



The wifiBSD project.

Goals of the project.

Create a complete router solution based on FreeBSD supporting both wired and wireless devices with following features:

Supported Platforms:

- Standard x86 hardware
- Embedded boards from soekris.com and openbrick.org

Supported Interfaces:

- Wireless Network Interfaces listed on <http://www.freebsd.org/releases/5.3R/hardware-i386.html#WLAN>
- Ethernet Interfaces listed on <http://www.freebsd.org/releases/5.3R/hardware-i386.html#ETHERNET>

Virtual Private Networking:

- PPPoE (with RADIUS server support)
- PPTP (with RADIUS server support)
- IPsec
- 802.1Q VLAN

High Availability:

- VRRP (Virtual Router Redundancy Protocol)

IP Addressing and Routing:

- Support for both IPv4 and IPv6.
- IP Addresses and ARP
- Static Routes
- Equal Cost Multipath Routing
- Policy Routing
- OSPF Open Shortest Path First Protocol
- RIP Router Information Protocol
- BGP Border Gateway Protocol

Packet Filtering and Quality of Service:

- PF - Packet Filter
- ALTQ - Alternate queuing of network packets

- NAT/PAT (including 1:1)

Remote Administration:

- Web interface
- Serial console
- GUI configuration tool
- SSH and Telnet server.
- FTP server for software upgrades

System Utilities:

- Package Management (each package includes sets of new features in addition to the core system)
- Firmware upgrade
- Configuration backup/restore

Network Services:

- NTP (Network Time Protocol)
- DNS and DHCP server.
- DHCP client
- Caching DNS forwarder
- DynDNS client
- SNMP agent
- Web Proxy
- SOCKS Proxy Server
- UPnP

Methods of running/installation:

- Run wifiBSD from LiveCD
- Run wifiBSD from an USB stick (USB 2.0 only)
- Install wifiBSD from bootable CD
- Install wifiBSD from an image file to CF cards or USB memory sticks