

## What\_is\_DD-WRT?

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**This page is largely outdated. See the [Firmware FAQ](#) for current information.**



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.

DD-WRT is available for free, although a different business model was [drafted](#) in the past by BrainSlayer 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. Tickets can be submitted for DD-WRT issues on the [trac SVN 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](#).

Feature v \ Categories->	<u>Lan</u>	<u>Wlan</u>	<u>Wan</u>	<u>DNS</u>	<u>Man- age- ment</u>	<u>Moni- toring</u>	<u>NAT</u>	<u>Serv- ices</u>	<u>Traffic mode- ration incl. QoS</u>	<u>Traffic redir- ection</u>
13 languages					*					
<a href="#">802.1x Extensible Authentication Protocol (EAP)</a>		*								
<a href="#">802.1x Extensible Authentication Protocol (EAP)</a>		*								
<a href="#">Access Restrictions</a>									*	
<a href="#">Ad hoc</a>		*								
<a href="#">Afterburner</a>		*								
<a href="#">Client Isolation Mode</a>		*								
<a href="#">Client Mode</a> (supports multiple connected clients)		*								
<a href="#">DHCP Forwarder (udhcp)</a>	*	*								*

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<u>DHCP Server</u> ( <u>udhcp</u> or <u>Dnsmasq</u> )	*	*				*
<u>DNS Forwarder</u> ( <u>Dnsmasq</u> )	*	*		*		
<u>DMZ</u>	*	*				*
<u>Dynamic DNS</u> ( <u>DynDNS</u> , <u>easyDNS</u> , <u>FreeDNS</u> , <u>TZO</u> , <u>ZoneEdit</u> , custom, and others)				*		
<u>FreeRADIUS Server</u>			*		*	*
<u>Hotspot Portal</u> ( <u>Sputnik Agent</u> , <u>Chillispot</u> )			*			
<u>IPv6</u>						
<u>JFFS2</u> ( <u>JFFS2</u> )						
<u>MMC/SD Card Support</u> (hardware modification required)						
<u>NTP</u>	*	*				*
<u>ntop Remote Statistic</u> ( <u>ntop</u> )				*		
<u>OpenVPN Client &amp; Server</u> (only in -vpn build of the firmware)						*
<u>Port Triggering</u>					*	
<u>Port Forwarding</u>					*	
<u>PPTP VPN Server &amp; Client</u>						*
<u>QoS Bandwidth Management</u>						*
<u>QoS L7 Packet Classifier</u> ( <u>I7-filter</u> )						*
<u>RFlow</u>				*		
<u>Routing</u> ( <u>BIRD</u> )						*
<u>Samba FS Automount</u>						*
<u>Syslog</u>				*		
<u>Rx Antenna</u>		*				
<u>Tx Antenna</u>		*				
Show Status of Wireless Clients and WDS with System Uptime/Processor		*			*	

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Utilization				
<u>Site Survey</u>		*		*
<u>SNMP</u>			*	*
<u>SSH server &amp; client</u> ( <u>dropbear</u> )			*	*
Startup, Firewall, and Shutdown scripts ( <u>startup script</u> )				*
<u>Static DHCP</u>	*	*		*
Style (Changeable GUI; v.23)			*	
Supports New Devices (WRT54G V3, V3.1, V4, V5 and WRT54GS V2.1, V3, V4)				
<u>Telnet</u> server & client			*	*
Transmit Power Adjustment (0-251mW, default is 28mW, 100mW is safe)			*	
<u>UPnP</u>	*	*		*
<u>USB</u>				
<u>VLAN</u>	*	*	*	*
<u>WOL (Wake On Lan)</u> ( <u>WOL</u> )				*
<u>WDS Connection</u> <u>Watchdog</u>		*		
<u>WDS Repeater Mode</u>		*		
<u>Wireless MAC Address Cloning</u>			*	
<u>Wireless MAC Filter</u>		*		*
<u>WMM (Wi-Fi MultiMedia)</u>		*		*
WPA over WDS		*		
WPA/TKIP with AES		*		
<u>WPA2</u>		*		
Xbox Kaid ( <u>Kai Engine</u> )	*	*		*

## 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 **EXCEPT for ARM devices**. It is also recommended for flashing in DD-WRT for large build jumps, 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 find 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: `nvramp 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

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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.

These charts are now very outdated, but still is useful as a reference guide. Check [source code](#), kernel and makefile configs, includes, and [rules](#) for finer granularity of available features.

### K2.4 Build Features

V24\_pre\_sp2 K24 build features

Micro (1) Micro Plus (2)(7) Micro Plus ssh (2)(7) Mini (1) Mini Hotspot Kaid (2) Mini USB (2) USB 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](#) [AnchorFree](#) [Asterisk](#)  
Bandwidth Monitoring [Chillispot](#)  
Connection Warning Notifier [Dynamic DNS](#)  
EoIP Support [ext2](#) Support  
[ext3](#) Support [FreeRADIUS Server](#) Hotspot System  
HTTP Redirect [HTTPS](#) Support for Web  
Mngt [IPv6](#) (5) [JFFS2](#) (6)  
[kaid](#) [MMC/SD](#) Support [NoCat](#)  
[NTFS](#) Support [OpenVPN](#) [Pound](#)  
[PPTP Client/PPTP Server](#) [ProFTPD](#)  
Micro (1) Micro Plus (2)(7) Micro Plus ssh (2)(7) Mini (1) Mini Hotspot Kaid (2) Mini USB (2) USB 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) [QoS](#)  
[radvd](#) [Repeater](#)  
[RFlow](#) [Samba/CIFS client](#) Security Log  
SFTP [SIPatH/Milkfish](#) SMTP  
Redirect [SNMP](#) SPI Firewall/[Iptables](#)  
File Versions

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[Syslogd](#)                      Sputnik                      [SSH](#)  
    Tx power adjust                      tcpdump                      [Telnet](#)  
    [USB](#)                      [VPNC](#)                      [UPnP](#)  
    Wifidog                      [WPA/WPA2 Per/Ent](#)                      [Wake On LAN](#)  
    [Wiviz](#)

### Notes

1. Official dd-wrt builds by Brainslayer
2. Eko specialized **Broadcom Only** Builds
3. Smaller VPN JFFS builds used to be available for 4MB units at downloads/others/eko
  - ◆ This is not recommended, but search the Broadcom forum if trying to find some of these old builds.
4. Only on DD-WRT v24 (8MB+ flash required)
5. Apparently, IPv6-related features **DO NOT** work by default in DD-WRT v24: see [IPv6 on v24](#)
6. Not available on VPN-builds for v24sp1: see [for JFFS](#)
7. CFE Compressor needed to run: see this [forum thread](#)

To upgrade from the stock Linksys firmware, first flash the **mini** version from the **web interface**. After initial flash use any version, assuming it fits the flash size. Below are example file versions where **<type>** represents mini, std, voip, etc.:

filename	description
dd-wrt.v24_<type>_asus.trx	<b>Web interface</b> version for flashing. See <a href="#">Flash Your Asus WL-500G Deluxe</a>
dd-wrt.v24_<type>_generic.bin	Generic version for flashing via <b>web interface</b> on all supported devices (including Linksys WRT54G/GL/GS) and for flashing <a href="#">Siemens SE505</a> with boot tftp on 192.168.2.1
dd-wrt.v24_<type>_wrt54g.bin	<b>tftp</b> 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	<b>tftp</b> 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	<b>tftp</b> 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	<b>tftp</b> 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.

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dd-wrt.v24_<type>_moto.trx	For initial <a href="#">Flash Your Motorola WR850G (Micro and Mini builds ONLY)</a>
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### K2.6 Build Features

**WARNING:** Do not use K2.6 builds unless certain your device can support it or it will be bricked!

[Forum: K26 Build Supported Router List](#)

#### K2.6 Build Features

Mini Mini Hotspot Mini USB 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](#)  
[Hotspot System](#) [HTTP Redirect](#) [HTTPS Support for Web](#)  
Management [IPv6](#) [JFFS2](#) [kaid](#)  
[MMC/SD Support](#) [NoCat](#) [NTFS Support](#)  
[OpenVPN](#) [Pound](#) [PPTP Client / PPTP Server](#)  
[ProFTPd](#) Mini Mini Hotspot Mini USB Mini USB NAS OpenVPN OpenVPN Small  
STD NoKaid Small STD USB NAS VOIP VOIP Small Big Mega (Giga) [QoS](#)  
[radvd](#) [Repeater](#) [RFlow](#) [Samba/CIFS](#)  
[client](#) [Security Log](#) [SFTP](#)  
[SIPatH/Milkfish](#) [SMTP Redirect](#) [SNMP](#)  
[SPI Firewall/Iptables](#) [Sputnik](#) [SSH](#)  
[Syslogd](#) [tcpdump](#) [Telnet](#) [Tx power](#)  
adjust [UPnP](#) [USB](#) [VPNC](#)  
[Wake On LAN](#) [Wifidog](#) [WPA/WPA2 Per/Ent](#)  
[Wiviz](#)

#### Notes

K26 builds do not have MMC/SD support yet.

## Intel IXP Based Devices

## Ralink Based Devices

Ralink based devices typically only have one version of the firmware available per model.



## **x86 Based Devices**