

RuggedVPN Firmware Release 2021032270/2021041650 for Vprinet and Wantastic products; May 2021



With this firmware release we are introducing support for the range of new 4G/5G modules that start shipping in Q2/21.

In addition to this, the focus for this release has been quality improvements, fixing a number of customer-reported bugs and optimizing system stability in corner cases. Most importantly router models with a low amount of RAM should perform better.

Important pre-installation instructions:

- **Protect the Elderly:** Very old routers (6+ years), especially Multichannel VPN Router 300 units that have been operated at sub-optimal temperature ranges often will have a faulty/very aged flash memory, and sometimes drained batteries or capacitors. Quite often they still work absolutely normally, but as soon as the flash is written, it fails. For those old routers installing this firmware update may cause the flash to finally die, with the router no longer starting.

Therefore when updating those routers, please take extra care. Make sure you have taken a config backup, and have a replacement device in case something goes wrong.

Please consider retiring old 300 Routers soon. Our VLM Support system allows you for very cost-efficient upgrades to the current 310 model.

- This firmware release is backward-compatible to old releases, including the ones from back in 2018. This means you can first upgrade the Hub, and then upgrade the Node router at a later point. Please note however that all performance enhancements will only be seen once both sides are updated.
- **AES-NI required for Virtual VPN Hubs:** Since last year, all releases of the Viprinet Virtual VPN Hub now require the presence of the AES-NI CPU instruction set. This is the case with pretty much all Intel and AMD CPUs that have been sold during the last 5 years. However, in some cases on very old server the instruction set may have been disabled in the BIOS. While VMWare pass through the instruction set to guests once they are enabled on the host machine, other Hypervisors (which we do not officially support) may not. Before upgrading your Virtual VPN Hub please make sure that AES-NI is available to your VM.

Changes compared to the December 2020 (2020111770/2020113050) Release:

- Fixed the Wantastic display not working
- Added missing SSL error codes (no longer reporting "Unknown SSL error" in the log)

- Removed the option to configure Ethernet link settings for Virtual Hubs, as it does not make sense there
- The "Got illegal packet from" messages are no longer logged as this was potentially flooding the log file
- We now support the new "4G North America V3" and "4G Global LTE" modules
- Changed default root password for newly created config files Virtual Hubs to "viprinet"
- Made sure the Wantastic Hubs accepts config file uploads (before it thought it was incompatible to itself)
- Fixed VPN Bypass not working if VLANs were used.
- VPN Bypass now is counted as WAN traffic, so the "Allow route-back" setting no longer conflicts.
- A 0.0.0.0 (default) route did not match on non-0 VLANS
- Removed the "reliable" class of values from the monitoring data stream as these did not have much meaning anyway.
- Fixed a memory leak in the flow congestion system that over time, especially when running a lot of flows, would eat away a hell lot of memory.
- Fixed a memory leak in the sensors code