

# Release Note for Vigor3910 Series

Firmware Version:	4.3.1
Release Type:	Normal
Applied Models:	Vigor3910

## Read First

Due to the WebGUI security issue (fixed in 3.9.6.3), we recommend **changing the passwords** for admin login and password/PSKs for VPN profiles after upgrading the latest firmware from 3.9.6.2 or earlier.

## New Features

- Support a new VPN protocol, WireGuard.
- Support USB Storage and USB Thermometer.
- Support PIN Generator for Hotspot Web Portal setup.
- Support SD-WAN feature for managed by VigorACS3.
- Support VPN authentication via Google Authenticator APP (TOTP).
- Support Objects Setting>> Objects Backup/Restore.
- Support System Maintenance >> Webhook, for sending periodic keepalive/heartbeat to the Monitoring Server.

## Improvement

### VPN:

- Improved: Support for IKEv2 fragmentation.
- Improved: All VPN services are disabled by default.
- Improved: Support schedule for VPN remote dial-in user profile.
- Improved: Support for More Local Network (Multiple SA) on IPsec profile.
- Improved: Support for specifying VPN service to specific WAN interfaces.
- Improved: Support to specify remote VPN gateway with the domain name (LAN to LAN).
- Improved: Add a new option to send notifications when VPN is up for VPN remote dial-in user profile.
- Improved: Add a new VPN option, downtime limit (so that notifications are only sent when the “downtime” has been exceeded in an attempt to decrease excessive VPN tunnel drop log).
- Corrected: An issue of Vigor router assigned reversed IPs for DNS servers for OpenVPN.
- Corrected: An issue of VPN IKE buffer leakage when the VPN peer (Google Cloud) used AES\_GCM as the phase1 proposal.

### Others:

- Improved: Support for WAN N First for DrayDDNS.
- Improved: Modify TR-069 default settings for France.

- Improved: Apply the LAN DNS to router's internal DNS server.
- Improved: Support the "Bypass" feature for Hotspot Web Portal.
- Improved: Add a new reboot option, "Using current configuration (Normal reboot)".
- Improved: Allow the switch management for VigorSwitch G/P 2100, VigorSwitch G/P 2540x via SWM.
- Improved: Support for either "restore config" or "restore config with specific firmware" on System Maintenance>>Configuration Export.
- Improved: Increase the number of IPv4 object profile up to 500; the number of IPv6 object profile up to 200; and the number of service object up to 500.
- Improved: Increased the IKE authentication timeout from 10 to 30 seconds (when using L2TP over IPsec VPN).
- Corrected: An issue of DNS security.
- Corrected: An issue of SLAB\_PANIC log.
- Corrected: An issue of high CPU usage when running many IPsec tunnels.
- Corrected: An issue of IPsec tunnel not established due to no IKE Buffer available.
- Corrected: An issue of Local Router services, like NTP and Mail Alerts, not working via WAN IP Alias.
- Corrected: A reboot issue due to a specific user connected to the router remotely via IKEv2-EAP VPN.
- Corrected: An issue of being unable to save the string object profiles under some situation (e.g. via WAN HTTPS management).
- Corrected: An issue of HA slave config not being changed accordingly by the modification of the HA master.
- Corrected: An issue of no more VPN could be connected after some IKEv2 EAP connection attempt with wrong credentials.

## Known Issue

- When the firmware is downgrading via “System Maintenance > Firmware Upgrade”, one might have a chance to experience a config compatibility error, which causes the config of a certain function to return to the default setting. To avoid this error, “System Maintenance >> Configuration Export >> Restore Firmware with config” is the preferred way for firmware “downgrading”. We suggest backup the config file before upgrading any firmware as well.
- A firewall can restrict/drop unwanted inbound WAN traffic such as VPN requests. The router's firewall block rules can stop remote management and VPN access. It is recommended to review the firewall settings before upgrading.
- 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 last 4.3.1).