Firmware 8.2.0 Release Notes

Release Date: Feb 28, 2022

Devices Supported

This firmware release supports the following devices:

X Series	EPX / SDX Pro / SDX / PDX / MBX / MBX Mini / 580X / 380X / 310X / 20X
Balance	20X / 20 HW7-8 / 30 LTE / 30 Pro / One / Two / 210 / 310 / 310 Fiber 5G / 310 5G / 310X / 305 HW2 / 380 HW6 / 580 HW2-3 / 710 HW3 / 1350 HW2 / 2500
MAX	BR1 Pro 5G / BR1 MK2 / BR1 HW2-3 / BR1 Slim / BR1 Mini / BR1 Mini Core / BR1 M2M / BR1 ENT / BR1 ESN / BR1 PRO / BR1 IP67 / BR2 / BR1 IP55 HW2-4 / BR2 IP55 HW2-3 / HD2 / HD2 IP67 / HD2 Mini / HD1 Dome / HD2 Dome / HD4 / HD4 IP67 / Transit Pro E / Transit 5G / Transit / Transit Duo / Transit Mini / Transit Core / Hotspot / On-The-Go HW2 / 700
UBR	UBR LTE
Surf	SOHO HW2 / SOHO MK3
MediaFast	200 / 500 / 750 / HD2 / HD4
SpeedFusion Engine	SFE / SFE CAM
FusionHub	FusionHub

Important Notices

- **InControl** must be enabled on **PrimeCare** devices to update software features such as SpeedFusion (Bonding, WAN Smoothing, Hot Failover).
- **Balance 20 Hardware Revision 1-6 / 30 / 50** will **NOT** be supported by 8.2.0 or above firmware updates. They will receive Firmware 8.1.x maintenance releases as needed.
- The unit must be upgraded to [Firmware 7.1.2](#) first before upgrading to 8.0.0 or above for the following models.

Product	Hardware Revision
MAX BR1	HW2-3
MAX BR1 IP67	HW1
MAX BR1 Mini	HW1-2
MAX BR1 Pro	HW2,4-5
MAX BR1 Slim	HW1
MAX BR2	HW2
SOHO	HW2

- 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.

New Features

Reference	Description	Device Supported
26471	**[RC 1] [InTouch]** New: Web-based InTouch is supported through InControl. You can visit the web admin of client devices behind Peplink/Pepwave routers. Note: web-based InTouch traffic is counted as SpeedFusion Cloud traffic.	**All Models**
25882	**[Beta 1] [SpeedFusion Cloud]** New: SpeedFusion Cloud Home	**All Models** (Except **FusionHub**)
26022	**[Beta 1] [SpeedFusion]** New: Advanced settings for Dynamic Weighted Bonding	**Balance:** 210 or above **MAX:** 700, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** All **SFE** **X Series**: All (Except 20X) **FusionHub** Device with PrimeCare license
25993	**[Beta 1] [Route-Based IPsec]** New: Route-Based IPsec VPN support	**Balance:** 30 LTE/Pro, One/Two, 210/310 HW4 or above, 305/380 or above **MAX:** BR1 ENT, Transit, 700 HW3 or above, HD2 HW5 or above, HD4 **MediaFast:** All **X Series**: All **FusionHub**
26591	**[Beta 1] [System]** New: DNS over HTTPS (DoH)	**All Models**

Improvements

Reference	Description	Device Supported
27188	**[RC 3] [AP Controller]** Added: Preferred Frequency is 5GHz by default	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, 580X, 380X, PDX, MBX

27131	**[RC 3] [AP Controller]** Added: Security Policy - Enhanced Open (OWE)	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, 580X, 380X, PDX, MBX
27058	**[RC 2] [310X]** Added: AP Controller Pro	**X Series**: 310X
27080	**[RC 2] [Cellular]** Updated: Changed the APN of Singapore carrier Singtel from "Internet" to "e-ideas"	**Balance:** 30 LTE/Pro, 310 5G/Fiber 5G **MAX:** BR1/2, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** HD2/HD4 **X Series**: All
27037	**[RC 1] [Cellular]** Added: Device API /api/cmd.sms.get supported MTN, ICCID and IMSI	**Balance:** 30 LTE/Pro, 310 5G/Fiber 5G **MAX:** BR1/2, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** HD2/HD4 **X Series**: All
26724	**[Beta 1] [5G]** Added: Carrier selection	**Balance:** 310 5G/Fiber 5G **X Series**: EPX, MBX, SDX Pro, SDX, 310X
26723	**[Beta 1] [5G]** Added: Cellular Band selection	**Balance:** 310 5G/Fiber 5G **X Series**: EPX, MBX, SDX Pro, SDX, 310X
26629	**[Beta 1] [5G]** Added: Cellular supports Authentication Protocol PAP and CHAP	**Balance:** 310 5G/Fiber 5G **X Series**: EPX, MBX, SDX Pro, SDX, 310X
25851	**[Beta 1] [B20X]** Added: DPI Reporting on Balance 20X	**X Series**: 20X
26093	**[Beta 1] [B20X]** Added: IP Passthrough for Balance 20X	**X Series**: 20X
26653	**[Beta 1] [BR1 Pro 5G]** Added: AP Controller could manage up to 30x AP One devices	**MAX:** BR1 Pro 5G
26415	**[Beta 1] [Captive Portal]** Updated: Captive Portal SSL certificate (captive-portal.peplink.com) had been renewed	**All Models** (Except **FusionHub**)
26619	**[Beta 1] [Cellular Cat-20]** Added: Support Cat-20 Cellular module	Device with intergraded cellular and product code

		contains "GLTE-S"
26590	**[Beta 1] [DPI]** Added: Enhanced BitTorrent detection	**All Models**
26559	**[Beta 1] [InControl]** Added: Priority for multiple InControl Hosts	**All Models**
26554	**[Beta 1] [InControl]** Added: Priority settings for InControl Hosts	**All Models**
26373	**[Beta 1] [Jumbo Frame]** Added: Jumbo Frame MTU on Ethernet and SFP WAN Settings	**Balance:** 305, 380 or above **MediaFast:** 500, 750 **X Series**: EPX, SDX Pro, SDX, 580X, 380X
25995	**[Beta 1] [Route-Based IPsec]** Added: Outbound Policy supports Route-Based IPsec VPN	**Balance:** 30 LTE/Pro, One/Two, 210/310 HW4 or above, 305/380 or above **MAX:** BR1 ENT, Transit, 700 HW3 or above, HD2 HW5 or above, HD4 **MediaFast:** All **X Series**: All **FusionHub**
26341	**[Beta 1] [SNMP]** Added: Custom Port for SNMP Trap server	**All Models**
26342	**[Beta 1] [SNMP]** Added: SNMP Heartbeat Trap	**All Models**
25961	**[Beta 1] [SpeedFusion Cloud]** Added: Traffic Steering Priority. Select the priority of the "Connect Clients to Cloud", "Link Wi-Fi to Cloud" and "Optimize Cloud Application" traffic steering rules.	**All Models** (Except **FusionHub**)
26021	**[Beta 1] [SpeedFusion]** Added: Additional parameters for "Dynamic Weighted Bonding" - Congestion Latency Level - Ignore Packet Loss Event - Disable Bufferbloat Handling - Disable TCP ACK Optimization	**Balance:** 210 or above **MAX:** 700, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** All **SFE** **X Series**: All (Except 20X) **FusionHub** Device with PrimeCare license
26835	**[Beta 1] [System]** Added: "Download package updates" options under support.cgi	**All Models**
26730	**[Beta 1] [System]** Added: Client Type in Client List	**All Models**
26287	**[Beta 1] [System]** Added: Public-key authentication in making CLI SSH sessions	**All Models**
26703	**[Beta 1] [System]** Added: QoS > "User Groups" and "Group	**All Models**

	Bandwidth Reservation" are available to all models	
26481	**[Beta 1] [System]** Added: WAN Priority is included in WAN up/down event logs	**All Models**
26651	**[Beta 1] [VDSL]** Added: VDSL WAN status	**Balance:** 20X **X Series**: 580X, 380X
25673	**[Beta 1] [Wi-Fi AP]** Added: Web Admin will prompt the user to change the Wi-Fi password when the device started with the default configuration	**Balance:** 30 Pro, One **MAX:** All (Exclude: BR1 ENT, HD2 Mini, HD1/2 Dome) **MediaFast:** HD2/4 **X Series**: PDX, MBX, 20X **UBR:** UBR LTE **Surf SOHO**
26593	**[Beta 1] [Wi-Fi WAN & HD2/HD4]** Added: Simultaneous dual radio for Wi-Fi WAN	**MAX:** HD2/4 MBX: HD2/4
26289	**[Beta 1] [Wi-Fi]** Added: Operating country now supports Argentina	**Balance:** 30 Pro, One **MAX:** All (Exclude: BR1 ENT, HD2 Mini, HD1/2 Dome) **MediaFast:** HD2/4 **X Series**: PDX, MBX, 20X **UBR:** UBR LTE **Surf SOHO**

Resolved Issues

Reference	Description	Device Supported
27084	**[RC 2] [DDNS]** Fixed: DDNS client might not update IP address	**All Models**
27067	**[RC 2] [DPI]** Fixed: Twitter.com in exemption list did not work	**All Models**
26991	**[RC 1] [BR1 Pro 5G]** Fixed: Wi-Fi WAN might not connect to mobile hotspot	**MAX:** BR1 Pro 5G
27015	**[RC 1] [DPI]** Fixed: YouTube blocking did not work	**All Models**
26909	**[Beta 2] [AP Controller]** Fixed: AP Controller would keep pushing configuration to AP devices if the SSID or passphrase had "%" characters	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, 580X, 380X, PDX,

		MBX
26808	**[Beta 2] [PepVPN with selective models]** Fixed: Unencrypted PepVPN/SpeedFusion profiles would not be connected if the device uptime had more than 99 days	**Balance:** 20/30 **MAX:** BR1 **UBR:** UBR LTE **Surf SOHO**
26951	**[Beta 2] [PepVPN]** Fixed: Outbound Policy rules in Expert Mode might not route traffic to the expected sub-tunnel if remote peer was configured to route to another sub-tunnel	**All Models**
26918	**[Beta 2] [USB Cellular]** Fixed: USB Cellular did not work if the SIM card required username and password	**Balance:** All **MAX:** BR1 ENT, HD2/4 **MediaFast:** All **X Series**: All **Surf SOHO**
26668	**[Beta 1] [5G & -5GD]** Fixed: An incorrect IP address obtained when connecting to T-Mobile	**Balance:** 310 5G/Fiber 5G **X Series**: EPX, MBX, SDX Pro, SDX, 310X (Device with 5G Cellular and product code contains -5GD)
26624	**[Beta 1] [5G & -5GD]** Fixed: RSSI could not be shown when the cellular is connected to 3G	**Balance:** 310 5G/Fiber 5G **X Series**: EPX, MBX, SDX Pro, SDX, 310X (Device with 5G Cellular and product code contains -5GD)
26627	**[Beta 1] [5G & -5GD]** Fixed: Unable to connect to EE (UK carrier)	**Balance:** 310 5G/Fiber 5G **X Series**: EPX, MBX, SDX Pro, SDX, 310X (Device with 5G Cellular and product code contains -5GD)
26765	**[Beta 1] [B210 HW5]** Fixed: VLAN on LAN did not work if the device was applied for Additional WAN License	**Balance:** 210 HW5
26603	**[Beta 1] [Cellular & Transit/HD]** Fixed: Cellular could not reconnect after the device passed through the dead zone	**Balance:** 30 LTE/Pro **MAX:** HD2/4, Transit **MediaFast:** HD2/HD4
26617	**[Beta 1] [Cellular LTEA-W]** Fixed: Could not receive SMS	Device with intergraded cellular and product code

		contains "LTEA-W"
26009	[Beta 1] [Cellular] Fixed: Devices with standby cellular WANs might send incorrect disconnect event logs to InControl	**Balance:** 30 LTE/Pro, 310 5G/Fiber 5G **MAX:** BR1/2, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** HD2/HD4 **X Series**: All
26702	[Beta 1] [Cellular] Fixed: Unable to stop traffic when SIM pool quota exceeded	**Balance:** 30 LTE/Pro, 310 5G/Fiber 5G **MAX:** BR1/2, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** HD2/HD4 **X Series**: All
26581	[Beta 1] [Docker] Fixed: High memory usage of Docker container(s) might cause system instability	**MediaFast:** 500, 750
25983	[Beta 1] [InControl] Fixed: Some Event Logs could not be sent to InControl if Firewall Logging was enabled	**All Models**
26849	[Beta 1] [InControl] Fixed: Some of the DPI data might not be resent to InControl if the Internet connection was not stable	**All Models**
26070	[Beta 1] [IPsec] Fixed: After IPsec IKEv2 connection failed over to lower priority WAN, the IPsec status showed disconnected	**All Models**
26774	[Beta 1] [MBX] Fixed: One of devices' Wi-Fi interfaces did not work after booting up	**X Series**: MBX
26449	[Beta 1] [OpenVPN WAN] Fixed: Remote Port setting of OpenVPN WAN is not shown correctly	**All Models** (Except **FusionHub**)
26094	[Beta 1] [OpenVPN WAN] Fixed: Uploading an ovpn file for OpenVPN WAN may result in getting an "Internal Error" message	**All Models** (Except **FusionHub**)
26452	[Beta 1] [OpenVPN] Fixed: Used incorrect subnet mask on OpenVPN WAN	**All Models**
26127	[Beta 1] [Outbound Policy] Fixed: Outbound Policy by Domain Name did not work if the domain name contains an uppercase letter	**All Models** (Except **FusionHub**)
26886	[Beta 1] [PepVPN] Fixed: Layer 2 PepVPN/SpeedFusion profile might keep disconnecting	**All Models**
26400	[Beta 1] [PepVPN] Fixed: Multicast traffic might not be forwarded in Layer 2 PepVPN/SpeedFusion	**All Models**

26337	**[Beta 1] [PepVPN]** Fixed: PepVPN Test in UDP mode might show unexpected packet loss	**All Models**
25928	**[Beta 1] [Remote User Access]** Fixed: Logging in Remote User Access with Local User Accounts would fail if the password contained a space	**All Models**
25640	**[Beta 1] [SOHO MK3]** Fixed: LAN packet might be broadcasted to all LAN Ports	**Surf SOHO**: SOHO MK3
25973	**[Beta 1] [SpeedFusion Cloud]** Fixed: SpeedFusion Cloud custom data ports did not take effect	**All Models** (Except **FusionHub**)
26044	**[Beta 1] [SpeedFusion]** Fixed: FEC might not recover packets in rare situations	**Balance:** 210 or above **MAX:** 700, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** All **SFE** **X Series**: All (Except 20X) **FusionHub** Device with PrimeCare license
26056	**[Beta 1] [SpeedFusion]** Fixed: Updating Layer 2 SpeedFusion / PepVPN Whitelist might disconnect the tunnel	**Balance:** 210 or above **MAX:** 700, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** All **SFE** **X Series**: All (Except 20X) **FusionHub** Device with PrimeCare license
26414	**[Beta 1] [System]** Fixed: Bonjour Forwarding did not work on PepVPN/SpeedFusion	**All Models**
26108	**[Beta 1] [System]** Fixed: NAT Mapping or Inbound Port Forwarding did not work for the route for the target LAN host was learned from OSPF	**All Models**
26140	**[Beta 1] [System]** Fixed: RADIUS Authentication did not work with Cisco ACS	**All Models**
24786	**[Beta 1] [System]** Fixed: Service Passthrough had a higher priority than SpeedFusion Cloud rules	**All Models**
26706	**[Beta 1] [System]** Fixed: Service Passthrough traffic (SIP, FTP, TFTP) might not be routed in rare situations	**All Models**
26376	**[Beta 1] [System]** Fixed: When a WAN was down, existing IP	**All Models**

	sessions were kept routing to it	
25895	**[Beta 1] [Wi-Fi AP]** Fixed: AP > Event Log showed incorrect Channel Switch information when Wi-Fi WAN was connected	**Balance:** 30 Pro, One **MAX:** All (Exclude: BR1 ENT, HD2 Mini, HD1/2 Dome) **MediaFast:** HD2/4 **X Series**: PDX, MBX, 20X **UBR:** UBR LTE **Surf SOHO**
25979	**[Beta 1] [Wi-Fi AP]** Fixed: SSIDs were not broadcasted on channel 165 if 5 GHz Wi-Fi Mesh was enabled	**Balance:** 30 Pro, One **MAX:** All (Exclude: BR1 ENT, HD2 Mini, HD1/2 Dome) **MediaFast:** HD2/4 **X Series**: PDX, MBX, 20X **UBR:** UBR LTE **Surf SOHO**
25922	**[Beta 1] [Wi-Fi AP]** Fixed: Wi-Fi clients could not associate to 2.4 GHz Wi-Fi AP	**Balance:** 30 Pro, One **MAX:** All (Exclude: BR1 ENT, HD2 Mini, HD1/2 Dome) **MediaFast:** HD2/4 **X Series**: PDX, MBX, 20X **UBR:** UBR LTE **Surf SOHO**
26204	**[Beta 1] [Wi-Fi WAN & 11n]** Fixed: Wi-Fi WAN might not reconnect to a Wi-Fi network	**MAX:** BR1/2 (Indoor), 700 HW1-2, HD2 HW1-4 **UBR:** UBR LTE **Surf SOHO**

Report an Issue

To report an issue, please open a support ticket at:
https://ticket.peplink.com/

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