



Firmware Version: 1.08B44_WW
1.08B44_RU
Published Date: Oct. 28, 2013

Copyright © 2013

Copyright Notice

This publication, including all photographs, illustrations and software, is protected under international copyright laws, with all rights reserved. Neither this manual, nor any of the material contained herein, may be reproduced without written consent of the author.

Disclaimer

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaim any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

Limitations of Liability

UNDER NO CIRCUMSTANCES SHALL D-LINK OR ITS SUPPLIERS BE LIABLE FOR DAMAGES OF ANY CHARACTER (E.G. DAMAGES FOR LOSS OF PROFIT, SOFTWARE RESTORATION, WORK STOPPAGE, LOSS OF SAVED DATA OR ANY OTHER COMMERCIAL DAMAGES OR LOSSES) RESULTING FROM THE APPLICATION OR IMPROPER USE OF THE D-LINK PRODUCT OR FAILURE OF THE PRODUCT, EVEN IF D-LINK IS INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. FURTHERMORE, D-LINK WILL NOT BE LIABLE FOR THIRD-PARTY CLAIMS AGAINST CUSTOMER FOR LOSSES OR DAMAGES. D-LINK WILL IN NO EVENT BE LIABLE FOR ANY DAMAGES IN EXCESS OF THE AMOUNT D-LINK RECEIVED FROM THE END-USER FOR THE PRODUCT.

Content:

| | |
|--|---|
| Revision History and System Requirement:..... | 2 |
| Important Notes: | 2 |
| Notes for Configuration Auto-Backup/Restore in USB Storage | 2 |
| Upgrading Instructions: | 3 |
| Upgrading by using Web-UI | 3 |
| New Features: | 3 |
| Changes of MIB & D-View Module:..... | 3 |
| Problems Fixed: | 4 |
| Known Issues: | 6 |
| Related Documentation:..... | 7 |

Revision History and System Requirement:

| Firmware Version | Region | Date | Model | HW Version |
|--------------------------|--------|---------------|-------------------|------------|
| 1.08B44_WW 1.08B44_RU | WW/RU | Oct. 28, 2013 | DSR-250, 250N | A1/A2 |
| 1.08B39_WW 1.08B39_RU | WW/RU | Oct. 23, 2013 | DSR-250, 250N | A1/A2 |
| 1.08B31_WW 1.08B31_RU | WW/RU | Jun 28, 2013 | DSR-250 | A1/A2 |
| 1.05B53_WW 1.05B53_RU | WW/RU | Jun 29, 2012 | DSR-250, DSR-250N | A1 |
| 1.05B20_WW 1.05B20_RU | WW/RU | Mar 28, 2012 | DSR-250, DSR-250N | A1 |
| 1.05B20_WW 1.05B20_RU | WW/RU | Mar 28, 2012 | DSR-250, DSR-250N | A1 |
| 1.05B20_WW 1.05B20_RU | WW/RU | Mar 28, 2012 | DSR-250, DSR-250N | A1 |
| 1.01B56_WW | WW | Oct. 06, 2011 | DSR-250N | A1 |
| 1.01B46_WW | WW | Sep 23, 2011 | DSR-250N | A1 |

Important Notes:

1. Automatic factory reset when image upgrade detects a firmware region mismatch between RU and WW images. Such as firmware upgrade from RU->WW or WW->RU image.
2. Russian firmware version doesn't support over 40bit encrypted algorithm according to regulatory restriction.
3. Microsoft Windows XP has some well-known limitation to access USB storage of DSR router, D-Link provides a Registry Script file named: WinXP.reg which can solve limitation of Windows XP environment. Without applying this script file, it cannot copy file from Windows XP to USB storage. (This issue will not happen when copy file from USB storage to Windows XP)

Notes for Configuration Auto-Backup/Restore in USB Storage

D-Link DSR router series support configuration backup or restore automatically while a USB drive is inserted. Following information instructs what condition will perform backup/restore.

1. The router configuration will be automatically backed up to the USB drive as soon as the USB drive is inserted. The back name has format <Model Name>_<Serial Number>.cfg provided this USB drive doesn't have a backup configuration file from a DSR router already present.
2. The system LED on the router blinks 3X in amber to indicate a backup operation has started.
3. The configuration in the USB drive can be updated if the user manually clicks 'Save Settings' in any GUI page and provided the Model Number and the Serial Number of the router matches with the file already present in the USB drive.
4. In case of reboot, the router checks for the presence of configuration file (with format ModelName_SerialNumber.cfg). If found, the configuration from the USB drive is restored on the router. If a configuration file with the correct format is present in both connected USB drives, the configuration from the first USB drive will be used to restore the router.

5. The USB drive can have only one configuration with the above mentioned format for each model name.
6. If the USB drive is plugged in to the router which is in factory default state, then during reboot, no backup is taken since no custom configuration file exists in the router by that time. The custom configuration is stored on the USB drive once the user clicks Save Settings in any GUI page.

Upgrading Instructions:

Upgrading by using Web-UI

- Please use GUI upgrade feature to upgrade to this firmware version. For detailed installation and upgrade instructions, please refer to the Firmware Upgrades chapter in the *Unified Services Router v1.05 User Manual*.
- **Please upgrade corresponding firmware based your device hardware version.**

New Features:

| Firmware Version | New Features |
|------------------|---|
| 1.05B53 | <ol style="list-style-type: none"> 1. Support email address to be local ID in Ipsec policy. 2. Support SHA-1 in Phase 1. 3. Support DH group need support group 1, 2 and 5 for Phase 1. 4. Add PFS group 1, 2 and 5 for Phase 2. 5. Add a keyword with "." (dot) in Blocked Keywords text box. |
| 1.05B20 | <ol style="list-style-type: none"> 1. Support 3G dongle DWM-152 A1/A2/A3, DWM-156 A1/A2/A3, Huawei E1550, E173. 2. Pre-Share key can be configurable in wireless wizard. 3. Change design to disable auto refresh for Traffic Monitor by default. |
| 1.05B06 | Support SSH remote management from WAN port |
| 1.01B46 | It's the first release. |

Changes of MIB & D-View Module:

| Firmware Version | New Features |
|------------------|----------------------------|
| 1.05B06 | Support LED and IPsec MIB. |
| 1.01B46 | It's the first release. |

Problems Fixed:

| Firmware Version | Problems Fixed |
|------------------|--|
| 1.08B44 | <p>Security Vulnerabilities Addressed: Devices respond clients some unnecessary information, and hence give hackers a chance to get a non-persistent root shell.</p> <p>Reference: (CVE-2013-5945, CVE-2013-5946)</p> <p>Solution: Remove all unnecessary root user accounts</p> |
| 1.08B39 | <ol style="list-style-type: none"> Including 1.08B31 all fixes for DSR-250N in this version The MPPE function does not work in L2TP client mode Restore configuration file to different HW version WAN responses ARP packet Add a message to inform user, who need to change 443 port number for sslvpn or remote management once two features are enabled. Can't work with any AP connected with network cable Device time not synchronizing with default NTP servers after reboot. Firewall rule disable is not work unless reboot device. WIFI stability issue under heavy BT traffic |
| 1.08B31 | <ol style="list-style-type: none"> The OpenVPN Local Network page disappear when I used IE8 or IE9 to manage the DSR. USB sharing could not download/upload large file DWM-156 A3, A6 compatility issue Security Vulnerabilities Addressed: Persistent root access. Reference: http://packetstormsecurity.com/files/118355/D-Link-DSR-250N-Backdoor.html Solution: Removed CLI commands that could allow someone to overwrite the super user password and gain root access to the device. Root user account will be completely removed in the next firmware version. Prevent to upload config file into different model Unable to change the Wireless output power Device stuck under BT download X.509 certificate expired issue Security Vulnerabilities Addressed: uPnP vulnerabilities identified in the audit of libupnp code base. Reference: CVE-2012-5958, CVE-2012-5959, CVE-2012-5961, CVE-2012-5962, CVE-2012-5963, CVE-2012-5964, CVE-2012-5965 Solution: Patched Intel SDK libupnp v1.3.1 to add the following; 1) use 'snprintf' and 'strncpy' instead of 'sprintf' and 'strcpy', 2) While doing a |

| | |
|---------|--|
| | <p>'strncpy', check if we are copying more bytes than the destination string size.</p> <p>10. DNS query issue for L2TP WAN type</p> |
| 1.05B53 | <ol style="list-style-type: none"> 1. DSR-250 and 250N don't show Logs for tunnel disconnect and Logout for SSL VPN & port forwarding. 2. "LAN clients" page is not displaying the connected information. 3. CLI wan1 status does not show wan1 physical interface information when device is in RU firmware dual PPPoE mode. 4. When server IP is configured with FQDN, Wan L2TP over DHCP connection does not reconnect after device reboot. 5. Default VLAN is associated with all the wireless SSID after reboot. 6. "Block ICMP" is not work for a SSL VPN policy with permit permissions. 7. Traffic is not going from PPTP/L2TP client to device's LAN after changing WAN ISP until disable and enable PPTP server again. 8. When the user login SSL portal with wrong credentials domain name in IE browser address bar, the browser will not refresh back to 'SSL portal login' page. 9. Dyn dns name provided in the SSL portal page will be changed into the device WAN IP, if the user try to login SSL portal page with wrong credentials in Firefox browsers. 10. Device's MAC address field in WDS page is blank in RU image. 11. Device is taking 40-50 seconds to apply the configuration in VLAN page of RU image. 12. Wireless client status page is showing wrong Authentication and Encryption types. 13. Device GUI is getting stuck after running bulk traffic over PPTP/L2TP tunnel. 14. "Connect" button is not working for IPv6 gw-gw policy in Active VPNs page when IPv6 WAN is radvd IP. 15. No information on WLAN Domain when country code is set to Japan. 16. Firewall rule with schedule is working correctly only for GMT time zone. 17. Device displaying critical error message when trying to upload certificates to activate OpenVPN server/client. 18. Unable to access GUI after factory reset and power OFF/ON the device. 19. Wireless clients are not getting updated in Wireless Clients status page. 20. UPnP process is not running in Dual Stack IPv4/IPV6 mode. |
| 1.05B20 | <ol style="list-style-type: none"> 1. IPv6 to IPv4 tunneling is not work. |

| | |
|---------|---|
| | <ol style="list-style-type: none"> 2. Internet web surfing is very slow for WLAN client if SPPE enabled. 3. Remove CLI command which is not supported in DSR-250/250N. 4. PPTP client is getting disconnected while uploading and downloading files using windows sharing. 5. Device shell is getting stuck after running bulk traffic over PPTP/L2TP tunnel. 6. Bandwidth Usage and Used applications are not displayed in dashboard. 7. Default VLAN will be associated with all the wireless AP after reboot. 8. Fixing L2TP doesn't reconnects to L2TP server after reboot. 9. Fixing wireless clients is not displayed on status page. |
| 1.05B06 | <ol style="list-style-type: none"> 1. Improving link up time of WAN interface less than 1 minute after device power on. 2. Fixing the printer shared port detection issue. 3. Fixing PPTP pass through is not working. 4. Fixing SSL tunnel is disconnected when user tries to download 200 MB file. |
| 1.01B56 | <ol style="list-style-type: none"> 1. Improving link up time of WAN interface to 1~1.5 minutes after device power on 2. Fixing PPPoE isn't working in custom MAC address |

Known Issues:

| Firmware Version | Known Issues |
|------------------|--|
| 1.08B39 | <ol style="list-style-type: none"> 1. PowerMode is not completely functional. 2. Wan is not getting IP from IPv6 DHCP server in stateful mode. 3. Netperf is unable to pass traffic over IPsec tunnel. 4. PPPoE performance worst if user changes the WAN MAC address. |
| 1.08B31 | <ol style="list-style-type: none"> 1. PowerMode is not completely functional. 2. Wan is not getting IP from IPv6 DHCP server in stateful mode. 3. Netperf is unable to pass traffic over IPsec tunnel. 4. PPPoE performance worst if user changes the WAN MAC address. 5. Device got defaulted after upgrade from 1.05B73_WW to 1.08B31_WW 6. Not able to establish L2TP over IPsec tunnel with same user multiple time after change IPsec policy. 7. The GRE function does not work 8. The MPPE function does not work in L2TP client mode. |
| 1.05B53 | <ol style="list-style-type: none"> 1. Bandwidth Limit not functioning when port name is used in Traffic selector 2. PowerMode is not completely functional. 3. Wan is not getting IP from IPv6 DHCP server in stateful mode. 4. Netperf is unable to pass traffic over IPsec tunnel. 5. Transparent Mode is not supported. 6. Observed ping loss from WLAN clients to internet. |
| 1.05B20 | <ol style="list-style-type: none"> 1. Bandwidth Limit not functioning when port name is used in Traffic selector |

| | |
|---------|--|
| | <ol style="list-style-type: none"> 2. PowerMode is not completely functional. 3. Wan is not getting IP from IPv6 DHCP server in stateful mode. 4. Netperf is unable to pass traffic over IPsec tunnel. 5. Transparent Mode is not supported. 6. Traffic is not going to device's LAN from PPTP/L2TP client after changing WAN ISP, unless PPTP server disables and then enables again. 7. Observed ping loss from WLAN clients to internet. 8. USB file sharing transmission will be disconnected if file size is over 600MB. |
| 1.05B06 | <ol style="list-style-type: none"> 1. Bandwidth Limit not functioning when port name is used in Traffic selector 2. PowerMode is not completely functional. 3. Wan is not getting IP from IPv6 DHCP server in stateful mode. 4. Netperf is unable to pass traffic over IPsec tunnel. 5. Transparent Mode is not supported. |
| 1.01B56 | <ol style="list-style-type: none"> 1. WAN interface need to take 1~1.5 minutes for link up after device power on. 2. Bandwidth Limit not functioning when port name is used in Traffic selector 3. SSL tunnel is being disconnected when user tries to download 200 MB file 4. Admin user is not able to SSH to device 5. Device is not detecting the printer shared port 6. Wan is not getting IP from IPv6 DHCP server in stateful mode. 7. Host MAC clone is not work. 8. Transparent Mode is not supported. |
| 1.01B46 | <ol style="list-style-type: none"> 1. WAN interface need to take 2~3 minutes for link up after device power on. 2. Bandwidth Limit not functioning when port name is used in Traffic selector 3. SSL tunnel is being disconnected when user tries to download 200 MB file 4. Admin user not able to SSH to device 5. Device is not detecting the printer shared port 6. Wan is not getting IP from IPv6 DHCP server in stateful mode. 7. Host MAC clone is not work. 8. PPPoE isn't working in custom MAC address 9. Transparent Mode is not supported. |

Related Documentation:

- Unified Services Router User Manual v1.05
- Unified Services Router CLI Reference Guide v1.04