

Firmware 8.1.0 Beta 1 Release Notes

Release Date: May 8, 2020

Devices Supported

This firmware release supports the following devices:

X Series	EPX / SDX / MBX / 310X / 20X
Balance:	20X / 20 / 30 / 30 LTE / 30 Pro / 50 / One / 210 / 310 / 310X / 305 HW2 / 380 HW6 / 580 HW2-3 / 710 HW3 / 1350 HW2 / 2500 / SDX
MAX:	BR1 MK2 / BR1 HW2-3 / BR1 Slim / BR1 Mini / BR1 M2M / BR1 ENT / BR1 IP67 / BR2 / BR1 IP55 HW2-4 / BR2 IP55 HW2-3 / HD2 / HD2 IP67 / HD2 Mini / HD2 Dome / HD4 / HD4 IP67 / Transit / Transit Duo / Transit Mini / Hotspot / On-The-Go HW2 / 700
Surf:	SOHO HW2 / SOHO MK3
MediaFast:	200 / 500 / 750 / HD2 / HD4
SpeedFusion Engine	SFE / SFE CAM
FusionHub	FusionHub

Important Notices

- For the following models, the unit must be upgraded to [Firmware 7.1.2](#) first before upgrading to 8.0.0 or above.

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.
- Internet Explorer 11 is no longer supported by Web Admin.
- Updated minimum version of supported browser:
 - Mozilla Firefox 54
 - Google Chrome 51
 - Safari 10
 - Microsoft Edge 15

New Features

Reference	Description	Device Supported
20270	[MediaFast & KVM] Added KVM support	MediaFast: 500, 750
22279	[Wi-Fi WAN] Added support for WPA3 security policy.	MAX: 700, BR1/2, HD2/4, Transit (Exclude: BR1 ENT, HD2 Mini/Dome) MediaFast: HD2/4 X Series: MBX Surf SOHO
22577	[SpeedFusion Cloud] Added SpeedFusion Cloud supporting.	All Models (Except FusionHub)
21868	[Drop-in Mode] Added Drop-in mode support	Balance: All MAX: All MediaFast: All X Series: All

Feature Improvements

Reference	Description	Device Supported
14387	[GPS] Device will now use the GPS to sync time if the NTP server is unreachable	MAX: BR1/2, HD2/4, Transit MediaFast: HD2/4 X Series: EPX, SDX, MBX, 310X, 20X
15948	[SNMP] Added the ability to define the Allowed WAN Interface for SNMP under System > WAN Connection Access Settings	All Models
16794	[Drop-in Mode] SpeedFusion added compatibility for Drop-in Mode with Shared IP	Balance: All MAX: All MediaFast: All X Series: All
6181	[NTP Server] Added support for NTP Server	Balance: All MAX: HD2/4, Transit MediaFast: All X Series: All
18215	[EPX] Added support for MediaFast / ContentHub /	X Series: EPX

	Docker	
18932	[Captive Portal] Fixed an issue where "502 Bad gateway" may be shown on Wi-Fi clients when they are accessing the landing page.	All Models
22264	[API & Cellular] Added the ability to receive SMS messages through cellular connections.	Balance: 20X, 30 LTE/Pro, 310X MAX: BR1/2, HD2/4, Transit MediaFast: HD2/HD4 X Series: EPX, SDX, MBX
22263	[API] Added the ability to send USSD codes via cellular connections	All Models
21683	[OpenVPN] Custom DNS Servers in LAN DHCP Server can now be pushed to client	All Models
22145	[AP Controller] Added support for 802.11k neighbor report base on Wireless SSIDs	Balance: All MAX: 700, HD2/4, Transit MediaFast: All X Series: EPX, SDX, MBX
20763	[Outbound Policy] Added web filtering categories to Outbound Policy for SpeedFusion / PepVPN Sub-Tunnel	All Models (Except FusionHub)
20914	[EPX] Added support for jumbo frame on LAN	X Series: EPX
19916	[Web UI] Added the Ability to access Web Admin page from IP Forwarding WAN via LAN/VLAN IP	All Models
22005	[MediaFast] Updated the MediaFast Certificate to support macOS 10.15 and iOS 13 clients	MediaFast: All
21609	[AP Controller Wi-Fi AP] Added WPA3 Support	Balance: All MAX: All MediaFast: All X Series: EPX, SDX, MBX Surf SOHO
21301	[LAN / SDX] Enhanced the LAN Port Setting page	X Series: SDX
21610	[MediaFast 500/700] Added support for SpeedFusion Bonding by default	MediaFast: 500, 750
22364	[DNS Server] Added a maximum length restriction for some DNS settings in accordance to RFC	Balance: 210 or above MediaFast: 500/750
22444	[Wi-Fi WAN] Added support for 802.11w on the WWAN	MAX: 700, BR1/2, HD2/4, Transit (Exclude: BR1 ENT, HD2 Mini/Dome)

		MediaFast: HD2/4 X Series: MBX Surf SOHO
22300	[API] Added the ability to set a new Billing Cycle	All Models
21994	[DHCP] Fixed an issue where the DHCP server may not reply to DHCP discovery or requests in rare situations.	All Models
22039	[System] Added the ability to access CLI from the WAN via LAN/VLAN IP in IP Forwarding mode	All Models
22058	[Captive Portal & Enterprise models] Added Support for 16 Captive Portal Profiles in enterprise-grade models	Balance: 305/380 or above X Series: EPX, SDX
21969	[WAN] Added support for using the default LAN IP address as the outgoing IP for Local Services.	All Models
22584	[Web UI] Added a TB scale in addition to MB, GB in Usage Reports	All Models
21352	[Cellular] Added an indication on Dashboard when restricted management SIM is connected	Balance: 30 LTE/Pro MAX: BR1/2, HD2/4, Transit MediaFast: HD2/HD4 X Series: EPX, SDX, MBX, 310X, 20X
22285	[Web UI] Updated supported browsers: Mozilla Firefox 54 Google Chrome 51 Safari 10 Microsoft Edge 15	All Models
21888	[System] Updated Daylight Saving Time support for "Pacific/Fiji" and "Australia/Lord_Howe" regions	All Models
22222	[System] Added Support for Session Logging	All Models
22353	[DPI] Added the ability to detect P2P, Gaming categories, and IoT Protocols	All Models
22280	[DPI] Updated the protocols of DPI Report which will be consistent with Web UI	All Models
22320	[Web UI] After pressing Apply Changes, the WebUI will now stay on the same page and display a message instead of going to the Dashboard page.	All Models
21877	[DPI] Added recognition of new protocols	All Models
22113	[IP Passthrough] Added the ability to define custom DNS for IP Passthrough WAN	Balance: 30 Pro MAX: BR1, Transit Surf: SOHO HW2 / MK3

		X Series: 20X
22032	[NetFlow] Added NetFlow 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: EPX, SDX, MBX, 310X, 20X FusionHub
21866	[Cellular] Added custom hosts for ping target on SmartCheck	Balance: 30 LTE/Pro MAX: BR1/2, HD2/4, Transit MediaFast: HD2/HD4 X Series: EPX, SDX, MBX, 310X, 20X
21774	[URL Logging] URL Logging has been relocated from Content Blocking page to System > Event Log. If Server/Port information is not specified for URL or Session Logging, Remote Syslog server settings will be used.	All Models
21732	[Web UI] The Firewall Log will now put in its own page rather than in the Event Log	All Models
22522	[OpenVPN] Added the ability to define port number and to choose whether to use UDP or TCP mode	All Models
22430	[E-mail Notification] Added support of STARTTLS	All Models
22565	[WAN Analysis] Added support for UDP tests of up to 2 Gbps bandwidth.	All Models
21209	[SpeedFusion] Added the ability to use an external TCP Accelerator to support the WAN connections.	Balance: B210 or above MAX: 700, HD2/4, Transit MediaFast: All SFE X Series: EPX, SDX, MBX, 310X FusionHub
22024	[System] Added support for ECDSA certificates in the Certificate Manager	All Models
22185	[OpenVPN] Added the ability to push DHCP Option 15 to client	All Models
20308	[BGP] The Status display now shows exported routes	All Models
21947	[SpeedFusion] QoS Individual Bandwidth Limits can	Balance: B210 or above

	now be applied to SpeedFusion profiles	MAX: 700, HD2/4, Transit MediaFast: All SFE X Series: EPX, SDX, MBX, 310X FusionHub
18403	[Drop-in Mode] Added support for VLAN clients ability to route traffic over Drop-in WAN	Balance: All MAX: All MediaFast: All X Series: All
21720	[System] Support TACACS+ for web admin access authentication	All Models

Resolved Issues

Reference	Description	Device Supported
16723	[System] Fixed an issue where Local DNS records do not work with Firewall / Outbound Policy by Hostname	All Models
20208	[Cellular Redundant SIM Slots] Fixed an issue where the APN does not show in then WAN Interface on the unit when it does not have a Redundant SIM inserted.	Balance: 30 LTE/Pro MAX: BR1/2, HD2/4 (Except HD2), Transit MediaFast: HD2/HD4 X Series: EPX, SDX, MBX, 310X, 20X
21647	[Wi-Fi AP] Fixed an issue where the Client List may show 0.0.0.0 for Wi-Fi Client	Balance: 30 Pro, One MAX: 700, BR1/2, HD2/4, Transit (Exclude: BR1 ENT, HD2 Mini/Dome) MediaFast: HD2/4 X Series: MBX, 20X Surf SOHO
21723	[SpeedFusion] Fixed an issue where FEC is unable to reassemble packets properly	Balance: B210 or above MAX: 700, HD2/4, Transit MediaFast: All SFE X Series: EPX, SDX, MBX, 310X FusionHub

21614	[SpeedFusion] Fixed an issue where using SpeedFusion FEC causes system instability	Balance: B210 or above MAX: 700, HD2/4, Transit MediaFast: All SFE X Series: EPX, SDX, MBX, 310X FusionHub
21756	[SNMP] Fixed an issue where SNMP may consume large amount of CPU resources when Layer 2 SpeedFusion is established.	All Models
21954	[LAN / SOHO MK3] Fixed an issue where the LAN Access Port may not pass traffic on Surf SOHO MK3	Surf: SOHO MK3
21874	[PPPoE] Fixed an issue where the VLAN WAN which is using PPPoE provides an incorrect MTU value	All Models
22141	[AP Controller] Fixed an issue where the Client Connection History displays incorrect From / To columns	Balance: All MAX: 700, HD2/4, Transit MediaFast: All X Series: EPX, SDX, MBX
21840	[USB WAN] Fixed an issue where the WebUI is unable to display IMSI and ICCID	Balance: All MAX: BR1 ENT, HD2/4 Indoor Series MediaFast: All X Series: EPX, SDX, MBX, 310X Surf SOHO
21644	[WAN as LAN & HA & Modular] Fixed an issue where the WAN Port as LAN Port feature does not work after HA failover	X Series: EPX, SDX, 310X
22040	[HA] Fixed an issue where the Outbound Policy affects the local service of a Slave unit in an HA pair	Balance: 210 or above MAX: BR1/2, HD2/4, Transit MediaFast: All X Series: EPX, SDX, MBX, 310X
22561	[PoE & HD4 IP67] Fixed an issue where the PoE port does not work on the MAX HD4 IP67	MAX HD4 IP67
22244	[Outbound Policy] Fixed an issue where the Outbound Policy Expert Mode Rules cannot override OSPF/BGP Routes learned from the LAN	All Models (Except FusionHub)
22158	[DPI] Fixed issues causing system instability when using DPI	All Models
22293	[Captive Portal] Fixed an issue where throughput limits would not be released after E-mail address is verified using InControl 2 E-mail Authentication.	All Models

22324	[System] Fixed an issue of User Report is unable to show PepVPN usage per WAN	All Models
22276	[Web UI / BR1 IP55 HW4] Fixed an issue where the Web UI cannot save changes to cellular antenna selection on the BR1 IP55 HW4.	MAX: BR1 IP55 HW4
22037	[Outbound Policy] Fixed an issue where the Weighted Balance algorithm with Fall-through does not work on WANs that have failed their Health Check.	All Models (Except FusionHub)
22059	[Wi-Fi AP] Fixed an issue where using InControl 2 to manage the Wi-Fi AP would cause an unexpected 5GHz channel to be used if the Channel is set to "Auto"	Balance: 30 Pro, One MAX: 700, BR1/2, HD2/4, Transit (Exclude: BR1 ENT, HD2 Mini/Dome) MediaFast: HD2/4 X Series: MBX, 20X Surf SOHO
22148	[Drop-in Mode & HA] Fixed an issue where using Drop-in mode with HA will cause the WAN Interface of the Slave unit to reply to ARP requests incorrectly.	Balance: 210 or above
22049	[Wi-Fi WAN] Fixed an issue where the Wi-Fi WAN Channel Width will display "20 MHz" after being configured to "20/40/80 MHz"	MAX: 700, BR1/2, HD2/4, Transit (Exclude: BR1 ENT, HD2 Mini/Dome) MediaFast: HD2/4 X Series: MBX Surf SOHO
22022	[LAN PoE / IP55] Fixed an issue where PoE ports do not work on BR1/2 IP55	
22373	[B310X] Fixed an issue where the Ethernet Port status display showed incorrect information on Balance 310X	X Series: B310X
21353	[Cellular] Fixed an issue where another SIM will not be used when the current SIM reaches its bandwidth quota and becomes restricted to management traffic	Balance: 30 LTE/Pro MAX: BR1/2, HD2/4, Transit MediaFast: HD2/HD4 X Series: EPX, SDX, MBX, 310X, 20X
22242	[System] Fix for the CVE-2020-8597 vulnerability	All Models
22112	[PepVPN] Fixed an issue in Port Forwarding where PepVPN NAT Mode may not work after cold failover	All Models
21976	[LAN / SFE] Fixed an issues where the LAN packet may forward to the wrong interface	SFE: SFE, SFE CAM

Report an Issue

To report an issue, please open a support ticket at:

<https://ticket.peplink.com/ticket/new/public>

For the latest development news and known issues, take a look at our forums:

<https://forum.peplink.com/>