

Release Notes for DrayTek Vigor 2927 series (UK/Ireland)

Firmware Version	4.4.3.1 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	6 th October 2023
Release Date	20 th October 2023
Revision	4678_ca5409e9d0
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac, Vigor 2927ax
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Improvements to firmware upgrade mechanism via VigorACS
2. Stability improvements linked with the Google Cloud VPN connections
3. Data Flow Monitor could show NaN output while Bandwidth Management was enabled

Known Issues

(None)

Notes

1. IPsec HMAC (MD5) is no longer supported
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Firmware File Types

The ZIP file contains the firmware with two different file extensions, .ALL and .RST. The firmware is identical, but the RST file contains factory default settings. If you install the ALL file, your router will retain all existing settings. If you use the RST file, all settings will be wiped from your router.

Upgrade Instructions

It is recommended that you take a configuration backup prior to upgrading the firmware. This can be done from the router's system maintenance menu.

To upgrade firmware, select '*firmware upgrade*' from the router's system maintenance menu and select the correct file. Ensure that you select the ALL file unless you want to wipe out your router's settings back to factory default.



Manual Upgrade

If you cannot access the router's menu, you can put the router into 'TFTP' mode by holding the RESET whilst turning the unit on and then use the Firmware Utility. That will enable TFTP mode. TFTP mode is indicated by all LEDs flashing. This mode will also be automatically enabled by the router if there is a firmware/settings abnormality. Upgrading from the web interface is easier and recommended – this manual mode is only needed if the web interface is inaccessible.

Firmware Version	4.4.3 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	11 th September 2023
Release Date	27 th September 2023
Revision	4673_dcfd0b4493
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac, Vigor 2927ax
Locale	UK & Ireland Only

New Features

1. Support for the new WCF service – URL Reputation. If you have an existing activate licence, then this will be upgraded to the URL Reputation licence
2. Support for WireGuard VPN

Improvements

1. Support for HTTP compression to reduce the TR-069 payload size
2. User access to CPE can be authenticated by external Radius server
3. Web GUI security improvements
4. Additional SMS commands are now supported (set and get TR-069 parameters), e.g.

```
tr069 get "TR069 parameter" "password"
tr069 get InternetGatewayDevice.LANDevice.1.WLANConfiguration.1.SSID
1234
```
5. Support for more LTE SNMP OIDs
6. Improved Bind IP to MAC security
7. Improvements to Auto APN settings for Gamma SIMs
8. Improvements to SIM1/SIM2 failover mechanism
9. System statistics can be displayed on the login page
10. Support for writable/read-only TR-069 parameters notes
11. An individual SIM slot can be enabled/disabled
12. SNMP settings can be applied without rebooting the router
13. Improvements to the mechanism handling DNS PTR records
14. In some circumstances the DHCP relay did not work
15. The router did become inactive after WAN IPv6 was renew
16. Fixed the Bridge VLAN over mesh network connectivity
17. Improvements to the issue with empty .json response for CPE when using VigorACS API
18. Fixed an issue that could result in 'Firmware Damage' being reported when upgrading from VigorACS
19. In some circumstances graphs displayed on the VigorACS page would show gaps
20. The WPS button would not enable nor disable the wireless bands
21. Incorrect data was shown on WUI when SIM budget was enabled
22. The router could stop responding when L2TP with IPsec (LAN to LAN) VPN profile was created
23. Fixed an issue related to authentication on External Hotspot Server and the External RADIUS Server
24. The Let's Encrypt certificate could not be renewed automatically

25. Fixed an issue with the key data loss for OpenVPN client config file when exported from VigorACS
26. When OpenVPN to Pfsense was established, the push route from the server could not be completed
27. Fixed an issue with error message of HTTP Content Error that would appear while trying to import ovpn (OpenVPN) file
28. The router could stop responding when IKEv2 re-dialled and the local ID was set to 32 characters
29. The Firmware Damage state would remain after uploading the wrong file (file size 0)
30. The Smart VPN Client 2FA window did not appear when using IKEv2 EAP and any router LAN IP address except the first one

Known Issues

(None)

Notes

1. IPsec HMAC (MD5) is no longer supported

Firmware Version	4.4.2.3 (Formal Release)
Release Type	Critical – Upgrade recommended immediately
Build Date	10 th January 2023
Release Date	3 rd March 2023
Revision	3948_0d6d3db8f1
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac, Vigor 2927ax
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Improvements to the Web GUI Security (CVE-2023-23313)

Known Issues

(None)

Firmware Version	4.4.2.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	11 th November 2022
Release Date	22 nd December 2022
Revision	3946_a7dde48e79
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac, Vigor 2927ax
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Improvements to the wireless network (2.4GHz) connection stability

Known Issues

(None)

Firmware Version	4.4.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	12 th October 2022
Release Date	27 th October 2022
Revision	3944_3ad8c98ea6
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac, Vigor 2927ax
Locale	UK & Ireland Only

New Features

1. TOTP 2-factor authentication (Google Authenticator) is now available for authenticating Remote Dial-In User VPN connections
2. Support for Cyren Zero-Day WCF

Improvements

1. Secondary NTP server can now be specified as a backup if the primary is unavailable
2. Support for AES-GCM algorithm for IPsec/L2TP Dial-In connections
3. Improvements to the VLAN page user interaction mechanisms
4. Improved the mesh network stability
5. Static route sessions can be processed by hardware acceleration
6. Mesh Root TCP port 9608 could be detected on WAN when enabled
7. Dynamic DNS (DrayDDNS profiles) can be set in round robin or WANx First configuration
8. Wireless WAN can automatically switch to another channel
9. Increased number of characters to 64 for [Certification Management] > [Certificate Backup] passwords
10. Routers did not connect to GenieACS servers
11. SNMP OID could not display VPN status
12. The router could stop responding while VigorSMS App was connected
13. In some circumstances firewall configuration backup could not be restored properly
14. Enabling Data Flow Monitor did cause Hardware Acceleration to stop working
15. Windows OS users could not establish IKEv2 EAP VPN connection
16. OpenVPN Windows users could no access router's LAN
17. ARP table could not be displayed when Strict Bind and additional subnets were selected
18. "SMS/Mail service Object Mail Server" could not send a test e-mail when SMTP server was configured
19. When changing the IP address into 0.0.0.0/0 for the "Create a unique SA for each subnet(IPsec)" option (VPN profile #2), the configuration would not be saved properly

Known Issues

(None)

Firmware Version	4.4.0 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	19 th April 2022
Release Date	06 th June 2022
Revision	3075_6ffc5c5
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac, Vigor 2927ax
Locale	UK & Ireland Only

READ BEFORE UPGRADING!

This firmware alters the firewall behaviour.

The firewall is now able to block inbound requests to the routers management and services interfaces such as the Web UI and VPN Services. The firewall treats these as [WAN to LocalHost] for direction purposes.

If your [Firewall] > [General Setup] > Default Rule is set to Block, you must set it to Pass before upgrading the firmware.

If you want to set the default rule to block, then after upgrade, create pass rules with a direction to [WAN to LocalHost] so that the Web UI (typically TCP 443) is exempt by creating a Pass rule first. Other common services used by the router are:

HTTPS & SSL VPN – TCP 443
SSH – TCP 22
IPSEC – UDP 500
IPSEC NAT-traversal – UDP 4500

New Features

1. Firewall can restrict/drop unwanted inbound WAN traffic such as VPN requests. Use the new direction option **[WAN -> Localhost]** to apply
2. Router's DNS server feature can record one domain with multiple IP addresses
3. Support for Link Aggregation (LAG) for selected LAN ports
4. [Certificate Management] system now operates in a new way:
 1. HTTPS certificate for management & SSL VPN is now selected from:
[Certificate Management] > [Local Services List]
Reboot the router after changing this setting to use the new certificate
 2. [Local Certificates] now supports more than 3 certificates
 3. [Trusted CA Certificates] now supports more than 3 certificates
 4. Storage for Certificate on each of those pages shows % remaining available space
 5. Password on Private Key is no longer required when importing Cert + Private Key
5. Inbound QoS now supports Hardware Accelerated operation
6. Support for network monitoring protocol IPFIX (Netflow)
7. SNMP 'ifLastChange' is now supported for WAN and LAN port uptime (Physical port link up/down detection)

8. App-level Bandwidth Limits (e.g. Teams, OneDrive, Steam) can now be configured from [Bandwidth Management] > [Bandwidth Limit] > [APP]
9. Webhook feature can now be enabled in [System Maintenance] > [Webhook] to send periodic keepalive / heartbeat messages to a monitoring server

Improvements

1. DNS Filter now supports blocking of DoH (DNS over HTTPS) and DoT (DNS over TLS) services to ensure that users use standard DNS, allowing the DNS Filter to operate optimally
2. Exception list added to [Hardware Acceleration]
3. Updated encryption mechanism for MyVigor server connections for license obtaining, network connecting, and registrations
4. Improved NAT performance for Hotspot Web Portal with asynchronous mode
5. When Brute Force Protection is disabled, service options are greyed out (ticked by default)
6. Function priority and default value change for DoS & Bandwidth Limit and HW NAT settings
7. Router's certificate files will be removed when downgrading firmware from 4.4.0 to an older version
8. Improved Web GUI Security
9. Updated HTTPS mechanism to address the CVE-2022-0778 (OpenSSL)
10. Improved performance for Hotspot Web Portal
11. Some wireless clients could not reconnect to 2.4 and 5GHz
12. In some circumstances Conditional DNS Forwarding did not work
13. Disabling a static route could disable the default route entry
14. The router could stop responding when Bind IP to MAC and WiFi were enabled simultaneously
15. WAN2 Ethernet in 100M FULL duplex mode did not work after rebooting the router
16. LAN to LAN VPN clients could not be accessed when 'Translate Local Network' option was enabled
17. In some circumstances Port Redirection did not work when Hardware Acceleration for NAT and 802.1Q priority for LAN were enabled
18. URL Filter failed to block some HTTPS sites after many attempts when a TCP port number was reused, and session wasn't closed by the firewall

Known Issues

1. Enabling Data Flow Monitor will cause Hardware Acceleration to stop working. Please review the Data Flow Monitor setting when meeting a performance drop issue.

Firmware Version	4.3.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	12 th November 2021
Release Date	09 th December 2021
Revision	2398_c49ed32
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

New Features

1. Support for IKEv2 fragmentation to improve IKEv2 EAP compatibility
2. Added support for multi-language WUI
3. Support for RADIUS framed IP assignment with OpenVPN connections
4. WPA3/OWE for wireless LAN 2.4G/5G clients
5. TOTP 2-factor authentication (Google Authenticator) is now available for authenticating web interface administrator access from the Internet
6. Capable of managing new switches, VigorSwitch P2100 and VigorSwitch G2100 by Switch Management
7. Webhook feature can now be enabled in [System Maintenance] > [Webhook] to send updates to the monitoring server

Improvements

1. The WUI update of the [System Maintenance] > [Administrator Password Setup] page
2. Force UDP encapsulation (Force NAT-T) option for IPsec added
3. Improved IKEv2 VPN with a static virtual IP configuration (My WAN IP / Phase 2 Network ID)
4. [LTE models] Support for pre-configured APNs “Auto-APN” can be enabled or disabled
5. Blocked IPs on Brute Force Protection list can be manually unblocked
6. SMS Gateway feature can now use service providers predefined in SMS object (LTE models)
7. The restoring config mechanism did not work if the router was connected to VigorACS through HTTPS
8. Routing table could show wrong BGP interface in some configurations
9. Disabling a static route could disable the default route entry
10. Tagged LAN host could not obtain an IP if switching from untagged LAN when connecting to VLAN trunk port

Known Issues

(None)

Firmware Version	4.2.4.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	25 th June 2021
Release Date	11 th August 2021
Revision	8843_913_0cccfc2
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Wireless security configuration improvements related to encrypted WDS mode

Known Issues

(None)

Firmware Version	4.2.4.1 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	28 th May 2021
Release Date	11 th June 2021
Revision	8355_911_cc82f5a
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Update WiFi security for CVE-2020-26139 to CVE-2020-26145, and for CVE-2020-24586 to CVE-2020-24588
2. Mesh network stability improvements

Known Issues

(None)

Firmware Version	4.2.4 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	23 rd April 2021
Release Date	25 th May 2021
Revision	7265_857_4cb38e2
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

New Features

1. WPA3/OWE for wireless LAN 2.4G/5G clients

Improvements

1. GeolP database updated
2. Wireless 11ac performance improvements
3. Mesh network performance improvements
4. Mail Service Object supports StartTLS
5. Weight and Prepend options for BGP added in [Routing] > [BGP] > [Neighbor Setup]
6. Full wildcards can be used with DNS Forwarding settings
7. [Bandwidth Management] > [APP QoS] supports new apps (including GoToMeeting, GoToTraining, GoToWebinar, Salesforce, Teams, and WhatsApp Call)
8. Fixed an issue of creating WLAN profiles in [Central Management] > [AP]
9. Improved setting up Keyword Group objects via TR069
10. Uploading an OpenVPN configuration file did not work in some circumstances
11. Wrong APN name was used for a failover SIM card when budget option was enabled
12. In some circumstances route policy could not bypass the VPN default route
13. Restoring a VPN backup file did not work
14. The DHCP IP pool count allowed only 3 addresses for "/29" IP Routed Subnet
15. Preferred LTE Band list didn't include B5 and B28 when SIM card not ready
16. Users were unable to disable TR069 Server in management settings
17. Special characters such as "\$ % &" can be used in administrator password setup
18. Index numbers for the advanced Load Balance Setup would only list range of 1-8
19. An issue of accessing the device while changing the management port remotely
20. Wrong router image shown on [Diagnostics] > [Route Policy Diagnosis] page
21. A static IP address did not work for OpenVPN, Remote Dial-in User, profiles 21 to 64
22. Incorrect time zone used for Mail Alert and Notification Mail when Daylight Saving was enabled

Known Issues

(None)

Firmware Version	4.2.3 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	22 nd January 2021
Release Date	23 rd March 2021
Revision	94239 V422_2927
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. Updated MyVigor authentication method used for Web Content Filter license validation

Known Issues

(None)

Firmware Version	4.2.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	15 th December 2020
Release Date	15 th January 2021
Revision	94176
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

New Features

1. Mesh is now available on Vigor 2927 routers with 802.11ac dual-band wireless (ac, Lac)
 - a. Set up Mesh initially from the [Wizards] > [Mesh Wizard] menu
 - b. Configurable from the [Mesh] menu
 - c. Supports Mesh Root mode
2. Support for WPA3 wireless security
3. OpenVPN new improvements include:
 - a. Support of LAN to LAN VPN
 - b. Support of TLS 1.3
 - c. Import of certificates from OpenVPN config file
 - d. Improved performance with hardware Crypto engine

Improvements

1. Hardware acceleration sessions can be monitored with local services such as Data Flow Monitor, IP Traffic Graph, and QoS
2. Hotspot Web Portal supports PIN code generator
3. IPsec performance improved with Hardware Acceleration
4. LTE and USB WAN interfaces are now compatible with SD-WAN Data Usage Analytics
5. LAN to LAN and Teleworker to LAN VPN profiles can use 128-character long credentials

Known Issues

(None)

Firmware Version	4.2.0.2 (Formal Release)
Release Type	Regular – Upgrade recommended when convenient
Build Date	29 th October 2020
Release Date	5 th November 2020
Revision	93945
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

New Features

(None)

Improvements

1. WAN1 optimisation for compatibility

Known Issues

(None)

Firmware Version	4.2.0.1 (Formal Release)
Release Type	Initial Release
Build Date	27 th July 2020
Release Date	13 th August 2020
Revision	92152
Applicable Models	Vigor 2927, Vigor 2927ac, Vigor 2927Lac
Locale	UK & Ireland Only

First Firmware Release for this model

New Features

(None)

Improvements

(None)

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