

# 4G-failover using script

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**Certified trainer for several vendors**



**WINTHER**  
WIRELESS



**WINTHER**  
BREDBAND

# Winther Wireless/Winther Broadband

- **Nordic distributor**
- **Certified trainer for major vendors**
- **WISP/ISP in the Stockholm area**
- **14 employees**
- **Solar panels/battery banks NEW!**



# Winther Conferences

- **Annual WISP/ISP nordic conference**  
**8-9.th sept Stockholm**  
**– open for all players**



**WINTHER**

CONFERENCES

WI-FI • WISP • EXPO

# 4G Failover

- **hAP AC Lite**
- **LTE/3G-Modem (Check Wiki for supported hardware)**
- **PoE-Bank (Now with 802.3af/at)**



# 4G Failover

- **Routing Filter**
- **Scheduler**
- **Scripting**
- **Dynamic settings**

# RJ-45 Connectors

- Pairs run through
- Crimptool cuts
- Decreased PoE-Cycle
- Higher reliability



# Thank you!

## Q & A



**WINTHER**  
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- /interface lte
- set [ find ] mac-address=58:2C:80:13:92:63 name=lte1
- /interface bridge
- add name=LAN protocol-mode=none
- add name=WAN protocol-mode=none
- /ip neighbor discovery
- set ether1 discover=no
- set ether2 discover=no
- set ether3 discover=no
- set ether4 discover=no
- set ether5 discover=no
- set LAN discover=no
- set WAN discover=no
- /interface wireless security-profiles
- set [ find default=yes ] supplicant-identity=MikroTik
- add authentication-types=wpa2-psk eap-methods="" group-ciphers=tkip,aes-ccm \
- management-protection=allowed mode=dynamic-keys name=profile1 \
- supplicant-identity="" unicast-ciphers=tkip,aes-ccm wpa2-pre-shared-key=\
- vTrygg99v20161
- /interface wireless
- set [ find default-name=wlan1 ] band=2ghz-b/g/n country=sweden disabled=no \
- frequency=auto mode=ap-bridge security-profile=profile1 ssid=SSID2 \
- wireless-protocol=802.11
- set [ find default-name=wlan2 ] band=5ghz-a/n/ac country=sweden disabled=no \
- frequency=auto mode=ap-bridge security-profile=profile1 ssid=SSID5 \
- wireless-protocol=802.11
- /ip neighbor discovery
- set wlan1 discover=no
- /ip hotspot profile
- set [ find default=yes ] html-directory=flash/hotspot
- /ip ipsec proposal
- set [ find default=yes ] enc-algorithms=aes-128-cbc
- /ip pool
- add name=dhcp\_pool1 ranges=192.168.0.2-192.168.0.254
- /ip dhcp-server
- add address-pool=dhcp\_pool1 disabled=no interface=LAN lease-time=1d name=dhcp1
- /system logging action
- set 1 disk-file-name=log
- /interface bridge port
- add bridge=LAN interface=ether5
- add bridge=WAN interface=ether1
- add bridge=LAN interface=ether2
- add bridge=LAN interface=ether3