Release Notes for DrayTek Vigor 2962 (UK/Ireland)

Firmware Version	4.3.2 RC9 – Release Candidate
Release Type	**Optional** – Upgrade to make use of new features
Build Date	9ᵗʰ June 2022
Release Date	5ᵗʰ September 2022
Revision	1832_3397_d13b317
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

Mainline and Release Candidate Firmware Branches:

Mainline - Formal releases of firmware incorporating any bug **fixes** and firmware **improvements.**

Release Candidate - Incorporates **new features**, bug **fixes** and firmware **improvements**.

To change firmware from one branch to another as a precaution take a configuration backup before performing the firmware upgrade

Mainline - 4.3.1.1- Latest release

Release Candidate - 4.3.2 RC9 - Adds new features including multi-language WUI and Smart Action

New Features

1. Added support for multi-language WUI
2. Support for Wired 802.1x for LAN
3. Support for Link Aggregation (LAG) for selected LAN ports
4. Smart Action task automation feature is now available [Application] > [Smart Action] to trigger alerts, disable VPN profiles, schedule an NAT policy rule etc.

Improvements

1. OpenVPN generated certificate is valid for 10 years (previously 1 year only)
2. Improvements for WireGuard VPN stability
3. WireGuard MacOS clients can now use "Set VPN as Default Gateway"
4. Mail Service Objects username and password fields accept up to 128 characters
5. Increased number of characters from 32 to 64 for CN and email fields in [VPN and Remote Access] > [IPsec Peer Identity]
6. Some DrayDDNS logs were incomplete
7. Improvements to the LAN DNS functionality
8. In some circumstances there was high CPU usage and high VPN ping
9. Improved compatibility with DHCP relay and VLAN tagged traffic
10. SSL VPN stability improvements
11. The router could stop responding when SSL VPN dial-out failed in linking state
12. WUI did not render some pages as expected after upgrading to 4.3.1.1 firmware
13. Improved functionality of the 'Ping to Keep Alive' in IPsec NAT mode
14. Router could stop responding when a Load Balance Policy was configured for VPN Trunk
15. In some circumstances untagged PC could obtain an IP from a VLAN tagged subnet

16. Router could stop responding when WAN/LAN IPv6 option was enabled
17. VoIP RTP traffic was sent with an incorrect VLAN tag if route policy was with Force Routing
18. [WAN] > [Multi-VLAN] interfaces were unable to establish the PPPoE connections
19. An SNMPv3 agent could not get any data when using AES algorithm
20. Intermittent packet loss when routing through load balance policy that was set with an IP Alias (High Availability configuration)
21. Remote dial-in users could not access LAN after changing VPN protocols between PPTP and SSL VPN
22. WUI responsiveness improved for [System Maintenance] > [Mac Connection], [VPN and Remote Access] > [Wireguard], [Applications] > [Dynamic DNS] and other pages

Known Issues

1. If the firmware is updated via TFTP, the loader version displayed on the Dashboard may be incorrect, the actual loader version is correct for the firmware.
2. After upgrade, downgrading firmware from [System Maintenance] > [Firmware Upgrade] is not recommended. This is because the new features / config for 4.x.x firmware will not be compatible with the 3.9.x firmware.
Instead, we recommend using the [System Maintenance] > [Configuration Export] - "Restore Firmware with Config" feature, to load the previous configuration file along with the previous firmware.

Firmware File Types

The file name of the firmware controls which upgrade type is performed.

If the file name is unchanged (e.g. *xxxx*.**all**) then the upgrade will just upgrade the firmware, whereas renaming the firmware to a **.rst** extension will wipe all settings back to factory defaults when upgrading the firmware.

Upgrade Instructions

It is recommended that you take a configuration backup prior to upgrading the firmware. This can be done from the router's system maintenance menu.

To upgrade firmware, select *'firmware upgrade'* from the router's system maintenance menu and select the correct file. Ensure that you select the ALL file <u>unless</u> you want to wipe out your router's settings back to factory default.

Manual Upgrade

If you cannot access the router's menu, you can put the router into 'TFTP' mode by holding the RESET whilst turning the unit on and then use the Firmware Utility. That will enable TFTP mode. TFTP mode is indicated by all LEDs flashing. This mode will also be automatically enabled by the router if there is a firmware/settings abnormality. Upgrading from the web interface is easier and recommended – this manual mode is only needed if the web interface is inaccessible.

Firmware Version	4.3.1.1 – Mainline branch (Formal Release)
Release Type	**Regular** – Upgrade recommended when convenient
Build Date	24th August 2022
Release Date	02nd September 2022
Revision	239_3517_95064ee
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Improved Web GUI Security
2. Updated HTTPS mechanism to address the CVE-2022-0778 (OpenSSL)
3. Central AP Management WLAN profiles support 802.11ax and 160 MHz options
4. Hostnames are also supported in the remote management ACL
5. Improved the CPU usage with multiple VPN connections
6. Updated the time graph for CPU usage
7. Router would become inaccessible when rebooted in some circumstances
8. A warning message will appear for reused IP object / IP Group profile that has already been used by other applications
9. OpenVPN dial-in users could not obtain an IP address
10. Some domains fail to resolve when DNS Security was enabled
11. Firewall ignored rules 84 and above
12. BGP compatibility between Vigor and Juniper improved
13. Cipher and HMAC algorithm in OpenVPN would change when .all firmware file was used
14. Some ARP frames did not meet the minimum expected size
15. When downgrading the firmware, some firewall rule directions would become "undefined"
16. Connection speed improvements for NordVPN (IKEv2 EAP)
17. If L2L tunnel can't be established due to authentication errors, other VPN users (IKEv2 EAP) could not connect unless services were restarted

Known Issues

1. If the firmware is updated via TFTP, the loader version displayed on the Dashboard may be incorrect, the actual loader version is correct for the firmware.
2. After upgrade, downgrading firmware from [System Maintenance] > [Firmware Upgrade] is not recommended. This is because the new features / config for 4.x.x firmware will not be compatible with the 3.9.x firmware.
   Instead, we recommend to use the [System Maintenance] > [Configuration Export] - "Restore Firmware with Config" feature, to load the previous configuration file along with the previous firmware.

Firmware Version	4.3.1 – Mainline branch (Formal Release)
Release Type	**Optional** – Upgrade to make use of new features Note: A previous firmware (3.9.6.3) was a critical release. This f/w includes all changes/improvements that were in 3.9.6.3.
Build Date	4th January 2022
Release Date	8th February 2022
Revision	1269_3000_72fac4a
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

Mainline and Stable Firmware Branches:

Stable - Formal releases of firmware incorporating any bug **fixes** and firmware **improvements.**

Mainline - Incorporates **new features**, bug **fixes** and firmware **improvements**.

To change firmware from one branch to another; as a precaution take a configuration backup before performing the firmware upgrade

Stable - 3.9.7.2 - Latest release
Mainline - 4.3.1 - Adds new features including SD WAN, Wireguard VPN features and USB thermometer/storage support

<u>New Features</u>

1. Support for WireGuard VPN protocol, for both LAN to LAN and Remote Dial-In User VPN tunnels.
   This service and its listening ports can be configured from the [VPN and Remote Access] > [WireGuard] menu, and enabled in [VPN and Remote Access] > [Remote Access Control]
2. SD-WAN is now supported in conjunction with VigorACS 3
3. TOTP 2-factor authentication (Google Authenticator) is now available for authenticating Remote Dial-In User VPN connections
4. USB Thermometer support added
5. PIN Generator facility is now available for Hotspot Web Portal
6. Objects can now be exported / imported in bulk, in .csv format from the new [Objects Setting] > [Objects Backup/Restore] menu
7. Webhook feature can now be enabled in [System Maintenance] > [Webhook] to send updates to the monitoring server

<u>Improvements</u>

1. Firewall can restrict/drop unwanted inbound WAN traffic such as VPN requests
   Important Note: The router's firewall block rules can stop remote management and VPN access. It is recommended to review the firewall settings before upgrading

VPN:

1. Improvements to the LAN to LAN VPN profile layout, with the TCP/IP Network Settings simplified to display relevant settings for the selected VPN types
2. "Change default route to *VPNx / None*" added to [VPN and Remote Access] > [LAN to LAN]
3. Support for More Local Network (Multiple SA) in IPsec LAN to LAN profiles
4. VPN services can now be bound to only selected WAN interfaces from the new [VPN and Remote Access] > [Remote Access Control] – Bind to WAN tab

Other Functionality:

1. Support for up to 4 WANs, with at most 2 active WANs at any one time. The additional WAN interfaces can be used for failover
2. Switch Management now supports these additional VigorSwitch models:
    a. VigorSwitch P2100
    b. VigorSwitch G2100
    c. VigorSwitch P2540x
    d. VigorSwitch G2540x
3. [Port Control] now supports specifying "100M Full Duplex fixed" rate for LAN/WAN ports
4. "Bypass" option added to Hotspot Web Portal profiles
5. New reboot options added to [System Maintenance] > [Reboot System]
    a. Using current configuration (Fast reboot) – Restarts DrayOS for minimal downtime
    b. Using current configuration (Normal reboot) – Fully restarts the Vigor 2962
6. Support for either "restore config" or "restore config with specific firmware" added to [System Maintenance] > [Configuration Export]
7. Improved handling of IPTV / Multicast traffic passed by IGMP Relay

Known Issues

1. If the firmware is updated via TFTP, the loader version displayed on the Dashboard may be incorrect, the actual loader version is correct for the firmware.
2. After upgrade, downgrading firmware from [System Maintenance] > [Firmware Upgrade] is not recommended. This is because the new features / config for 4.x.x firmware will not be compatible with the 3.9.x firmware.
   Instead, we recommend to use the [System Maintenance] > [Configuration Export] - "Restore Firmware with Config" feature, to load the previous configuration file along with the previous firmware.

Firmware Version	3.9.7.2 (Formal Release)
Release Type	**Regular** – Upgrade recommended when convenient Note: A previous firmware (3.9.6.3) was a critical release. This f/w includes all changes/improvements that were in 3.9.6.3.
Build Date	23rd December 2021
Release Date	13th January 2022
Revision	1030_663_32d512d
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Improved LAN-to-LAN throughput for OpenVPN tunnels
2. PPPoE dial-in facility now supports up to 200 concurrent connections, up from 20
3. Performance improvements for packet captures in [LAN] > [Port Mirror / Packet Capture] and debug log data in [Diagnostics] > [Debug Logs]
4. Resolved an issue that could cause problems with certificate renewal in some circumstances
5. DNS queries going through the router's DNS did not include the CNAME alias
6. Conditional DNS Forwarding did not work correctly through a VPN tunnel
7. NAT Loopback failed when the IP routed subnet was enabled
8. Improved handling of BGP routing with Cisco routers using a 4-Byte AS number
9. The router will automatically re-generate its self-signed certificate prior to the original expiring, so that the router's self-signed certificate cannot expire while in use
10. VigorAP access points managed through the router's [Central Management] > [AP] > [Status] would show as offline if a Management VLAN was set up on the VigorAPs

Known Issues

1. If the firmware is updated via TFTP, the loader version displayed on the Dashboard may be incorrect, the actual loader version is correct for the firmware.

Firmware Version	3.9.7 (Formal Release)
Release Type	**Regular** – Upgrade recommended when convenient Note: A previous firmware (3.9.6.3) was a critical release. This f/w includes all changes/improvements that were in 3.9.6.3.
Build Date	3rd September 2021
Release Date	26th October 2021
Revision	905_616_d7774eb
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

New Features

1. Support for IKEv2 fragmentation to improve IKEv2 EAP compatibility
2. Email notifications can be sent when a VPN remote dial-in user tunnel is established

Improvements

1. Area ID 0 for OSPF is now supported

Connectivity and System stability:

2. In some circumstances WAN failover feature would not work
3. Current System Time would not display correct time
4. An issue of probable leakage caused by VPN CGI
5. Router would not respond when IPsec was used in some circumstances
6. IKE buffer mechanism improvements for IPsec Peer ID configuration
7. Fixed high CPU usage caused by blank gateway WAN IP address
8. Improved compatibility with IKEv2 Google Cloud
9. Local hosts could not access the Internet via WAN IP (configured with an Alias IP)

VPN:

10. Improved IKEv2 VPN with a static virtual IP configuration (My WAN IP / Phase 2 Network ID)
11. Remote VPN Gateway can be defined by a Domain Name (previously only a static IP address was accepted)
12. SSL VPN stability improvements
13. IKEv2 EAP Host to LAN VPN connection stability improvements
14. RADIUS authentication is bypassed for connections matching VPN LAN to LAN profile
15. Configuration of the VPN mOTP could cause unexpected errors
16. Route policy didn't bypass default VPN route
17. IPsec multiple SA VPN compatibility improvements (e.g. Juniper vSRX)
18. IKEv2 EAP rekey failed when the Limit Connection option was in use
19. Sending DNS queries to the router via VPN (OpenVPN, IKEv2 EAP) improvements
20. The VPN Dial-out profile type was changed to IKEv2 when importing the IKEv2 EAP profile
21. VPN trunk (failover) did not send packets when one of the WANs is down
22. Remote Dial-In IKEv2 EAP couldn't connect if VPN profile specified the Remote VPN Peer IP
23. LAN access to the router did not work when a dial-out IKEv2 VPN active profile was set with remote network 0.0.0.0

Others:

24. IP database for country objects updated
25. VPN Mail Alert log will include Source IP and the total connected time information
26. RADIUS authentication log improvements
27. For LAN to WAN topology OSPF did not exchange the routing LAN subnets details
28. Clients could not access Internet if Gateway was located on BGP peer network
29. Brute Force Protection for VPN (IKEv2 EAP/SSL) was not applied to invalid VPN usernames
30. PPPoE client could not access the Internet when PPPoE server was set with a VLAN tag
31. The local user account in [System Maintenance] > [Administrator Password] login failed if another local user account was deleted

Known Issues

1. If the firmware is updated via TFTP, the loader version displayed on the Dashboard may be incorrect, the actual loader version is correct for the firmware.

Firmware Version	3.9.6.3 (Formal Release)
Release Type	**Critical** – Upgrade recommended immediately
Build Date	06th July 2021
Release Date	08th July 2021
Revision	544_437_95ac18c96
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Improve the WebGUI security

   Please see the security advisory on https://www.draytek.co.uk/support/security-advisories/kb-advisory-jul21

Known Issues

(None)

Firmware Version	3.9.6.2 (Formal Release)
Release Type	**Regular** – Upgrade recommended when convenient
Build Date	18th May 2021
Release Date	14th June 2021
Revision	544_436_95ac18c
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. The number of WAN IP Alias increased to 254
2. "Downtime Limit" for VPN Tunnel notifications added for
   [Objects Setting] > [Notification Object]
3. Username and password for both LAN-to-LAN and Remote Dial-In VPN profiles are increased to 26 characters
4. Fixed an issue with ARP that could clear the ARP cache table in some circumstances
5. Default rule with WCF DNS Filter was not applied after firmware upgrade to latest version
6. In some circumstances route policy could not bypass the VPN default route
7. Let's Encrypt Certificate and IPsec X.509 could not be displayed properly
8. In some circumstanced RADIUS server authentication would fail
9. Wake on LAN sent from WAN did not work if the router was rebooted
10. VPN traffic stopped working after reconnecting PPPoE (WAN interface)
11. A routing issue of the traffic selector matching correct IPsec IKEv2 VPN profile
12. DMZ host could not access the Web server in another LAN
13. Traffic of LAN host were not sent to NATed IPsec Xauth tunnel when a policy-route rule was enabled
14. RADIUS VPN authentication timeout interval can be manually configured
15. A static virtual IP can be configured for IPsec IKEv2 NAT on LAN to LAN VPN

Known Issues

(None)

Firmware Version	3.9.6.1 (Formal Release)
Release Type	**Regular** – Upgrade recommended when convenient
Build Date	26th March 2021
Release Date	05th May 2021
Revision	492_360_bd7d76c
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

New Features

1. Routed subnet traffic can be load-balanced

Improvements

1. Improved the ping response time
2. "Downtime Limit" for VPN Tunnel notifications added for
   [Objects Setting] > [Notification Object]
3. Router would not accept LAN packets over 1514B when VLAN Tags were enabled
4. Copying a file between LAN ports could fail under some specific and uncommon conditions
5. GUI did not respond when many SSL VPN dial-in clients were connecting simultaneously
6. VPN LAN-to-LAN traffic was incorrectly classified as VoIP traffic in Quality of Service
7. A remote VPN gateway can be specified by Domain Name

Known Issues

(None)

Firmware Version	3.9.6 (Formal Release)
Release Type	**Regular** – Upgrade recommended when convenient
Build Date	16th February 2021
Release Date	23rd March 2021
Revision	395_314_bf84f78
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

New Features

1. Add IGMP proxy/snooping, IPv6 to fast path
2. Add SFP module information displayed on [WAN] > [General Setup]
3. Add USB support (storage only, e.g., Syslog to USB disk, web portal)
4. Support WAN Budget
5. Support for VigorACS 2.5.6
6. NAT sessions can now to be configured up to 300K (default 150K)
7. Support Port-based Bridge for [WAN] > [Multi-VLAN]

Improvements

1. Updated MyVigor authentication method used for Web Content Filter license validation
2. Increased the number of firewall filter sets from 12 to 50
3. Support for SNMP monitoring of VPN Tunnels
4. Added RADIUS with 802.1x authentication
5. Add P2 SFP 100Mbps support on Port Setup
6. ICMP ping performance improved (to local router only)
7. Changed the DHCP server pool size from 1K to 4K
8. Support NAT/routing table/load-balance for virtual WAN
9. Support for multiple untagged subnets in the same physical port
10. Schedules can now be applied to profiles for VPN Remote Dial-In
11. Added an option to limit concurrent Remote dial-in user connections allowed per profile
12. Added an option named "primary" to define which port is used in preference when both the SFP and Ethernet WAN combo ports are connected

Known Issues

1. Vigor router doesn't accept LAN packets over 1514B. Max. accepted MTU is 1496 when VLAN Tags are enabled

Firmware Version	3.9.3.1 (Initial Release Firmware)
Release Type	**Initial Release**
Build Date	16th December 2020
Release Date	20th January 2021
Revision	559_94194
Applicable Models	Vigor 2962
Locale	UK & Ireland Only

First Firmware Release for this model

New Features

(None)

Improvements

(None)

Known Issues

(None)

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