

Wireless Sync HOWTO

Using jpilot to sync your PalmOS device to your desktop across a wireless (802.11b) network.

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Revision History

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daemon mode correction
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CVS Test
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FGPL added, list of notes to booklet change begun
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This document explains how to perform a wireless, network sync between a Handspring Visor and **jpilot** or **jpilot-sync**. Although this concentrates on specific hardware, the techniques and information should translate to all similar devices.

This procedure has been tested on the Handspring Visor Deluxe. It *should* work on all PalmOS based devices as well.

1. Introduction

I had just acquired my 802.11b module for my Visor, and decided that I wanted to do away with the need for the cradle that would keep me locked to a desktop for syncing purposes. After all, the whole point of being wireless and handheld was to be mobile. After many hours of careful reading in entirely too many sources, I have distilled the necessary information into this short HOWTO. If at anytime you find

yourself going through the HOWTO and have to stop and lookup how to do something I have listed, please email that to me so I can add it and help the next person who reads this.

Also, please send me reports of success (and failures) of hardware devices other than those listed so that I may append it to this document.

2. Components Used & Required Software

2.1. The Hardware components used for this document are:

- Visor Handheld Deluxe (<http://www.handspring.com/products/visordeluxe/index.jhtml?>)
- Xircom SpringPort Wireless Ethernet Module (http://www.xircom.com/cda/page/0,1298,1-840-1_1-1633,00.html)
- EZ Connect 11 Mbps Wireless Access Point (<http://www.smc.com>)

2.2. Software required and version used

- RedHat 7.2 (<http://www.redhat.com>)
- jpilot-0.99.1pre (<http://www.jpilot.org>) with patch to correct **jpilot-sync** (<http://www.moongroup.com/archives/jpilot/2001-11/msg00082.html>)
- pilot-link 0.9.5-pre3 (<http://www.pilot-link.org>)
- PalmOS v. 3.1H2 (<http://www.handspring.com>)

3. Setup

3.1. Visor

3.1.1. Configure a new service to use for syncing.

Click **Prefs** on the Visor. In the upper right-hand corner is a drop down menu. Click and select **Network**. Click the main drop down menu by clicking the drop down icon in the lower left corner of the visor, next to the graffiti screen. From the menu that drops down, click **New** and configure a new service according to the following.

- Username

The username used to log onto the network.

- Password

The username used to log onto the network.

- Phone Number 00

This will tell the Visor to use a network connection.

- Connection Type PPP
- Query DNS should be checked
- IP Address

Automatic should be checked if DHCP is running.

3.1.2. Configure your Primary PC Setup to the workstation that will be running jpilot.

- Primary PC Name

This is the full network name of the workstation.

- Primary PC Address

The IP of the workstation. If using DHCP, it is a good idea to map the number to the MAC address of the NIC so the it will remain constant. This will save you from having to re-enter this info.

3.2. SpringPort Module

3.2.1. Configure Client Settings

- Client Name

Set to whatever you wish. This will be the name that the Visor announces to the network as it's own.

- Profile

The Xircom module supports 3 separate setups. Select one for use in your system.

- Network ID (SSID)

For maximum security, this should be a unique name shared among all the 802.11b devices that are attached to your network.

- Encryption

For maximum security, this should be enabled and set to the highest available that is supported by all the devices. Use the WAP to create the key to install to all the 802.11b devices that are attached to your network.

- MAC Address

Enter this into the MAC allowed list and re-enable MAC filtering.

Obtaining the MAC address on the Xircom Wireless Ethernet Module: The MAC address should be printed on the label that is sandwiched between the Visor and the module. If that is unreadable, it will have to be found out another way. The easiest way I have found to do this is to disable MAC filtering on the WAP, configure the above and connect. Clicking Status/IP Information will bring up a screen showing the MAC of the module.

3.2.2. Configure Network Settings

This is handled by the "Configure New Service" section above.

3.2.3. Configure HotSync Settings

This is handled by the "Configure New Service" section above.

3.2.4. Wireless Access Point

Setup your access point according to your manufacturer's directions. The following services are recommended:

- 128bit Encryption
- MAC Filtering

- Unique SSID enabled
- DHCP - Either from network or Access Point, but not both.

3.3. Software Configuration

3.3.1. jpilot

Run **jpilot** and set the following under File/Preferences/Settings.

- Serial Port .

For clarity, the setting is a single period. This will signify to underlying pilot-link subsystem to expect a network connection.

- Serial Rate

This can be put to the highest setting.

3.3.2. jpilot-sync

To configure **jpilot-sync**, configure **jpilot** as describe above, then exit.

Next, use the following command to run in a daemon-like mode.

```
jpilot-sync -l >& /dev/null &
```

Warning

Do not attempt to sync using **jpilot** while **jpilot-sync** is running by pressing Sync in **jpilot**. This may or may not work the first time, but will certainly crash both at the completion.

Note: You can run **jpilot** while **jpilot-sync** is running, and even edit/add entries or sync. Simply allow **jpilot-sync** to run in the background to pick up the sync request.

Alternatively, for a pure command-line approach, edit the `jpilot.rc` file and change port to `..` and rate to 10.

4. Operation

With all the above configured correctly, operation is quite simple. Click **HotSync** icon on the Visor, then click **ModemSync**. Allow the client to negotiate a connection with the network, then click **Sync** on **jpilot**.

5. License

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