

Release Note for VigorC510 Series

Firmware Version:	5.4.0
Release Type:	Important – Review release notes and upgrade if the changes affect your system stability, performance, or security
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 Dual-WAN Load Balance and Failover, with per-WAN Weight for Primary and Failover members.
- Support TR-369 (USP) device management via ACS.
- Add SMS Gateway to Configuration >> LTE.
- Allow specifying a hostname as the source IP for NAT and Port Forwarding rules.
- Increase the maximum number of failover members from 5 to 10.
- Support 802.3x flow control.
- Support sending SMS via CLI.
- Support Country (GeoIP) Object, usable in VPN Access Control.
- Support WAN AutoHunt for automatic detection of the WAN connection type.
- Support Let's Encrypt 6-day short-lived certificates and IP address-based certificates.
- Support Bootstrap download of eSIM profiles using the module's own mobile connection.
- Support Ethernet WAN Full Bridge on Vigor router (physical WAN, with VLAN tag handling).
- Support importing Bind IP to MAC configuration under Configuration >> LAN >> Backup & Restore.

Improvement

- Improved: Enhance the CGI security (CVE-2026-2291, CVE-2026-4890, CVE-2026-4891, CVE-2026-4892, CVE-2026-4893, and CVE-2026-5172).
- Improved: Improved security issues identified during the internal SDL product security check.
- Improved: Reduce the LTE failover time.
- Improved: Overhaul VoIP parameter handling.
- Improved: Support email-format MyVigor username.
- Improved: Update OpenSSL version from 3.6.0 to 3.6.3.
- Improved: Add timestamps to core dumps for easier diagnostics.
- Improved: Increase the maximum character length of IP Filter names.
- Improved: Add a note about the Keep VLAN feature in the Port-Based Bridge menu.
- Improved: Increase the maximum values of "UDP Stream Timeout" and "UDP Timeout".
- Improved: Support searching and sorting Teleworker VPN entries by static IP address.
- Improved: Update the "Outbound" label to "Outbound (LAN to Internet)" in IP Reputation Filters.

- Improved: Support WAN interface binding for WireGuard / VPN Matcher dial-out connections.
- Improved: Support configuration backup and restore using the default account and password.
- Improved: Support customizing the port in "Vigor Router SMS Gateway" and editing profiles when WAN is down.
- Corrected: An issue may cause the SIM1 APN Name field to disappear after upgrading to V5.3.8 (non-eSIM models).
- Improved: Add support for configuring the default WAN Connection Detection mode for Cellular WAN (DHCP/PPP).
- Corrected: An issue where WAN Failover was always enabled.
- Corrected: An issue where malformed IKEv2 SA_INIT requests could cause VPN disconnections or cause the router to become unstable.
- Corrected: An issue where the WAN2 MAC address was overwritten by the WAN1 MAC address during boot.
- Corrected: An issue where the VoIP LED order on the Dashboard was reversed.
- Corrected: An issue where Internal RADIUS failed to start when using OpenSSL 3.3+.
- Corrected: An issue where Test Email using GMX.de failed and Email MFA login failed.
- Corrected: An issue where WAN AutoHunt did not recheck additional WAN profiles after booting.
- Corrected: An issue where special characters (e.g., ^, {, }) could not be used in the TR-069 ACS Server Password.
- Corrected: An issue where Let's Encrypt / DrayDDNS ACME auto-renewal failed due to an invalid or duplicate profile domain.
- Corrected: An issue where users were forced to change the admin password on a preset .def file even when the password was not the default.
- Corrected: An issue where IP-Based WAN Load Balance behaved like Session-Based; Primary WAN Weight 0 disabled automatic load balancing.
- Improved: Prevented the local administrator account's last login timestamp and IP address from being included in exported .def configuration files.
- Corrected: An issue where the same WAN interface could be set as both the Primary WAN and Failover WAN in Configuration >> WAN >> LB & Failover.

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 Vigorxxxx_1.2.3.4.sfw → Vigorxxxx_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.