Release Notes for DrayTek Vigor 3910 (UK/Ireland)

Firmware Version	4.4.3.4 – Mainline branch (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	27 th March 2025
Release Date	22 nd May 2025
Revision	4926_7605_b8950f82bc
Applicable Models	Vigor 3910
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.

Important Note: Since 4.4.3.2 firmware version there is support for admin password hashing. Please note that if you upgrade to this version and later downgrade to a previous version, the admin password will reset to the default, and you will need to reconfigure it. Other settings will not be affected.

New Features

(None)

- 1. Improvements to the wording; "null" is replaced with "empty"
- 2. Support for TCP protocol for Port Knocking
- 3. Improvements to the update method for User Management's data quota
- 4. BFP (Brute Force Protection) Status added to the Dashboard
- 5. The CMS profiles that are not enabled on the Main Filter page are hidden
- 6. The "Product Registration" is renamed to "Registration & Services"
- 7. New SMS Service Providers added: "sms.mitake.com.tw" and "SerwerSMS.pl"
- 8. A new TR-069 parameter added for [Applications] > [Radius/TACACS+] > [Certificate]
- 9. A note added to explain the 'None' item for Protocol on the [NAT] > [Port Knocking] page
- 10. The "Malloc OSPF config fail" error log has been removed when OSPF is enabled but no profiles are configured
- 11. The Router Policy Name (comment) is displayed in the dropdown menu instead of displaying the "Index number"
- 12. A prompt added to re-enter the verification code when changing other settings on the [NAT] > [Port Knocking] page
- 13. The username length increased in [User Management] and [USB] > [User Management] sections to 32 characters (previous limit was set to 11 characters)
- 14. Enhance of the DPDK Anti-DoS mechanism to reduce high CPU usage caused by UDP broadcast/multicast floods that could lead to instability of the router

- 15. Fix for the STUN server related issues
- 16. Buffer management improvements related to SSL VPN service
- 17. The router could become unresponsive after enabling login with 2FA
- 18. The all traffic (0.0.0.0/0) through VPN improvements
- 19. Some of the IGMP Status information was incorrect
- 20. The WAN IP object/group wasn't listed in firewall source IP
- 21. Improvements related to the high CPU usage caused by UDP broadcast/multicast flood
- 22. Fix for the connection issues related to the IPsec X.509 H2L VPN
- 23. Fix for sending SMS via MessageBird or custom settings
- 24. RADIUS Request Interval improvements
- 25. High Availability Hot-Standby Config Sync was not functioning correctly
- 26. Improvements to the WANx prioritization for DrayDDNS when using Internet IP
- 27. Improvements with the log for updating an external device turned into garbled text
- 28. The Syslog client failed to work when using the WAN Alias IP
- 29. Improvements to the DoS attack mechanism that could cause high CPU usage and make the router unresponsive
- 30. Fix an issue where creation of a Let's Encrypt certificate with No-IP domain did not work
- 31. The router could become unresponsive while establishing the 3rd IKEv2 EAP VPN connection
- 32. Improvements to the online status showing "Fiber" even when the Ethernet connection was selected
- 33. The correct icon is displayed for VigorAP 918R, VigorAP 805, and VigorAP 962C via APM
- 34. Fix for the firewall block issue where a rule was set with WAN->Localhost direction and was ignored by the system after 5 minutes
- 35. Fix for the issue where router could become unresponsive when logging into the WUI with TOTP after downgrading from 4.4.3.2 to 4.4.3.1
- 36. Improvements to the WAN RX Packet Count that displayed negative values when using the CLI command "show state"
- 37. Fix an issue where the Gateway setting appeared if WAN/LAN was selected for the Failover to option on [Routing] > [Route Policy]
- 38. Improvements to the router stability related to dray_dpdk, QEMU and configuration backup job via VigorACS server
- 39. Fix for the issue where Internal Syslog Server continued to receive Syslog from the WAN, even after the NAT Open Port rule was disabled
- 40. The IKEv2 VPN was disconnecting when a Peer Domain Name was specified and receiving DNS server responses with a TTL of 0
- 41. When using the packet capture function on the web interface, P1 was incorrectly set to enabled even after stopping the packet capture function

- 1. 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.

- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration
- 5. The TR-069 parameters for [Application] > [Smart Action] is not completed yet
- 6. To prevent potential errors when upgrading firmware, it is recommended to upgrade firmware sequentially one version at a time (e.g., if the current firmware is 3.9.1, upgrade to 3.9.2 then 3.9.7.2, and then to the latest version)
- 7. After upgrading to 4.4.3 or later firmware, the maximum number of NAT connections will decrease to 500k

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	4.4.3.2 – Mainline branch (Formal Release)
Release Type	Critical – Upgrade recommended immediately
Build Date	28 th November 2024
Release Date	24 th December 2024
Revision	4859_7498_8085331
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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.

Important Note: This version introduces support for admin password hashing. Please note that if you upgrade to this version and later downgrade to a previous version, the admin password will reset to the default, and you will need to reconfigure it. Other settings will not be affected.

New Features

(None)

- 1. Web GUI Security Improvements
- 2. [System Maintenance] > [Configuration Export] page design updates
- 3. Unused WAN interfaces have been removed from NAT WUI
- 4. IP Filter name added in Syslog
- 5. Link Aggregation ports are shown on the WUI Dashboard page
- 6. Improvements to user management feature where client data quota was not recorded after router reboot
- 7. The "Traffic Graph" name replaced with "Traffic/Resources Graph" under the Diagnostics section
- 8. The description of Dray DDNS changed to DrayDDNS in Service Status Log
- The "Domain Name Allowed" in [System Maintenance] > [Management] > [LAN Access Setup] feature description note updated
- 10. The warning messages about the firmware damage updated for clarity purposes
- 11. The WAN DHCP Client Options ASCII Character Data limit extended from 62 to 127
- 12. Support added for responding to ARP Probe packets
- 13. The "optional" note added for [Objects Setting] > [IP Object] for MAC Address selection
- 14. The hyperlink for "Configuration Export" added on [System Maintenance] > [Firmware Upgrade]
- 15. Users are no longer required to clear the "Decline VRRP MAC into ARP table" checkbox in [Firewall] > [Defense Setup] before successfully establishing a Starlink connection
- 16. Compatibility improvements linked with session limit for Meraki VPNs
- 17. WireGuard VPN users could not access Vigor's web interface
- 18. Fixed auto restart schedule feature

- 19. The Online Status page did show two USB temper icons when only one sensor was connected
- 20. Improvements to system stability and compatibility with IPTV connections
- 21. VPN log details shown incorrect direction in WUI
- 22. Block list not showing when IP is blocked via Data Flow Monitor
- 23. Router's stability improvements linked with QEMU system
- 24. Data Flow Monitor can display sessions of non-directly connection IPs (subnets)
- 25. The [Diagnostics] > [NAT Sessions Table] WUI page did not display all the data
- 26. Failed to restore [NAT] > [Port Redirection]/[Open Ports] .bak file
- 27. Fixed the issue with PPPoE dialling failure due to conflicting static and dynamic WAN IP settings
- 28. Router's system improvements linked to the External Devices feature and their password containing '%' character
- 29. Improvements to the IPsec VPN connection to the server via domain name where the server changes IP (Incorrect DNS cache time)
- 30. Fix for the columns alignment in [VPN and Remote Access] > [Connection Management]
- 31. The redundant "Clear All" button has been removed from [Applications] > [Dynamic DNS]
- 32. Improvements to the authentication method configuration for local admin users, and support admin password hashing

- 1. 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration
- 5. The TR-069 parameters for [Application] > [Smart Action] is not completed yet
- 6. To prevent potential errors when upgrading firmware, it is recommended to upgrade firmware sequentially one version at a time (e.g., if the current firmware is 3.9.1, upgrade to 3.9.2 then 3.9.7.2, and then to the latest version)
- 7. After upgrading to 4.4.3 or later firmware, the maximum number of NAT connections will decrease to 500k

Firmware Version	4.4.3.1 – Mainline branch (Formal Release)
Release Type	Critical – Upgrade recommended immediately
Build Date	16 th August 2024
Release Date	30 th September 2024
Revision	4701_7306_15e852a
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

Before upgrading to 4.4.3.1, please upgrade to 4.3.2.7 to avoid configuration compatibility first.

New Features

(None)

- 1. Web GUI Security Improvements
- 2. Fix an issue related to the WCF improvements
- 3. The RADIUS timeout increased to 120 seconds
- 4. Support for Auto-check WAN MTU for PPPoE connections
- 5. Support for multiple untagged PPPoE on the same port
- 6. The country code in mail alert for VPN connections added
- 7. The Blocked IP List page displays the unit for Block Time [Firewall] > [Defense Setup] > [Brute Force Protection]
- 8. Support for unlimited quota for Customized SMS Service Object
- 9. Support for WAN alias IP for Server Load Balance and Port Knocking
- 10. Webhook Server URL character limit increased from 64 to 200 characters
- 11. Support for complete certificate chain for IKEv2 EAP VPN authentication
- 12. Management/SNMP WUI no longer requires a router reboot
- 13. A new log alert added: "VPN service is disabled for WANx" when VPN service is not enabled
- 14. Support for customizing the port in "Vigor Router SMS Gateway" (SMS Service Object)
- 15. Support for Vigor management from TR-069 servers using either uppercase or lowercase HTTP headers
- 16. The Port Knocking as Source IP added for [NAT] > [Open Ports] and [NAT] > [Port Redirection] added
- 17. Improvements to the performance of the User Management feature by eliminating unnecessary HTTPS page redirection
- 18. The IP search box added to [System Maintenance] > [Management] for Blocked IP List (Brute Force Protection)
- 19. Improvements to the Port Knocking for Local Service and Brute Force Protection on the [System Maintenance] > [Management] page
- 20. Advanced notifications added for expiring certificates to Syslog to prevent connection issues
- 21. A note added about the VPN support for LDAP/AD Authentication on [VPN and Remote Access] > [PPP General Setup]
- 22. The Port Knocking Tools download link added on the of [NAT] > [Port Knocking] and [System Maintenance] > [Management] pages

- 23. A local certificate with an expiration date less than or equal to 397 did not get a warning message after modification
- 24. Improvements to the buffer overflow mechanism for SSL VPN
- 25. Improvements to the reversed Internet IP for DrayDDNS
- 26. Improvements to the connect compatibility with third-party ACS
- 27. Fix an issue with the PPTP VPN failure from Android Phone
- 28. Fix an issue with failure to set a hotspot with the created API
- 29. Restore backup NAT configuration did not work
- 30. Improvements to the Remote Dial-in User's IPsec Peer Identity feature
- 31. Improvements to the WUI where some NAT-related features would allow to select unused WAN interfaces
- 32. The router could stop responding after enabling the WCF
- 33. Improvements to the host display mechanism on [Diagnostics] > [Data Flow Monitor]
- 34. Improvements to the issues with import/export configuration mechanism related to long integer values
- 35. The Management option on [WAN] > [Multi-VLAN] was missing
- 36. After the firmware upgrade, the Firewall Filter Set 1 was empty
- 37. The router could stop responding while the remote dial-in user profile was edited
- 38. An issue with failure to open [Bandwidth Management] > [Quality of Service]
- 39. The LAN DNS firmware compatibility improvements
- 40. The router could stop responding when the countrack table is full
- 41. The SFP P1 link was up (1Gbps) but no ARP entry was observed after upgrading to 4.4.3 firmware
- 42. The graphics of Login Page Greeting in WUI when using HTTP is now adjusted
- 43. The unnecessary character has been removed from [Diagnostics] > [NAT Sessions Table]
- 44. Network stability improvements for OpenVPN
- 45. The router did not renew DrayDDNS the WAN IP address changed
- 46. The Delete and Rename options were missing on the [USB Application] > [File Explorer] page
- 47. The password and pre-shared key for VPN LAN-to-LAN are hidden on the backup file
- 48. The Open Port option failed to direct the traffic to a virtual server which had two IP addresses
- 49. SSL VPN LAN-LAN in NAT mode did not allow to reach the remote network
- 50. An error message appeared on User Management after enabling Validation Code
- 51. The CPE device lost Internet access via high availability while using two switches
- 52. Fix for the WANx first for the DrayDDNS service not working when the Internet IP was used
- 53. The wrong direction was displayed for VPN Log Details on [Diagnostics] > [VPN Graph]
- 54. The DDNS could fail to update correctly while HA status was not yet complete during the boot process
- 55. Correction for the WUI login logs that were displayed under User Access instead of Others on Syslog
- 56. Incorrect values were displayed when editing a filter rule with the direction set to WAN-> LAN/RT/VPN
- 57. The URL Filter did not block HTTPS websites when TLS 1.3 hybridized Kyber was enabled in the browser

- 58. Improvements to the Hotspot HTTPS redirection not working when Vigor HTTPS management port was set to a non-default value
- 59. Fix an issue where NAT Port Redirection Rule (e.g., index 2) was disabled automatically when modifying rules on other pages

- 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration
- 5. The TR-069 parameters for [Application] > [Smart Action] is not completed yet
- 6. To prevent potential errors when upgrading firmware, it is recommended to upgrade firmware sequentially one version at a time (e.g., if the current firmware is 3.9.1, upgrade to 3.9.2 then 3.9.7.2, and then to the latest version)
- 7. After upgrading to 4.4.3 firmware, the maximum number of NAT connections will decrease to 500k

Firmware Version	4.4.3 – Mainline branch (Formal Release)
Release Type	Critical – Upgrade recommended immediately
Build Date	10 th May 2024
Release Date	28 th August 2024
Revision	4292_6919_84d271f
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

Before upgrading to 4.4.3, please upgrade to 4.3.2.7 to avoid configuration compatibility first.

New Features

- 1. Support for [NAT] > [Server Load Balance]
- 2. Support for Port Knocking (for local service)
- 3. Support for TLS 1.3 added to [System Maintenance] > [Management]
- 4. TOTP for Remote Web Management added on the [System Maintenance] > [Administrator Password] page
- 5. New VPN features: VPN Isolation, VPN packer capture, Active Directory and 2FA for VPN users, IPSec AES-GCM and SHA-512 authentication

- 1. The VPN Traffic Graph added to [Diagnostics] > [VPN Graph] section
- 2. The Primary router can synch Time & Date settings for High Availability
- 3. The VPN Peer IP country info added into the VPN Connection Status section
- 4. Enhancements for Brute Force Protection, DoS and Firewall
- 5. A new notification object added for Fail login and Brute Force Protection Alerts
- 6. The number of supported Radius clients increased from 30 to 200
- 7. Support for the new Fast NAT option to skip the DNS packet inspection to reduce the CPU load in a specific environment
- 8. Fix an issue with the VPN Log Details WUI that showed wrong direction
- 9. The DoS Defense could fail to stop TCP SYN flood attacks
- 10. The User data quota in User Management did not work
- 11. The LAN port traffic information could not be reported by PRTG software
- 12. Fix to the firewall that did not block incoming ICMP packets from VPN LAN to LAN
- 13. Improvements to the SMS customized object
- 14. Fix an issue where 200 IPsec dial-out VPNs (neither NordVPN nor IP Vanish) could not go online after the system reboot
- 15. The inbound/outbound VoIP traffic could fail when the "Allow pass inbound fragmented large packets" was disabled/enabled
- 16. Improvements to the URL Reputation mechanism where some website could not be blocked and the "Get Request Resource Failure" showed in the syslog
- 17. An issue with failure to dial-up IPsec VPN to the server with Domain Name when the server changed to a new IP

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 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration
- 5. The TR-069 parameters for [Application] > [Smart Action] is not completed yet
- 6. To prevent potential errors when upgrading firmware, it is recommended to upgrade firmware sequentially one version at a time (e.g., if the current firmware is 3.9.1, upgrade to 3.9.2 then 3.9.7.2, and then to the latest version)
- 7. After upgrading to 4.4.3 firmware, the maximum number of NAT connections will decrease to 500k

Firmware Version	4.3.2.7 – Mainline branch (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	7 th May 2024
Release Date	19 th June 2024
Revision	367_4197_3248cd1
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

(None)

Improvements

- 1. Password mechanism changed to force admin to change the password from the default password
- 2. Fix for the IPsec X.509 VPN packet size
- 3. Improvements to the WAN interface selection / WAN IP address shown in the PVC/WAN
- 4. Web GUI security improvements (jQuery update to 3.5.1)
- 5. The Let's Encrypt certificate failed to auto-renew
- 6. In some cases Windows L2TP IPsec VPN could disconnect every 8 hours
- 7. Login from a VPN subnet or non-directly connected LAN could fail
- 8. The UDP session over WireGuard VPN wasn't released after the VPN reconnection

Known Issues

- 1. 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration
- 5. The TR-069 parameters for [Application] > [Smart Action] is not completed yet

To prevent potential errors when upgrading firmware, it is recommended to upgrade firmware sequentially one version at a time (e.g., if the current firmware is 3.9.1, upgrade to 3.9.2 then 3.9.7.2, and then to the latest version)

Firmware Version	4.3.2.6 – Mainline branch (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	2 nd January 2024
Release Date	9 th February 2024
Revision	354_4126_de9d8a1
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

(None)

Improvements

- 1. Improvements to the WUI security
- 2. Fix for the WCF URL Reputation Get [Send Query Failure] & [Abnormal Server Response] errors
- 3. WCF/DNSF didn't work when the domain name exceeded 63 characters
- 4. In some circumstances SNMP could stop working after a few days of use
- 5. Fix for the DrayDDNS WAN IP updates
- 6. Fix for the use of IP alias with the mail objects
- 7. IPsec VPN rekeying could cause packet drops
- 8. In some circumstances firewall settings unexpectedly blocked IPv6 packets
- 9. The web portal image could not be displayed
- 10. The Specify Peer IP function didn't work with WireGuard LAN to LAN profile
- 11. The IKEv2 EAP connection via iPhone built-in VPN client could not be established
- 12. When HTTP Management Port was changed, port 80 would still respond
- 13. Remote VPN clients could not ping router's LAN IP when connected via IPsec LAN to LAN VPN tunnel

- 1. 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration
- 5. The TR-069 parameters for [Application] > [Smart Action] is not completed yet

Firmware Version	4.3.2.5 – Mainline branch (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	28 th September 2023
Release Date	3 rd November 2023
Revision	350_4073_196e127
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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

New Features

1. Support for the new WCF service – URL Reputation. If you have an existing activate licence, then this will be upgraded to the URL Reputation licence

Improvements

- 1. IP database for country objects updated
- 2. The [System Resource > Memory Usage] section on the Dashboard is showing DrayOS memory usage only
- 3. Fix an issue where forcing HTTPS connection to SMS provider did not work
- 4. Fix for IGMP not working correctly if both WAN1 and WAN2 were online
- 5. The SNMP settings were not available when SNMPv3 only was enabled
- 6. MyVigor product registration link could not be opened from router's WUI
- 7. Port 443 from LAN could be detected despite of disabling all known services
- 8. Fix for the firmware upgrade mechanism that was likely to be unsuccessful when MAX connection set to 1000K
- 9. The router could stop responding when IKEv2 re-dialled and the local ID was set to 32 characters
- 10. Multiple WANs with the same IP could affect services such as Hotspot Web Portal and VPN
- 11. Improvements to the IPSec multiple SA using phase2 network ID function
- 12. The TOTP 2FA pop up was not shown on SmartVPN Client if router's LAN DHCP scope was outside of the first 254 addresses of the network

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 - 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.

- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration
- 5. The TR-069 parameters for [Application] > [Smart Action] is not completed yet

Firmware Version	4.3.2.4 – Mainline branch (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	25 th May 2023
Release Date	29 th July 2023
Revision	342_3979_6e34c6d
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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

New Features

(None)

Improvements

- 1. Improvements to the Web GUI Security
- 2. The "-" character can be used with the recipient number on the [Applications] > [SMS/Mail alert] configuration pages
- 3. [LAN] > [Wired 802.1x] new menu item added
- 4. Fix for the IPsec MultiSA VPN dial-up delay issue
- 5. VPN remote dial-in clients could not access the local server using the WAN Alias IP
- 6. 2FA web authentication via Telegram
- 7. Wrong source LAN IP was displayed by Ping Diagnosis
- 8. Access to the WUI did not work if an apostrophe was used
- 9. Sometimes MacOS/iOS VPN Remote Dial-in users could not reconnect over the IPSec protocol
- 10. Fix for the [Dashboard] > [Security] > [DoS] section displaying correct information when an attack was detected
- 11. Some Internet traffic was sent via non-existing WAN9 interface
- 12. The router could stop responding when downloading the debug log
- 13. Fixed an issue with the special character á in the "Receiving PIN via SMS Content" textbox for Hotspot Web Portal
- 14. The memory usage bar (Dashboard) was using the wrong (red) colour

- 1. 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration

Firmware Version	4.3.2.3 – Mainline branch (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	29 th March 2023
Release Date	26 th April 2023
Revision	333_3924_5ab4adc
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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

New Features

 The new [NAT] > [Fast NAT] menu item added to increase the number of sessions established per second

- 1. Improvements to the [WAN] > [Multi-VLAN] port-based bridge performance
- 2. The default [System Maintenance] > [Max Connection] value is 300K
- 3. SSL TLS Encryption 1.0 and TLS 1.1 in now disabled by default
- 4. Improvements to the route policy sent via WAN IP Alias
- 5. Fixed an issue with Canon printers that could not obtain a DHCP IP address
- 6. Improvements to the ICMP ping via the BGP route
- 7. WAN3 and WAN4 did not work simultaneously
- 8. MyVigor could not be connected after rebooting the router with Wipe Out All
- 9. Fixed an issue with the user-based firewall where only those users that fulfil the rule would be impacted
- 10. PIN could not be sent via SMS when the recipient number contained +(country code) character
- 11. IKEv2 VPN connection could drop every two hours
- 12. In some circumstances the L2TP over IPsec VPN connection to Synology NAS could disconnect
- 13. Multiple VPN tunnels could get disconnected due to an invalid server domain entered in the VPN profile 1
- 14. Remote IP not included in Access List could see the login page when HTTPS remote access and SSL VPN services were enabled
- 15. The host of the routed subnet was not accessible even when inter-lan routing was enabled
- 16. The firewall could stop working when the "IP Group (or IPv6 Group or Service Type Group)" contained a large number of IP objects

- 1. 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management
- 3. The encryption method for OpenVPN will be factory defaulted if firmware is upgrading from v3.9.7 to v4.3.1 or above
- 4. Configuration backup settings restored from 4.3.2 firmware may be incorrect. Please check inter-LAN routing settings after uploading the configuration

Firmware Version	4.3.2.2 – Mainline branch (Formal Release)
Release Type	Critical – Upgrade recommended immediately
Build Date	10 th January 2023
Release Date	3 rd March 2023
Revision	301_3844_df764e0 V400_RD3_432
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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

New Features

(None)

Improvements

- 1. Improvements to the Web GUI Security (CVE-2023-23313)
- 2. SFP module information added to [WAN] > [General Setup]
- 3. Admin authentication can be linked with the TACACS+ server
- 4. APPE version updated from 15.27 to 15.29 (able to block AnyDesk)
- 5. Ports P3/P4 setup includes new selection for the speed drop-down menu: "Auto, 2.5G_AN, 1G_AN, 100M_AN"
- 6. In some circumstances DNS forwarding did not work
- 7. Static route did not work for packets originated from Inter-LAN subnets
- 8. The VPN config backup did not restore the 'more' remote subnet section of the VPN profile

- 1. 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.
- 2. Users logging into the web portal may cause the router to be too busy to respond quickly to the Web UI for management

Firmware Version	4.3.2.1 – Mainline branch (Preview Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	11 th November 2022
Release Date	20 th December 2022
Revision	266_3711_ce83dc5
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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

New Features

1. The [Routing] > [Load-Balance/Route Policy] profiles support "Session-Based" and "IP-Based" modes

Improvements

- 1. Daylight saving time will be enabled automatically
- 2. [LAN] > [Bind IP to MAC] comment entries can now have up to 31 characters
- 3. OpenVPN stability improvements
- 4. IPv6 NAT throughput improved for all subnets (LAN1 wasn't affected)
- 5. Fixed an issue where WAN (Static IP mode) reconnects often in HA hot standby mode
- 6. Router could stop responding when APM profile was sent to APs frequently
- 7. 2FA authentication code via SMS wasn't working
- 8. The WAN IP Alias interface selection was missing in Service Status section
- 9. In some circumstances dial-up NordVPN via OpenVPN LAN to LAN could not connect
- 10. Hotspot Web Portal settings could disappear after the reboot of the router
- 11. NAT loopback traffic was blocked wrongly when Firewall Default Rule was set to Block
- 12. The router's firewall default block rule could stop remote management, VPN access, and other local services
- 13. The USB thermometer (TEMPer1F_V3.4) could not be detected after the router reboot
- 14. Let's Encrypt auto renew certificate feature could fail due to the mismatch certificate and router domain
- 15. In some circumstances access to the router via WUI (http or https) could fail

- 1. 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 Version	4.3.2 – Mainline branch (Preview Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	24 th August 2022
Release Date	16 th September 2022
Revision	239_3517_95064ee
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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

New Features

- 1. Added support for multi-language WUI
- 2. Smart Action task automation feature can be run via CLI to trigger alerts, disable VPN profiles, schedule an NAT policy rule etc.
- 3. Central Switch Management supports new VigorSwitches including FX2120, PQ2200xb, Q2200x, P1282, and G1282
- 4. UDP broadcast traffic can be sent over VPN

- 1. The APPE module upgrade from 15.25 to 15.27
- 2. Router's local services such as NTP and Mail Alerts did not work via WAN IP Alias addresses
- 3. MSS value will automatically change according to the MTU value (MSS = MTU 140)
- 4. Mail Service Objects username and password fields accept up to 128 characters
- 5. In some circumstances there was high CPU usage and high VPN ping
- 6. Improved compatibility with SUMITOMO modems
- 7. VPN clients could obtain a duplicated IP address when DHCP relay was enabled
- 8. The router could stop responding when SSL VPN dial-out failed in linking state
- 9. WUI did not render some pages as expected after upgrading to 4.3.1.1 firmware
- 10. Router could stop responding when a Load Balance Policy was configured for VPN Trunk
- 11. Central Switch Management is now compatible with more than 15 LANs/VLANs
- 12. Remote dial-in users could not access LAN after changing VPN protocols between PPTP and SSL VPN
- 13. Virtual WAN traffic improvements
- 14. [WAN] > [Multi-VLAN] interfaces were unable to establish the PPPoE connections
- 15. Improvements to the LAN DNS functionality
- 16. OpenVPN generated certificate is valid for 10 years (previously 1 year only)
- 17. Improvements for WireGuard VPN stability
- 18. WireGuard MacOS clients can now use "Set VPN as Default Gateway"
- 19. TR-069 socket management improvements
- 20. Some DrayDDNS logs were incomplete

- 21. SFP LEDs did not work as expected
- 22. IKEv2 VPN users were disconnected during the rekey process
- 23. Improved compatibility with DHCP relay and VLAN tagged traffic
- 24. SSL VPN stability improvements
- 25. In some circumstances untagged PC could obtain an IP from a VLAN tagged subnet
- 26. Router could stop responding when WAN/LAN IPv6 option was enabled
- 27. An SNMPv3 agent could not get any data when using AES algorithm
- 28. Intermittent packet loss when routing through load balance policy that was set with an IP Alias (High Availability configuration)

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 Version	4.3.1.1 – Mainline branch (Preview Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	19 th April 2022
Release Date	26 th May 2022
Revision	146_3126_869f846
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

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

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. Improved the CPU usage with multiple VPN connections
- 5. Router would become inaccessible when rebooted in some circumstances
- 6. A warning message will appear for reused IP object / IP Group profile that has already been used by other applications
- 7. OpenVPN dial-in users could not obtain an IP address
- 8. BGP compatibility between Vigor and Juniper improved
- 9. Some ARP frames did not meet the minimum expected size

Known Issues

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 Version	4.3.1 – Mainline branch (Preview 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	08 th March 2022
Release Date	08 th April 2022
Revision	140_3094_04ec693
Applicable Models	Vigor 3910
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

New Features

- 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

Improvements

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
- 5. Fixed VPN IKE buffer leakage when the VPN peer (Google Cloud) used AES_GCM as the phase1 proposal
- 6. Corrected an issue with high CPU usage when running many IPsec tunnels

Other Functionality:

- 1. Switch Management now supports these additional VigorSwitch models:
 - a. VigorSwitch P2100
 - b. VigorSwitch G2100
 - c. VigorSwitch P2540x
 - d. VigorSwitch G2540x
- 2. [Port Control] now supports specifying "100M Full Duplex fixed" rate for LAN/WAN ports
- 3. "Bypass" option added to Hotspot Web Portal profiles
- 4. 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 3910
- 5. Support for either "restore config" or "restore config with specific firmware" added to [System Maintenance] > [Configuration Export]
- 6. Improved handling of IPTV / Multicast traffic passed by IGMP Relay
- 7. Increased number of Object profiles:
 - a. IPv4 Object profiles increased to 500
 - b. IPv6 Object profiles increased to 200
 - c. Service Type Object profiles increased to 500
- 8. Resolved an issue with DNS security

- 1. 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 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	21 st December 2021
Release Date	13 th January 2022
Revision	63_662_dbe6d00
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

(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. Improved handling of BGP routing with Cisco routers using a 4-Byte AS number
- 8. 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
- 9. 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

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- Firmware downgrade affects Bind IP to MAC:
 If downgrading from 3.9.2.x firmware to 3.9.1, take a backup of the Bind IP to MAC settings.
 These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.7.1 (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	11 th October 2021
Release Date	26 th October 2021
Revision	54_625_7ce12ae
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

- 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
- 2. Increase IGMP proxy and IGMP snooping table

Connectivity and System stability:

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

VPN:

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

24. 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:

- 25. IP database for country objects updated
- 26. VPN Mail Alert log will include Source IP and the total connected time information
- 27. RADIUS authentication log improvements
- 28. For LAN to WAN topology OSPF did not exchange the routing LAN subnets details
- 29. Clients could not access Internet if Gateway was located on BGP peer network
- 30. Brute Force Protection for VPN (IKEv2 EAP/SSL) was not applied to invalid VPN usernames
- 31. PPPoE client could not access the Internet when PPPoE server was set with a VLAN tag
- 32. The local user account in [System Maintenance] > [Administrator Password] login failed if another local user account was deleted
- 33. NAT loopback could fail when LAN in routing mode or IP routed subnet were enabled
- 34. Routed streaming traffic could stop after 10 minutes

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- 2. Firmware downgrade affects Bind IP to MAC:

 If downgrading from 3.9.2.x firmware to 3.9.1, take a backup of the Bind IP to MAC settings.

 These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.6.3 (Formal Release)
Release Type	Critical – Upgrade recommended immediately
Build Date	06 th July 2021
Release Date	08 th July 2021
Revision	9_454_3f658b8
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

(none)

Improvements

1. Improve the WebGUI security.

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

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- 2. Firmware downgrade affects Bind IP to MAC:

 If downgrading from 3.9.2.x firmware to 3.9.1, take a backup of the Bind IP to MAC settings.

 These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.6.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	14 th May 2021
Release Date	08 th July 2021
Revision	1644_436_312e1ad
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

1. Routed subnet traffic can be load-balanced

- 1. Improved the ping response time
- 2. Weight and Prepend options for BGP added in [Routing] > [BGP] > [Neighbour Setup]
- 3. "Downtime Limit" for VPN Tunnel notifications added for [Objects Setting] > [Notification Object]
- 4. Username and password for both LAN-to-LAN and Remote Dial-In VPN profiles are increased to 26 characters
- 5. Router did not route VPN traffic correctly if dial-out WAN IP is used in IP routed subnet
- 6. Default rule with WCF DNS Filter was not applied after firmware upgrade to 3.9.6
- 7. In some circumstances route policy could not bypass the VPN default route
- 8. An active IPSec tunnel to a 3rd party VPN endpoint would reconnect every 60 minutes
- 9. Ping Detect option on [Diagnostics] > [Traffic Graph] page did not display any data
- 10. In some circumstanced RADIUS server authentication would fail
- 11. Wake on LAN sent from WAN did not work if the router was rebooted
- 12. VPN traffic stopped working after reconnecting PPPoE (WAN interface)
- 13. Accessing the WUI via mOTP by local administrator improvements
- 14. Fixed configuration of TR069 and Time and Data settings when using WAN IP Alias
- 15. DMZ host could not access the Web server in another LAN
- 16. Packets would still reach LAN DMZ host after disabling DMZ setting from WUI
- 17. VPN LAN-to-LAN traffic was incorrectly classified as VoIP traffic in Quality of Service
- 18. Traffic of LAN host were not sent to NATed IPsec Xauth tunnel when the policy-route rule was enabled
- 19. WAN's static IP can be set without specifying a gateway
- 20. RADIUS VPN authentication timeout interval can be manually configured
- 21. A remote VPN gateway can be specified by Domain Name
- 22. Mail Service Object supports StartTLS
- 23. A static virtual IP can be configured for IPsec IKEv2 NAT on LAN to LAN VPN

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- 2. Firmware downgrade affects Bind IP to MAC:

 If downgrading from 3.9.2.x firmware to 3.9.1, take a backup of the Bind IP to MAC settings.

 These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.6 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	17 th February 2021
Release Date	23 rd March 2021
Revision	1540_314_3fbf1a1
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

- 1. Increased the router's capabilities:
 - a. Firewall: Increased firewall filter sets from 12 to 50
 - b. LAN Subnets: Increased from 50 to 100 total subnets
 - c. WAN IP Alias: Increased from 32 per-WAN to 300 per-WAN
- 2. Add IGMP proxy/snooping, IPv6 to fast path
- 3. Add USB support (storage only, e.g., Syslog to USB disk, web portal)
- 4. Support WAN Budget
- 5. Support Port-based Bridge for [WAN] > [Multi-VLAN]

- 1. Updated MyVigor authentication method used for Web Content Filter license validation
- 2. Support for SNMP monitoring of VPN Tunnels
- 3. Added RADIUS with 802.1x authentication
- 4. ICMP ping performance improved (to local router only)
- 5. Changed the DHCP server pool size from 1K to 4K
- 6. Support NAT/routing table/load-balance for virtual WAN
- 7. Support for multiple untagged subnets on the same physical port
- 8. Schedules can now be applied to profiles for VPN Remote Dial-In
- 9. Added an option to limit concurrent Remote dial-in user connections allowed per profile

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- 2. Firmware downgrade affects Bind IP to MAC:

 If downgrading from 3.9.2.x firmware to 3.9.1, take a backup of the Bind IP to MAC settings.

 These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.2.5 (Formal Release)
Release Type	Critical – Upgrade recommended immediately
Build Date	16 th December 2020
Release Date	26 th January 2021
Revision	1497_94184
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

1. Brute Force Protection can now be applied to the router's VPN services

Improvements

- 1. Improved precision of System Uptime counter
- 2. OpenVPN WUI error fixed
- 3. Corrected: private keys used in the RSA certificate
- 4. Improved mechanism of memory management
- 5. Improved operation of bandwidth limit auto-adjust
- 6. WANs 5-8 could not use prefix MAC address other than "00-1d-aa-"
- 7. Improvements to L2TP protocol VPN server

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- 2. Firmware downgrade affects Bind IP to MAC:

 If downgrading from 3.9.2.x firmware to 3.9.1, take a backup of the Bind IP to MAC settings.

 These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.2.4 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	8 th October 2020
Release Date	3 rd November 2020
Revision	1456_93809
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

1. Support for BGP prepending

Improvements

- 1. LAN to LAN VPN profile improvements: "Enable PING to keep IPsec tunnel alive" option for all LAN subnets added
- 2. OpenVPN WUI error fixed
- 3. Corrected: rekey for IPsec XAuth connection
- 4. TX/RX display improvements for virtual WANs
- 5. Router did not respond to SNMP requests when SNMP Host IP subnet was larger than /32
- 6. In some conditions with High Availability, config sync could cause the secondary router to restart more frequently than necessary
- 7. Router's Mail Alert compatibility improved with Office365, Hotmail, and Outlook mail servers
- 8. VLANs 15 to 19 did not appeared properly on [Central Management] > [Switch] > [Profile]
- 9. Improved VoIP connections and Ping response time on WAN/LAN interfaces while VPN is established
- 10. The new firmware upgrade process required an additional reboot to update

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- Firmware downgrade affects Bind IP to MAC:
 If downgrading from 3.9.2.x firmware to 3.9.1, take a backup of the Bind IP to MAC settings.
 These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.2.3 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	11 th August 2020
Release Date	17 th September 2020
Revision	1332_90943
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

(none)

Improvements

- 1. Ports P1 and P2 support 1G_AN mode that can be selected in [Port Setup] section
- 2. The Router's self-signed certificate will change upon upgrade for compatibility with new browser certificate requirements.
 - Starting from September 2020, many client OS & browsers will limit publicly trusted TLS server certificate lifetime to 398 days or less, and connections will be rejected if certificates exceed this. This firmware patch will automatically re-sign all self-signed certificate lifetimes to 395 days (was 2 years or longer in older versions)
- 3. Improved fragments/buffer handling mechanism
- 4. LAN to LAN IPsec VPN would drop in some circumstances
- 5. Improved stability of WAN connection
- 6. An issue of DHCP obtaining wrong gateway address

- 3. Firmware downgrade affects Route Policy rule's "Failover" and "To" settings: If downgrading from 3.9.2.2 firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- 4. Firmware downgrade affects Bind IP to MAC:
 - If downgrading from 3.9.2.1 or 3.9.2.2 to firmware to 3.9.1, take a backup of the Bind IP to MAC settings. These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.2.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	3 rd June 2020
Release Date	25 th June 2020
Revision	1332_90943
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

(none)

Improvements

- VPN connections can now be sorted in [VPN and Remote Access] > [Connection Management]
- 2. Improved handling of large DHCP packets
- 3. Resolved a socket issue that could affect connectivity when TR069/STUN DNS lookups failed
- 4. In some specific scenarios, some IPsec VPN tunnels could not pass traffic when many IPsec VPN tunnels were active
- 5. VPN connections from Windows IKEv2 EAP clients with static IP assignments could lose VPN network access after IPsec rekey
- 6. Web interface could sometimes display lower CPU usage than real CPU usage

- Firmware downgrade affects Route Policy rule's "Failover" and "To" settings:
 If downgrading from 3.9.2.2 to firmware to 3.9.2.1 or earlier, take a backup of the router's configuration and make a note of the "To" and "Failover" settings for Route Policy rules configured on the router. These settings may be changed to incorrect values once the firmware has been downgraded. Verify the Route Policy configuration is correct after downgrading.
- Firmware downgrade affects Bind IP to MAC:
 If downgrading from 3.9.2.1 or 3.9.2.2 to firmware to 3.9.1, take a backup of the Bind IP to MAC settings. These settings will be cleared during the downgrade process. The Bind IP to MAC configuration can then be imported back into the router.

Firmware Version	3.9.2.1 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	10 th April 2020
Release Date	17 th April 2020
Revision	1330_89655
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

- 1. Increased maximum number of sessions supported, up to 1 million. To adjust the settings, go to [System Maintenance] > [NAT Sessions] section.
- 2. Router can now be managed by VigorACS 2 (latest version)

Improvements

1. Improved mechanism for VPN connections

Known Issues

1. If you need to downgrade the firmware to 3.9.1, take a backup of the Bind IP to MAC settings

Firmware Version	3.9.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	21 st February 2020
Release Date	2 nd March 2020
Revision	1300_88674
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

- 1. Support for DrayTek VPN Matcher service:
 - Helps VPN clients and routers connect to a DrayTek VPN router, which connects to the Internet through a firewall or additional NAT router without port forwarding, which would not otherwise be able to accept VPN connections
 - b. Suitable for usage with Cone NAT environments
 - c. Supports LAN to LAN and Remote Dial-In User VPN connections
 - d. Accessible from [VPN and Remote Access] > [VPN Matcher]
- 2. Support for interchangeable LAN/WAN interfaces
- 3. Added [Central Switch Management] > [Switch Management] to manage compatible VigorSwitches; up to 30 devices
- 4. Added [Central AP Management] > [AP Management] to manage compatible VigorAPs; up to 50 devices
- 5. Support added for LAN port mirror and WUI packet capture
- 6. Support for console menu under LAN

<u>Improvements</u>

- 1. Increased DHCP pool from 1021 up to 4K
- 2. Improved PPTP acceleration up to 320Mbps
- 3. Improved SSL VPN acceleration up to 1.6Gbps
- 4. Improved VPN Trunk (GRE over IPsec) acceleration
- 5. Mail Alert function now supports StartTLS
- 6. Added APP QoS for Bandwidth Management

Known Issues

(None)

Firmware Version	3.9.1.3 (Formal Release)	
Release Type	Regular – Upgrade recommended when convenient	
Build Date	6 th February 2020	
Release Date	14 th February 2020	
Revision	1286_88265	
Applicable Models	Vigor 3910	
Locale	UK & Ireland Only	

(None)

Improvements

- 1. WAN port status mechanism improved
- 2. Handling of incorrect router configuration improved
- 3. Dial-in IPSec Aggressive VPN connection could not reconnect after a reboot
- 4. SSL VPN LAN to LAN did not forward packets with MTU 1395-1400
- 5. Improved MSS (Maximum Segment Size) for SSL VPN
- 6. Improved management of Hardware Accelerated sessions when WAN disconnects

Known Issues

(None)

Firmware Version	3.9.1.2 (Initial Release Firmware)
Release Type	Initial Release
Build Date	4 th December 2019
Release Date	11 th December 2019
Revision	1217_87018
Applicable Models	Vigor 3910
Locale	UK & Ireland Only

First Firmware Release for this model

New Features	
(None)	

Improvements

(None)

Known Issues

(None)

[END OF FILE]