The current web interface of DD-WRT

**DD-WRT** is a third party developed firmware released under the terms of the GPL for many IEEE 802.11a/b/g/h/n wireless routers based on a Broadcom or Atheros chip reference design.

The firmware is maintained by BrainSlayer and is hosted at dd-wrt.com. The first versions of DD-WRT were based on the Alchemy Firmware from Sveasoft Inc, which is in turn based on the original GPL'd Linksys firmware and a number of other open source projects. DD-WRT was created directly from Sveasoft's software decision to start charging for their firmware, closing the door to open source.

At present DD-WRT is available for free, although a different business model is being drafted by BrainSlayer in order to pay his salary, as this is his full time job.

The newer DD-WRT versions (v2.4 and v3.0) are a completely new project. DD-WRT offers many advanced features not found in OEM firmware of these devices, or even the firmware available for purchase from Sveasoft. It is also free of the product activation or tracking found in the Sveasoft firmware.

Note: Beta firmware, by its very nature, will contain bugs. It is not recommended to install beta firmware on large networks that are used for businesses, etc. However, ticket can be submitted for DD-WRT bugs here: trac system.

Among other features not found in the original Linksys firmware, DD-WRT adds the Kai Daemon for the Kai Console Gaming network, WDS wireless bridging/repeating protocol, Radius Authentication for more secure wireless communication, advanced Quality of Service controls for bandwidth allocation, and software support for the SD-Card hardware modification.

What does dd stand for in dd-wrt? Sash: its the German car numberplate code for Dresden.

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Requirements

- A computer (Windows, Linux, Mac, whatever)
- A broadband internet connection (DSL, Cable, or similar)
- A supported router.
- The DD-WRT firmware image from The DD-WRT Project
- Follow the instructions under Installation to install the new firmware on your router.

Features

New features, updates and fixes can be found in the Changelog (deprecated). For code and issue tickets, see the SVN revisions at the timeline.

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Supported & Recommended Devices

There are pages for **Supported Devices** and **recommended devices**.

Which build to flash on my router

**[NOTE]** - ALWAYS do a Hard reset or 30/30/30 on the router BEFORE and AFTER flashing from OEM firmware. It is highly recommended also for flashing in DD-WRT, unless otherwise directly by the device wiki.

**[NOTE]** - Do not use Backup/Restore anytime you change the firmware build number or type. Backup/Restore should only be used with the exact same build and type, to restore a known good configuration on that same build.

Check **Supported Devices** to fine the router chipset, and whether any special flashing procedures are required. Also check your wl0_corerev here or by issuing this command in telnet or ssh: `nvram get wl0_corerev` corerev determines if VINT (vintage) or NEWD (new driver) builds are required for broadcom folder (kernel 2.4) builds. In newer builds (e.g. here, the NEWD name has been dropped, as they are now the normal builds.

The following chipsets/devices require the VINT builds.

- Any older routers using Broadcom 4702/4710 chipsets (125MHz) and have mini-PCI cards
  - `wl0_corerev < 5` (such as Belkin F5D7130-4 v1000 - v1112)
- Linksys WRT54G v1
- Linksys WAP54G v1
- Sitecom WL-105b

The following chipsets/devices require the normal builds.

- Asus WL-520GU
- Buffalo WHR-G125
- Linksys WRT54G v8.0-8.2
- Linksys WRT54GS v7.0
- All newer routers using Broadcom 4704, 4785, 5354, 5365 chipsets
The following chipsets/devices can run either but normal is recommended). Read the device wiki for details.

- Buffalo WHR-HP-G54, WHR-G54S
- Linksys WRT54G v4.0
- Linksys WRT54GL 1.0 & 1.1
- All routers using Broadcom 5352 chipset
- All routers using Broadcom 4712 chipset (BCM4712) with wl0_corerev 5 or higher

**File Versions**

Different versions of the firmware have different features. The tables below attempt to outline the features of each version but sometimes the features of a specific version are changed. You can check the config files on the SVN server to verify exactly what features are in each specific version for official Brainslayer builds, but the config files for Eko's unofficial versions are not published.

**Atheros Based Devices (incl. UBNT)**

Atheros based devices typically only have one version of the firmware available per model. The feature set in Atheros builds are generally limited by the amount of flash memory that a unit has. So basically, Atheros 4MB flash units have features somewhat similar to a Broadcom K2.6 mini version while 8MB Atheros flash units have features more similar to a Broadcom K2.6 BIG version, but the features will vary. Atheros builds are still pre-baked and specific to its unit, so features in one unit's version may slightly differ from another unit's version.

**Broadcom Based Devices**

Broadcom based devices have several different versions available to choose from. Consult Note 4 in the Peacock Announcement from the Broadcom forum for information about which versions can run on your hardware.

**V24_pre_sp2 K24**

This consolidated chart is a WIP. If you spot something wrong or needed to be added, pm me. DarkShadow Need verification of pound and tcpdump

**K2.4 Build Features**

V24_pre_sp2 K24 build features

- Generic (1) Mini USB FTP (2) Nokaid (1) Open VPN JFFS Small (2) STD (1) STD NoKaid (2) STD NoKaid
- No Hotspot NoStor (2) STD NoKaid USB (2) VOIP (1) VPN (1)(3) Big (2)(4) Mega (1)(4) Access
- Restrictions
- Bandwidth Monitoring
- AnchorFree
- Chillispot
- Asterisk

File Versions
The files for v24 contain six versions:

<table>
<thead>
<tr>
<th>filename</th>
<th>description</th>
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<tbody>
<tr>
<td>dd-wrt.v24_&lt;type&gt;_asus.trx</td>
<td>Web interface version for flashing. See Flash Your Asus WL-500G Deluxe</td>
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<tr>
<td>dd-wrt.v24_&lt;type&gt;_generic.bin</td>
<td>Generic version for flashing via web interface on all supported devices (including Linksys WRT54G/GL/GS) and for flashing Siemens SE505 with boot tftp on 192.168.2.1</td>
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</table>
| dd-wrt.v24_<type>_wrt54g.bin | tftp versions for WRT54G. You CAN use this to flash via web interface but do so only AFTER you have done so using the mini version. These versions were just made specifically for TFTPing to those routers. (v5/v6 note: Since the WRT54G/GS v5-v6 uses a modified WAP54Gv3 once made 'linux ready', it will not accept
these standard WRT54G/GS firmwares. You must use the ‘generic’ build for TFTPing to these units).

| dd-wrt.v24_<type>_wrt54gs.bin | tftp versions for WRT54GS. You CAN use this to flash via web interface but do so only AFTER you have done so using the mini version. These versions were just made specifically for TFTPing to those routers. |
| dd-wrt.v24_<type>_wrt54gsv4.bin | tftp versions for WRTGSv4. You CAN use this to flash via web interface but do so only AFTER you have done so using the mini version. These versions were just made specifically for TFTPing to those routers. |
| dd-wrt.v24_<type>_wrtsl54gs.bin | tftp versions for WRTSL54GS. You CAN use this to flash via web interface but do so only AFTER you have done so using the mini version. These versions were just made specifically for TFTPing to those routers. |
| dd-wrt.v24_<type>_moto.trx | For initial Flash Your Motorola WR850G (Micro and Mini builds ONLY) |

where <type> is a placeholder for mini, std, voip, etc. For upgrading from the original Linksys firmware, please use the mini version first and flash it from the web interface. After this first flash you can then upgrade to any distribution of your choice.

Note eko’s builds are for Broadcom only (both K24 and K26).

V24_pre_sp2 K26

**WARNING:** Do not use the K2.6 builds unless you are certain your device can support it! It will brick it! Forum thread about K26 build supported broadcom based router List

K2.6 Build Features

K2.6 Build Features

Mini Mini Hotspot Mini USB NAS OpenVPN OpenVPN Small STD NoKaid Small STD USB NAS VOIP VOIP Small Big Mega (Giga) Access Restrictions AnchorFree

""" Asterisk Bandwidth Monitoring Chillispot

Connection Warning Notifier Dynamic DNS

EoIP Support ext2 Support ext3 Support

HTTP Redirect HTTPS Support for Web

IPv6

kaid

Management

JFFS2

MMC/SD Support

NoCat NTFS Support

OpenVPN

Pound PPTP Client / PPTP Server

ProFTPd

Mini Mini Hotspot Mini USB NAS OpenVPN OpenVPN Small

STD NoKaid Small STD USB NAS VOIP VOIP Small Big Mega (Giga) QoS

radvd

Repeater RFlow

client

Security Log SFTP

Samba/CIFS

Notes
What_is_DD-WRT?

SIPatH/Milkfish
SMTP Redirect
SNMP

SPI Firewall/Iptables
Sputnik
SSH

Syslogd
tcpdump
Telnet
Tx power

adjust
UPnP
USB

Wake On LAN
Wifidog
WAVP/WPA2 Peer/Ent

Wiviz

Notes

K26 builds do not have MMC/SD support yet.

Special Versions

Screenshot of a QoS version
Currently brainslayer offers a special version of DD-WRT with extended QoS capabilities:

• set maximum bandwidth available per netmask/MAC address (v.24-SP1: even for different vlans)
• set a default rule for any unconfigured netmask/MAC address

This version is always based on the current sources and atm only available for kernel 2.4 based units. The version is available from the DD-WRT Shop. Updates for this special firmware version are provided in the special Customer Downloads & Updates forum.

Firmware releases customized to your corporate design are also available.

Intel IXP Based Devices

Ralink Based Devices

Ralink based devices typically only have one version of the firmware available per model.
What is DD-WRT?

x86 Based Devices