Eltako FVS

Customizing of a FVS-Professional with BSC-BAP transmitter and receiver system

Infinite flexibility and convenience in building installations

1. Install and license FVS-Professional software

1. Install the set up data for FVS-Professional (should be downloaded from www.eltako.com, under downloads) and select the BAP-Finder towards component selection in any case.

2. License the software as follows:

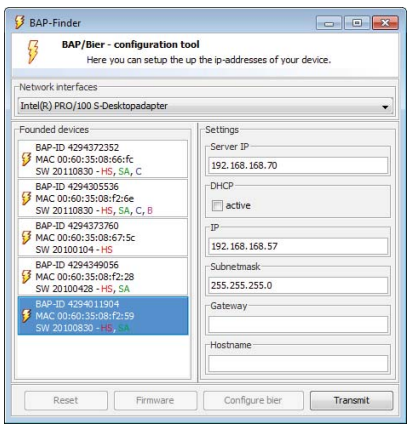
    a. After starting the software for the first time select „overview button“.

    b. Open „Info/License/Enter license key“ in the menu bar.

    c. Enter the supplied license key and confirm the entry with „OK“.

2. Settings BAP Finder

If the BAP-Finder is started (windows start menu: „All Programs/BSC/BAP-Finder/BAPFinder“) the following window appears:



The following settings can be made here:

1. Network interfaces:
   Make sure that the network card is chosen over which the BSC-BAP is connected with the computer.

2. Found BAPs:
   After a few seconds a BAP will be shown in the list.

3. BoSe-IP:
   This is the network address of which the FVS software is running. It can also be an address over the internet (e.g. the dynamic IP of a server which is far away).

4. DHCP:
   If this option is activated, an IP address will automatically be assigned for the BAP (recommended).

5. BAP-IP:
   If DHCP is not possible, an IP address has to be given here.

6. BAP subnet mask:
   If DHCP is not possible, an address has to be given here. Always 255.255.255.0 by default.

7. Gateway:
   A Gateway is a connection with other computers or the internet. The IP of the internet router is given here generally.

8. Host name:
   name of the BAP for identification.

3. Connect via internet router (recommended)

1. Connect the BSC-BAP with your internet router and connect the BSC-BAP with the power grid.
2. Pull out the red mounting link at the BSC-BAP to activate the battery of the device.
3. Make sure that the computer on which the FVS and the BAP-Finder is installed, is correctly connected with the internet router via network.
4. First of all check the IP address of the computer on which the FVS has been installed as follows:
    a. Click on the start button in windows and choose „Run“ or enter directly in the search field.
    b. Enter the command *cmd* and press enter to confirm. A window opens which is very similar to the former DOS programm.
    c. Enter directly the following command and press enter to confirm: *ipconfig*
    d. Note the IP address of the computer. It will be needed as BoSe-IP in the BAP-Finder.
5. Now start the BAP-Finder. It has to be opened in windows „ Start/All Programs/BAP-Finder/ BAPFinder “.
6. If the settings are correct a device will be shown after a few seconds in the list on the left side. This is the BSC-BAP.
7. Make the following settings. Enter the IP address, noted under 4d., under BoSe-IP.
8. Finish the setting with „Transmit“. The BSC-BAP will now be restarted with the new settings and is connected with your FVS software and ready to receive.

4. Connect via crossover cable (network cable)

1. Change the setting of the network card for the used cable connection in DHCP (obtain IP address automatically), if this is not done yet. The setting can be found in the system control in windows.
2. Pull out the red mounting link at the BSC-BAP to activate the battery of the device.
3. Connect the BSC-BAP via crossover cable with your computer and connect the BSC-BAP with the power grid afterwards.
4. Start the BAP-Finder now. In windows it has to be opened under “Start/All Programs/BAP-Finder/ BAPFinder“.
5. After a few seconds a device will be shown in the list on the left side. This is the BSC-BAP.
6. Make the following settings. Enter the desired IP address under BoSe-IP.
7. Finish the setting with „Transmit“. The BSC-BAP will now be restarted with the new settings and is connected with your FVS software and ready to receive.

5. Connection of the BSC-BAP via internet

There is the possibility of working with a FVS remote system via internet which is connected with the internet.

Prerequisite

1. The FVS-System which should receive the signals has to be properly prepared.
    a. Make sure that you have a static IP address.
        i. If you do not have a static IP address (the same address will always be used for the dial-in process), you have to apply for such an address with an internet operator.
    b. Change the router configuration (port forwarding rules, router rules or from the manufacturer of the router)
        i. The connection between the computer and the BSC-BAP exists per internet. Your router or its firewall will reject the request of the BSC-BAP if you do not forward the corresponding port(s) to the computer on which the Eltako FVS software is installed. There is the possibility to activate a port forwarding in every router (port forwarding).
        ii. Please determine the IP address of your FVS computer in the network before you customize the port forwarding. This information can always be determined directly on the PC or via webserver of the internet router.
        iii. Port forwarding: The ports 2100 and 2001 have to be released for the BSC-BAP.
        iv. For the port forwarding therefore enter the port like specified under **iii.** and the IP address under **ii.** and choose „Different application" if necessary.
2. Pull out the red mounting link at the BSC-BAP to activate the battery of the device.
3. Connect the BSC-BAP with your internet router and connect the BSC-BAP with the power grid afterwards.
4. Make sure that the computer on which the FVS and the BAP-Finder is installed, is correctly connected with the internet router via network.
5. Open the BAP-Finder like 2. settings of the BAP and make the settings for the network:
    a. Enter the static IP address of your system under BoSe-IP.
6. Finish the setting with „Transmit". The BSC-BAP will now be restarted with the new settings and is connected with your FVS software and ready to receive.

6. Definitions

IP address:
Every host in the internet/network has an unique address/number under which it can be reached by every host in the internet/network. This number is called IP address/number (according to the internet protocoll).
Like a telephone number this number has to be unique to reach the exact host. A IP number looks like that: 192.168.1.1.

Static IP address:
Frequently also called fixed IP address. This IP address will be applied for at an internet operater and effects that a computer or router registers himself with the same IP address at every internet dial-up. Therefore can always be reached with that address. This measure will only be used for computer with permanent connection to the internet (leased line).

Internet router:
This devices will generally be used if a host should connect to the internet by WLAN (wireless connection to the network/internet) or LAN (network connection by cable). Common brands are from D-Link (Horstbox) or from AVM (Fritzbox).

Port:
Exemplary spoken your network is a city wall with lots of ports (Ports) through which it can be entered and exited. The firewall is responsible for the administration of these ports (Ports). The firewall opens a port (Port), if an unquestionable inquiry is requested and closes it afterwards.

Router configuration:
Internet router have the possibility to change the settings, for example data of internet connections,
IP addresses and so on. In most cases this will be realized over a web server. Here you can choose an IP address in your internet browser and gets directly to the web interface of your router in this way.

Web server at your router:
This can distantly be recognized as an internet page. On this page settings can directly be changed at a device. It is standardly used for routers.

Firewall
It protects your computer/router against unauthorized access from the internet. It is the administrator of the ports.

Port forwarding:
A definite port will be opened for inquiries and forwarded to a definite computer in the network.

Crossover cable:
Refers to a cable which is suitable for direct connection of the PC. This is not included in the scope of delivery of the BSC-BAP.