

berofos and berorps Firmware update

To update the firmware for the berorps or berofos you will need the bntools which you can find on our website www.beronet.com/downloads . The bntools are available for windows or linux OS.

Installation of the bntools

For Windows OS:

Download either berorps.rar or berofos.rar and unrar it to your favorite folder

For Linux OS:

Download the bntools.tar.gz and untar the archive.

```
-tar -xzf bntools.tar.gz
```

After that go to the bntools folder and type make and make install. After that you will find a bnfos and a bnrps folder which contains the applications.

Prepare the device for accepting new firmware

before you are able to flash the firmware you have to bring the device into the flash mode. To do that press the select button of the berorps and keep it pressed while powering on the device . The Status LED is blinking to signal that the device is in flash Mode. The procedure on the berofos is similar. Press the small black button (on the left of the power button) and keep it pressed while powering on the device. The Flash mode is signalled by the blinking LED's of Port D.

Using bntools to update the firmware

To update the firmware you have to know the IP-Address and the MAC-Address of the device. bntools give you the possibility to do that on a easy way. Depending on which device you have use bnrps or bnfos. Please type „bnrps -scan“ to detect the device in the network:After that you will get the following output:

```
#1:
mac: 00:19:32:00:00:B4
bootloader: v2.2
firmware: v2.1
device mode: FLASH MODE

address: 172.20.5.24
netmask: 255.255.0.0
gateway: 172.20.0.1
phy conf: 0x03 (PROBE_10MBIT\ PROBE_100MBIT)
phy state: 0x01 (LINK_BEAT\ LINK_10MBIT)
options: 0x01 (OPT_DHCP)
http port: 80
```

In the Output you can see the IP-Address and the MAC Address of the device and if the state is in „flash mode“. To update the firmware type the following command where bnrps_v2114_1.bin is the name of the firmware file.

```
bnrps --flash bnrps_v2114_1.bin -h 172.20.5.24 -m 00:19:32:00:00:B4 .
```

After that you will get the following output:

```
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Flashing succeeded!
```

Reboot the device and check if the firmware version is correct