

## **Release Notes for DrayTek VigorBX 2000 series (UK/Ireland)**

Firmware Version	3.8.1.9
Release Type	<b>Critical</b> – Upgrade recommended immediately
Release Date	21 <sup>st</sup> May 2018
Build Date	21 <sup>st</sup> May 2018
Revision	73961
Applicable Models	VigorBX 2000, VigorBX 2000n, VigorBX 2000ac
Locale	UK Only / Annex A Only

**Security Advisory**      <https://www.draytek.co.uk/support/security-advisories/kb-advisory-csrf-and-dns-dhcp-web-attacks>

Check your DNS and DHCP settings on your router. If you have a router supporting multiple LAN subnets, check settings for each subnet. Your DNS settings should be either blank, set to the correct DNS server addresses from your ISP or DNS server addresses of a server which you have deliberately set (e.g. Google 8.8.8.8). A known rogue DNS server is 38.134.121.95 - if you see that, your router has been changed.

### **New Features**

None

### **Improvements**

1. This firmware includes improvements to harden the web interface against attacks. We have become aware of specific attacks against router, including DrayTek models where hackers have altered specific settings relating to your DNS servers and DHCP settings. You should urgently check those settings on your router. If they appear to have been tampered with, correct them and change your admin password and for any other config anomalies. Restore a config backup if you have one (from prior to the attack). We continue to investigate this issue but the first priority was to issue updated firmware.

### **Known Issue**

1. Access List does not currently apply to the router's TR-069 Management service, which uses TCP 8069 by default

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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 IP PBX.

### **Upgrade Instructions**

It is recommended that you take a configuration backup prior to upgrading the firmware. This can be done from the PBX's [Advanced] > [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.



### **IMPORTANT NOTE – Upgrading Firmware**

When upgrading, make sure to take a full configuration backup from:

**[System Maintenance] > [Configuration Backup]**

Click the Backup button to download the configuration. Keep this configuration file so that it can be used if it is necessary to restore the PBX system configuration.

### **NOTE: VDSL Modem Codes**

There are three firmware variants available for download

1. vb2000\_3818\_vector3.zip / vb2k\_3818\_576D17.all (Contains modem code 576D17)
2. vb2000\_3818\_vector4.zip / vb2k\_3818\_579F17.all (Contains modem code 579F17)
3. vb2000\_3818\_nonvector.zip / vb2k\_3818\_548006.all (Contains modem code 548006)

The modem code we recommend is 576D17 (vector3)

Modem code 576D17 supports G.INP (G.998.4 TX and RX retransmission) and vectoring (G.993.5)

If your line does not support vectoring then the modem code will operate without vectoring and modem code 576D17 is still recommended.

### **IMPORTANT NOTE – IP PBX Security**

- Disabling remote registrations is recommended if remote registrations are not required. This is controlled via [IP PBX] > [PBX System] > [SIP Proxy Setting] and also each extensions profile
- It is strongly recommended that you always use strong passwords for both the router/pbx itself and extensions to reduce the possibility of unauthorised access/calls

### **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	3.8.1.8
Release Type	<b>Regular</b> – Upgrade recommended when convenient
Release Date	6 <sup>th</sup> March 2018
Build Date	23 <sup>rd</sup> January 2018
Revision	71317
Applicable Models	VigorBX 2000, VigorBX 2000n, VigorBX 2000ac
Locale	UK Only / Annex A Only

### **New Features**

1. Call Barring – Block Anonymous configured in [IP PBX] > [Dial Plan] can now play a User or System prompt to anonymous callers that are blocked by the PBX system

### **Improvements**

1. Corrected an issue that could stop Voicemail messages being deleted from an extension's voicemail inbox
2. Backing up entries in [Wireless LAN] > [Access Control] could display a dialog box with incorrect information
3. The PBX system could send incorrect model name information to VigorACS 2 in the [Provision] > [Firmware Upgrade] > [Firmware Upgrade Job Settings] menu of VigorACS
4. Voicemail to email was unable to send correctly with firmware 3.8.1.6 & 3.8.1.7
5. Syslog to USB could stop saving logs to USB in some configurations
6. Resolved interoperability issue that could cause outgoing calls to disconnect after a few minutes
7. Resolved intermittent issue with remote extensions that could cause no audio on calls
8. Voicemail greeting for extension 901 could not be recorded from another extension
9. VigorPhone 350 could not clear voicemail messages correctly in some configurations
10. Improved handling of voicemails saved to attached USB storage
11. Voicemails for a Hunt Group received from a PSTN trunk call could not be played back
12. "Open WAN Interface for this Channel" is available for PPPoE/PPPoA and Static or Dynamic IP WAN setup in [WAN] > [Multi-PVC/VLAN] > [Channel]
13. Support for Vector 4 (579F17) VDSL modem code

### **Known Issue**

2. Access List does not currently apply to the router's TR-069 Management service, which uses TCP 8069 by default
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Firmware Version	3.8.1.7
Release Type	<b>Regular</b> – Upgrade recommended when convenient
Release Date	19 <sup>th</sup> January 2018
Build Date	29 <sup>th</sup> September 2017
Revision	69012
Applicable Models	VigorBX 2000, VigorBX 2000n, VigorBX 2000ac
Locale	UK Only / Annex A Only

### **New Features**

1. Support for the VigorBX 2000n

### **Improvements**

1. Improved detection of busy tones with PSTN FXO ports
2. Minor web interface improvements
3. LED display for PSTN loop-through via Line 1 was incorrect when the power was off
4. Resolved issues with the [Load Balance/Route Policy] > [Diagnose] feature that could show packets being dropped incorrectly

### **Known Issue**

1. Access List does not currently apply to the router's TR-069 Management service, which uses TCP 8069 by default

Firmware Version	3.8.1.6
Release Type	<b>Regular</b> – Upgrade recommended when convenient
Release Date	10 <sup>th</sup> October 2017
Build Date	7 <sup>th</sup> August 2017
Revision	67630
Applicable Models	VigorBX 2000, VigorBX 2000ac
Locale	UK Only / Annex A Only

### **New Features**

1. VigorAPs connected to the VigorBX 2000 can now be managed across a LAN-to-LAN VPN tunnel that supports Central AP Management by a remote router such as the Vigor 2860, controlled with the “vpn passAPM” command. More information here:  
<https://www.draytek.co.uk/support/guides/kb-centralapm-overview#apm-over-vpn>

### **Improvements**

1. PSTN FXO trunk audio quality could be poor with some telephone line conditions
2. PSTN trunks can now be specified for [Dial Plan] > [Speed Dial]
3. “Remove Trunk Number” added to [IP PBX] > [PBX System] > [Phone Setting]> [FXO1]/[FXO2]
4. Resolved an issue that could cause no audio on outbound calls after firmware upgrade
5. Hold Reminder beep tone would not play for calls on hold on the VigorPhone 350
6. Voicemail audio could play back incorrectly when using G.711A codec only
7. VoIP connection was busy when CLIR was selected
8. Telnet command to enable VigorPhone 350 provisioning did not work correctly
9. Resolved an issue with “ippbx pbxSystem callRoute -v” telnet command
10. Fixed an issue with Auto Attendant that could cause it to stop answering calls correctly
11. Extensions registering to the PBX via domain name would receive a 403 Forbidden response
12. The Peer Number shown by “ippbx status extMonitor” did not update correctly
13. LAN clients can no longer access the router management interface(s) outside of their own VLAN
14. Export Parameters (via xml download) tab added to [System Maintenance] > [TR-069]
15. Added options in [System Maintenance] > [Management] to disable HTTPS management via TLS 1.0, TLS 1.1 or TLS 1.2
16. Edit address option added for Static IPv6 Addresses in [WAN] > [Internet Access] > [IPv6]
17. Improved handling of WAN Alias IPs by sending an ARP request to the WAN Gateway upon first configuration
18. Interoperability improvements to the router’s SSH server
19. Improvements to wording of “vdsl vendorid” cli command
20. NAT Loopback did not work correctly with routed LAN subnets
21. NAT Loopback did not work for DMZ Host addresses
22. Improved handling of longer Router Name when configured via cli
23. A Dial-In IPsec LAN-LAN with a /32 (255.255.255.255) remote network mask would display an incorrect Gateway IP and cause the “More” option to work incorrectly
24. Unable to wake up remote computer when using Wake On LAN from the internet

25. Pings to IP addresses through a VPN tunnel displayed the wrong interface when using [Diagnostics] > [Ping Diagnosis]
26. Improved Content Filtering of YouTube when accessed through the Google Chrome browser
27. Configuration file uploaded to the PBX via HTTPS could not be restored
28. Route Policy Diagnostics did not display the correct rule when matching a Destination Domain Name
29. IPv6 Object IP addresses could not be set correctly
30. WAN IP Alias addresses did not work correctly with ports opened in [NAT] > [Open Ports]
31. Access List was not applied correctly to HTTPS management when additional administrator accounts were configured on the router

#### **Known Issue**

1. Access List does not currently apply to the router's TR-069 Management service, which uses TCP 8069 by default

Firmware Version	3.8.1.5
Release Type	<b>Critical</b> – Upgrade recommended immediately
Release Date	17 <sup>th</sup> January 2017
Build Date	6 <sup>th</sup> December 2016
Revision	61013
Applicable Models	VigorBX 2000, VigorBX 2000ac
Locale	UK Only / Annex A Only

### **New Features**

1. [IP PBX] > [Diagnostics] added to test PSTN Caller ID & Tone functions

### **Improvements**

1. Security improvements including one or more considered critical.

### **Known Issue**

(None)

Firmware Version	3.8.1.4 (Formal Release)
Build Date	10th August 2016
Release Date	25th October 2016
Applicable Models	VigorBX 2000, VigorBX 2000ac
Locale	UK & Ireland Only

### **New Features**

1. Incoming Trunk and Alias numbers / names are now displayed in [IP PBX] > [PBX Status] > [Call Detail Records] along with the Extension receiving the call in the format of "[Trunk/Alias number]/[Extension]"

### **Improvements**

1. [Personal Voice Mail Greeting Prompts] web interface now supports Hunt Groups (numbers 51 to 70 = Hunt Groups 1 to 20)
2. Additional WAN registration options added for SIP Trunks ("WANx Only" / "WANx First")
3. SIP Trunk auto failover to backup WAN interfaces can be controlled with "WANx First" registration option or disabled with "WANx Only" setting
4. SIP Trunk registration now supports registration over 3G / 4G USB WAN
5. Night Service can now play on/off User Prompts to indicate setting change, specified in [IP PBX] > [PBX System] > [PBX Service Number]
6. Improvements to IPPBX Dashboard view to display the Office Hours state of the PBX system (decided either by schedule or Night Service over-ride)
7. Added "voip dsp setFxoGain" CLI command to control FXO port TX and RX Gain values
8. Added "voip dsp setCidDetGain" CLI command to control Caller ID Detection Gain values
9. Custom Trunk can now increase DTMF gap for dialling up to 1000ms with "ippbx lineSetting custom n -t" CLI command
10. Improved audio quality of Auto Attendant through the FXO / PSTN Trunk ports
11. Uploading prompts via [Prompt Maintenance] now supports HTTPS
12. Session validation method improved in Web UI
13. Improved Wildcard "?" handling algorithm
14. Call Detail Record was not displayed correctly when a call was forwarded to another number by a Hunt Group's Overflow Rule
15. Numbers in [IP PBX] > [PBX Status] > [Extension Monitor] were not displayed correctly when using Call Parking

### **Known Issues**

(None)



Firmware Version	3.8.1.3 (Formal Release)
Build Date	28th March 2016
Release Date	18th May 2016
Applicable Models	VigorBX 2000, VigorBX 2000ac
Locale	UK & Ireland Only

## **New Features**

1. Dashboard now shows Office Hours state and new Colours for Extension / Trunk states:

### **PSTN Trunks:**

Grey = Not Enabled  
Green = Enabled and Plugged in / Ready to use  
Orange = Enabled, Line in Use

### **SIP Trunks:**

Grey = Not Enabled  
Green = Enabled and Registered  
Orange = Enabled, Line in Use  
Red = Enabled and Unregistered

### **Extensions:**

Grey = Not Enabled  
Green = Enabled and Registered  
Orange = Enabled and Line in Use  
Red = Enabled and Unregistered

2. Web interface to upload and manage custom Voicemail Greeting prompts for Extensions in [IP PBX] > [PBX System] > [Prompt Maintenance] in [Personal Voice Mail Greeting Prompts]

## **Improvements**

1. Improvements to FXO Dial Tone Detection mechanism
2. Changed TCP Initial sequence number mechanism
3. Added X-Frame-Options to HTTP headers
4. Session validation method improved in Web UI
5. Resolved display issue in [Load-Balance/Route Policy] > [Diagnose]
6. Improvements to [IP PBX] > [PBX System] > [Prompt Maintenance] User and System prompt web interface
7. Resolved display issue for [Object Settings] > [Notification Object]
8. Some display & functionality issues with the use of "889" voicemail interface have been resolved
9. Telnet "ipf" display issue for rules configured with a protocol of "TCP/UDP"
10. mDNS (Bonjour) mechanism improved for networks that do not use IPv6

Firmware Version	3.8.1.2 (Initial Release)
Build Date	22nd December 2015
Release Date	8th March 2016
Applicable Models	VigorBX 2000, VigorBX 2000ac
Locale	UK & Ireland Only

**First Firmware Release for this model**

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