

Connecting the Parrot Bebop Drone to a Router (Multiple Bebop's)

Tobias Naegeli (tobias.naegeli@inf.ethz.ch)

Procedure:

The out of the box firmware blocks certain networking capabilities that are standard in most Linux distributions. The author believes this is due to Parrot's SkyController, and the fact that these tools would allow the user to replicate the functionality of the SkyController without buying it. To fix this do the following:

1. Connect to the Bebop drone over usb using the android debug tool. Therefore, wait until the drone booted and connect the drone to your computer and press the on/off button 4 times. To see if you have a connection type `ifconfig` into your terminal, you should see a new network interface called: `usb0`.
A good tool for file transfer is the android debugger (adb)
 - a. Install adb with the command:
`>> sudo apt-get install android-tools-adb`
 - b. Connect to the drone:
`>> adb connect 192.168.43.1:9050`
2. Edit the shell script `shortpress_3.sh` on your host pc.
Fill in the `ssid`, `password` of your network and the `ip` you want to have for the drone.
`>> . copy_files.sh`
3. You can test if everything works by restarting the drone, wait until it is finishing with booting and press the on/off button three times in a row, the Bebop will give a Beep feedback. After 10 to 30s the connection is established and you should be able to ping the drone.
4. Follow the readme file in the `ARDrone-wpa2` folder to switch the bebop to a secured network.