

# Network

## Hardware

Flightcase met volledige setup:

- Powermaster VI 750 R1U UPS
- Mikrotik router RB3011UiAS
- Netgear GS724TP 24 port managed switch

Accesspoints: van Zeus (eventrouter) en/of SKO

## Setup

Interface (router)	Function	IP-range	Access
ETH 1	Uplink	/	Nothing
ETH 4, connected to George switch	Bar	192.168.99.10-192.168.99.254	Uplink, Bar
ETH 5, connected to Netgear switch	Telsysteem	172.12.50.10-172.12.50.254	Uplink, Telsysteem
ETH 9,10	Management	172.12.10.128-172.12.10.254	All
ETH 2-3, 6-8	LAN	192.168.88.10-192.168.88.254	Uplink, LAN

## Static ip's

In Telsysteem: 172.12.50.X | Name | ip | |-----| |-----| | Netgear switch 24p | 10 | | Client 1 | 21 | | Client 2 | 22 | | ronny01-08 | 101 - 108 |

## MAC addresses

Address MAC Network Hostname

;;; Netgear switch 24p

172.12.50.10 9C:C9:EB:E7:07:76 telsysteem

;;; Dell Clients

172.12.50.21 90:8D:6E:8C:8A:01 telsysteem Client1

172.12.50.22 90:8D:6E:8C:8A:9B telsysteem Client2

;;; ronny's

172.12.50.101 DC:A6:32:49:97:00 telsysteem ronny01

172.12.50.102 DC:A6:32:49:9A:90 telsysteem ronny02

172.12.50.103 E4:5F:01:4A:42:DE telsysteem ronny03

172.12.50.104 DC:A6:32:49:62:B4 telsysteem ronny04

172.12.50.105 DC:A6:32:49:65:33 telsysteem ronny05

172.12.50.106 E4:5F:01:4A:40:E2 telsysteem ronny06

172.12.50.107 DC:A6:32:49:97:E7 telsysteem ronny07

172.12.50.108 DC:A6:32:49:98:CD telsysteem ronny08

;;; Unifi NetworkVideoRecorder

192.168.99.100 80:2A:A8:4F:EE:5D bar

;;; Unifi Camera Finishline

192.168.99.101 68:D7:9A:CF:A6:0F bar UVC-G3-a60f

## Practical

Plug uplink internet access in ETH1. Plug the netgear router in ETH5. Plug all things that need access to Telsysteem in the netgear switch. Plug accesspoint (Zeus event router) for internet for regular people in one of the LAN ports on the router. Plug an accesspoint in the Telsysteem netgear switch for wireless for manualcount clients.

## Configuration

The router is configured with three bridge networks: lan, mgnt and telsysteem. Via Bridge -> Ports, you can configure which interfaces/ports are in each bridge network. Each bridge network has its own subnet and corresponding

addresspool. These subnets need to be configured and assigne to the relevant bridge network in multiple places: IP->Adresses; IP->Pool; IP->DHCP Server->Networks; IP->DHCP Server->DHCP.

The access is configured per bridge network, using the IP->Firewall rules

- Default rule to drop all traffic not coming from LAN is *disabled*
- For the different bridge networks rules are added specific for the allowed traffic (i.e. Telsysteem -> Uplink)
- Then, for each network a rule is added to drop all other traffic. (except for mgmt which is allowed everything)

Static ip's are assigned in IP->DHCP Server->Leases

A backup is saved in /network in this repo and can be restored via Files->Browse [upload button]

## **Print this page**

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