Release Notes for DrayTek Vigor 2820 (UK/Ireland)

Firmware Version	3.3.8
Release Type	**Regular** – Upgrade recommended when convenient Note: A previous firmware (3.3.7.9) was a **critical release**. This f/w includes all changes/improvements that were in 3.3.7.9.
Release Date	31st March 2017
Build Date	16th March 2017
Revision	63198
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only

New Features

(None)

Improvement

1. Session validation method improved in Web UI
2. Updated TCP Initial sequence number mechanism
3. TLS compatibility improvement for TR-069 connection to Vigor ACS-SI

Known Issues

(None)

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.

NOTE: ADSL Modem Codes

- For general purpose usage on UK lines, modem code 232201 is recommended.
- For ADSL2+ Annex M lines, the latest modem code 2471201 is suggested.
- For line speeds of less than 4Mbps, on lower quality lines a modem code with more conservative parameters, 211801 is suggested

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	3.3.7.9
Release Type	**Critical** – Upgrade recommended immediately
Release Date	28th December 2016
Build Date	6th December 2016
Revision	61059
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only

New Features

(None)

Improvement

1. Security improvements including one or more considered critical.

Known Issues

(None)

Firmware Version	3.3.7.8
Release Date	4th March 2016
Build Date	18th February 2016
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only (inc UK Annex M)

New Features

(None)

Improvement

1.	Firewall - Session Control - session limit issue resolved

Known Issues

(None)

Firmware Version	3.3.7.7
Release Date	
Build Date	6th January 2016
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only (inc UK Annex M)

New Features

1.   Web Server supports TLS 1.2

Improvement

1.   Improved TCP SYN protection mechanism

Known Issues

1.   If the firewall is enabled, clients may see a session limit message after some time.

Firmware Version	3.3.7.6 (Current Release)
Release Date	16th February 2015
Build Date	14th January 2015
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only (inc UK Annex M)

New Features

(None)

Improvement

1. The router's TCP SYN protection has been improved.

2. [VoIP] The router's VoIP ATA could not block anonymous calls with sipgate ITSP

Firmware Version	3.3.7.5 (Release)
Release Date	7th July 2014
Build Date	19th June 2014
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only (inc UK Annex M)New Features

New Features

(None)

Improvement

1. Prevent PPTP log-in if LAN-to-LAN profile enabled but no password set.

2. Updated SSL for CVE-2014-0224

Firmware Version	3.3.7.3 (Release)
Release Date	12th October 2012
Build Date	3rd October 2012
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only (inc UK Annex M)New Features

New Features

(None)

Improvement

[VoIP]

1. Corrected: Solve twenty seven inter-operability issues for SIP RFC3261.
2. Corrected: An issue of G.711 compliance for FAX.

[3G Connection]

3. Support added for AnyDATA ADU-500A modem; ZTE MF190J[19D2:1542->1544]

[Firewall]

4. Corrected a full buffer issue when decoding WCF reply
5. WCF and anti-spam improvements

[OTHERS]

6. Improvements for H323 passing through NAT.
7. Corrected ADSL TX/RX (transmission/receiving) bytes counts
8. Corrected secondary DNS IP display error in the Online Status page
9. Corrected: PVC WAN can not receive fragmented packet.
10. sysDescr(OID = .1.3.6.1.2.1.1.1.0) now shows model name, firmware version and build date
11. Improved: IGMP Query interval can be adjusted by using a telnet command.
12. Improved: Disable QoS by default for non-VoIP models.
13. Improved: Support DNS-SRV query/response from/to LAN hosts.
14. Application>> SMS added
15. Added DHCP Server Lease time field
16. DHCP client information will be reported to syslog.

Firmware Version	3.3.7.2 (Release)
Release Date	19th June 2012
Build Date	23rd May 2012
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	2471201
Locale	UK Only / Annex A Only (inc UK Annex M)

New Features

(None)

Improvement

[ADSL]

1. Corrected: Removed ADSL2/2+ Annex M support in Multimode DSL modulation to improve compatibility.

[VoIP]

2. Improved: Improved the telnet command to disable the VoIP service (voip sip misc -D).
3. Improved: DNS SRV support for Dray VoIP internal client (supporting SIP Proxy failover).
4. Improved: SRV DNS queries now go through the WAN that the SIP account is registered with.
5. Corrected: The minimum value for the session-timer in VoIP > Phone Settings is now 48 seconds

[3G Connection]

6. Improved: Supports ZTE K3806 (0x19D2:0x1013) and ZTE MF192 (0x19D2:0x1514)

[Bandwidth Management]

7. Improved: Added Bandwidth limit for VPN remote dial-in client.
8. Improved: Added Bandwidth limit for VPN LAN to LAN traffic profile.

[OTHERS]

9. Corrected: Removed "Ultrasurf" blocking support from App Enforcement Profile.
10. Corrected: Product registration problem.
11. Corrected: Several web interface improvements (i.e. VPN) such as adding "reset to factory default" link to the user mode password page.
12. Fixed: A problem with Data Flow Monitor when the Call/Data filter is disabled.
13. Improved: Corrected a bug with NAT > address mapping.
14. Improved: The default DHCP pool size is 150, was 50. This will only change if the router is set to factory default settings.
15. Improved: Added new DDNS provider "UBDdns".
16. Improved: Added support for "static route to router-borne WAN" feature.
17. Improved: Login Customization now has a bulletin facility for the login screen.
18. Supports IP Routing subnet parameters for TR-069.Release Notes for Vigor2820 series

Firmware Version	3.3.7.1 (Release)
Release Date	10th April 2012
Build Date	29th Feb 2012
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only (inc UK Annex M)

New Features

(None)

Improvement

[ISDN]

1. Call barring failure for ISDN on-net call.
2. Solved ringing FXS1 & FXS2 issue for ISDN broadcast loopthrough call.
3. Four calls are in ISDN1-S0 & ISDN2-S0.If ISDN1-S0 & ISDN2-S0 hang up, the router will reboot

[VoIP]

4. Solved VoIP compatibility issue with proxy server (Vodafone.sip in Germany)
5. Fixed a call hold related issue

[VPN]

6. Resolved compatibility issue with SonicWall VPN client.
7. Resolved issue where passthrough session would be reset when receiving ICMP "Fragmentation needed" packet
8. Added support for VPN chart in Syslog.

[Wireless]

9. Fixed issue with Wireless time schedule
10. New wireless clients cannot connect after forcing down WLAN schedule

[USB]

11. Added support for Huawei E173
12. Added support for Support Sierra 320U, LTE modem and others

[TR-069]

13. Add TR-069 parameters for VigorACS SI in Firewall setting.
14. Resolved issue where TR-069 configurations disappear after upgrading firmware from v3.3.5.3 to v3.3.7

[OTHERS]

15. Telnet command added to allow disabling of one of the DHCP server options (telnet

1. command: srv dhcp primWINS).
16. Removed ISDN wording on Web UI when using non-ISDN models.

Known Issues

(None)

Firmware Version	3.3.7 (Release)
Release Date	22nd Nov 2011
Build Date	27th Oct 2011
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201
Locale	UK Only / Annex A Only (inc UK Annex M)

New Features

1. Add SMS Web UI in Application menu.
2. Support auto-detection mechanism. If this function is enabled, the router can display available devices connected on the same subnet, such as other Vigor routers, Switches and Access Points. See [External Devices] menu

Improvements

1. Fixed: General NAT mechanism improvements including fixes for NAT session issues seen with IP phones.
2. Fixed: RIP over VPN issue.
3. Fixed: Web size misallocation causes insufficient memory.
4. Fixed: UCF query doesn't work in SSLv3 issue.
5. Corrected: Memory issue relating to CHAP failed event logging
6. IPSEC LAN to LAN Dial-in side will check if the subnet ID from incoming connection is different to the local subnet in the profile.
7. Fixed: VPN client could not login to remote router web page successfully through IPSEC LAN to LAN tunnel.
8. Improved: DTMF outband packet SRTP decrypting mechanism.
9. Improved: Add error checking for certain malformed SIP "session-expire" headers.
10. Improved: Improve the call waiting mechanism.
11. Improved: Check call direction of VPN to avoid dial-out profile being used by host to LAN and refined Syslog.
12. Improved: Some problems occurred in UCF/WCF.
13. Improved: Refined wireless bridge code.
14. Improved: Add wireless DTIM and beacon period setting telnet command
15. Improved: Modify the user mode login web messages, so that messages are consistent across all 2 series models.
16. Improved: Add SNMP ADSL RX information (OID:1,3,6,1,2,1,10,94,1,1,4)
17. Improved: Add user defined DHCP option for telnet command.
18. Improved: Add wireless TR069 parameter for "access control/WPS/APDiscovery/Stationlist".
19. Improved: NAT throughput
20. Improved: Login authentication security level for FTP server.
21. Improved: Adjusted default Inbound/Outbound speed for QoS: 100Mbps/100Mbps
22. Improved: Improve the Call Hold mechanism.
23. Improved: Enhance VoIP application compatibility.
24. Improved: Improved several ISDN features such as on/off net PIN code.

Firmware Version	3.3.5.2 (Release)
Release Date	3rd May 2011
Build Date	7th Apr 2011
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201 (Standard)
Locale	UK Only / Annex A Only (inc UK Annex M)

New Features

1. SMTP port can be modified by the user
2. Support TR-069 parameters for matching with VigorACS SI
3. Support APP QoS for Firewall
4. USB Analogue Modem Support

Improvements

For VPN

1. IPSec remote dial-in can be connected even no IPSec profile is enabled.
2. Resolved an issue where the Access list wuld block access to Web UI via remote VPN.

For NAT

3. Resolved NAT loopback problem.

For VoIP

4. Resolved VoIP stability issues.
5. Improved Online Status for VoIP.
6. Corrected an issue where the fax relay did not receive all of the data from the caller.
7. Added a new telnet command to disable/enable VoIP service.

For ISDN

8. Resolved one way audio issue for "call pickup" scenario with VigorIPPBX router.
9. Solved issue where the first character of the incoming call was missing
10. Resolved issue where router would reboot if ISDN2-S0 phone is used to dial "call pick up" number

For Others

11. Port Trigger renamed as Port Triggering

Firmware Version	3.3.4.1 (Release)
Release Date	4th October 2010
Build Date	24th September 2010
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201 (Standard)
Locale	UK Only / Annex A Only

IMPORTANT NOTE:

Firmware 3.3.4.1 provides significant improvements and new features for Vigor2820 series owners. It is possible that if you are using older firmware and retain your old configuration, you could experience difficulties or unexpected operation.

We recommend firstly taking a configuration backup of your router before upgrading and retaining a copy of the older firmware in case you want to revert back to it later (old firmware versions are available from, ftp://ftp.draytek.com).

Upgrade to this new firmware locally only (i.e. when you are with the router, not remote to it). After you upgrade to the new firmware, check the operation of the router and ensure that it is operating correctly. If not, we recommend upgrading the router again but use the .RST file which will reset the router back to factory default settings; you will then need to configure the router from scratch.

New Features

(None)

Improvement

1. Fixed: Bind IP to MAC did not function correctly.
2. Fixed: Selecting "Auto" channel in Wireless LAN - General Setup caused configuration error.

Firmware Version	3.3.4 (Release)
Release Date	22nd June 2010
Build Date	21st June 2010
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201 (Standard)
Locale	UK Only / Annex A Only

New Features

1. Add Support for WCF (DrayTek GlobalView)
2. NAT port trigger function
3. Implement Mobile One Time Password functionality (mOTP)
4. Support for Internet Gateway Management Protocol (IGMP) V3.

Improvements

Firewall

1. Improved: Improved response behaviour to PCI scan tools for TCP session.
2. Fixed: WCF configuration sometimes gets erased after reboot.
3. Corrected: Memory response for WCF.
4. Improved: Firewall robustness.

VPN

5. Improved: Apply "My WAN IP field" to IPSec NAT mode for CheckPoint router.
6. Improved: Improve VPN interoperability with Cisco router.

NAT

7. Corrected: NAT mechanism for better handling of DNS packets
8. Corrected: Connection failed with PPTP protocol when the VPN server is located behind NAT.

ISDN

9. Corrected: When WAN1 & WAN2 aren't enabled, packets can't trigger ISDN connection.
10. Fixed: ISDN phone keeps ringing even though the incoming call to ISDN-TE has been answered by the FXS port

TR-069

11. Corrected: TR-069 stun function causes incorrect socket behaviour, which may cause other functions to fail.
12. Corrected: Https URL (without port number) setting in ACS Server URL field doesn't work.

USB

13. Improved: Add samba server functions for users
14. Fixed: 3G code prevented router from booting
15. Fixed: 3G modem unplug causes buffer release error.
16. Fixed: Issues with FTP, Samba service
17. Corrected: SAMBA transfer problem.
18. Corrected: Issues with USB Syslog reporting.
19. Corrected: The router crashes when using Mac OS X to access USB disk via Samba protocol.
20. Corrected: USB Samba sharing does not working appropriately with Total Commander.

3G

21. Fixed: Dial-up failure caused by 3.5G disconnections on communication.
22. Fixed: Sending AT command by using Telnet command cause system halt.

DNS

23. Fixed: AAAA queries from computers sometimes get response without AAAA type from DNS server, which causes the transparent mode for AAAA to fail.

For Wireless

24. Improved: Support inbound QoS for wireless client.

VoIP

25. Improved: Add telnet command to turn intercom on/off; intercom is for calls between phone1 and phone2.
26. Improved: Disable intercom by default and provide a CLI command to enable intercom.
27. Improved: ZRTP retaining shared secret mechanism has been modified to not save data to the flash.
28. Improved: VOIP call status reports "call return" from ISDN-S0.
29. Improved: Handled a call waiting scenario where one of our router's SIP accounts tries to call transfer to the same SIP account itself.
30. Improved: Add protection for various calling cases when SIP buffers are insufficient.
31. Improved: SIP registration via VPN tunnel.
32. Improved: Add secure phone option switches to dial plan page.
33. Improved: Add function on ISDN-S0 port to support Call barring.
34. Improved: Reduce web file memory usage.
35. Improved: Modify the mechanism to handle SIP header named "MIME-version".
36. Improved: Improve call-waiting function for SIP account assigned multiple ring ports (broadcast call) setting.
37. Improved: Improve robustness for ZRTP protocol (for secure phone application).
38. Improved: Improve interoperability with some SIP proxy server for registration expiry time.
39. Improved: Improve interoperability with some SIP UA for SDP protocol.
40. Improved: Support broadsoft server CLIR mode.
41. Improved: Add loop detection for SIP protocol.

42. Improved: Change WUI title from "interface" to "route" in DigitMap and Call Barring page.
43. Fixed: a broadcast call-waiting problem (i.e. more than 1 ring port is ticked for a SIP account)
44. Fixed: MWI stutter dial tone error.
45. Fixed: a call-waiting bug.
46. Fixed: Potential reboot error while using the telnet command of voip.
47. Fixed: SIP account stops to do registration in some case.
48. Fixed: If the block interface is ISDN, calls from ISDN-TE port still need to follow the call barring rules.
49. Fixed: Control error for VoIP offnets to ISDN PIN code
50. Fixed: Internal call failure.
51. Corrected: VoIP call log display error when the call log exceeds 10.
52. Corrected: a VOIP buffer leakage problem in registration with blank "domain".
53. Corrected: Several Call Transfer errors occurred and hang up all the phones at once.
54. Corrected: The GPIO configuration(GPIO 3: FXS_ONHOOK_DET1;GPIO 7:INT of ISDN; GPIO 22:FXO_INT and SPI GPIO PIN)
55. Corrected: a SRTP buffer leakage problem.
56. Corrected: Add a configure flag to control the PSTN call ringing the FXS port, otherwise when you upgrade firmware from firmware 3.3.3, the PSTN loopthrough will fail to ring FXS port.
57. Corrected: a VOIP STUN server doesn't work with WAN2.
58. Corrected: Error occurred in ISDN port hot line. The malfunctioning is caused due to incorrect channel-port mapping.
59. Corrected: While using the Far East VoIP box with Vigor SIP ALG, mobile phone keeps ringing after VoIP call hang up.
60. Corrected: Phone port would not play dial tone sometimes.
61. Corrected: VoIP driver error under stress test.
62. Corrected: When SIP server uses dynamic domain name and changes the IP address, the SIP account registration will fail.
63. Corrected: SIP server with early media will cause no ring back tone.
64. Corrected: Correct the timing of flashing phone LED.
65. Corrected: A workaround to solve the incident that Vigor2820Vn loaded 2820VSn's config rebooted itself during boot up.
66. Corrected: Not reject T.38 protocol cause the FAX operation failure. (T.38 will be supported in next version)
67. Corrected: Memory leakage in SIP protocol for specific SIP server.
68. Corrected: After finishing a VoIP call, the DECT phone will cause the router reboot for the echo canceler is not disabled. For TR-069
69. Corrected: TR-069 stun function causes incorrect socket behaviour which may cause other function fail.
70. Corrected: Https URL (without port number) setting in ACS Server URL field doesn't work.

Others

71. Corrected: Refine DHCP transaction ID to reduce the ID conflict problem which might prevent router from getting correct IP information from DHCP server.
72. Improved: Refine flow timeout macro.
73. Improved: Improve router stability by adjusting flow and dynamic ARP mechanism.
74. Improved: Support DHCP option 33.
75. Improved: Modify WiMAX information in Online Status.
76. Improved: WiMAX driver implemented based on country code.
77. Improved: Add some TR-069 parameters.
78. Improved: Add the Browse button on the Home Folder of User Management for USB diskette.
79. Improved: Add high-level Encryption Key Algorithm (3DES/AES-128) for HTTPS.
80. Improved: Modify "arp cache table" to delete the entry time from 180 seconds to 40 seconds once the ARP cache entry is expired.
81. Improved: Incorporate hardware acceleration into data flow monitor.
82. Improved: Clearing of the buffer before adding string into syslog.
83. Improved: Refine IGMP Proxy for IGMPv3
84. Improved: A router stability problem.
85. Fixed: Reboot will not be performed automatically after finishing FTP firmware upgrade.
86. Fixed: PPTP Tx/Rx count error.
87. Fixed: If the length of domain name is greater than 128, it will cause overwrite error in Syslog message.
88. Fixed: Connection will be dropped after timeout (about 300 sec) for PPPoA pass-through.
89. Fixed: Show the wrong source MAC address in syslog.
90. Fixed: A problem of PPTP WAN disconnects in 2 minutes.
91. Fixed: A load balance bug.
92. Fixed: The router could not multicast the entire routing table (only the first 25 routes).
93. Fixed: Ping detect TTL problem.
94. Fixed: A problem for PPTP disconnected uncertainly.
95. Fixed: Local buffer overwrite issue occurs while using telnet commands of "ip igmp_proxy status" and "ip igmp_snoop status".
96. Fixed: a system buffer leakage issue.
97. Fixed: IP session count increased but no NAT session available.
98. Corrected: A buffer leakage will cause router reboot when using SNMP tool to get information from router.
99. Corrected: TCP packets through NAT cause the Internet access speed slow down.
100. Corrected: Potential stack overflow problem.
101. Corrected: SSL reboot problem.
102. Corrected: WEB page display.
103. Corrected: When VPN server is behind Vigor NAT and using True IP DMZ to get IP, Vigor NAT will block both VPN client's and VPN server's GRE request.
104. Corrected: Malfunctioning in data flow monitor and bandwidth session limit.
105. Corrected: A memory overflow problem in LAN >> Bind IP to MAC

Firmware Version	3.3.3 (Release)
Release Date	3rd November 2009
Build Date	23rd October 2009
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201 (Standard)
Locale	UK Only / Annex A Only

New Features

1. SmartMonitor supported with up to 30 users
2. Syslog output to USB disk
3. Add Mirror port function to WUI (For SmartMonitor)
4. WUI File explore for USB disk on WUI
5. PPPoA passthrough
6. Add Address Mapping function for NAT
7. Add "busy or no answer" for VoIP call forwarding.

Improvement

VoIP:

1. Corrected: ringing tone for Singapore.
2. Corrected: VOIP regional malfunctions after SAS has been generated.
3. Corrected: SIP memory leakage.
4. Improved: digitmap feature (both WebUI fool-proof check and wildcard support).
5. Corrected: a semi-attendant CT.
6. Corrected: CPU 1.4 VOIP compatibility.
7. Corrected: Doubled VoIP buffer to increase stability
8. Fixed: Call scenario fails with no registration.
9. Fixed: Phone does not ring after calling for a while.
10. Fixed: When RFC-2833 with payload type= 96 packet is received, the router will reboot.
11. Fixed: Call forward when busy for ISDN S0.
12. Corrected: Prevent ISDN loop through being set to to PSTN via Digit Map.
13. Improved: Increase compatibility with more stun servers.
14. Improved: Allowed VoIP number starting with # for non-IP calls.

ISDN:

15. Corrected: Reboot problem of ISDN
16. Fixed: the first incoming call (TE->S0) would have beep for a while
17. Fixed: Called ID of S0 phone outgoing call display error when a remote user offhook the phone.

Firewall:

18. Corrected: Call Filter didn't apply to WAN interfaces correctly

Wireless:

19. WDS is now compatible with AP700.

VPN

20. Corrected: Failure of running IP Ping through VPN.
21. 2nd subnet can be set to route via VPN as its default route.
22. Fixed: L2TP over IPSec performance for teleworkers
23. Add "vpn 2ndpass" and "vpn 2ndsubnet" telnet commands for use VPN with second subnet routing.
24. Add "Multicast via VPN" option in VPN profiles
25. Add new DEU(DES/3DES/AES) driver for Infineon new v1.4 SoC

USB:

26. Corrected: Using samba service could cause router to reboot
27. Improved: Improved general USB functionality

3G:

28. Improved: Improved the stability of the 3G Connection

Others:

29. Corrected: Syslog function could cause memory leakage or reboot
30. Corrected: User configured ARP cache expiry time will not be reset on router reboot
31. Corrected: PPTP NAT passthrough problem
32. Corrected: DNS query type for AAAA.
33. Corrected: PPPoA passthrough problem
34. Corrected: TR-069 improvements
35. Corrected: NAT loopback issue
36. Fixed: Problems that occurred in WUI.
37. Fixed: Load balance setting for specific LAN device with specific WAN interface will fail after fail-over happened.
38. Improved: Router stability against NMAP scan and WUI autism
39. Corrected: Improved router response to MX Queries. Our DNS proxy does not support MX type query; the new modification does not cache such kind query. It just lets the packet passing-through our proxy, like a transparent mode for MX query.

Firmware Version	3.3.2.1 (Release)
Release Date	6th August 2009
Build Date	29th July 2009
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201 (Standard)
Locale	UK Only / Annex A Only

New Features

(None)

Improvement

1. Wireless SSID default name has been changed to "DrayTek".
2. Improved: Disabling IPSec VPN service could trigger router to continually reboot

Known Issues

1. ZFone 0.92 build 218 will pop up two identical windows that say "unsupported type of error was received" when SAS is generated. However, the voice protection afterward and SAS are all good. The above scenario only happens when vigor calls zfone for the very first time! Vigor to Vigor call doesn't have this issue!

2. NAT Loopback (Locally accessing another local machine via an external IP and port redirection) does not work for WAN IP Alias addresses

Firmware Version	3.3.2 (Release)
Release Date	4th August 2009
Build Date	16th July 2009
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201 (Standard)
Locale	UK Only / Annex A Only

New Features

1. Support USB disk application (FTP/Samba).
2. Support wireless VLAN/SSID mapping function.
3. Support mirror port feature.
4. Support Secure Phone feature by using ZRTP+SRTP.
5. Support TwoCom DDNS services.
6. 3G modems drivers added for: Bandluxe C120/C170/C270, ZTE MF626/636, and support Option Icon new driver including Option 225 and HSUPA modem Sierra 881/885/888, Sony Ericsson MD300, XS Stick W12, D-Link DWM-652 modem).

Improvement

1. Fixed: VPN DPD disconnect from remote side.
2. Fixed: DHCP server gives out invalid IP when subnet mask is not class C (255.255.255.0)
3. Improved: USB 3G stability for using P2P software.

For VoIP

4. VoIP: Fixed issue that could cause reboot when using supplementary services.
5. VoIP: Fixed ISDN DTMF detection issue
6. VoIP: Fixed ISDN codec issue
7. Disabled Ralink 11n RDG (Reverse Direction Grant) function
8. Improved Wireless interoperability with Vigor AP700 when using WDS with WPA or WPA2 mode.

Firmware Version	3.3.1.2 (Release)
Release Date	27th May 2009
Build Date	12th May 2009
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn, Vigor2820Vsn
ADSL Modem Code	232201 (Standard)
Locale	UK Only / Annex A Only

New Features

1. Support ISDN function

Improvements

VOIP

1. Add protect function for sending caller-ID with DTMF type for the character used is non-standard
2. Add protection for SIP parser to prevent malicious UDP 5060 port attack
3. Add an enable/disable check box in VOIP regional
4. Add a telnet cmd "dtmftonepwr" for adjusting the power level of the DTMF tone sending PSTN switch
5. Support "ALL" interface in call barring
6. Support call pickup (when act as a caller)
7. Improved: Danube DSP FXS on/offhook detection by using MPS driver
8. Improved: Stability for FXO Port or PSTN Port ring detection
9. Corrected: RFC-2833 packet format
10. Corrected: SIP SUBSCRIBE message was missing "Contact" header
11. Corrected: VoIP can not change codec (driver layer)
12. Corrected: When a phone call is rejected (486 message), it still played a ring back tone
13. Corrected: DND exception list malfunctioning
14. Improved: SIP/SDP parser to handle complicated SDP content.
15. Improved: VOIP stability
16. Improved: Scenario where SIP ALG code for SIP client on WAN side is registered to SIP server on LAN side
17. Improved: Digit-Map function can use different prefix length but start with same digit rule.
18. Fixed: Problem of VoIP PSTN loopthrough in Phonebook and Digit Map

3G

19. Improved: 3G reconnect stability, backup mode
20. Corrected: unable to fetch 3G signal strength response
21. Support SonyEricsson MD300 modem. Skip CSQ signal check
22. Support Sierra 885/888 modem, DET-US3G5 modem, Cmotech D-50, and D-Link DWM-652 modem

WLAN

23. Wireless Set WPS client's default MAC address as 00-00-00-00-00-00 to avoid WUI display error
24. Fixed: Problem that wireless clients are unable to get IP address from DHCP

Others

25. Corrected: IM-P2P can not block Vagaa application
26. Corrected: WAN2 status not compatible with syslog utility 4.X
27. Corrected: DDNS use WAN2 first fail.
28. Corrected: syslog can not sent out via VPN tunnel
29. Corrected: ways of handling DNS port reply packet (a non DNS answer packet)
30. Corrected: IM-P2P mail alert malfunctions
31. Improved: VPN mechanism to avoid sending unnecessary DPD echo/reply
32. Improved: FTP server (active mode upload)
33. Improved: NAT loop back for SSH and FTP service
34. Improved: handle protocol equal to zero packets
35. Improved: PPTP WAN mechanism
36. Improved: telnet command for flush nat portmaps; it maybe useful for some conditions portmapsetting –f
37. Fixed: access control function can't be disabled in Wireless LAN>>Access Control
38. Fixed: authentication failed with radius server: Vasco Middleware
39. Make telnet Call-log related command more robust to prevent reboot
40. Rearrange the telnet command with alphabet order

Firmware Version	3.3.0 (Release)
Release Date	4th November 2008
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn
ADSL Modem Code	211801 (Standard)
Locale	UK Only / Annex A Only

New Features

1. Support VPN IKE AES128/AES192/AES256 and MODP Group 14.
2. Support windows vista L2TP IPSec.
3. Support CSM (Content Security Management) and allow users to configure IM/P2P Filter
1. Profile, URL Content Filter Profile and Web Content Filter Profile.
4. Support new functions of Firewall such as specifying IM/P2P Filter profile, URL Content Filter profile and Web Content Filter profile for filtering.

Improvement

1. Change the Wi-Fi SSID from \"default\" to \"DrayTek\".
2. Improve system stability by adjusting the stack size.
3. Improve the connection stability of 3G network.
4. Restore Specify Remote Node in VPN and Remote Access>>Remote Dial-In User page.
5. Corrected: VoIP call log cannot be displayed correctly by using telnet command.
6. Corrected: Caller ID cannot be displayed on the phone which is using DTMF mode to display it.
7. Corrected: Caller ID cannot be displayed normally for internal call.
8. Corrected: Potential reboot will be happened due to the buffer size.
9. Corrected: VoIP buffer leakage problem.
10. Corrected: PPTP interface cannot work normally.
11. Corrected: Modify IM/P2P signature for FeiDian Player.
12. Corrected: Port redirection cannot work while using WAN IP alias.
13. Corrected: Phone setting always uses the first SIP account as the default dial-out account.
14. Corrected: WAN IP cannot be reverted to factory default if True IP in NAT>>DMZ Host Setup is not enabled.
15. Corrected: Web configuration is not compatible with Firefox 3 version.
16. Corrected: The router will reboot due to VPN connection with fragmented packets.

Firmware Version	3.2.1 (Release)
Release Date	24th June 2008
Applicable Models	Vigor2820, Vigor2820n, Vigor2820Vn
ADSL Modem Code	211801 (Standard)
Locale	UK Only / Annex A Only

New Functions

1. Support WAN IP Alias function for WAN2.
2. Support 802.1x for Wireless connection.
3. Add WAN Connection Detection function in WEB UI.
4. Support fixed SIP account when using Phone Book to dial out.

Improvements

1. Correct VoIP passthrough issues.
2. Improve USB 3G modem function stability.
3. Improve ADSL interoperability.
4. Correct router reboot caused by Limewire Pro Mac version issue.
5. Correct unable to visit https port via WAN when disabling http server.
6. Correct VPN remote dial in not work when IP unnumber is enabled
7. Correct Digit map can't redial to PSTN line issue
8. Correct Improved WLAN compatibility
9. Correct IP routing related VPN issue.
10. Correct rebooting issue caused by nmap tool.

Firmware Version	3.1.3 (Release)
Release Date	05th March 2008
Applicable Models	Vigor2820, Vigor2820n
Locale	UK Only / Annex A Only

New Functions

1. Support USB 3G modem connectivity

Improvements

1. Update Websense Surfcontrol settings
2. No reboot following telnet commands "wol up" & "mngt accesslist"
3. Update CSM signature for msn 8.1

Firmware Version	3.1.2 (Release)
Release Date	16th January 2008
Applicable Models	Vigor2820, Vigor2820n
ADSL Modem Code	211801_A (Annex A)
Locale	UK Only

New Functions

1. Support wireless WDS function.
2. Add ADSL Annex_M modulation mode.
3. Add traffic graph display options, now support daily/weekly display mode.

Improvements

1. Improved QoS performance.
2. Improved wireless short coverage problem between Intel2200BG and Vigor2820n.

Firmware Version	3.1.1 (First Firmware Release)
Release Date	November 22nd 2007
Applicable Models	Vigor2820, Vigor2820n
Locale	UK Only

First Firmware Release for this model

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