

## **Release Notes for DrayTek Vigor2927 series (UK/Ireland)**

Firmware Version	4.4.2.3 (Formal Release)
Release Type	<b>Critical</b> – Upgrade recommended immediately
Build Date	10 <sup>th</sup> January 2023
Release Date	3 <sup>rd</sup> 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)

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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.

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Firmware Version	4.4.2.2 (Formal Release)
Release Type	<b>Regular</b> – Upgrade recommended when convenient
Build Date	11 <sup>th</sup> November 2022
Release Date	22 <sup>nd</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	12 <sup>th</sup> October 2022
Release Date	27 <sup>th</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	19 <sup>th</sup> April 2022
Release Date	06 <sup>th</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	12 <sup>th</sup> November 2021
Release Date	09 <sup>th</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	25 <sup>th</sup> June 2021
Release Date	11 <sup>th</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	28 <sup>th</sup> May 2021
Release Date	11 <sup>th</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	23 <sup>rd</sup> April 2021
Release Date	25 <sup>th</sup> 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. GeoIP 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	22 <sup>nd</sup> January 2021
Release Date	23 <sup>rd</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	15 <sup>th</sup> December 2020
Release Date	15 <sup>th</sup> 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	<b>Regular</b> – Upgrade recommended when convenient
Build Date	29 <sup>th</sup> October 2020
Release Date	5 <sup>th</sup> 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	<b>Initial Release</b>
Build Date	27 <sup>th</sup> July 2020
Release Date	13 <sup>th</sup> 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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