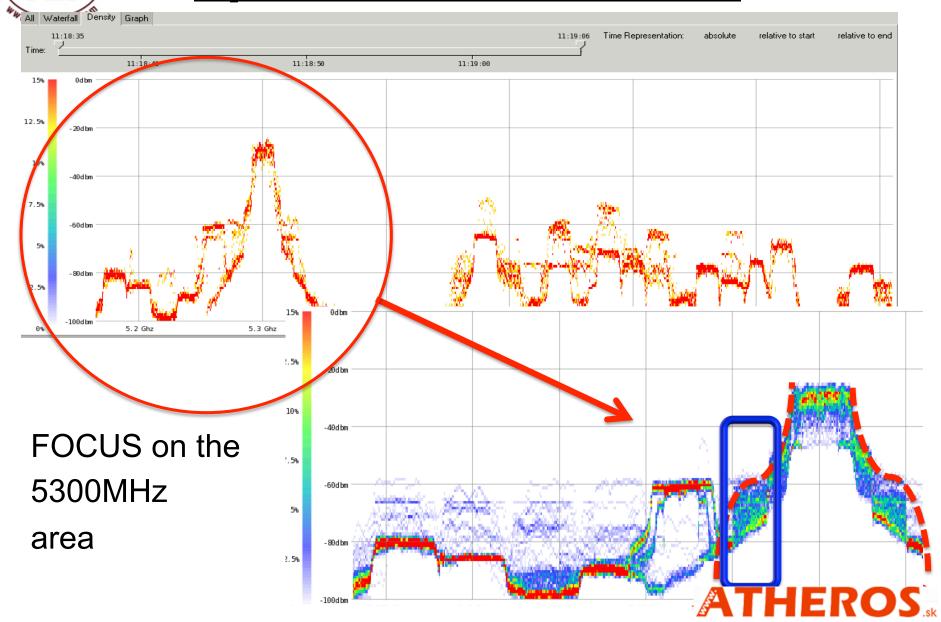
 Spectral Scan trough the Dude have a nice GUI and will not overload CPU





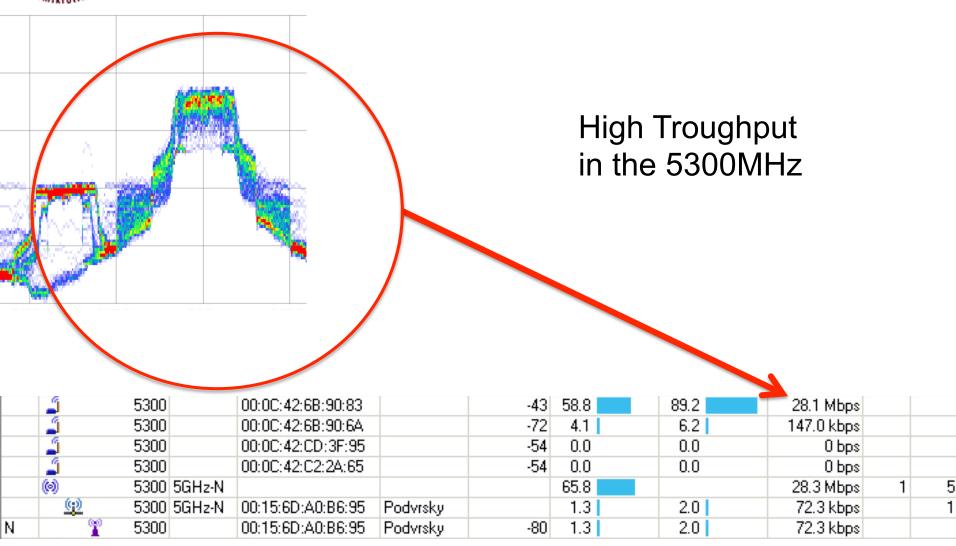


### spectral scan focus





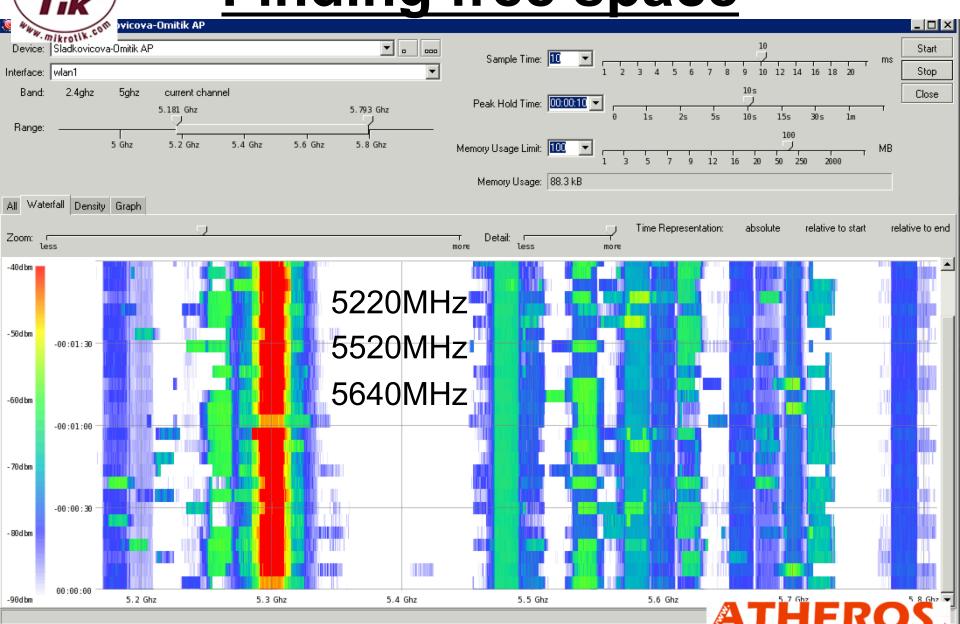
### spectral scan focus







### Finding free space

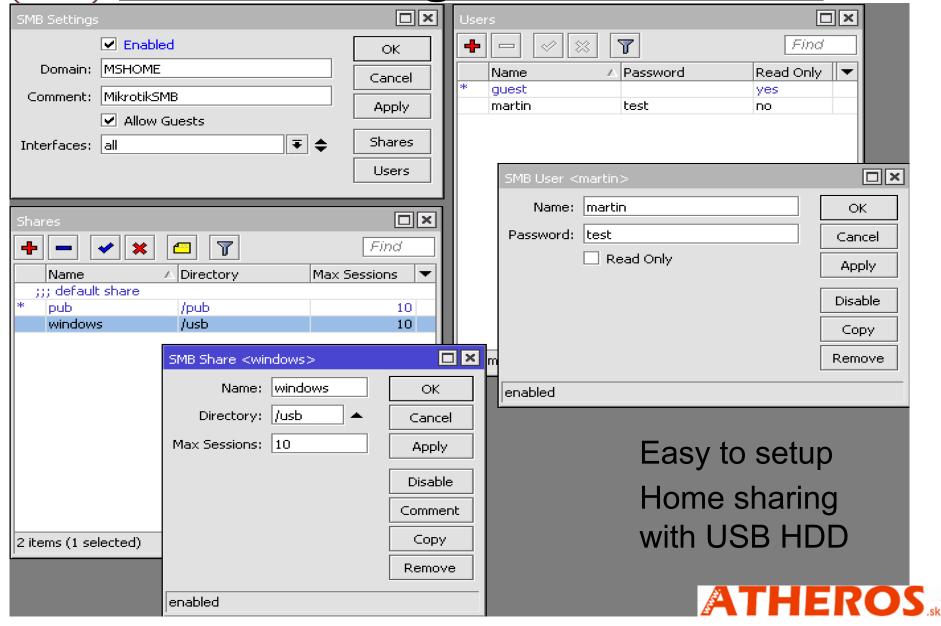




## Others gadgets SMB server



### File Sharing in the House







### I hope You did found that nuget in this pressentation.

