

Linux on Linksys Routers

Jeff Muse
St. Louis Unix Users Group
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Why Hack Your Linksys?

- You might like a command-line interface on your router
 - You want/need added functionality, such as asterisk, hotspots, SMB clients, or wireless IDS.
 - You want a better GUI
 - It adds to your geek cred

A Bit of History

- Linksys originally based their firmware on Linux – the GPL required they release their code.
- Later versions used vxworks, an embedded system from Wind River not covered by the GPL. Using vxworks allowed Linksys to include less flash and RAM.

What Hardware Do I Need?

- A Linksys or similar wireless router
- There are many Linksys versions – be careful which version you get. See the Wikipedia or OpenWRT pages so you get one which has enough power. Avoid those with limited flash and/or RAM, or plan on running “micro” firmware.
- There are versions specifically aimed at third party firmware, including WRT54GL and Netgear KWGR614

What 3rd-Party Firmware is Available?

- Sveasoft – subscription only, possibly in violation of the GPL due to redistributing OpenWRT binaries without releasing code. Originally based on Linksys firmware – one of the first 3rd-party firmware distributors.
- Dd-wrt – based on Sveasoft's modifications of Linksys firmware. Pure GPL.
- OpenWRT – complete “from-scratch” firmware entirely under the GPL
- Tomato – includes proprietary Broadcom code and non-GPL code for the ajax-based user interface

How Do I Decide What Firmware to Use?

- Read the feature lists!
- Verify that your router has enough flash and RAM for the firmware you'd like to run (you'll probably need to check the serial number against the docs)

How Do I Install New Firmware?

- Upload a new image. Depending your current firmware, you could use the web GUI, TFTP, or (if you're already running 3rd-party firmware) the command line. See the docs for your new firmware and hardware.
 - Use a wired connection
- The router's IP address will be reset to 192.168.1.1 when the new firmware is loaded
- Don't interrupt the upload – go make some coffee while it's running!

What If I Brick My Router?

- Like everything else, this is dependent on what hardware you have and exactly how your router is broken.
- In general, holding the reset button, unplugging the router while still holding the reset button, plugging in again, and releasing the reset button is a good place to start. This will reset the firmware to defaults, but will not restore prior firmware versions.

What If I Brick My Router? (continued)

- If you have boot_wait enabled in nvram, you might be able to reflash via TFTP
- The dd-wrt wiki has lots of documentation about recovering from a bad flash.

OpenWrt Admin Console

»Router Info« About

Router Info



WHITE RUSSIAN (RC6) -----
* 2 oz Vodka Mix the Vodka and Kahlua together
* 1 oz Kahlua over ice, then float the cream or
* 1/2oz cream milk on the top.

Firmware Version WHITE RUSSIAN (RC6)

Kernel Version Linux version 2.4.30 (mbm@reboot) (gcc version 3.4.4 (OpenWrt-1.0)) #1 Mon Nov 6 17:35:21
PST 2006

Current Date/Time Sat Jan 1 00:03:34 UTC 2000

MAC Address 00:14:BF:77:88:66

OpenWrt Admin Console

»Settings« Password Change Installed Software Firmware Upgrade

System Settings

System Settings

Host Name

boot_wait

Language

OpenWrt Admin Console

»LAN« WAN Wireless Advanced Wireless Hosts

LAN Configuration

LAN Configuration

IP Address

10.0.3.1

Netmask

255.255.255.0

Default Gateway

DNS Servers

192.168.1.1

Add

Note:

You need save your settings on this page before adding/removing DNS servers

Save Changes

Apply Changes <
Clear Changes <

Installing Webif2

```
BusyBox v1.2.1 (2006.12.10-00:34+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

-----| .----|-----|-----| | | | | .----| | |
| - | | - | | - | | | | | | | | | | | |
|-----| | | | | | | | | | | | | | | | |
          | W I R E L E S S   F R E E D O M
WHITE RUSSIAN (0.9) -----
* 2 oz Vodka   Mix the Vodka and Kahlua together
* 1 oz Kahlua  over ice, then float the cream or
* 1/2oz cream   milk on the top.
-----
root@Quantumbase:~$ cd /
root@Quantumbase:/$ ipkg install http://ftp.berlios.de/pub/xwrt/webif_latest.ipk
Downloading http://ftp.berlios.de/pub/xwrt/webif_latest.ipk
Installing webif (0.3-5) to root...
Configuring webif
Device: Linksys WRT54G/GS/GL
Committing new device id ...
Committing new firmware id ...
SUCCESS! Webif^2 installation appears OK. Welcome to X-Wrt!
You may need to do a hard REFRESH to clear old CSS style from your browser.
Successfully terminated.
root@Quantumbase:/$ [ ]
```



System Information



Firmware OpenWrt White Russian - With X-Wrt Extensions 0.9
Kernel Linux 2.4.30 #1 Wed Aug 8 08:21:33 CDT 2007
MAC 00:17:31:DC:07:48
Device ASUS WL-500g Premium
Board Broadcom BCM947XX
Username admin

Web mgt. console Webif²

Version r3630

[Check For Webif² Update](#)

Include daily builds when checking for update to webif²

You can find more information about Webif², contribute to the project or help other users by following these links:

[X-Wrt](#) | [Forum](#) | [Wiki](#) | [Trac](#)

Info Graphs Status Log - System Network HotSpot Freeloader VPN - Logout

System Modules Processes Interfaces Wireless UMTS DHCP Clients Netstat Iptables QoS USB PPPoE PPTP Asterisk OpenVPN Diagnostics

Kernel Modules



Loaded Modules

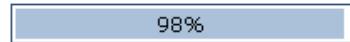
Module	Size	Count Used by
arc4	528	0 (unused)
cls_fw	2888	4
diag	19808	0 (unused)
ehci-hcd	20556	0 (unused)
ext3	72788	2
fat	36840	0 [vfat]
ip_conntrack_ftp	4320	1
ip_conntrack irc	3128	1
ip_conntrack_tftp	1728	1
ip_nat_ftp	2960	0 (unused)
ip_nat irc	2336	0 (unused)
ip_nat_tftp	1824	0 (unused)
ip_queue	6224	0 (unused)
ipt_CONNMARK	816	2
ipt_IMQ	672	1
ipt_LOG	3888	0
ipt_MIRROR	1296	0 (unused)
ipt_REDIRECT	640	0 (unused)
ipt_TARPIT	2240	0
ipt_ipp2p	7320	1
ipt_layer7	10512	2
ipt_length	336	5
ipt_recent	8208	0
jbd	54872	2 [ext3]
loop	11112	0 (unused)
nls_cp1250	3680	0 (unused)
nls_iso8859-2	3184	0 (unused)
nls_utf8	688	0 (unused)
ppp_async	8108	0 (unused)
ppp_generic	22868	0 [ppp_async]
printer	9788	0 (unused)
sch_hfsc	15960	1
sch_red	3216	2
sch_sfq	3912	2
scsi_mod	70616	2 [ibus-storage sd_mod]



Device Status

RAM Usage

Total: 30516 KiB



Used: 29796 KiB (98%)

Swap: 65528 KiB



Used: 48 KiB (1%)

RAM Usage:

This is the current RAM usage. The amount free represents how much applications have available.

Swap:

When a program requires more memory than is physically available in the computer, currently unused information can be written to a temporary buffer on the hard disk, called swap, thereby freeing memory.

Tracked Connections

Maximum: 5953



Used: 26 (1%)

Tracked Connections:

This is the number of connections in your router's conntrack table. [View Conntrack Table](#).

Mount Usage

/tmp

none

0%

52KiB of 15256KiB

/oldroot/jffs

/dev/mtdblock/4

78%

4268KiB of 5440KiB

/oldroot

/jffs

100%

1920KiB of 1920KiB

/

/dev/scsi/host0/bus0/target0/lun0/part2

5%

51228KiB of 1044156KiB

/mnt/disc0_1

/dev/scsi/host0/bus0/target0/lun0/part1

60%

4854520KiB of 8507800KiB

swap partition -1

/dev/scsi/host0/bus0/target0/lun0/part4

1%

48KiB of 65528KiB

Mount Usage:

This is the amount of space total and used on the filesystems mounted to your router.

Info Graphs Status Log - System Network HotSpot Freeloader VPN - Logout

System Modules Processes Interfaces Wireless UMTS DHCP Clients Netstat Iptables QoS USB PPPoE PPTP Asterisk OpenVPN Diagnostics

Running Processes



Interval: 20 (in seconds)

For more information about fields [see the legend...](#)

Processes Status

PID	Uid	VmSize	Stat	Command
1	root	364 S	S	/bin/busybox init
2	root	SW	[keventd]	
3	root	RWN	[ksoftirqd_CPU0]	
4	root	SW	[kswapd]	
5	root	SW	[bdflush]	
6	root	SW	[kupdated]	
9	root	SW	[mtdblockd]	
72	root	SWN	[jffs2_gcd_mtd4]	
91	root	SW	[khubd]	
191	root	SW	[usb-storage-0]	
192	root	SW	[scsi_eh_0]	
216	root	SW	[kjournald]	
220	root	SW	[kjournald]	
289	root	372 S	logger -s -p 6 -t	
291	root	364 S	S	/bin/busybox init
293	root	340 S	S	klogd
314	root	400 S	S	/sbin/syslogd -C16 -m 30 -L -R 192.168.96.2:514
920	root	324 S	S	wifi up
1088	root	476 S	S	/usr/sbin/nas -P /var/run/nas.lan.pid -H 34954 -i eth2 -A -m 132 -k heslo -s XWrt -w 4 -g 3600
1105	root	400 S	S	/usr/sbin/dropbear
1130	root	396 S	S	httpd -p 80 -h /www -r XWrt
1377	root	380 S	S	/usr/sbin/crond
1492	root	416 S	S	udhcpc -i wlan1 -b -p /var/run/wlan1.pid -H XWrt -R dnsmasq -l /tmp/dhcp.leases -K -F lan,192.168.96.3,192.168.96.253,255.255.255.255.0,1441m -F wifi,192.168.97.2,192.168.97.253,255.255.255.0,720m -X 86400 -Z
1521	root	276 S	S	ntpclient -i 86400 -h cz.pool.ntp.org
1617	root	372 S	S	/usr/bin/xrelayd -A /etc/ssl/webiftunnel.cert -p /etc/ssl/webiftunnel.key -d 443 -r 127.0.0.1 80 -D 7 -P /var/run/webifssl.pid
1632	root	308 S	S	vsftpd
22108	root	324 S	S	/usr/sbin/ez-ipupdate -D -d -F /var/run/ez-ipupdate.pid -c /etc/ez-ipupdate/ez-ipupdate.conf -b /etc/ez-ipupdate/ez-ipupdate.cache -i wlan1 -e /etc/ez-ipupdate/ez-ipupdate-ok.sh
31280	root	584 S	S	/usr/sbin/dropbear

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ip_conntrack_tftp	1728	1
ip_nat_ftp	2960	0 (unused)
ip_nat irc	2336	0 (unused)
ip_nat_tftp	1824	0 (unused)
ip_queue	6224	0 (unused)
ipt_CONNMARK	816	2
ipt_IMQ	672	1
ipt_LOG	3888	0
ipt_MIRROR	1296	0 (unused)
ipt_REDIRECT	640	0 (unused)
ipt_TARPIT	2240	0
ipt_ipp2p	7320	1
ipt_layer7	10512	2
ipt_length	336	5
ipt_recent	8208	0
jbd	54872	2 [ext3]
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nls_cp1250	3680	0 (unused)
nls_iso8859-2	3184	0 (unused)
nls_utf8	688	0 (unused)
ppp_async	8108	0 (unused)
ppp_generic	22868	0 [ppp_async]
printer	9788	0 (unused)
sch_hfsc	15960	1
sch_red	3216	2
sch_sfq	3912	2
scsi_mod	70616	2 [ibus-storage sd_mod]

Info Graphs Status Log - System Network HotSpot Freeloader VPN - Logout

Settings Startup Cron Crontabs NVRAM File Editor Password Packages SNMP Backup & Restore Upgrade Reboot

Backup and Restore



Backup Configuration

Backup Name

XWrt

Backup Name:

You can add a descriptive name to your configuration to better distinguish between several backups. The time of the backup is automatically included.

Restore Configuration

Backup File

 Procházej...**Backup File:**

Browse for the requested backup archive (config[-datetime].tgz) to restore the configuration from.

Backup Flash Partitions

Select Partition

- cfe (256 KiB)
 - linux [kernel, squashfs, jffs2] (7872 KiB)
 - rootfs [squashfs] (1927 KiB)
 - nvram (64 KiB)
 - OpenWrt [jffs2] (5440 KiB)
- 21180 KiB

Free Memory

Select Partition:

You can selectively backup the particular flash memory partition. You need *cfe*, *linux*, and *nvram* for the full backup, although you can select any other partition.

Free Memory:

It requires a big amount of the free memory to back up the *linux*, *rootfs* and *jffs* partitions. You will probably need to stop unnecessary services before the backup if there is not enough free memory.

Firmware Upgrade



Turn 'boot wait' ON:

Erase JFFS2 partition:

Firmware image:

Procházej...

[Upgrade](#)

Turn boot wait on:

This option will cause boot_wait to be set prior to flashing the firmware image. When boot_wait is set most units will wait a few seconds at boot-up to see if anyone sends them a new firmware image via TFTP. This is useful in case the firmware upgrade flash corrupts your router's firmware.

Erase JFFS2:

This option is only useful when flashing a third-party firmware. Always select it when doing so. When upgrading to a new OpenWrt image, the JFFS2 partition is always erased.

Firmware Image:

You can choose any compatible BIN or TRX image.

NVRAM



Add System Setting

New Variable Name

Add new variable

Add System Setting:

Enter the name of the new variable into the input box. The value cannot contain spaces, the single quote ' (apostrophe) and quotes " symbols.

General System Settings:

General System Settings are stored in the NVRAM. NVRAM stands for Non-Volatile RAM, in this case the last 64K of the flash chip used to store various configuration information in a name=value format.

General System Settings

Warning: Changing these settings may result in permanent damage to your device.
Changes will not take effect until you choose: "Apply Changes".

Change Variable	Current Value	Action	Nr.
boardflags	0x0110	Delete	1
boardnum	45	Delete	2
boardrev	0x10	Delete	3
boardtype	0x042f	Delete	4
boot_wait	on	Delete	5
bridge_disable	0	Delete	6
cfe_wait_led_gpio	1	Delete	7
cfe_wait_on_restore	0	Delete	8
clkfreq	264	Delete	9
cron_enable	1	Delete	10
custom_shutdown_command	stoprcasus	Delete	11
ddns_enable	1	Delete	12
ddns_hostname	test.dyndns.org	Delete	13
ddns_max_interval	2196000	Delete	14
ddns_passwd	test	Delete	15
ddns_service_type	dyndns	Delete	16
ddns_username	test	Delete	17
ddns_wildcard	0	Delete	18



Packages



Add Repository

Repo. Name

Repo. URL

Add Repository

Current Repositories:

[remove](#) 0.9-backports
[remove](#) whiterussian
[remove](#) non-free
[remove](#) local
[remove](#) X-Wrt

<http://downloads.openwrt.org/backports/0.9>
<http://downloads.openwrt.org/whiterussian/packages>
<http://downloads.openwrt.org/whiterussian/packages/non-free>
<http://192.168.96.2/xwrt/packages>
<http://download2.berlios.de/pub/xwrt/packages>

Add Repository:

A repository is a server that contains a list of packages that can be installed on your OpenWrt device. Adding a new one allows you to list packages here that are not shown by default.

Backports Tip:

For a much larger assortment of packages, see if there is a backports repository available for your firmware.

Install Package From URL

URL of Package

Install Package From URL

Install Package:

Normally one installs a package by clicking on the install link in the list of packages below. However, you can install a package not listed in the known repositories here.

Packages Available

Update package lists

Installed Packages

Action	Package	Version	Description
Uninstall	base-files	10	OpenWrt filesystem structure and scripts
Uninstall	base-files-brcm	2	Board/architecture specific files
Uninstall	bc	1.06-1	Arbitrary precision calculator language
Uninstall	bridge	1.0.6-1	Ethernet bridging tools
Uninstall	busybox	1.4.2-1	Core utilities for embedded Linux systems
Uninstall	ctorrent	dnh3.2-2	



Interfaces

WAN

MAC Address	00:17:31:00:17:31
IP Address	192.168.0.239
DNS Server 1	192.168.0.1
DNS Server 2	192.168.0.3
Received	20.48k pkts (2.4 MiB)
Transmitted	4.28k pkts (808.1 KiB)
Duration	17:46:47

WAN:

WAN stands for Wide Area Network and is usually the upstream connection to the internet.

Duration:

The field displays the time of the connection in case the time was known shortly after establishing the link (+/- several seconds).

LAN

MAC Address	00:17:31:00:17:31
IP Address	192.168.96.1
Received	32.74k pkts (1.5 MiB)
Transmitted	57.17k pkts (7.4 MiB)

LAN:

LAN stands for Local Area Network.

WLAN

Access Point	00:17:31:00:17:31
Mode	Master
ESSID	XWrt
Frequency	2.472 GHz
Transmit Power	2 dBm
Noise Level	dBm
Encryption Key	7FF1-5BF8-58C2-67B2-DB47-8374-49AC-DBDE [3]

WLAN:

WLAN stands for Wireless Local Area Network.

Raw Information

Show raw statistics



Configured Hosts

Host Names

IP Address	Host Name	
127.0.0.1	localhost	Remove
192.168.96.1	XWrt	Remove
192.168.96.2	lubek	Remove
192.168.96.16	lubek.we.net	Remove
192.168.96.16	test	Remove
192.168.96.17	test	Remove
192.168.96.17	test2	Remove
192.168.96.17	test4	Remove

Host Names:

The file /etc/hosts is used to look up the IP address of a device connected to a computer network. The hosts file describes a many-to-one mapping of device names to IP addresses. When accessing a device by name, the networking system attempts to locate the name within the hosts file before accessing the Internet domain name system.

Static IP addresses (for DHCP)

MAC Address	IP Address	
00:E0:7D:00:E0:7D	192.168.96.2	Remove
FF:E0:7D:8C:E0:7D	192.168.96.16	Remove
FF:E0:7D:8C:7D:8C	192.168.96.17	Remove
F1:E0:7D:8C:E0:7D	192.168.96.255	Remove

Static IP addresses:

The file /etc/ethers contains database information regarding known 48-bit ethernet addresses of hosts on an Internetwork. The DHCP server uses the matching IP address instead of allocating a new one from the pool for any MAC address listed in this file.

Active DHCP Leases

MAC Address	IP Address	Name	Expires in
00:18:84:29:1e:29	192.168.97.86	fonka	11h 59min 1sec

[Save Changes](#)

Info Graphs Status Log

- System Network HotSpot Freeloader VPN - Logout

WAN-LAN WIFI-LAN VLAN Wireless Advanced Wireless Firewall DHCP Dnsmasq Hosts Routes UPnP QoS DynDNS WoL Tweaks



WAN-LAN Configuration

WAN Configuration

Connection Type

DHCP

[more...](#)

IP Settings

WAN IP Address

Netmask

WAN IP Settings:

IP Settings are optional for DHCP and PPTP. They are used as defaults in case the DHCP server is unavailable.

OpenDNS Service

Utilize OpenDNS

Yes No

OpenDNS:

Enabling use of OpenDNS means that instead of your ISP's DNS servers your router will utilize the OpenDNS service for name resolution.

[more...](#)

LAN Configuration

LAN IP Address

192.168.96.1

IP Address:

This is the address you want this device to have on your LAN.

Netmask

255.255.255.0

Netmask:

This bitmask indicates what addresses are included in your LAN.

Default Gateway

LAN DNS Servers

192.168.96.1

Add

Note:

You need save your settings on this page before adding/removing DNS servers



Wireless Configuration

Wireless Configuration

Wireless Interface	Enabled <input type="button" value=""/>
ESSID Broadcast	Show <input type="button" value=""/>
ESSID	X-Wrt
Channel	13 <input type="button" value=""/>
Mode	Access Point <input type="button" value=""/>
Wireless Mode	802.11g <input type="button" value=""/>
G-mode Protection	Disabled <input type="button" value=""/>

WLAN Mode:

This sets the operation mode of your wireless network. Selecting 'Client (Bridge)' will not change your network interface settings. It will only set some parameters in the wireless driver that allow for limited bridging of the interface.

G-mode Protection:

Set this in a mixed network when some stations can not hear.

[more...](#)

Encryption Settings

Encryption Type	WPA (PSK) <input type="button" value=""/>
WPA Mode	<input checked="" type="checkbox"/> WPA1 <input checked="" type="checkbox"/> WPA2
WPA Algorithms	<input checked="" type="checkbox"/> RC4 (TKIP) <input checked="" type="checkbox"/> AES
WPA PSK	<input type="password" value="XXXXXXXX"/>
NAS Package	Installed.

Encryption Type:

WPA (RADIUS) is only supported in Access Point mode. WPA (PSK) does not work in Ad-Hoc mode. WEP keys can not end with a zero.

X-Wrt

End user extensions for OpenWrt

[Apply Changes <](#) [Clear Changes <](#) [Review Changes <](#)



Wireless Bridge Configuration

Enable/Disable Unbridged Wireless

Split WLAN From Switch Bridge Enable ▾

Enable/Disable:

When this is enabled it will remove your wireless interface from the bridge with your switch and put it in its own bridge on a separate subnet.

Wireless LAN Configuration

IP Address
Netmask
Default Gateway
Wifi to LAN Communication Allow Deny

IP Address:

This is the address you want this device to have on your Wireless LAN.

Netmask:

This bitmask indicates what addresses are included in your Wireless LAN. For those who don't know what a bitmask is, just think of "255" as 'match this part' and "0" as 'any number here'.

Wifi to LAN Communication:

Allows or denies communication from devices connected to wireless to send traffic to devices on the LAN.

DNS Servers

Note:

You need save your settings on this page before adding/removing DNS servers

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Diagnostics



Network Utilities

Please wait for output of "ping -c 4 google.com" ...

```
PING google.com (72.14.207.99): 56 data bytes
64 bytes from 72.14.207.99: icmp_seq=0 ttl=241 time=128.1 ms
64 bytes from 72.14.207.99: icmp_seq=1 ttl=241 time=114.9 ms
64 bytes from 72.14.207.99: icmp_seq=2 ttl=241 time=153.9 ms
64 bytes from 72.14.207.99: icmp_seq=3 ttl=241 time=122.8 ms
```

```
--- google.com ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 114.9/129.9/153.9 ms
```

And on to dd-wrt!

```
jeff@brubeck: ~
File Edit View Terminal Tabs Help
Release: 09/15/06 (SVN revision: 3932)
root@jubal's password:
Permission denied, please try again.
root@jubal's password:
=====
[REDACTED]
=====
DD-WRT v23 SP2
http://www.dd-wrt.com
=====
DD-WRT VeryBusyBox v1.2.1 (2006.09.15-18:06+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

~ # uname -a
Linux jubal 2.4.34-pre2 #170 Fri Sep 15 20:10:21 CEST 2006 mips unknown
~ #
```

jeff@brubeck: ~

```
File Edit View Terminal Tabs Help
~ # cat /proc/cpuinfo
system type          : Broadcom BCM4712 chip rev 2
processor             : 0
cpu model             : BCM3302 V0.7
BogoMIPS              : 215.44
wait instruction      : no
microsecond timers    : yes
tlb_entries           : 32
extra interrupt vector: no
hardware watchpoint   : no
VCED exceptions       : not available
VCEI exceptions       : not available
~ #
```

```
jeff@brubeck: ~
File Edit View Terminal Tabs Help
~ # cat /proc/meminfo
      total:    used:    free: shared: buffers:  cached:
Mem:   31113216 12230656 18882560          0 1466368 4468736
Swap:      0      0      0
MemTotal: 30384 kB
MemFree: 18440 kB
MemShared: 0 kB
Buffers: 1432 kB
Cached: 4364 kB
SwapCached: 0 kB
Active: 3496 kB
Inactive: 2328 kB
HighTotal: 0 kB
HighFree: 0 kB
LowTotal: 30384 kB
LowFree: 18440 kB
SwapTotal: 0 kB
SwapFree: 0 kB
~ #
```

jeff@brubeck: ~

```
File Edit View Terminal Tabs Help
~ # ps
  PID  Uid      VmSize Stat Command
    1 root      384 S   /sbin/init noinitrd
    2 root      SW   [keventd]
    3 root      SWN  [ksoftirqd_CPU0]
    4 root      SW   [kswapd]
    5 root      SW   [bdflush]
    6 root      SW   [kupdated]
   11 root      SW   [mtdblockd]
   14 root      256 S   /sbin/watchdog
   47 root      SWN  [jffs2_gcd_mtd4]
   67 root      304 S   resetbutton
  104 root      956 S   httpd -S
  108 root      460 S   nas -P /tmp/nas.wl0lan.pid -H 34954 -l br0 -i eth1 -A
  112 root      296 S   /sbin/wland
  158 root      468 S   dropbear -b /tmp/loginprompt -r /tmp/root/.ssh/ssh_ho
  188 root      352 S   process_monitor
  231 root      276 S   /usr/sbin/cron
  386 root      412 S   /sbin/syslogd -L
  388 root      404 S   /sbin/klogd
 19407 root     728 R   dropbear -b /tmp/loginprompt -r /tmp/root/.ssh/ssh_ho
 19411 root     588 S   -sh
 19537 root     404 R   ps
~ #
```

jeff@brubeck: ~

```
File Edit View Terminal Tabs Help
~ # brctl show
bridge name      bridge id          STP enabled    interfaces
br0              8000.001310996f60    no            vlan0
                                         eth1

~ # ifconfig vlan0
vlan0      Link encap:Ethernet  HWaddr 00:13:10:99:6F:60
           UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
           RX packets:2475688 errors:0 dropped:0 overruns:0 frame:0
           TX packets:1495998 errors:0 dropped:0 overruns:0 carrier:0
           collisions:0 txqueuelen:0
           RX bytes:3393227705 (3.1 GiB)  TX bytes:152486486 (145.4 MiB)

~ # ifconfig eth1
eth1      Link encap:Ethernet  HWaddr 00:13:10:99:6F:62
           UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
           RX packets:1402052 errors:0 dropped:0 overruns:0 frame:1061941
           TX packets:2398280 errors:247379 dropped:0 overruns:0 carrier:0
           collisions:0 txqueuelen:1000
           RX bytes:115999873 (110.6 MiB)  TX bytes:3428830864 (3.1 GiB)
           Interrupt:4 Base address:0x1000

~ #
```

jeff@brubeck: ~

File Edit View Terminal Tabs Help

```
~ # df -h
Filesystem      Size  Used Available Use% Mounted on
/dev/root        2.8M  2.8M       0 100% /
/dev/mtdblock/4  4.3M  1.1M      3.2M  25% /jffs
~ #
```

DD-WRT CONTROL PANEL

Time: 03:10:41 up 9 days, 3:10, load average: 0.21, 0.09, 0.01
WAN IP: 192.168.3.2

[Setup](#)[Wireless](#)[Security](#)[Access Restrictions](#)[Applications & Gaming](#)[Administration](#)[Status](#)

System Information

Router

Router Name	WRT54GS
Router Model	Linksys WRT54G/G/L/G/S
LAN MAC	00:13:10:99:6F:60
WAN MAC	00:13:10:99:6F:61
Wireless MAC	00:13:10:99:6F:62
WAN IP	192.168.3.2
LAN IP	192.168.3.2

Services

DHCP Server	Disabled
WRT-radauth	Disabled
WRT-rflow	Disabled
MAC-upd	Disabled
Samba Mount	Disabled
Sputnik Agent	Disabled

Wireless

Radio	Radio is On
Mode	AP
Network	G-Only
SSID	jamplace
Channel	1
Xmit	28 mW
Rate	36 Mbps

Memory

Total Available	29.7 MB / 32.0 MB
Free	18.4 MB / 29.7 MB
Used	11.3 MB / 29.7 MB
Buffers	1.4 MB / 11.3 MB
Cached	4.3 MB / 11.3 MB
Active	3.5 MB / 11.3 MB
Inactive	2.3 MB / 11.3 MB

Wireless Packet Info

Received (RX)	1797289 OK, no error
Transmitted (TX)	2919192 OK, 247402 errors

Wireless

Clients

MAC Address	Signal	Noise	SNR	Signal Quality
xx:xx:xx:xx:BB:D6	-82	-98	16	<div style="width: 14%; background-color: #555; height: 10px;"></div> 14%
xx:xx:xx:xx:B3:EE	-19	-98	79	<div style="width: 92%; background-color: #0070C0; height: 10px;"></div> 92%

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std
Time: 03:12:41 up 9 days, 3:12, load average: 0.29, 0.13, 0.03
WAN IP: 192.168.3.2

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Basic Setup DDNS MAC Address Clone Advanced Routing VLANs

Internet Setup

Help more...

Internet Connection Type

Connection Type: Static IP

Internet IP Address: 192.168.3.2

Subnet Mask: 255.255.255.0

Gateway: 192.168.3.1

Static DNS 1: 192.168.1.14

Static DNS 2: 0.0.0.0

Static DNS 3: 0.0.0.0

STP: Enable Disable (disable for COMCAST ISP)

Automatic Configuration - DHCP:

This setting is most commonly used by Cable operators.

Host Name:

Enter the host name provided by your ISP.

Domain Name:

Enter the domain name provided by your ISP.

Local IP Address:

This is the address of the router.

Subnet Mask:

This is the subnet mask of the router.

DHCP Server:

Allows the router to manage your IP addresses.

Start IP Address:

The address you would like to start with.

Maximum DHCP Users:

You may limit the number of addresses your router hands out.

Time Settings:

Choose the time zone you are in and Summer Time (DST) period. The router can use local time or UTC time.

Optional Settings (required by some ISPs)

Router Name: WRT54GS

Host Name: jubal

Domain Name: unixrus.net

MTU: Auto 1500

Network Setup

Router IP

Local IP Address: 192.168.3.2

Subnet Mask: 255.255.255.0

Gateway: 192.168.3.1

Local DNS: 192.168.1.11

Network Address Server Settings (DHCP)

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std

Time: 03:13:21 up 9 days, 3:13, load average: 0.21, 0.13, 0.03

WAN IP: 192.168.3.2

Setup

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Basic Settings

Radius

Wireless Security

MAC Filter

Advanced Settings

WDS

Wireless

Help

more...

Basic Settings

Wireless Mode

AP

Wireless Network Mode

G-Only

Wireless Network Name (SSID)

jamplace

Wireless Channel

1 - 2.412 GHz

Wireless SSID Broadcast

Enable Disable

Sensitivity Range (ACK Timing)

2000

(Default: 2000 meters)

Wireless Network Mode:

If you wish to exclude Wireless-G clients, choose *B-Only* mode. If you would like to disable wireless access, choose *Disable*.

Sensitivity Range:

Adjusts the ack timing. 0 disables ack timing completely.

Save Settings

Cancel Changes

WRT54GS - Wireless - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://192.168.3.2/Wireless_Basic.asp

Most Visited Getting Started Latest BBC Headli... Add to Bookmarks url

Proxy: Home-wireless Apply Edit Remove Add Status: Using Home-wireless Preferences

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std
Time: 04:03:01 up 9 days, 4:03, load average: 0.10, 0.06, 0.04
WAN IP: 192.168.3.2

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Basic Settings Radius Wireless Security MAC Filter Advanced Settings WDS

Wireless Help more...

Basic Settings

Wireless Mode: AP (dropdown menu open)
AP
Client
Client Bridge
Adhoc

Wireless Network Mode: 1 - 2.412 GHz (dropdown menu open)

Wireless Network Name (SSID):

Wireless Channel:

Wireless SSID Broadcast: Enable Disable

Sensitivity Range (ACK Timing): 2000 (Default: 2000 meters)

Wireless Network Mode:
If you wish to exclude Wireless-G clients, choose *B-Only* mode. If you would like to disable wireless access, choose *Disable*.

Sensitivity Range:
Adjusts the ack timing. 0 disables ack timing completely.

Save Settings Cancel Changes

Done 192.168.3.2 S Proxy: Home-wireless Now: Cloudy, 79° F || Wed: 92° F || Thu: 85° F



Firmware: DD-WRT v23 SP2 (09/15/06) std

Time: 03:14:11 up 9 days, 3:14, load average: 0.31, 0.15, 0.04

WAN IP: 192.168.3.2

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Wireless Security

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Advanced Settings

WDS

Wireless Security

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more...

Wireless Encryption

Security Mode

WPA2 RADIUS Mixed



- Disabled
- WPA Pre-Shared Key
- WPA RADIUS
- WPA2 Pre-Shared Key Only
- WPA2 RADIUS Only
- WPA2 Pre-Shared Key Mixed
- WPA2 RADIUS Mixed
- RADIUS
- WEP

(Default: 1812)

Unmask

WPA Algorithms

RADIUS Server Address

RADIUS Server Port

WPA Shared Key

Key Renewal Interval (in seconds)

Save Settings

Cancel Changes

DD-WRT CONTROL PANEL

Time: 03:14:59 up 9 days, 3:15, load average: 0.30, 0.16, 0.05

WAN IP: 192.168.3.2

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Advanced Wireless Settings

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Advanced Settings

Authentication Type	<input checked="" type="radio"/> Auto <input type="radio"/> Shared Key	(Default: Auto)
Basic Rate	Default <input type="button" value="▼"/>	(Default: Default)
Transmission Rate	Auto <input type="button" value="▼"/>	(Default: Auto)
CTS Protection Mode	<input type="radio"/> Auto <input checked="" type="radio"/> Disable	(Default: Disable)
Frame Burst	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	(Default: Disable)
Beacon Interval	100 <input type="text"/>	(Default: 100ms, Range: 1 - 65535)
DTIM Interval	1 <input type="text"/>	(Default: 1, Range: 1 - 255)
Fragmentation Threshold	2346 <input type="text"/>	(Default: 2346, Range: 256 - 2346)
RTS Threshold	2347 <input type="text"/>	(Default: 2347, Range: 0 - 2347)
Max Associated Clients	128 <input type="text"/>	(Default: 128, Range: 1 - 256)
AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	(Default: Disable)
TX Antenna	Auto <input type="button" value="▼"/>	(Default: Auto)
RX Antenna	Right <input type="button" value="▼"/>	(Default: Auto)
Preamble	Long <input type="button" value="▼"/>	(Default: Long)
Xmit Power	28 <input type="text"/>	(Default: 28, Range: 0 - 251mW)
Noise Reference	-98 <input type="text"/>	(Default: -98, Range: 0 - -100dB)
Afterburner	Auto <input type="button" value="▼"/>	(Default: Disable)
Wireless GUI Access	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	(Default: Enable)

Authentication Type:

You may choose from Auto or Shared Key. Shared key authentication is more secure, but all devices on your network must also support Shared Key authentication.

Radio Time Restrictions:

Click any hour to enable or disable the radio signal (green indicates allowed Wireless access, and red indicates blocked Wireless access)

Radio Time Restrictions

Radio Scheduling	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	(Default: Disable)
------------------	---	--------------------

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std

Time: 03:15:28 up 9 days, 3:15, load average: 0.18, 0.14, 0.04

WAN IP: 192.168.3.2

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Firewall

VPN

Security

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more...

Firewall Protection

SPI Firewall

Enable Disable

Firewall Protection:

Enable or disable the SPI firewall.

Additional Filters

- Filter Proxy
- Filter Cookies
- Filter Java Applets
- Filter ActiveX

Block WAN Requests

- Block Anonymous Internet Requests
- Filter Multicast
- Filter Internet NAT Redirection
- Filter IDENT (Port 113)

Save Settings

Cancel Changes



Firmware: DD-WRT v23 SP2 (09/15/06) std

Time: 03:15:46 up 9 days, 3:15, load average: 0.13, 0.13, 0.04

WAN IP: 192.168.3.2

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Virtual Private Network (VPN)

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VPN Passthrough

Enable Disable

PPTP Passthrough

Enable Disable

L2TP Passthrough

Enable Disable

You may choose to enable IPSec, PPTP and/or L2TP passthrough to allow your network devices to communicate via VPN.

Save Settings

Cancel Changes

[Setup](#)[Wireless](#)[Security](#)[Access Restrictions](#)[Applications & Gaming](#)[Administration](#)[Status](#)

Internet Access

Internet Access

Access Policy

Policy

1 ()

Status

 Enable Disable

Policy Name

PCs

 Deny

Internet access during selected days and hours.

 Allow

Days

Everyday



Sun



Mon



Tue



Wed



Thu



Fri



Sat



Times

24 Hours



From



[0] : [00]

To



[0] : [00]

Blocked Services

Catch all P2P Protocols



None



None



None



Website Blocking by URL Address

[Help](#)[more...](#)**Access Policy:**

You may define up to 10 access policies. Click *Delete* to delete a policy or *Summary* to see a summary of the policy.

Status:

Enable or disable a policy.

Policy Name:

You may assign a name to your policy.

Days:

Choose the day of the week you would like your policy to be applied.

Times:

Enter the time of the day you would like your policy to apply.

Blocked Services:

You may choose to block access to certain services. Click *Add/Edit Service* to modify these settings.

Website Blocking by URL Address:

You can block access to certain websites by entering their URL.

Website Blocking by Keyword:

You can block access to certain website by the keywords contained in their webpage.

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std

Time: 03:16:52 up 9 days, 3:16, load average: 0.08, 0.12, 0.04

WAN IP: 192.168.3.2

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Port Range Forwarding

Port Forwarding

Port Triggering

UPnP

DMZ

QoS

Port Range Forward

Help

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Forwards

Application

Start

End

Protocol

IP Address

Enable

- None -

Add

Remove

Save Settings

Cancel Changes

Port Range Forward:

Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the router will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the *Enable* checkbox after you are finished.

Setup **Wireless** **Security** **Access Restrictions** **Applications & Gaming** **Administration** **Status**

Management **Hotspot** **Services** **Keep Alive** **Log** **Commands** **WOL** **Factory Defaults** **Firmware Upgrade** **Backup**

Router Management

Router Password

Router Username:

Router Password:

Re-enter to confirm:

Help more...

Auto-Refresh:
Adjusts the Web GUI automatic refresh interval. 0 disables this feature completely.

Remote Access

Web GUI Management: Enable Disable

Use HTTPS:

Web GUI Port: (Default: 8080, Range: 1 - 65535)

SSH Management: Enable Disable

SSH Remote Port: (Default: 22, Range: 1 - 65535)

Web Access

Protocol: HTTP HTTPS

Auto-Refresh (in seconds):

Enable Info Site: Enable Disable

Info Site Password Protection: Enabled

Info Site MAC Masquerading: Enable Disable

Boot Wait

Boot Wait: Enable Disable

Cron

Cron: Enable Disable

Loopback

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std
Time: 03:17:23 up 9 days, 3:17, load average: 0.10, 0.12, 0.04
WAN IP: 192.168.3.2

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Management Hotspot Services Keep Alive Log Commands WOL Factory Defaults Firmware Upgrade Backup

Hotspot Portal

Help

more...

Sputnik



Sputnik Agent

Enable Disable

Chillispot

Chillispot

Enable Disable

Chillispot Local User Management

User List

User Name

Password

HTTP Redirect

HTTP Redirect

Enable Disable

NoCatSplash

NoCatSplash

Enable Disable

SMTP Redirect

SMTP Redirect

Enable Disable

Management Hotspot Services Keep Alive Log Commands WOL Factory Defaults Firmware Upgrade Backup

Services Management Help more...

DHCP Client

Set Vendorclass

DHCP Server

Use JFFS2 for client lease DB

Use NVRAM for client lease DB

Used Domain

LAN Domain

Additional DHCPd Options

Static Leases

MAC Address Host Name IP Address
Add Remove

DNSMasq

DNSMasq Enable Disable

XBOX Kaid

Start Kaid Enable Disable

PPTP

PPTP Server Enable Disable

PPTP Client

PPTP Client Options Enable Disable

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std
Time: 03:21:26 up 9 days, 3:21, load average: 0.28, 0.18, 0.08
WAN IP: 192.168.3.2

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Management Hotspot Services Keep Alive Log Commands WOL Factory Defaults Firmware Upgrade Backup

Diagnostics

Help

more...

Command Shell

Commands

```
pwd; echo ; ls
```

```
/  
bin  
dev  
etc  
jffs  
lib  
mmc  
mnt  
opt  
proc  
sbin  
tmp  
usr  
var  
www
```

Commands:

You can run command lines via the web interface. Fill the text area with your command and click *Run Commands* to submit.

Run Commands

Save Startup

Save Firewall

Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status																					
Router	LAN	Wireless	Sys-Info																								
Router Information						Help more...																					
System <table> <tr> <td>Router Name</td> <td>WRT54G S</td> </tr> <tr> <td>Router Model</td> <td>Linksys WRT54G/G/L/G S</td> </tr> <tr> <td>Firmware Version</td> <td>DD-WRT v23 SP2 (09/15/06) std - build 3932</td> </tr> <tr> <td>MAC Address</td> <td>00:13:10:99:6F:61</td> </tr> <tr> <td>Host Name</td> <td>jubal</td> </tr> <tr> <td>WAN Domain Name</td> <td>unixrus.net</td> </tr> <tr> <td>LAN Domain Name</td> <td></td> </tr> <tr> <td>Current Time</td> <td>Not available</td> </tr> <tr> <td>Uptime</td> <td>9 days, 3:29</td> </tr> <tr> <td>Load Average</td> <td>0.02, 0.07, 0.07</td> <td> 5%</td> </tr> </table>						Router Name	WRT54G S	Router Model	Linksys WRT54G/G/L/G S	Firmware Version	DD-WRT v23 SP2 (09/15/06) std - build 3932	MAC Address	00:13:10:99:6F:61	Host Name	jubal	WAN Domain Name	unixrus.net	LAN Domain Name		Current Time	Not available	Uptime	9 days, 3:29	Load Average	0.02, 0.07, 0.07	 5%	Router Name: This is the specific name for the router, which you set on the <i>Setup</i> tab. <hr/> MAC Address: This is the router's MAC Address, as seen by your ISP. <hr/> Firmware Version: This is the router's current firmware. <hr/> Current Time: This is time received from the ntp server set on the <i>Administration / Management</i> tab. <hr/> Uptime: This is a measure of the time the router has been 'up' and running. <hr/> Load Average: This is given as three numbers that represent the system load during the last one, five, and fifteen minute periods. <hr/> Configuration Type: This shows the information required by your ISP for connection to the Internet. This information was entered on the <i>Setup Tab</i> . You can <i>Connect</i> or <i>Disconnect</i> your connection here by clicking on that button.
Router Name	WRT54G S																										
Router Model	Linksys WRT54G/G/L/G S																										
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Load Average	0.02, 0.07, 0.07	 5%																									
CPU <table> <tr> <td>CPU Model</td> <td>Broadcom BCM4712 chip rev 2</td> </tr> <tr> <td>CPU Clock</td> <td>216 MHz</td> </tr> </table>						CPU Model	Broadcom BCM4712 chip rev 2	CPU Clock	216 MHz																		
CPU Model	Broadcom BCM4712 chip rev 2																										
CPU Clock	216 MHz																										
Memory <table> <tr> <td>Total Available</td> <td>30384 kB / 32768 kB</td> <td> 93%</td> </tr> <tr> <td>Free</td> <td>18344 kB / 30384 kB</td> <td> 60%</td> </tr> <tr> <td>Used</td> <td>12040 kB / 30384 kB</td> <td> 40%</td> </tr> <tr> <td>Buffers</td> <td>1464 kB / 12040 kB</td> <td> 12%</td> </tr> <tr> <td>Cached</td> <td>4812 kB / 12040 kB</td> <td> 40%</td> </tr> <tr> <td>Active</td> <td>3572 kB / 12040 kB</td> <td> 30%</td> </tr> <tr> <td>Inactive</td> <td>2728 kB / 12040 kB</td> <td> 23%</td> </tr> </table>						Total Available	30384 kB / 32768 kB	 93%	Free	18344 kB / 30384 kB	 60%	Used	12040 kB / 30384 kB	 40%	Buffers	1464 kB / 12040 kB	 12%	Cached	4812 kB / 12040 kB	 40%	Active	3572 kB / 12040 kB	 30%	Inactive	2728 kB / 12040 kB	 23%	
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Network <table> <tr> <td>IP Filter Maximum Ports</td> <td>512</td> </tr> </table>						IP Filter Maximum Ports	512																				
IP Filter Maximum Ports	512																										

DD-WRT CONTROL PANEL

Firmware: DD-WRT v23 SP2 (09/15/06) std

Time: 03:29:30 up 9 days, 3:29, load average: 0.02, 0.07, 0.07

WAN IP: 192.168.3.2

Setup

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Router

LAN

Wireless

Sys-Info

Local Network

Help

more...

LAN Status

MAC Address	00:13:10:99:6F:60
IP Address	192.168.3.2
Subnet Mask	255.255.255.0
Gateway	192.168.3.1
Local DNS	192.168.1.11

MAC Address:

This is the Router's MAC Address, as seen on your local, Ethernet network.

IP Address:

This shows the Router's IP Address, as it appears on your local, Ethernet network.

Subnet Mask:

When the Router is using a Subnet Mask, it is shown here.

DHCP Server:

If you are using the Router as a DHCP server, that will be displayed here.

Auto-Refresh is On

OUI Search:

By clicking on any MAC address, you will obtain the Organizational Unique Identifier of the network interface (IEEE Standards OUI database search).

DD-WRT CONTROL PANEL

Time: 03:29:50 up 9 days, 3:29, load average: 0.14, 0.10, 0.08

WAN IP: 192.168.3.2

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Router LAN Wireless Sys-Info

Wireless

Help

more...

Wireless Status

MAC Address	00:13:10:99:6F:62
Radio	Radio is On
Mode	AP
Network	G-Only
SSID	jamplace
Channel	1
Xmit	28 mW
Rate	36 Mbps
Encryption	Enabled, WPA2 RADIUS Mixed
PPTP Status	Disconnected

MAC Address:

This is the Router's MAC Address, as seen on your local, wireless network.

Network:

As selected from the Wireless tab, this will display the wireless mode (Mixed, G-Only, B-Only or Disabled) used by the network.

OUI Search:

By clicking on any MAC address, you will obtain the Organizational Unique Identifier of the network interface (IEEE Standards OUI database search).

Wireless Packet Info

Received (RX)	1807728 OK, no error	100%
Transmitted (TX)	2931113 OK, 247402 errors	92%

Wireless Nodes

Clients

MAC Address	Signal	Noise	SNR	Signal Quality
00:90:4B:B6:BB:D6	-87	-98	11	8%
00:0F:B5:26:B3:EE	-80	-98	18	17%

Site Survey

Auto-Refresh is On

References

- http://en.wikipedia.org/wiki/Linksys_WRT54G
- http://www.dd-wrt.com/wiki/index.php/Main_Page
- <http://wiki.openwrt.org/OpenWrtDocs>
- <http://www.techreviewcentral.com/?p=47>

Credits

OpenWRT screenshots were taken from
<http://wiki.x-wrt.org>

Questions?