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Connecting Gigaset N510 IP Pro

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General information

- Components used
  - Hipath 3000 v8
  - Hipath HG1500 V8
  - Hipath Comscendo licenses
  - Gigaset N510 IP Pro base station
  - Gigaset Handset devices

- Maximum configuration:
  - Max. 6 handsets connected to the N510 IP Pro
  - Max. 6 configured SIP accounts in the N510 IP Pro (6 Hipath comscendo client licenses needed)
  - Max. 4 simultaneous calls (4 Hipath HG1500 B-channel licenses needed)

General information

- Overview of the supported features
  - Compatible with Gigaset's wide range of DECT handsets
  - Desktop or wall mountable
  - Integrated power over Ethernet (POE class 1)
  - Caller ID for incoming and outgoing calls
  - Missed and dialled call lists
  - Call transfer using the "R" button
  - Vlan tagging supported

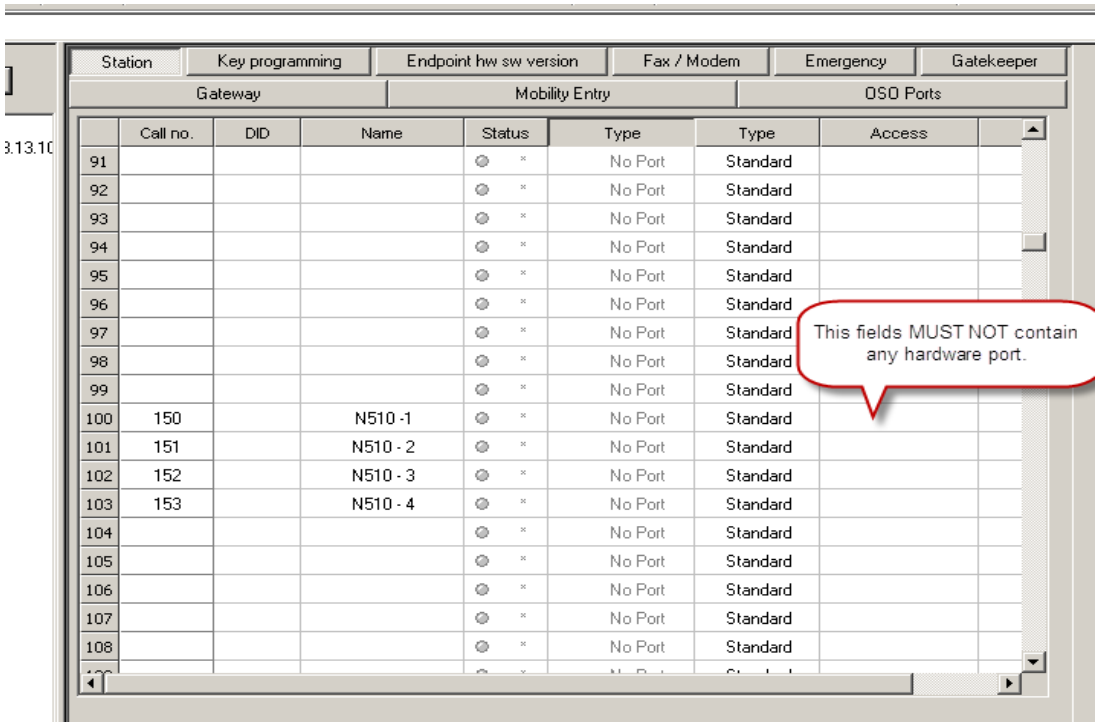
- Recommended handsets
  - C59H, C610H, SL78H, S79H, SL400H and S810H

Hipath 3000 configuration

- Create the extension numbers
- Configure one of the HG1500 modules as gatekeeper
- Set the flag “enable gateway resources” for at least one of the HG1500 modules
- Define the SIP users
- Setup user security
- Check the number of available comscendo licenses

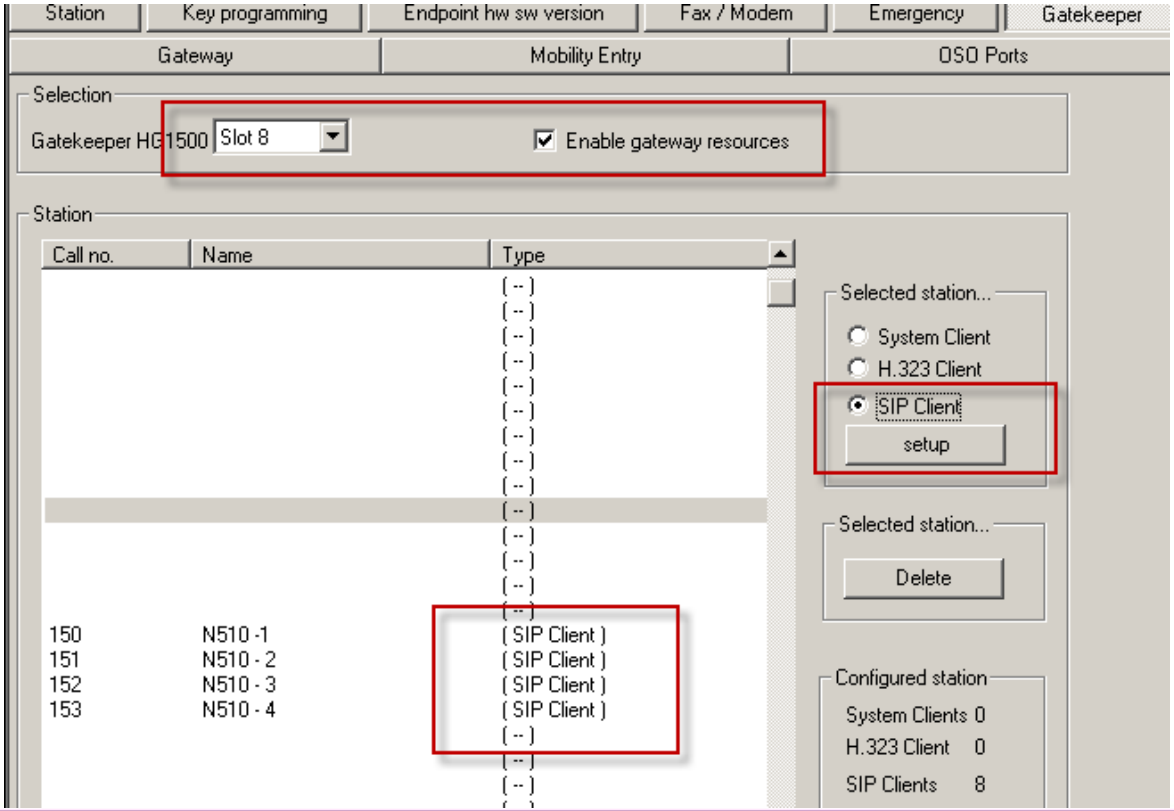
Create the extension numbers

- Create extension numbers on ports where no hardware is assigned to.



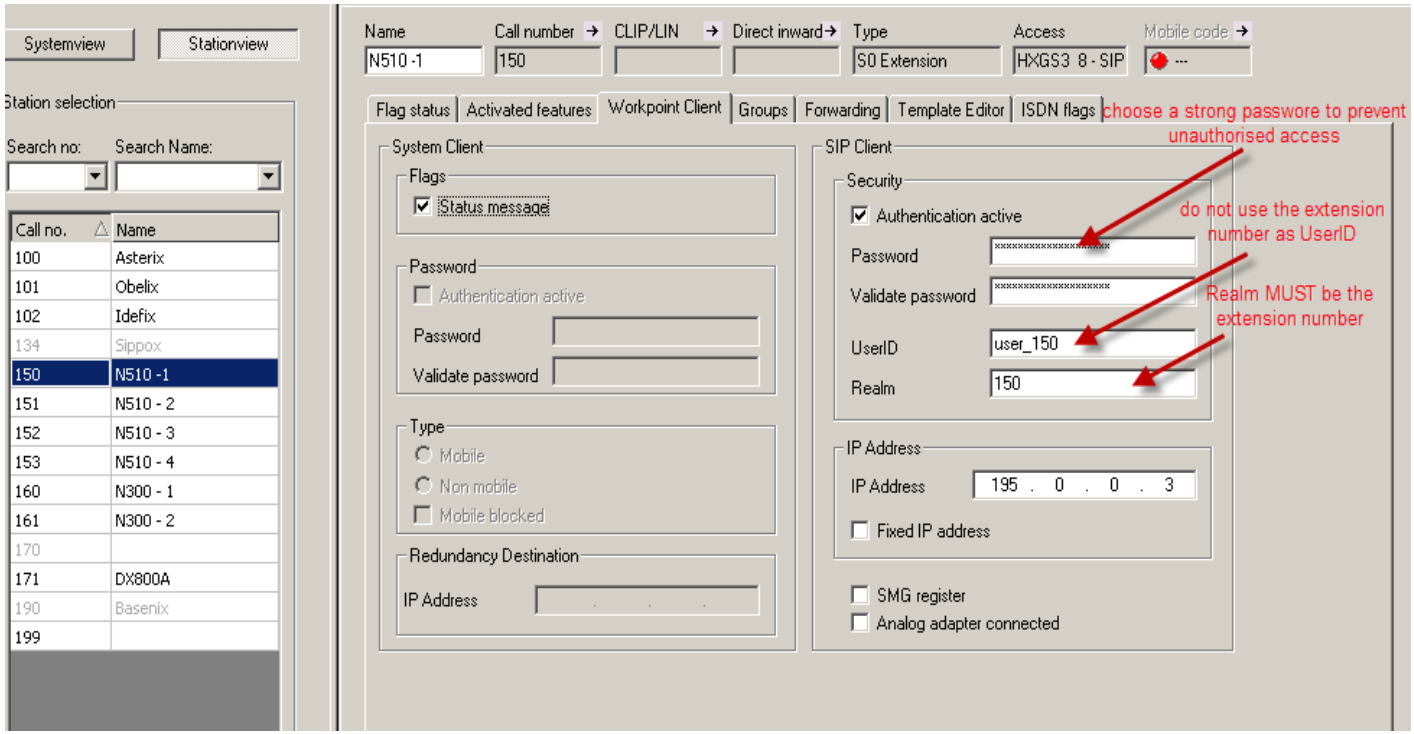
Define SIP users

- Select one HG1500 module as “gatekeeper”
- Make sure gateway resources are enabled for at least one HG1500
- Set the created ports to “SIP Client”



Setup user Security

- Always setup user security
- Make sure you choose strong passwords



Check the availability of Comscendo licenses

- A Hipath Comscendo license is needed for each IP workpoint

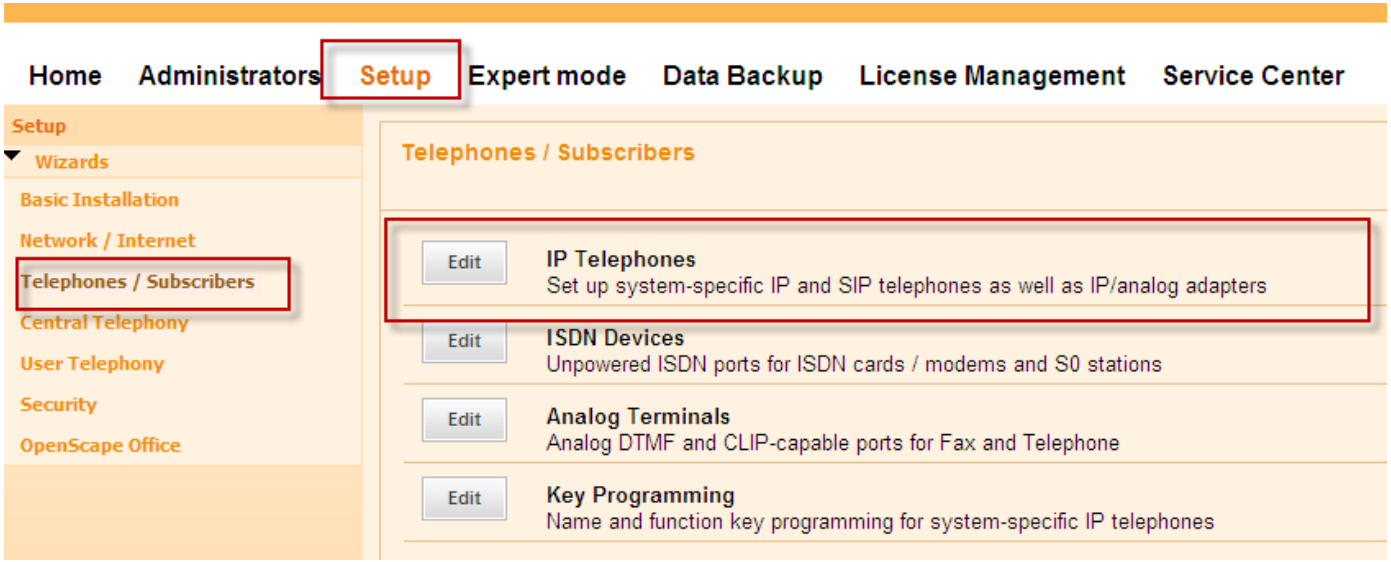
CDB Data

License ID: 1

Type - Slot	Port	Feature	Assigned	Emergency	Expiration date
HG 1500 - 08	-	HG1500 B-channel	40	2	22.06.11
HG 1500 - 08	-	HiPath ComScendo	40	0	22.06.11
HG 1500 - 08	-	IP Sec	0	0	-
HG 1500 - 08	-	CA functionality	0	0	-
HG 1500 - 08	-	ComScendo Security	80	2	22.06.11
HG 1500 - 08	-	HG1500 B-Channel Evaluation	0	0	-

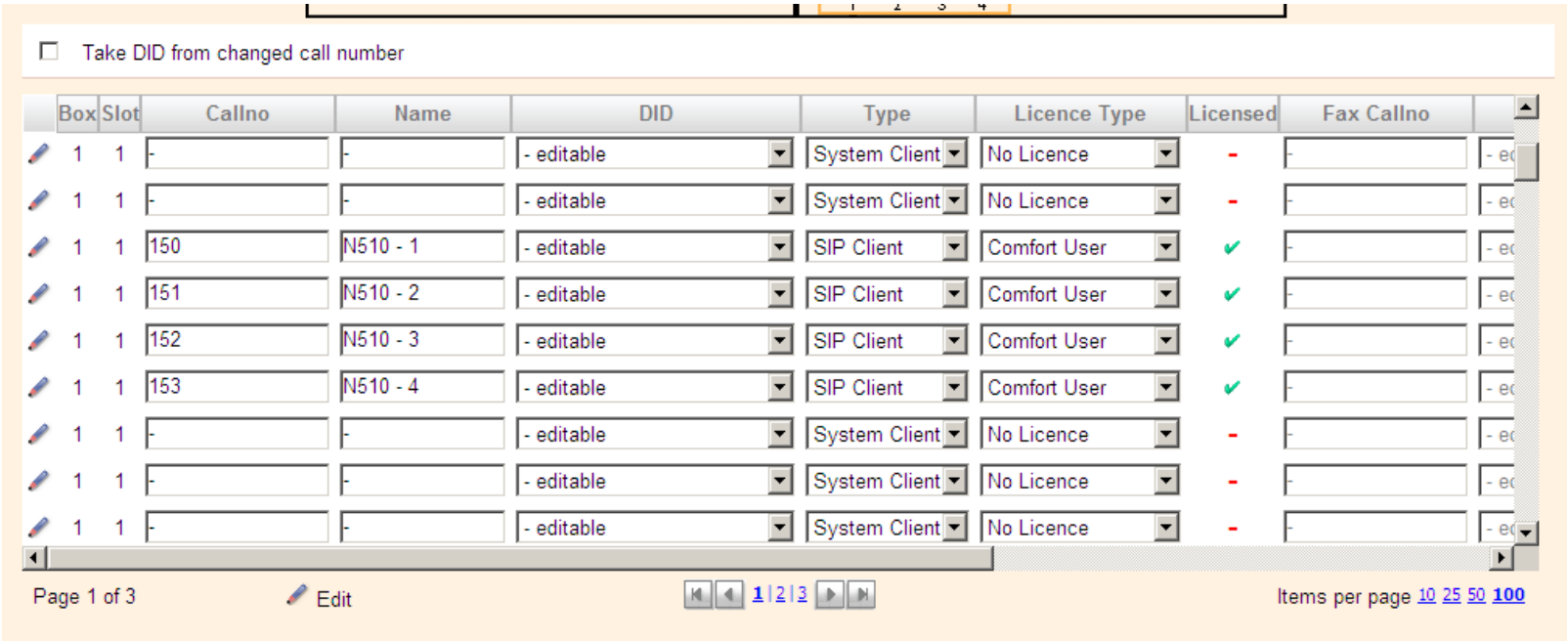
OSO MX V3 Configuration

- SIP clients are set-up in the "IP Telephones" setup wizard



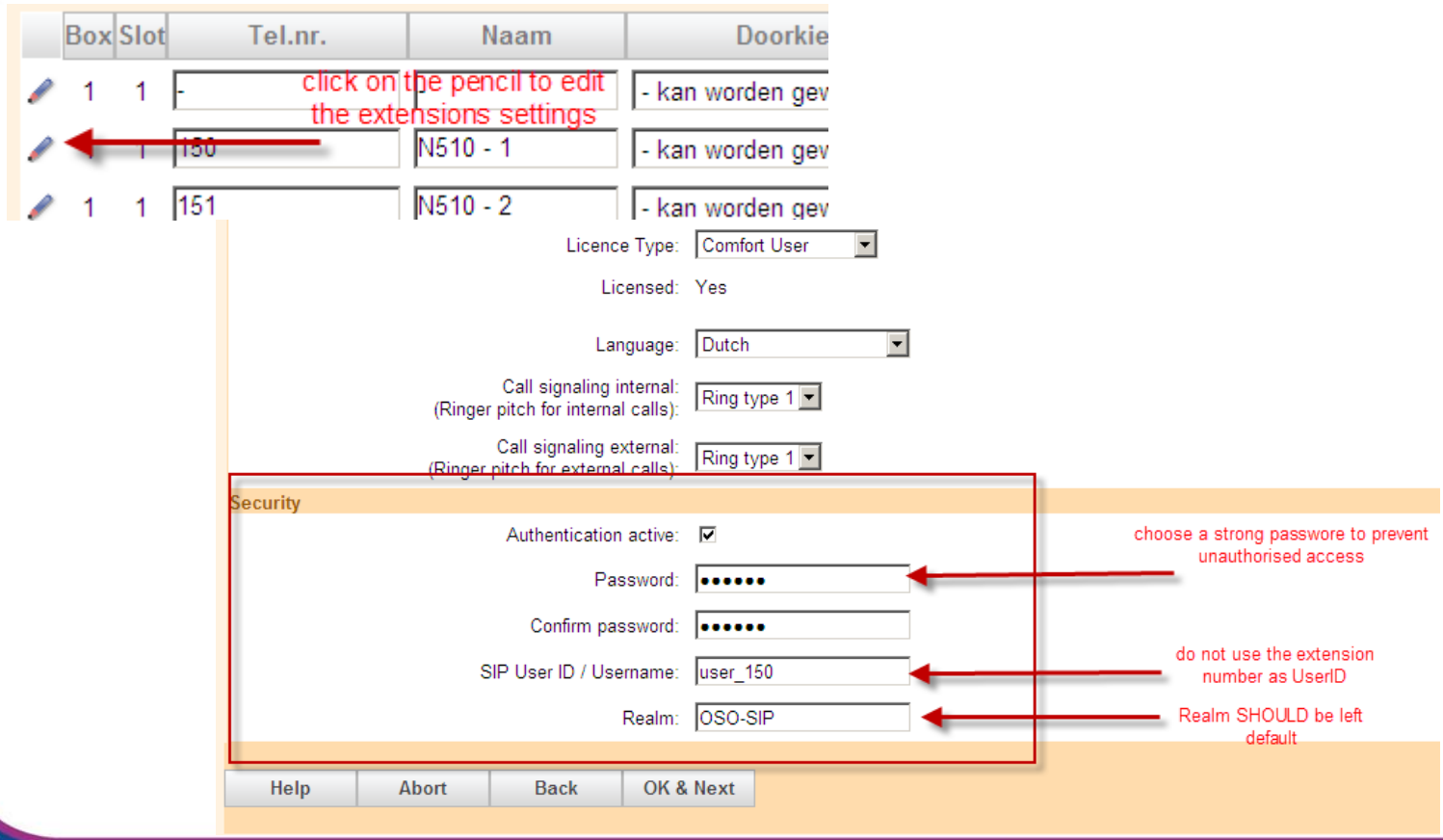
Setup SIP clients

- Assign a name and number for each sip client
- Assing a license to each sip client



Set security

- Setup a strong username and password for each extension

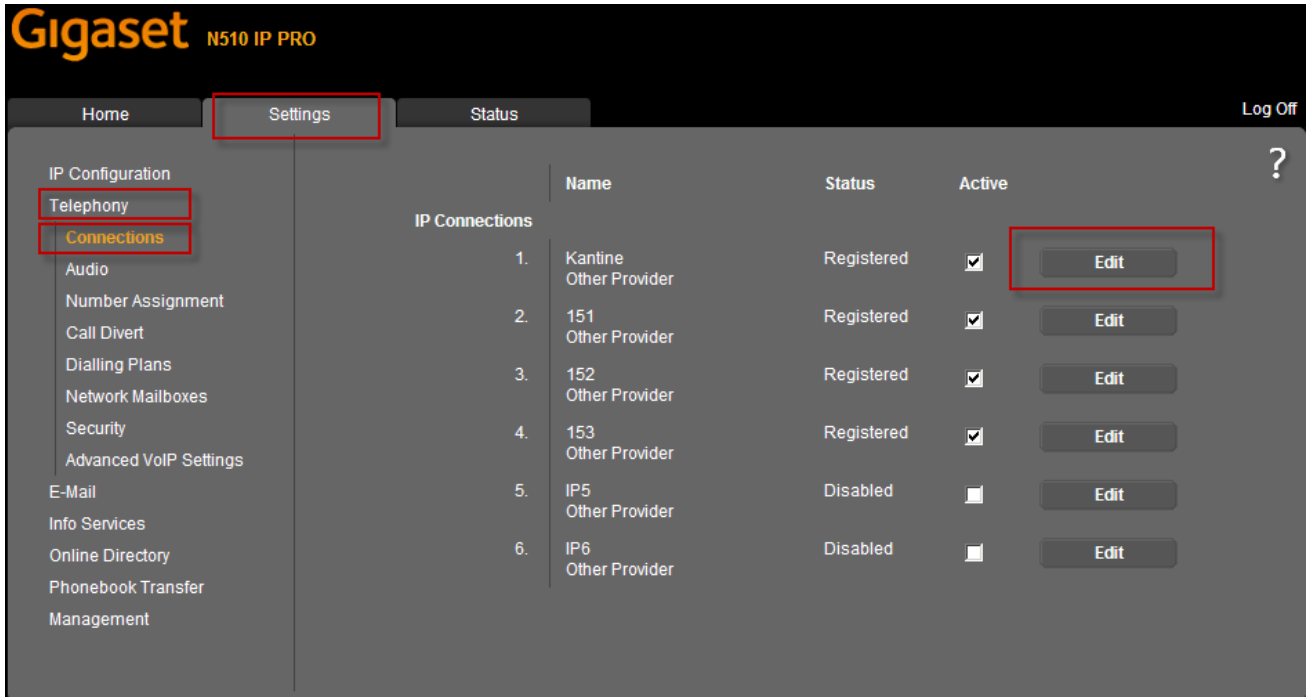


Gigaset N510 IP Pro Configuration

- Create an IP connection for each user
- Setup the designed codecs
- Assign an extension to each handset
- Configure the advanced VOIP Settings

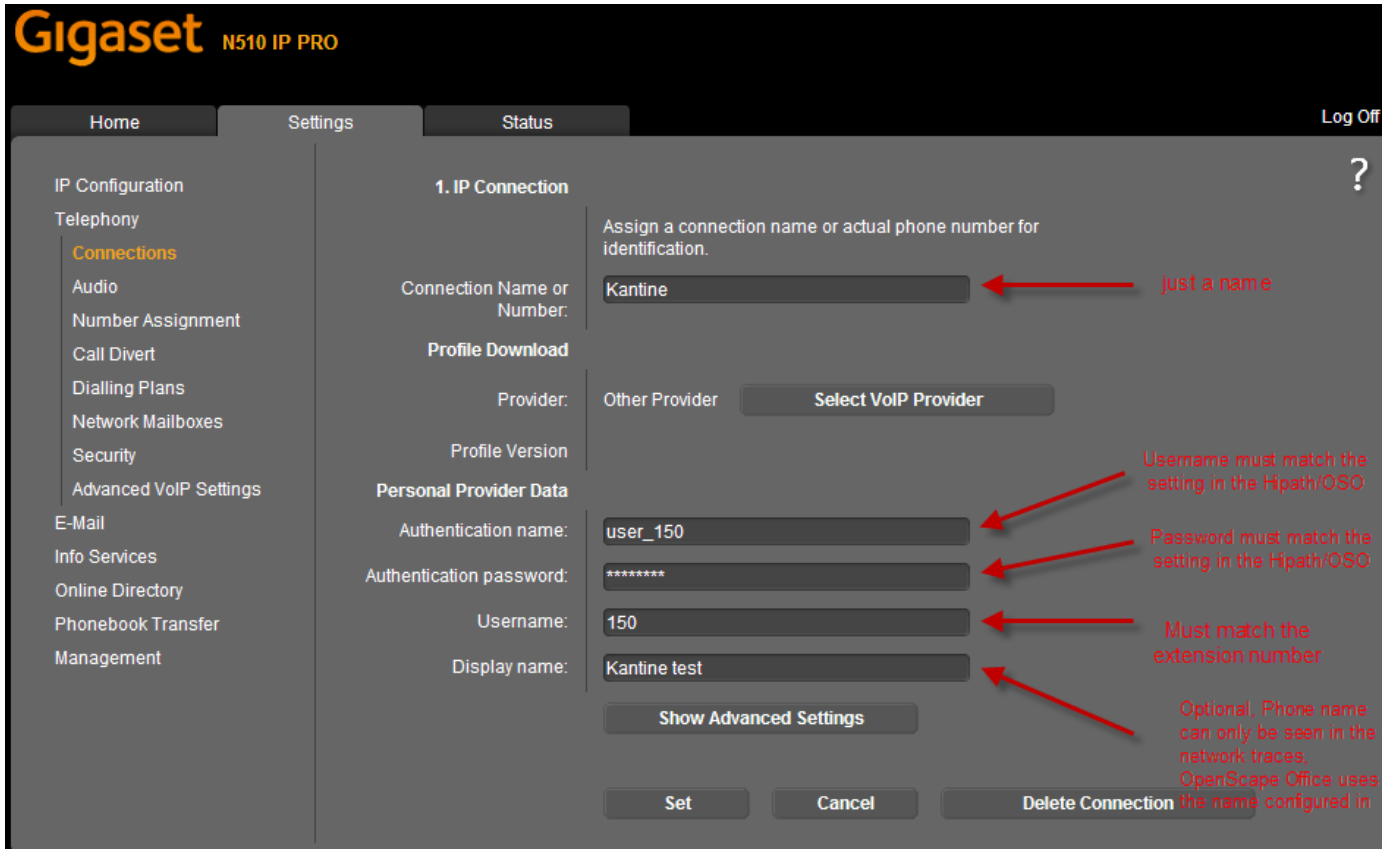
Create an IP connection

- Login to the N510 IP Pro (default PIN: 0000)
  - Click “Settings”
  - Click “Telehphony”
  - Click on the “Edit” button behind one of the unused IP connections



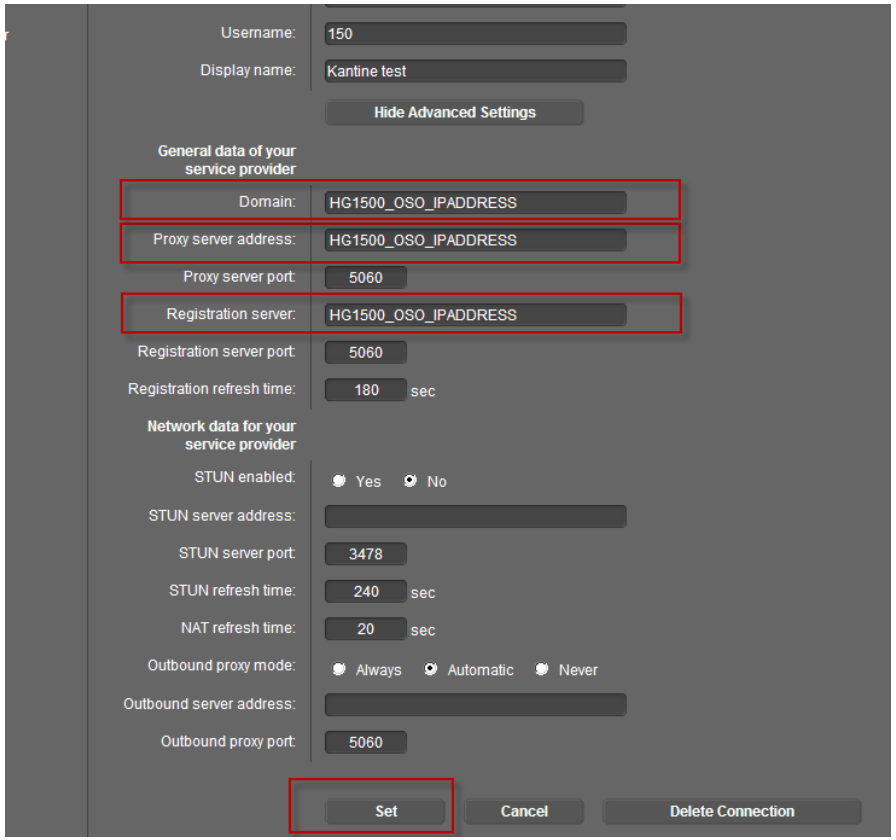
IP connection settings

- First set the basic settings and click “Show Advanced Settings” for further options.



Advanced settings

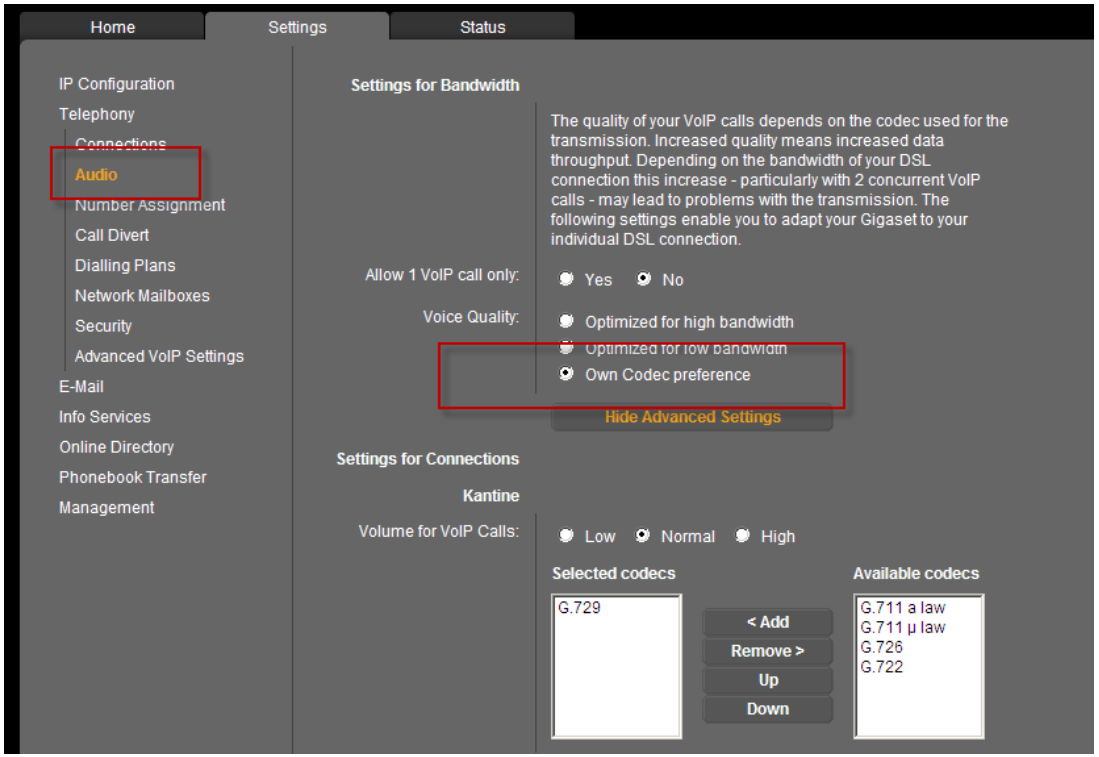
- Set the IP Address of the HG1500 or OSO as “domain” “proxy-server” and “registration server”
- Leave all other settings unchanged and press “Set”



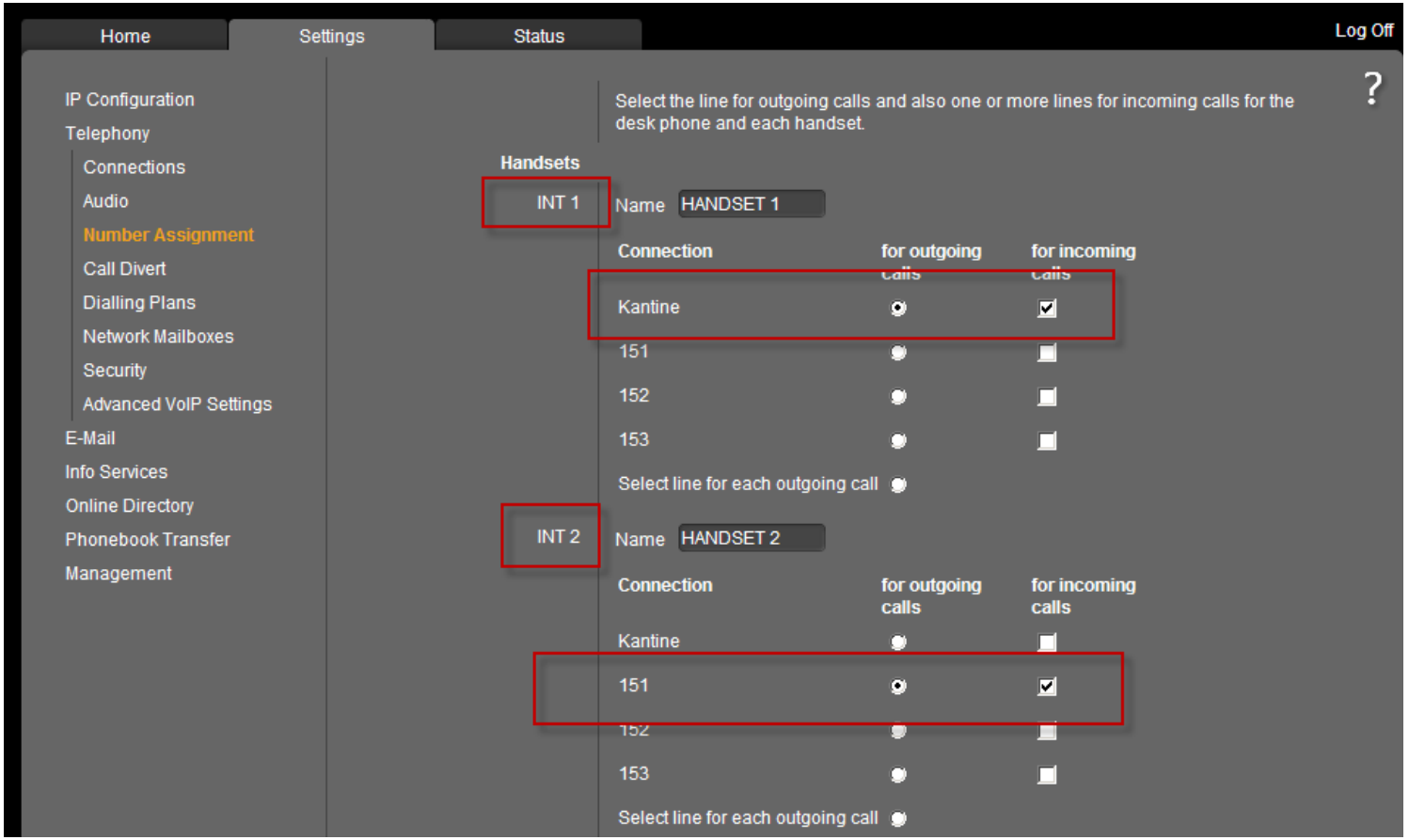
- Repeat the last 2 steps for all the extensions you wich to register at the N510 IP Pro basestation.

Setup the codecs

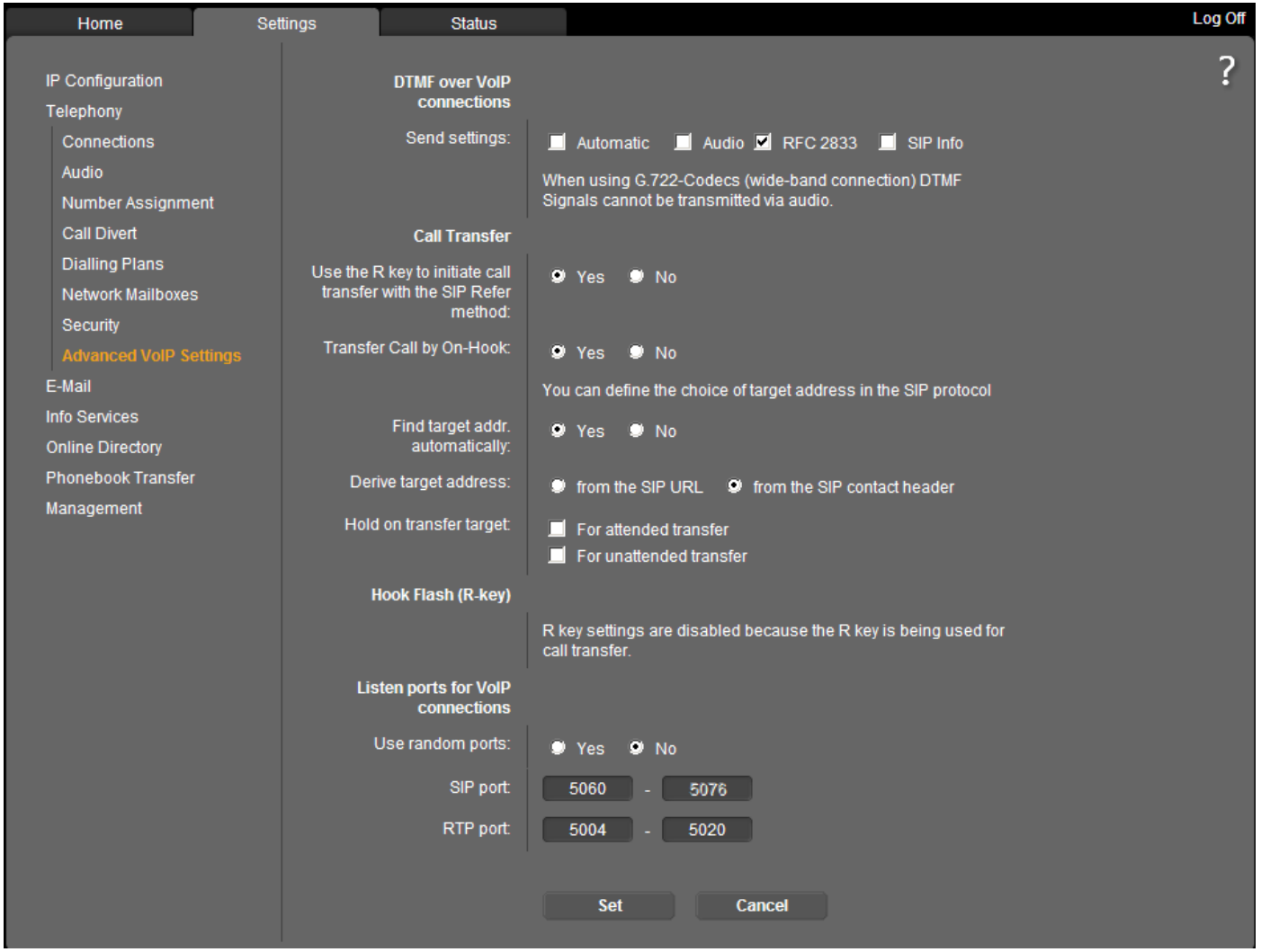
- Set the codec for each extension number according to the settings in the HG1500/OSO
- Note that codecs G.722 and G.726 are NOT supported by the HG1500 and OSO, but can be used in HG1500/OSO enviroments. E.g. Openstage phones do support the G.722 codec.



Assign the numbers to a handset.



Set the advanced VoIP setting as shown in the screenshot



Troubleshooting

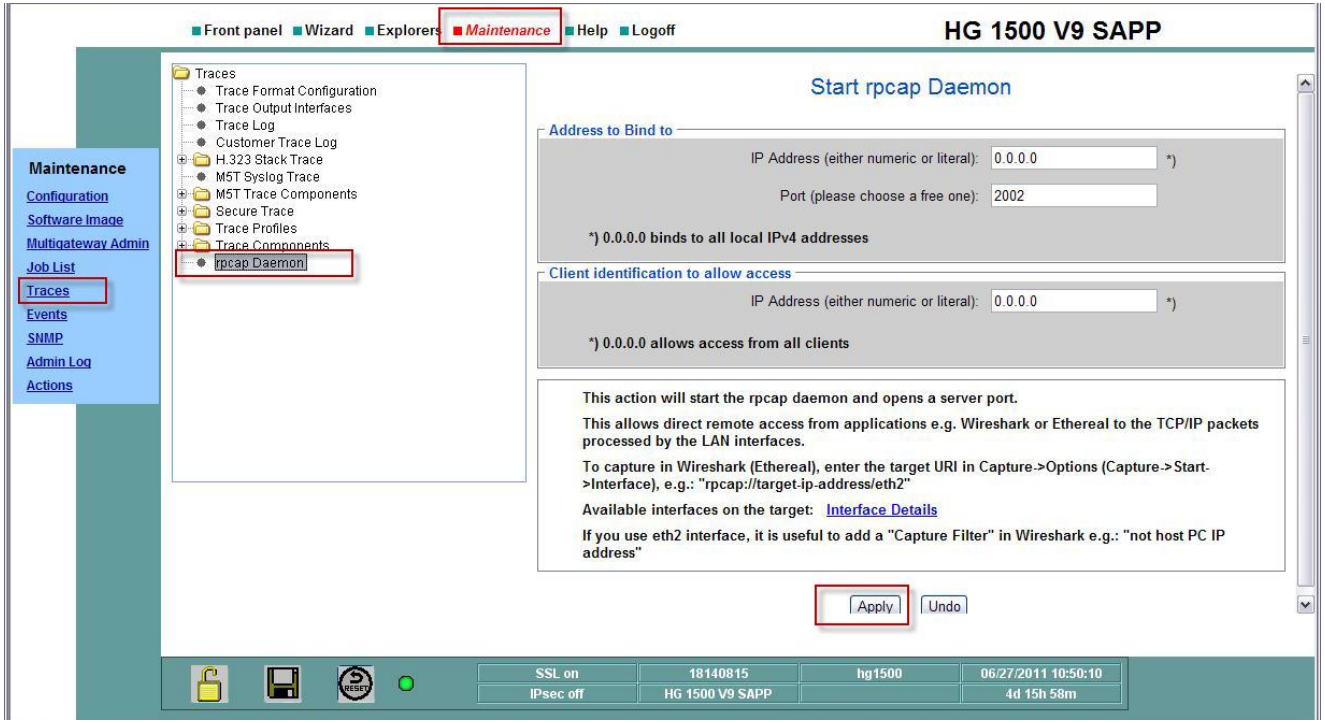
- Activating the online RPCap deamon on the HG1500
- Activating the online RPCap deamon on the OSO

- Starting the wireshark capture
- Analyzing the wireshark capture

- Creating a problem report for expert analysis.

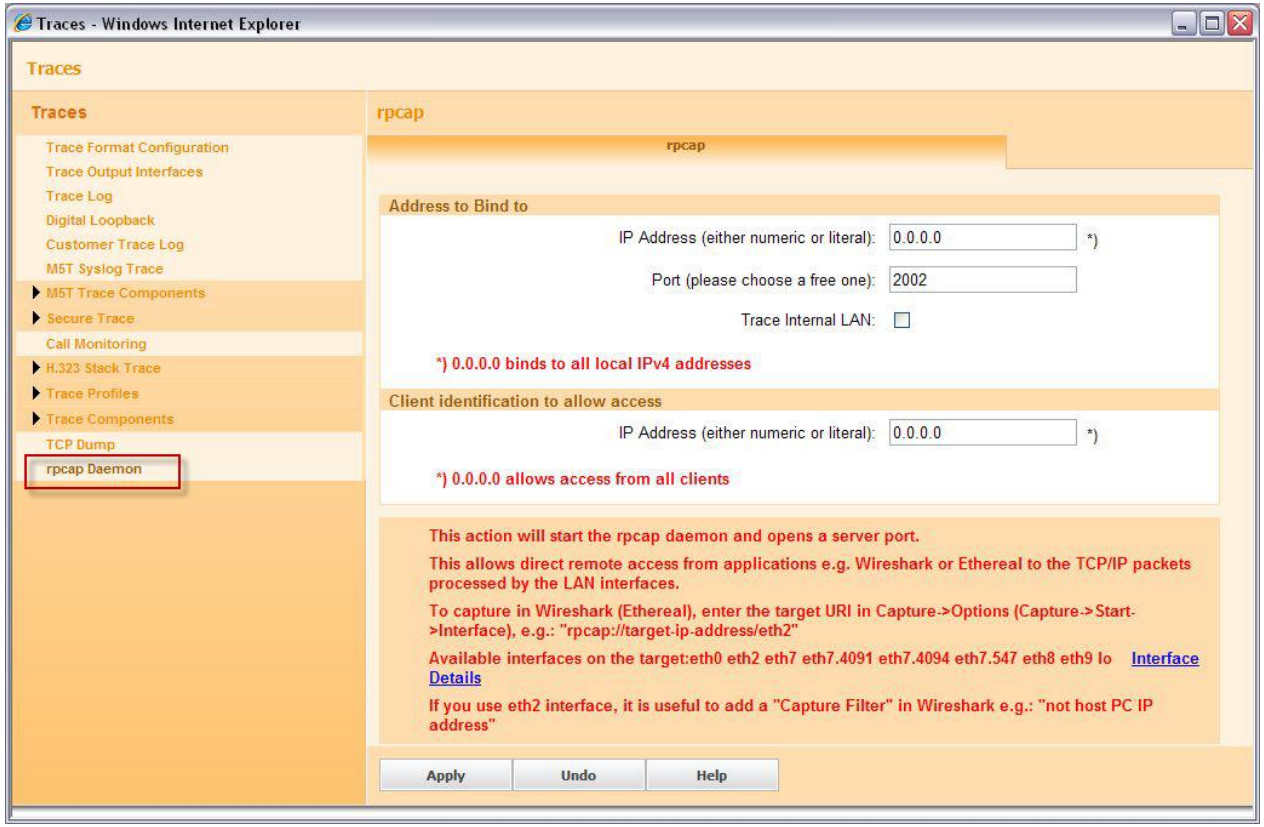
HG1500 online Rpcap deamon

- Go to “maintenance” → “Traces”
- Click on the rpcap Deamon
- Press “Apply” without changing the settings
- Click “OK” in the popup message
- The rpcap Deamon is now started



OSO MX online rpcap Deamon

- Login as a user with expert rights
- Click on “Expert Mode”
- Go to “Maintenance” → “Traces”
- Click on the “rpcap Deamon”, leave all settings unchanged and click “Apply”.

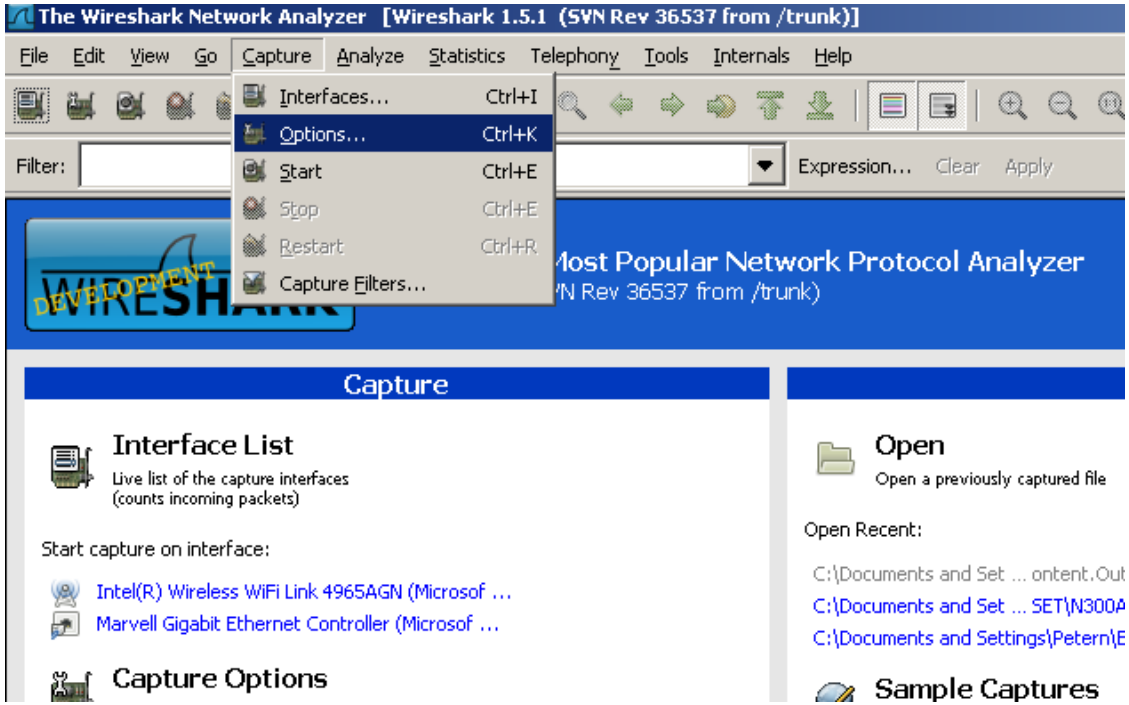


Settings in Wireshark

- Wireshark is a free network protocol analyzer that can be downloaded from http://www.wireshark.org
- Wireshark uses WinPcap as the driver to capture network traffice. This WinPcap driver is included in the installer package
- In Wireshark you must define the rpcap deamon interface of the HG1500/OSO as capture interface
- The interface format for the HG1500 is always
  - Rpcap://IP-ADDRESS/emac0
  - IP-ADDRESS must be the ipadress of the HG1500's LAN1 port
  - EMAC0 is the LAN1 port of the HG1500
- The interface format for the OSO is
  - Rpcap://IP-ADDRESS/INT-NAME
  - IP-ADDRESS must be the LAN ipadress of the OSO
  - INT-NAME is the name of the interface you wish to capute packages from
    - ETH1 is the OSO's WAN port
    - ETH2 is the OSO's LAN port

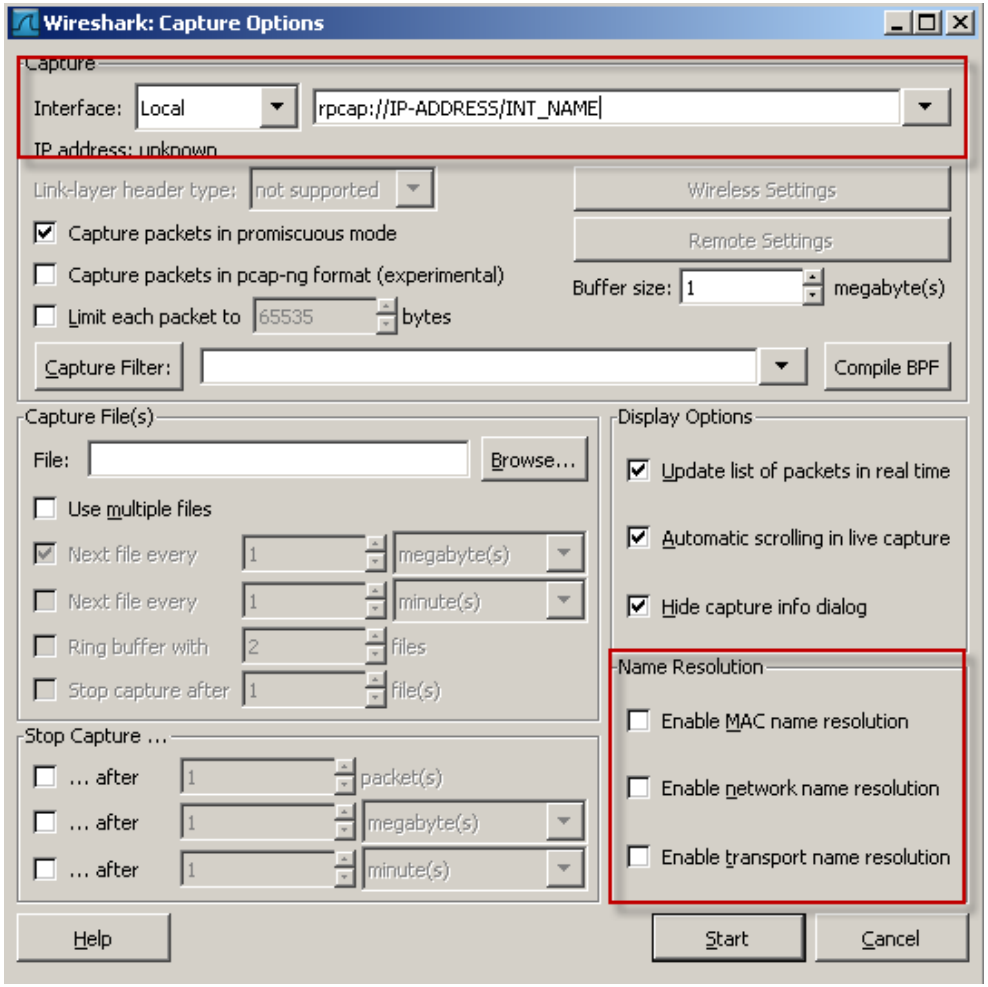
Starting wireshark

- Start wireshark
- In the “capture” menu select “options”



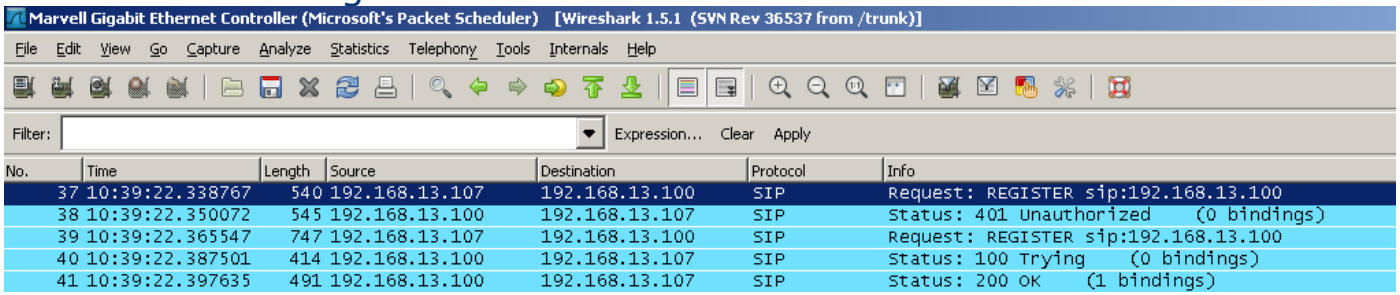
Setting capture options

- Set the rpcap interface of the HG1500/OSO as local capture interface
- Disable the “name resolution” flags
- Press “start” to start the capture

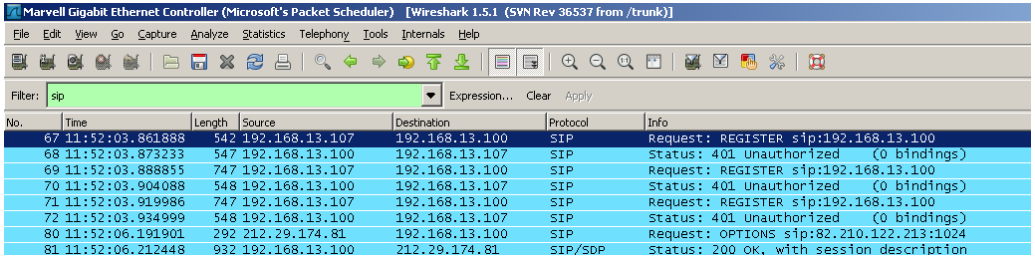


Analyzing the capture

- In the capture there should be a “REGISTER” message visible
- The first “REGISTER” is without the authentication header so the response from the HG1500/OSO is “401 UNAUTHORISED”
- The second “REGISTER” should contain the authentication information
- If the username and password are configured right the HG1500/OSO should respond with “200 OK”
- The extension is now registered



- If the username or password is incorrect, the N510 will try to register for 3 times



If all else fails……..

- We'll be available to help you out
- If you cannot get it working with this manual, contact us at
  - Televersal Support Center
    0900-2020173
    TSC@Televersalgroup.com
- Make sure before contacting us
  - The latest software versions are used in all components
  - Traces are available
  - Remote access is possible via Teamviewer