

Firmware 8.0.0 Release Notes

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Contents

1. Devices Supported
2. Important Notices
3. Obtaining the Firmware
4. New Features
5. Feature Improvements
6. Resolved Issues
7. Report an Issue

1. Devices Supported

This firmware release supports the following devices:

EPX	EPX
Balance:	20 / 30 / 30 LTE / 30 Pro / 50 / One / 210 / 310 / 305 HW2 / 380 HW6 / 580 HW2-3 / 710 HW3 / 1350 HW2 / 2500
MAX:	BR1 MK2 / BR1 HW2 / BR1 Slim / BR1 Mini / BR1 M2M / BR1 ENT / BR1 IP67 / BR2 / HD2 / HD2 IP67 / HD2 Mini / HD2 Dome / HD4 / HD4 MBX / HD4 IP67 / Transit / Transit Duo / Hotspot / On-The-Go HW2 / 700
Surf:	SOHO HW2 / SOHO MK3
MediaFast:	200 / 500 / 750 / HD2 / HD4
SpeedFusion Engine	SFE
FusionHub	FusionHub

2. Important Notices

- For BR1 series, the unit must be upgraded to [Firmware 7.1.2](#) first before upgrading to 8.0.0
- **PepVPN backward compatibility option is no longer available.** By deprecating the old firmware versions, we now have a more secure handshake channel as the default setting, only TLS 1.2 will be accepted, no more TLS 1.0 and 1.1 for the old devices. Thus, if you are using devices running Firmware 6.1 or older, you will no longer be able to form PepVPN tunnels with those devices unless the firmware is updated.
- Internet Explorer 11 is no longer supported by Web Admin.

3. Obtaining the Firmware

The Firmware can be obtained here: <https://www.peplink.com/open-beta-program/>

4. New Features

Reference	Feature	Devices Supported
3968	[PepVPN] Added support for Forward Error Correction in PeVPN.	All models with WAN Smoothing support
11813	[Outbound Policy] Added new option for the rule when its requirement is no longer satisfied - fall through to the next rule. - use any available connections instead of only the chosen connection. - drop the session	All models
17165	[PepVPN] Added support for simultaneous L2 and L3 PepVPN connections between the same pair of devices.	
19059	[Remote User Access] Added support for Active Directory in remote user access.	Balance: 210 or above MAX: 700, HD2/4 Series MediaFast: All EPX
18222	[Remote User Access] Added support for Remote User Access via OpenVPN.	
14523	[WAN Analysis] Added a new tool to test the throughput and consistency of each WAN connection by pushing traffic. Can test for both uplink and downlink.	All models
16864	[PepVPN] PepVPN tunnels can now be established using TCP in addition to UDP.	

15024	[Grouped Network] You can now designate groups of IP addresses, which can then be used to define firewall rules.	
16153	[Grouped Network] You can now designate groups of IP addresses, which can then be used to define outbound policy rules.	
18118	[VRF] Support of Virtual Routing and Forwarding.	FusionHub
19366	[EPX UI] EPX UI Enhancement for the Dashboard, and WAN & LAN Port Settings. Module illustrations enable you to easily visualize the connected modules and select specific interfaces.	EPX

5. Feature Improvements

Reference	Feature	Devices Supported
18519	[Client List] Device will be shown online after it has been detected during mDNS lookup.	
19241	[Outbound Policy] Outbound Policy for PepVPN sub-tunnels can now work with "Send all traffic to".	
18635	[PepVPN Status Page] The PepVPN Status Page is now clearer and more informative.	
19302	[PepVPN] Active Sessions show PepVPN and PepVPN sub-tunnel profile details.	
18654	[PepVPN] Enhanced large packet handling by fragmenting packets inside the PepVPN tunnel.	
20248	[PepVPN] Layer 2 Mode now allows you to create multiple tunnels between the same pair of devices for bridging up to 5 different selected VLANs.	All models
18795	[PepVPN] The Web Admin will allow PepVPN Tests to run on connections even when in the "Updating Routes" state.	
19050	[PepVPN] In Outbound Policy rule, if the destination is a PepVPN profile with multiple tunnels, the DPI Application can steer traffic to different sub-tunnels.	
19454	[PPPoE] PPPoE supports custom keep-alive interval and retries	
19471	[Remote Access] PCI compliance mode for L2TP remote user access.	

18856	[Web UI] Support of X-Frame-Options / X-XSS-Protection in response headers.	
18681	[Web UI] Dashboard can now indicate the device has not been added to InControl 2.	
19425	[Web UI] In LAN > Network Settings, the list of LANs will be displayed in order of VLAN number.	
20000	[Web UI] Google Hangouts traffic is now separately identified on the Active Sessions Report (Navigation: Status > Active Sessions).	
19299	[WINS Server] Added support for WINS Server on BR1 ENT.	
18955	[Virtual Network Mapping] Added ability to select "Additional LAN Subnet" as the Local Network.	
18925	[Bandwidth Allowance Monitor] Added new option to allow management traffic when usage hits 100%.	
19759	[BGP] BGP support next-hop-self.	
18746	[PepVPN] Layer 2 Mode bridging to Untagged LAN now supports VLAN whitelist filtering.	Balance: 380 or above MediaFast: 500, 750 EPX
20429	[Outbound Policy] Added "Lowest Latency" and "Least Used" Outbound Policy algorithms to BR1 Series and Transit.	MAX: BR1 Series, Transit
19447	[AP Controller] AP Management supports sorting by Profile Name	Balance: ALL MAX: 700, Transit, HD2/4 Series MediaFast: All EPX
18533	[AP Controller/Wi-Fi AP] Wi-Fi AP transmit power can now be set to a custom value.	Balance: ALL MAX: 700, Transit, HD2/4 Series MediaFast: All EPX
19352	[SpeedFusion] When using the Overflow traffic distribution mode with WAN Smoothing enabled, WAN Smoothing can now be performed on the same link.	Balance: 210, 310, 305, 380, 580, 710, 1350, 2500 MAX: 700, Transit Duo, HD2/4 Series SFE, EPX
20155	[E-mail Notification] SMTP passwords for E-mail Notifications can now be up to 100 characters	All models
20381	[Wi-Fi WAN] Name of roaming option changed from "CarFi" to "Advanced"	MAX: All models except BR1 ENT, BR1 M2M, HD2 Mini MediaFast: All EPX

18852	[Web UI] [GPS] The map on the dashboard is now displayed and updated in real-time using OpenStreetMap.	MAX: All models except the 700 and OTG MediaFast: HD2, HD4 SFE, EPX
8938	[Cellular] Added support for remote device configuration by SMS command.	Balance: 30 LTE / 30 Pro MAX: All models except the 700 and OTG MediaFast: HD2, HD4 SFE, EP
20314	[Cellular] Added ability for the device to switch SIM Slots when the signal strength reaches a predefined threshold.	
20334	[Celular] Updated APN for Austria A1	
19815	[Cellular] [USB] [Web UI] Revamped messages for initializing cellular and USB modem status on the Dashboard	MAX: BR1 ENT, HD2/4 Series, 700, OTG All Balance, MediaFast, EPX
18897	[Wi-Fi AP] Add Saudi Arabia and South Africa in the list of operating countries.	Balance: One MAX: 700, OTG, BR1, BR1 Mini, BR1 IP67, BR2, HD2, HD4 Series, Hotspot, Transit MediaFast: HD2, HD4 Surf: Soho
20381	[Wi-Fi WAN] "CarFi" is now named as "Advanced" in Wi-Fi WAN Settings.	MAX: 700, OTG, BR1, BR1 Mini, BR1 IP67, BR2, HD2, HD4 Series, Hotspot, Transit MediaFast: HD2, HD4 Surf: Soho
20131	[DNS Server] The DNS Zone Transfer function can import records from the WAN, even if they are not enabled for the Authoritative DNS Server.	Balance: 210 or above MediaFast: 200, 500, 750 EPX
19840	[AP Controller] Devices can be configured to stop broadcasting SSIDs when there is no uplink Internet connectivity.	Balance: ALL MAX: 700, Transit, HD2/4 Series MediaFast: All EPX
20432	[AP Controller] Added an option to turn on or off "Discover Nearby Networks".	
19038	[Balance] [WAN] All WANs will be enabled in default configuration.	Balance: All
12603	[API] Added support for Send SMS via API.	Balance: 30 LTE / 30 Pro MAX: All models except the 700 and OTG MediaFast: HD2, HD4 SFE, EPX
18576	[API] Added support for Reset Cellular, Scan Cellular Network via API.	
18577	[API] Added support for Update Cellular WAN SIM Card Selection, Preference, Carrier Profile, and Bandwidth Allowance Monitor via API.	

6. Resolved Issues

Reference	Issue	Devices Affected
19207	[DHCP] The DHCP Server does not reply in some cases.	All models
19704	[Failover] UDP traffic does not failover immediately after WAN Health Check fail.	
19282	[IPsec] DH group 19/20/21 does not work.	
19306	[LAN] Using the built-in WINS Server may cause system instability.	
19525	[NAT] LAN NAT does not work across different VLAN.	
19481	[NAT] Remote User traffic incorrectly performed NAT to LAN IP address translation if the destination matched Inbound Port Forwarding service.	
19906	[NMAP] Client PCs using NMAP will cause system instability.	
19235	[OSPF] Setting a custom interface cost may cause issues.	
19557	[OSPF/BGP] OSPF/BGP router ID cannot be set if "Additional Subnet" in "Untagged LAN" is defined.	
19374	[Outbound Policy] After tunnel failback, the VPN sub-tunnel reply traffic may not be routed on proper sub-tunnel.	
19390	[PepVPN] Event Log shows unsupported version incorrectly.	
19574	[PepVPN] If particular PepVPN sub-tunnel is unable to connect, then subsequent Sub-tunnel will also not connect.	
19600	[PepVPN] PepVPN sub-tunnel does not work with NAT mode.	
19208	[PepVPN] When performing a Ping and Traceroute on a PepVPN connection, remote peer information does not appear.	
19839	[PepVPN] NAT mode device cannot obtain IP from DHCP server when LAN Additional subnet was defined.	
19823	[PepVPN] During Link Failure of a connection between a device and using SpeedFusion Bonding and a device using cold failover, the status may be marked as "Cold Standby".	
19328	[Remote Access] Remote User Access using Radius Authentication on the Untagged LAN does not work if upgrading from 7.0.3 or below.	

19163	[Remote Access] Web Admin Security > LAN Connection Access Settings do not apply to Remote User Access.	
19506	[SNMP] SNMP trap doesn't work if SNMPv1/v2/v3 is not enabled.	
19582	[SNMP] Unable to obtain the device temperature, FAN status.	
19154	[Virtual Network] The maximum length of the Virtual network set to 18 characters instead of 15 (ie: aaa.bbb.ccc.ddd/ee).	
19435	[System] System could become unstable when SSID is added to a VLAN.	
19754	[Web UI] The Web Admin shows incorrect BSSID.	
20125	[PepVPN] When PepVPN profiles use a WAN with multiple IP addresses, any unrelated configuration change on the Web Admin may cause the PepVPN profiles to initiate extra handshake or even reconnect.	
20130	[LAN] After updating LAN settings, clients connected via PPTP, L2TP with IPsec, and PepVPN NAT Mode peers will not be able to communicate with other devices in the same subnet.	
18761	[System] If there are a lot of clients connected, Client List may cause unexpectedly high CPU load.	
20332	[System] Improved DPI memory utilization for detecting SSL traffic.	
18761	[Client List] Improved performance of Client List handling.	
20125	[PepVPN] Pressing the "Apply Changes" button may trigger a SpeedFusion reconnect.	
20359	[QoS] Remote User Access users matched to the wrong QoS User Group.	
20362	[ADS] Fixed the stability issue of using In-session AD delivery service.	
19168	[Cellular] In rare occasions, the UI will show the wrong carrier.	Balance: 30 LTE / 30 Pro MAX: All models except the 700 and OTG MediaFast: HD2, HD4 SFE, EPX
17270	[Cellular] Failover to the roaming SIM card does not work.	
19216	[Cellular] When the router is not located in the home country, it cannot fallback to the non-roaming SIM.	MAX: All models except the 700 and OTG MediaFast: HD2, HD4 SFE, EPX
20048	[InControl] [GPS] The device does not report GPS data obtained while offline from InControl.	
19705	[GPS] GPS Week Rollover adjustment.	Balance: ALL
19672	[AP Controller] AP->Events Log shows Unknown SSID for	

	WPA/WPA2 Enterprise SSIDs.	MAX: 700, Transit, HD2/4 Series MediaFast: All EPX
19015	[AP Controller] Client lists cannot show the name of external AP clients if the AP is running in router mode.	
19483	[AP Controller] RADIUS MAC Authentication does not work in Open/WPA-PSK modes.	
19479	[SpeedFusion] SpeedFusion Overflow doesn't work on FusionHub.	FusionHub
19521	[MediaFast] Unable to load user-defined root certification after reboot.	MediaFast: All
20139	[Inbound Access / NAT Mappings] Port Forwarding does not work with UDP port 53 if the WAN has the Authoritative DNS Server enabled.	Balance: 210 or above MediaFast: 200, 500, 750 EPX
20061	[High Availability] The Slave unit will show the correct "last transition" time.	Balance: 210 or above MAX: All BR1 except M2M and Slim, 700, HD2/4 Series, Transit MediaFast: All EPX
18254	[WAN Quality / Surf SOHO] WAN Quality does not work on Surf SOHO	Surf SOHO
20396	[QoS] [USB Ethernet] QoS does not work on the USB Ethernet WAN.	Balance: All MAX: 700, OTG, BR1 ENT, HD2/4 Series MediaFast: All EPX
20418	[ContentHub] Cannot download from an FTP server which has more than 1000 subdirectories.	MediaFast: All
20596	[Outbound Policy] Fixed an issue which found in 8.0.0 RC3. HTTPS Traffic may fail after changing the WAN Connection Priority.	MAX: All MediaFast: HD2, HD4

7. Report an Issue

To report a bug, please open a support ticket at
<https://contact.peplink.com/secure/create-support-ticket.html>.

For the latest development news and known issues, take a look at our forums:
<https://forum.peplink.com/>