

Release Note for VigorC510 Series

Firmware Version:	5.4.4.1
Release Type:	Critical – Upgrade immediately to address urgent security issues or major system risks
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 Threat Protection – Sentry, our new license-based cybersecurity solution.
- Support Route-based VPN with manual remote-network routing without requiring 0.0.0.0/0 in the Routing Table.
- Hardened the TR-069 configuration path by writing the ACS server URL and credentials directly to the configuration file, eliminating a command-injection risk in the web management backend.
- Support NAT Port Forwarding on ports reserved by the router's own services, with conflict notification and forwarding priority options.
- Add the exec sysuptime and exec wanstatus CLI commands, so system uptime and WAN status can be queried over SSH / Telnet.

Improvement

- Improved: Update SQLCipher to 4.17.0 (CVE-2026-11822 / CVE-2026-11824).
- Corrected: The kernel SCTP ASCONF DEL-IP vulnerability "SCTPhantom" (CVE-2026-64564).
- Improved: Updated third-party packages based on CVE information identified during SBOM review, including curl/libcurl, ppp, miniupnpd, libarchive, libxml2, libexpat, jq, and libcap.
- Improved: WAN profile application and WAN AutoHunt retries now reload only the affected interface, preventing other WAN connections from being dropped.
- Corrected: An issue where the SIM slot activity LED stopped illuminating after a firmware upgrade.
- Corrected: An issue in a multi-WAN setup where reply packets from a secondary WAN (including LTE / Cellular) were sent out of the wrong interface, causing ping and remote management to that WAN's IP address to fail.
- Corrected: An issue where LAN clients could not reach a DNS server behind an LAN-to-LAN VPN tunnel without DNS Forwarding, along with a related full-tunnel reconnect loop.
- Corrected: An issue which caused the Physical Interface page to fail to display or save after the router was reset to factory defaults with certain country codes (e.g. Germany).
- Corrected: An issue preventing hosts in an IP Routed Subnet from reaching the gateway and the Internet.
- Corrected: An issue which caused WAN-related log messages to appear only under "Notification"

and not in the Log Center log list.

- Corrected: An issue preventing the router from resolving domain names when the LAN IP and Teleworker VPN IP assignment were in different subnets.
- Corrected: An issue causing DHCP Relay over WAN to silently fail after a LAN or WAN interface was reset because the relay daemon did not rebind to the new interface.
- Corrected: An issue which caused a managed node's mDNS name to be overwritten during Virtual Controller configuration sync, resulting in duplicate mDNS names on the network.
- Corrected: An issue which caused the TR-069 ACS username and password to reject or incorrectly store special characters such as ", , , & , ` , and \$.

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.