Tomato (firmware)

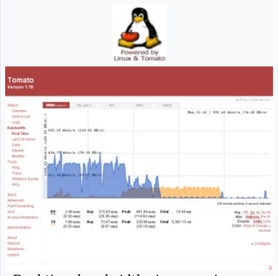
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Tomato is a partially free HyperWRT-based, Linux core firmware distribution for a range of Broadcom chipset based wireless routers, most notably the older Linksys WRT54G series, Buffalo AirStation, Asus routers and Netgear WNR3500L. Among other notable features is the user interface, which makes heavy use of Ajax as well as an SVG-based graphical bandwidth monitor.

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Tomato Firmware



Real time bandwidth view, running on a Buffalo AirStation WHR-HP-G54

Developer(s)	Jonathan Zarate
Initial release	2008
Stable release	1.28 / June 28, 2010
Operating system	Linux
Type	Routing software
License	Freeware Backend: GNU General Public License Frontend: proprietary[1]
Website	www.polarcloud.com/tomato (http://www.polarcloud.com/tomato)

History

Tomato was originally released by Jonathan Zarate in 2008, building on the code of HyperWRT, and made available on his website polarcloud.com.[2] Since the last release from the original developer in June 2010, continued development happens through several community-maintained mods. Fedor Kozhevnikov created a notable early fork, called TomatoUSB, which ceased development in November 2010.[3] It was then forked by other developers[4] with projects such as Tomato by Shibby becoming popular.[5]

Features

- Interactive Ajax based GUI using SVG and CSS-based color schemes (allowing GUI look and feel changes)
- CLI access (BusyBox) via Telnet or SSH (using Dropbear)
- DHCP server (with static allocation of IP addresses)
- DNS forwarder (using Dnsmasq)
- Netfilter/iptables with customizable settings, IPP2P and l7-filter
- Wake-on-LAN
- Advanced QoS: 10 unique QoS classes defined, real-time graphs display prioritized traffic with traffic class details
- Client bandwidth control via QoS classes
- Bandwidth statistics and graphing
- Wireless modes:
  - Access point (AP)
  - Wireless client station (STA)
  - Wireless Ethernet (WET) bridge
  - Wireless distribution system (WDS also known as wireless bridging)
  - Simultaneous AP and WDS (also known as wireless repeating)
- Dynamic DNS service with ezUpdate and services extended for more providers
- Syslog viewable through the GUI (also downloadable)
- SES button control
- JFFS2
- CIFS client
- Wireless LAN Adjustment of radio transmit power, antenna selection, and 14 wireless channels
- 'Boot wait' protection (increase the time slot for uploading firmware via the boot loader)
- Advanced port forwarding, redirection, and triggering with UPnP and NAT-PMP
- Advanced user access restrictions
- Init, shutdown, firewall, and WAN Up scripts
- Uptime, load average, and free memory status
- Minimal reboots - Very few configuration changes require a reboot
- Wireless survey page to view other networks in your neighborhood
- More comprehensive dashboard than stock firmware: displays signal strengths of wireless client devices, reveals UPnP mappings
- Configuration persistence during a firmware upgrade

Feature comparison

Mod name	Base version	Mod version	Latest release date	SFTP	VPN client	VPN server	SNMP	SD-card support	USB support	VLANs	IPv6	Captive portal	5 GHz	Per-IP traffic stats	Static ARP	BW limiter	NFS server	BT client	Guest SSID	PPPoE server	DNSCrypt	Overclocking	Tor project	IPsec	Multi WAN	Siproxd VoIP	Web server	Stealth-mode LED control	TTB[6]	P2Partisan
Tomato	1.28[a]	1.28	June 28, 2010	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Tomato ND	1.28[b]	1.28	June 28, 2010	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TomatoUSB Mod (Teddy Bear)[7]	1.28[b]	Build 54	November 30, 2010	Via Optware	OpenVPN	OpenVPN	No	No	Print, NAS, Media, FTP	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TomatoVPN Mod (SgtPepperKSU)	1.27[c]	1.27vpn3.6	January 27, 2010	No	OpenVPN	OpenVPN	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
SpeedMod Mod (hardc0re)	1.28[c]	120	July 30, 2010	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
slodki Mod	1.28[b]	1.28.02	February 18, 2011	Via Optware	OpenVPN	OpenVPN	No	SD, SDHC, MMC	Print, NAS	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
RAF Mod (Victek)[8]	1.28[c]	1.28.9013 R1.3	July 18, 2014	Via Optware	OpenVPN, PPTP	OpenVPN, PPTP	Yes	SD, SDHC, MMC	Print, NAS, Media, FTP, 3G USB Modem	With GUI	Yes	Yes	Yes	Yes	Yes	VLAN	No	No	With GUI	No	With GUI	With GUI	No	No	No	With GUI	With GUI	by script	No	No
DualWAN Mod[9]	1.28[c]	1.28.0542	January 17, 2012	Via Optware	OpenVPN, PPTP	OpenVPN, PPTP	Yes	No	Print, NAS, Media, FTP 3G USB Modem	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	No	No	No	No	Yes	No	No	No	No	No
Toastman Mod[10]	1.28[c]	K24 MIPSR1 K26 RT MIPSR2 1.28.7510.2. RT-N MIPSR2 1.28.0510.2 ARM 9007.8	September 8, 2016	Via Optware	OpenVPN, PPTP	OpenVPN, PPTP	Yes	SD, SDHC, MMC	Print, NAS, Media, FTP, 3G USB Modem	With GUI	Yes	Yes	Yes	Yes	Yes	Yes	No	No	With GUI	No	No	With GUI	No	No	No	No	No	No	No	No
Shibby Mod[11]	1.28[c]	v138 K26 for MIPSR1, MIPSR2, RT-N, RT-AC, ARM. v124 K24 for MIPSR1.	August 2, 2016	Via Optware	OpenVPN, PPTP, L2TP	OpenVPN, PPTP, tinc	Yes	SD, SDHC, MMC	Print, NAS, Media, FTP, 3G and LTE USB Modem, UPS Monitor	With GUI	Yes	Yes	Yes	Yes	Yes	VLAN	With GUI	With GUI	With GUI	No	With GUI	Yes	With GUI	Yes	Yes	No	Yes	Yes	Yes	by script
Teaman Mod[12]	1.28[b]	v0025	June 15, 2012	Via Optware	OpenVPN	OpenVPN, PPTP	Yes	SD, SDHC, MMC	Print, NAS, FTP, 3G USB Modem	With GUI	Yes	Yes	Yes	Yes	Yes	Yes	No	No	With GUI	No	No	No	No	No	No	No	No	No	No	No
AdvancedTomato GUI Mod[13]	1.28[c]	K26: MIPSR1, MIPSR2, RT-N, RT-AC v128. ARM v129. K24: MIPSR1 v124.	December 5, 2016	Via Optware	OpenVPN, PPTP, L2TP	OpenVPN, PPTP, tinc	Yes	SD, SDHC, MMC	Print, NAS, Media, FTP, 3G and LTE USB Modem, UPS Monitor	With GUI	Yes	Yes	Yes	Yes	Yes	VLAN	With GUI	With GUI	With GUI	No	With GUI	Yes	With GUI	Yes	Yes	No	Yes	Yes	Yes	by script
Mod name	**Base version**	**Mod version**	**Latest release date**	**SFTP**	**VPN client**	**VPN server**	**SNMP**	**SD-card support**	**USB support**	**VLANs**	**IPv6**	**Captive portal**	**5 GHz**	**Per-IP traffic stats**	**Static ARP**	**BW limiter**	**NFS server**	**BT client**	**Guest SSID**	**PPPoE server**	**DNSCrypt**	**CPU overclock**	**TOR project**	**IPSec**	**Multi WAN**	**Siproxd VoIP**	**Web server**	**Stealth-mode LED control**	**TTB**	**P2Partisan**

a. Tomato standard only
b. Tomato ND (New Driver) only
c. Tomato standard and ND

Supported routers

The Tomato by Shibby project contains a list of supported routers.[14]
AdvancedTomato's project website also contains a list of supported routers[15]

See also

- List of wireless router firmware projects

References

1. Zarate, Jonathan. "Tomato Firmware, tomato/release/src/router/www/tomato.js source file". *Sourceforge.net*. Retrieved 23 September 2014. "Copyright 2006-2010 Jonathan Zarate For use with Tomato Firmware only. No part of this file may be used without permission."
2. "Tomato Firmware | polarcloud.com". *www.polarcloud.com*. Retrieved 2016-10-05.
3. "Tomato by Shibby » About Tomato (ang.)". *tomato.groov.pl*. Retrieved 2016-10-05.
4. List of Tomato Mods on the TomatoUSB website (http://tomatousb.org/mods)
5. Dumitru, Bogdan. "How to Install the Tomato Custom Firmware on an ASUS RT-N53 Router". Retrieved 2016-10-05.
6. (Tomato Theme Base) (http://tomatothemebase.eu/?page_id=2)
7. TomatoUSB Mod (Teddy Bear) (http://tomatousb.org/) Home page.
8. RAF Mod (Victek) (http://victek.is-a-geek.com/) Home page.
9. DualWAN Mod (http://www.dualwan.cn/index.php/download/category/72-1.28) Home page.
10. Toastman Mod (http://www.toastmanfirmware.yolasite.com/) Home page. Tomato builds with many useful added features. Lean, stable, and fast with minimal bells and whistles, with a focus on QOS and Administration. Based on TomatoUSB and RT (selected features included from other firmwares, plus new mods).
11. Shibby Mod (http://tomato.groov.pl) Home page.
12. Teaman Mod (http://code.google.com/p/tomato-sdhc-vlan/) Home page. Teaman is the author of the VLANs GUI, Per-IP Traffic Stats (author of cstats, which keeps per-IP data/track/history), Client Monitor Graphs (author of IPTraffic) and author of the Guest SSID GUI.
13. AdvancedTomato (https://advancedtomato.com/faq) Home page. Built on Shibby version, with GUI update
14. "Tomato by Shibby » Router List". *tomato.groov.pl*. Retrieved 2016-12-10.
15. "AdvancedTomato » Downloads". *advancedtomato.com*. Retrieved 2016-12-10.

External links

- Official website (http://www.polarcloud.com/tomato)
- Virtual Tomato RAF (Victek mod) (http://victek.is-a-geek.com/virtual/tomatok26/)
- Tomato Phoenix (Mod supports MTK chips,such as mt7620 mt7621 mt7628 mt7688) (http://tomato.org.cn/)

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