Firmware 8.1.1 Beta 2 Release Notes

Release Date: Nov 20, 2020

Devices Supported

This firmware release supports the following devices:

X Series	EPX / SDX Pro / SDX / PDX / MBX / 310X / 20X
Balance	20X / 20 / 30 / 30 LTE / 30 Pro / 50 / One / Two / 210 / 310 / 310X / 305 HW2 / 380 HW6 / 580 HW2-3 / 710 HW3 / 1350 HW2 / 2500
MAX	BR1 MK2 / BR1 HW2-3 / BR1 Slim / BR1 Mini / BR1 M2M / BR1 ENT / 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 / Transit Duo / Transit Mini / 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

- 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.
- Please note that the "High Application Compatibility" and "Normal Application Compatibility" settings in "Outbound Policy" have been deprecated. Both options still work, if you set up a Custom Outbound Policy, you cannot change them back.
- 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
23245	**[Firewall]** Added support for firewall filtering by DSCP	**All Models**
2861	**[Outbound Policy]** Added support for Outbound Policy by DSCP	**All Models** (Except **FusionHub**)

Improvements

Reference	Description	Device Supported
23227	**[Air Monitor]** Added support for Wi-Fi "Air Monitoring Mode". The report can be viewed under InControl 2 > Reports > AirProbe Reports.	**Balance:** 30 Pro, One **MAX:** BR1 MK2, Transit, 700 HW3 or above, HD2 HW5 or above, HD4 **MediaFast:** 200, HD2/4 **X Series**: PDX, MBX, 20X **Surf SOHO**: SOHO MK3
22229	**[AP Controller]** Added ability to "Set Firmware" directly in "AP > Controller Status > Access Point"	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, PDX, MBX
23364	**[AP Controller]** Added Support for AP Mesh Configuration and Status reporting Mesh combination: - Balance/MAX (Build-in Wi-Fi) to AP One (Bridge Mode) - AP One (Bridge Mode) to AP One (Bridge Mode)	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, PDX, MBX
18450	**[API]** Added new API to configure WAN Settings	**All Models**
23362	**[API]** Added support for get and update the GPIO	**All Models**
23096	**[Captive Portal]** Allowed Client supports Hostname	**All Models** (Except **FusionHub**)
18749	**[Cellular]** Added the ability to define Upload & Download Bandwidth values on Cellular WAN.	**Balance:** 30 LTE/Pro **MAX:** BR1/2, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** HD2/HD4 **X Series**: All

23422	**[Cellular]** SIM Toolkit page now shows the SMS Storage capacity	**Balance:** 30 LTE/Pro **MAX:** BR1/2, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** HD2/HD4 **X Series**: All
23004	**[CLI]** Added RADIUS status supporting	**All Models**
23684	**[Firewall]** Added "KVM Management Port" and "KVM VNC Port" under Local Service Firewall Rules	**All Models**
15769	**[HA]** The Web UI now shows the WAN connection & PepVPN status when the option "Establish Connections in Slave Role" is enabled	**Balance:** 210 or above **MAX:** BR1/2, HD2/4, Transit **UBR:** UBR LTE **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, PDX, MBX, 310X
23309	**[HD1 Dome]** Added support for IP Passthrough	**MAX:** HD1 Dome
23316	**[IPsec]** The IPsec SA Lifetime is now supporting 31536000 seconds (365 days)	**All Models**
23307	**[LAN Port]** Added the ability to enable PoE on FlexModule Ethernet ports when they are configured as WAN	X-Series: EPX, SDX Pro, SDX
22481	**[LAN]** Added LACP Support for the SDX	**X Series**: All
23654	**[NetFlow]** Added options for additional NetFlow server, and Active/Inactive Flow Timeout values.	**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**
22814	**[NetFlow]** Added support for NetFlow information retrieval via SNMP	**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**
18223	**[OpenVPN WAN]** Added support for OpenVPN as WAN. (license activated)	**All Models**

23554	**[OpenVPN WAN]** Added the option to define a preferred DNS resolver.	**All Models**
23415	**[OpenVPN]** Added the "Connection Security Refresh" option	**All Models**
23414	**[OpenVPN]** Added the "Connection Security Refresh" option.	**All Models**
23839	**[PDX, MBX, 310X]** Added jumbo frame supporting. (PDX supporting will be included in beta 2)	**X Series**: PDX, MBX, 310X
23441	**[PepVPN]** For PepVPN/SpeedFusion traffic, remote Serial Number is now included in the Session Logging.	**All Models**
18550	**[PepVPN]** The PepVPN Log is now located in an individual tab under Event Log	**All Models**
23562	**[PepVPN]** The PepVPN Status and Dashboard now show the "OSPF Area mismatch" message if needed.	**All Models**
4828	**[QoS]** Added the ability to rename QoS User Groups	**All Models**
23513	**[SpeedFusion Cloud]** Added FEC support	**All Models** (Except **FusionHub**)
16476	**[System]** Added PCI Compliance Mode: disable TCP and ICMP timestamp responses for PCI Compliance tests.	**All Models**
23500	**[System]** Added RADIUS / TACACS+ authentication log	**All Models**
19180	**[System]** Added the ability to configure the session timeout value under support.cgi	**All Models**
23082	**[System]** Remote Syslog server address is now supporting broadcast address	**All Models**
23675	**[System]** The LAN's port name is now included in LAN Port Event Log	**All Models**
23628	**[UART]** Renamed "UART" to "Serial" in the Web Admin / CLI / Event Logs	**MAX:** BR1 Slim/Mini/M2M/ENT, Transit, HD2 Mini

Resolved Issues

Reference	Description	Device Supported
23602	**[AP Controller]** Fixed an issue of HTTP to HTTPS Redirection does not work if the HTTPS port is not 443	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, PDX, MBX
23190	**[AP Controller]** Fixed an issue where the AP One 300M 5GHz does not work when both the 2.4GHz and 5GHz SSIDs are configured with same name	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, PDX, MBX
23373	**[AP Controller]** Fixed an issue where the Firmware Pack cannot be stored.	**Balance:** All **MAX:** 700, HD2/4, Transit **MediaFast:** All **X Series**: EPX, SDX Pro, SDX, PDX, MBX
23771	**[API / Cellular Cat-18]** Fixed the issue where the device was unable to send SMS via API.	Integrated Cat-18 cellular models
23906	**[B20X / BR1 IP55 HW4]** Fixed an issue where the throughput is limited by the lowest speed port	**MAX:** BR1 IP55 HW4 **X Series**: 20X
23315	**[Balance Two]** Fixed an issue where VLAN Tagging does not work.	**Balance:** Two
22833	**[Captive Portal]** Fixed an issue where a blank page will be shown after logging into the Captive Portal via a second RADIUS server	**All Models** (Except **FusionHub**)
23638	**[Captive Portal]** Fixed an issue where Client Bandwidth Settings from RADIUS does not work when the Captive Portal is configured on VLAN	**All Models** (Except **FusionHub**)
23674	**[Captive Portal]** Fixed an issue where the Captive Portal is unstable when running for a long period of time	**All Models** (Except **FusionHub**)
23428	**[Captive Portal]** Fixed an vulnerability where a binary file will be returned on HTTP Port 80	**All Models** (Except **FusionHub**)
23620	**[Drop-in Mode]** Fixed an issue where the Static Route does not work if the Gateway is on the WAN side.	**Balance:** All **MAX:** All **UBR:** UBR LTE **MediaFast:** All **X Series**: All
21263	**[Firewall]** Fixed an issue where "Local Service" under	**All Models**

	"Firewall Rule > Event Logging" malfunctions.	
23369	**[Firmware Upgrade]** Fixed an issue causing Firmware upgrades to not work	**MAX:** BR1/2 Series (Except ENT), 700 HW1-2, HD2 HW1-4 **UBR:** UBR LTE **Surf SOHO**: SOHO HW2 / MK3
23314	**[FusionHub]** Fixed an issue where URL Logging & Session Logging are missing in the Event Logs	**FusionHub**
22581	**[HA]** Fixed an issue where the Master device will keep its Master status even if the LAN ports are disconnected.	**X Series**: SDX, PDX, MBX, 310X
20874	**[InControl 2]** Fixed an issue where IC2 shows the incorrect APN if using Remote SIM	Integrated cellular models with Remote SIM supported
23749	**[IP Passthrough]** Fixed an issue where the client is unable to obtain a correct IP address after failover between IP Passthrough mode WANs	**Balance:** 30 Pro **MAX:** BR1, Transit **UBR:** UBR LTE **Surf SOHO**: SOHO HW2 / MK3 **X Series**: 20X
23804	**[LAN]** Fixed an issue where LAN broadcast packets are forwarded to the WAN	**Balance:** 20X **MAX:** BR1 IP55 HW4
22988	**[LAN]** Fixed the issue where LAN broadcast packets forwarded to the WAN	**MAX:** BR1 Classic, Mini, Pro, BR2 **UBR:** UBR LTE **Surf SOHO**: SOHO HW2
23243	**[Management Port]** Fixed an issue where the Management Port is considered as a LAN port during HA mode.	**Balance:** 305/380 or above **MediaFast:** 500, 750 **X Series**: SDX Pro, SDX, EPX
23732	**[MediaFast & KVM]** Fixed an issue where the Virtual Machine Autostart does not work	**MediaFast:** 500, 750
23144	**[MediaFast]** Fixed an issue where the Root CA certificate and key for ContentHub & MediaFast are stored on an unencrypted area of the firmware	**MediaFast:** All
23867	**[OpenVPN WAN]** Fixed an issue where the OpenVPN WAN accepted routes from the server	**All Models**
23332	**[Outbound Policy]** "Normal and High Application Compatibility" have been deprecated	**All Models** (Except **FusionHub**)
23234	**[Outbound Policy]** Fixed an issue where the throughput performance will be degraded when an Outbound Policy by Domain Name has been applied.	**All Models** (Except **FusionHub**)

23676	**[PepVPN]** Fixed an issue where PepVPN does not work under Drop-in with a Shared IP	**All Models**
23733	**[PepVPN]** Fixed an issue where PepVPN may become stuck on the "Updating Routes" status.	**All Models**
23377	**[PepVPN]** Fixed an issue where PepVPN may cause system instability	**All Models**
22115	**[PepVPN]** Fixed an issue where PepVPN tunnels establish only one WAN when all WAN interfaces are using the same IP address.	**All Models**
23203	**[PepVPN]** Fixed an issue where the PepVPN Test shows empty Device Names	**All Models**
23792	**[Remote SIM]** Fixed an issue where the Remote SIM does not work after the WAN IP has been changed	**MAX:** HD2 Mini, HD1/2 Dome **SFE**: SFE **UBR:** UBR LTE **X Series**: PDX, MBX
23807	**[Remote User Access]** Fixed an issue where OpenVPN clients cannot route traffic to different a VLAN behind a Balance/MAX device.	**All Models**
23081	**[Remote User Access]** Fixed an issue where Remote Users may be disconnected after applying device configurations.	**All Models**
22952	**[Security]** Fixed the potential vulnerability of CSRF Protection	**All Models**
23723	**[SpeedFusion Cloud]** Fixed an issue where Dynamic Weighted Bonding does not work on the SpeedFusion Cloud.	**All Models** (Except **FusionHub**)
23825	**[System]** Fixed an issue of TCP SYN that causes RST packets to be forwarded to WAN without NAT.	**All Models**
21966	**[System]** Fixed an issue where UPnP / NAT-PMP does not work if OpenVPN is enabled.	**All Models**
23000	**[System]** Fixed CVE-2020-11022 & CVE-2020-11023	**All Models**
23898	**[uPnP]** Fixed the potential vulnerability	**All Models** (Except **FusionHub**)
23335	**[WAN]** Fixed an issue where the DNS-O-Matic service cannot be updated	**All Models**
23409	**[Wi-Fi AP & BR1 MK2 / SOHO MK3]** Fixed an issue that causes system instability when using the Wi-Fi AP	**MAX:** BR1 MK2, Hotspot, IP55 HW2-3 **Surf SOHO**: SOHO MK3
23095	**[Wi-Fi AP]** Fixed an issue that causes the secondary	**Balance:** 30 Pro, One

	RADIUS server to not work.	**MAX:** 700, BR1/2, HD2/4, Transit (Exclude: BR1 ENT, HD2 Mini, HD1/2 Dome) **MediaFast:** HD2/4 **X Series**: PDX, MBX, 20X **Surf SOHO**
23612	**[Wi-Fi AP]** Fixed an issue where the SSID does not broadcast	**Balance:** 20X **MAX:** BR1 IP55 HW4

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/