

Release Note for VigorC510 Series

Firmware Version:	5.3.8
Release Type:	Regular – Upgrade recommended when convenient, as it includes general improvements and optimizations
Applied Models:	VigorC510, VigorC510ax

The VigorC510 series is a 5G NR WAN router equipped with four 1Gbps LAN ports. It features an advanced bandwidth control mechanism, including IP-layer control, QoS, NAT session limitation, and bandwidth borrowing, to enable easy, flexible, and reliable access control and bandwidth management.

New Features

- Support VPN Matcher.
- Add an IP overview for Teleworker VPN users.
- Support VPN network translation for local networks.
- Add Destination WAN Interface selection for Content Filter rules.
- Add a user-defined-domain option for the Let's Encrypt ACME client.
- Support SWM MQTT(Message Queuing Telemetry Transport) provisioning and management.

Improvement

- Improved: Improve the WiFi Driver Security (CVE-2026-20408, CVE-2026-20419, and CVE-2026-20430).

VPN & Remote Access

- Improved: Improve WireGuard IPv6 connection status display.
- Improved: Update OpenVPN configuration generation in EasyVPN WUI.
- Improved: Improve OpenVPN certificate validity and expiration handling.
- Improved: Add an L2TP note reminding users to enable the IPsec service.
- Improved: Change IPsec wording from "General PSK" for clearer meaning.
- Improved: Change wording from "Wake on WAN" to "Wake on WAN / VPN".
- Improved: Allow specifying VPN Peer for VPN L2L Dial-in WireGuard and OpenVPN.
- Improved: Allow the VPN peer specified in a Site-to-Site profile to bypass Port Knocking.
- Corrected: An issue with multicast traffic over VPN.
- Corrected: An issue with the Port Knocking timeout refresh behavior.
- Corrected: An issue with the L2TP/IPsec certificate connection failure.
- Corrected: An issue with IKEv2 EAP VPN disconnecting every few hours.
- Corrected: An issue with Policy-Based Routes not working after reboot.
- Corrected: An issue with the OpenVPN connection failure with NordVPN.
- Corrected: An issue with which the DNS over LAN-to-LAN VPN did not work.
- Corrected: An issue with IKEv2 PSK connection failure from iOS 26.1 caused by ADDKEI handling.
- Corrected: An issue with the WireGuard VPN over IPv6, where only ping worked, but data traffic failed.
- Corrected: An issue with the VPN Remote User DHCP Inform/ACK route handling after VPN connection.
- Corrected: An issue with which the VPN Connection Status did not show online OpenVPN users when the usernames contained ".".

Security / Firewall / Content Filter

- Improved: Update BFP alert email content.
- Improved: Improve DoS Defense UDP Flood Threshold wording and behavior.
- Improved: Improve Reset Hits behavior for IP Filters in Security>>Firewall Filters>>IP Filters.
- Improved: Improve Firewall IP Filter display and refresh speed in Security>>Firewall Filters>>IP Filters.
- Improved: Increase Keyword Object capacity for Keyword Exceptions in Security>>Firewall Filters>>Content Filters.
- Corrected: An issue with the Content Filter blocking of DoH/DoT/DoQ traffic.
- Corrected: An issue with the Content Filters typo from "Portocol" to "Protocol".
- Corrected: An issue with the Content Filter APPE not blocking the Facebook APP.
- Corrected: An issue with the LAN IP Spoofing Defense blocking its own mesh and mDNS packets.
- Corrected: An issue with the LAN IP Spoofing Defense not dropping TCP FIN/RST packets from fake source IPs.

WAN / LTE / Cellular

- Improved: Support IPv6 for DrayDDNS service.
- Improved: Reduce LTE failover time. (for C410/C510)
- Improved: Improve WAN reconnect notifications by including the interface IP.
- Corrected: An issue with DrayDDNS Update failure.
- Corrected: An issue with the GeoIP database update failure when using IP Alias.
- Corrected: An issue which the NAT Session table was empty when using IP Alias with Route Policy.
- Corrected: An issue with the WAN2/port1 Bind to Physical Interface not being saved after a restart.

WiFi / Mesh

- Improved: Display syslog message for Radius Authentication.
- Improved: Update SSID wording from "Client Number" to "Client Limit".
- Improved: Improve the wireless driver configuration save and recovery behavior.
- Improved: Change the Note wording in the page of Wireless>>Device>>AP Adoption.
- Corrected: An issue with MTK WiFi link speed information error.
- Corrected: An issue with the SSID isolation feature, which did not function as intended.
- Corrected: An issue with the Wireless 2.4GHz/5GHz LEDs not turning on after enabling LED control from the Physical Interface.

System / WebUI / Management

- Improved: Support Polish language WUI.
- Improved: Add a note to Webhook Monitoring Server URL.
- Improved: Change wording from "...required..." to "...require...".
- Improved: Add information about supported characters in profile names (e.g. IP Filter)
- Improved: Improve the wording in System Maintenance>>System Upgrade>>Firmware.
- Improved: Improve the error message in System Maintenance>>Management>>Service Control.
- Corrected: An issue with misclassified Log type.
- Corrected: An issue with VLAN Tag 1 not supported.
- Corrected: An issue with the route table interface-name truncation.
- Corrected: An issue with the default portmaptime/session timeout.
- Corrected: An issue with failure to access any settings page on the CPE via VigorACS.
- Corrected: An issue with the schedule reboot not being written to crontab when Time Setting was Manual.
- Corrected: An issue with failure to translate the website name into IP (the router DNS resolution failure).
- Corrected: An issue with the firmware version still being displayed as available immediately after upgrade.
- Corrected: An issue with WUI logging out automatically during firmware upgrade from WAN/Internet.
- Corrected: An issue with On-Premise Controller appeared in the System Maintenance>>Account & Permission page.
- Corrected: An issue with the failure to set VoIP registration interface to Auto in Configuration>>

VoIP>> General Setup.

- Corrected: An issue with CGI 2451 error occurred after firmware upgrade in Configuration >> WAN>>WAN Connections.
- Corrected: An issue with when remotely managing two Vigor devices simultaneously, the first device would be automatically logged out.

Certificates / Authentication

- Corrected: An issue with the TACACS shared-secret character limit.
- Corrected: An issue with the IPsec certificate becoming None after reboot.
- Corrected: An issue where the Administrator was being logged out after being active for just 5 minutes.
- Corrected: An issue with the Mail Alert reporting Login Succeeded while the user was still on the MFA page.

TR-069 / ACS

- Corrected: An issue with the failure to send the periodic information regularly.

HotSpot

- Corrected: An issue with the HotSpot Web Portal: the Mail/SMS custom message feature did not function properly.

Note

- To prevent potential errors after the firmware upgrade, if you are currently using version 5.3.0 or 5.3.1.1, please upgrade to 5.3.2.1 first before proceeding to later versions.
- Please ensure that you use the ".rst" firmware file when recovering the router. Note that uploading the ".rst" file will reset the router to factory default settings.
For certain models, a separate ".rst" (reset) firmware file may not be provided. If the ".rst" version is not available, please manually rename the file extension of the ".all" or ".sfw" firmware file to ".rst" to create an equivalent RST firmware file.
Example:
Rename Vigorxxx_1.2.3.4.sfw → Vigorxxx_1.2.3.4.rst
Please ensure you back up your configuration before applying a ".rst" firmware, as all settings will be erased during the process.
- The Vigor router system now offers automatic firmware upgrade feature (optionally, default is disabled), making it convenient for users to stay updated on crucial firmware changes, security issues, and significant bugs that necessitate immediate firmware update. With this feature, there is no need to download the latest firmware version yourself. The Vigor system will automatically detect the latest release, download it, and upgrade the router. This option is particularly beneficial for addressing critical security issues and fixing major bugs.

Known Issue

- None.