

# Firmware 7.1.1 Release Notes

Release Date: Aug 14th, 2018

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## 1. Devices Supported

This firmware release supports the following devices:

<b>Peplink Balance:</b>	20 / 30 / 30 LTE / 50 / One / 210 / 310 / 305 HW2 / 380 HW6 / 580 HW2-3 / 710 HW3 / 1350 HW2 / 2500
<b>Pepwave MAX:</b>	On-The-Go HW2 / BR1 HW2 / BR1 Slim / BR1 Mini / BR1 ENT / BR1 IP67 / BR2 / 700 / HD2 / HD2 IP67 / HD2 Mini / HD4 / Transit / Hotspot
<b>Pepwave Surf:</b>	SOHO HW2 / SOHO MK3
<b>MediaFast:</b>	200 / 500 / 750 / HD2^ / HD4^

^ Full names = HD2 with MediaFast, HD4 with MediaFast.

## 2. Firmware 7 Compatibility - Unsupported Models

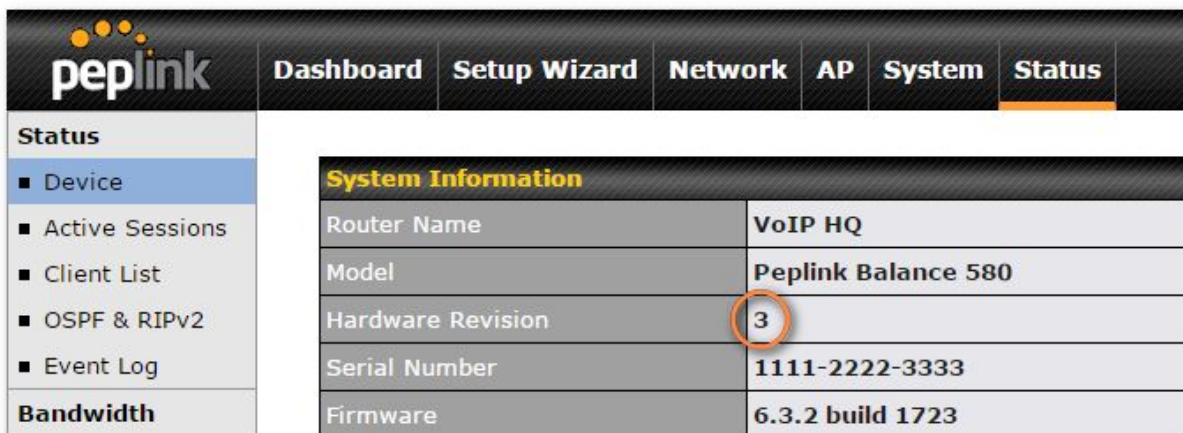
Please note that the following models will **NOT** be supported by Firmware 7 onwards. Rather, they will receive Firmware 6.x maintenance releases as needed:

- MAX BR1 HW1
- MAX BR1 Pro HW1
- MAX On-The-Go HW 1
- Surf SOHO HW1
- BR1 and BR2 IP55 HW 1
- Balance 305 HW1
- Balance 380 HW3-5
- Balance 580 HW1
- Balance 710 HW 1-2
- Balance 1350 HW1

Please note that the following models are not compatible with Firmware 6.3.0 onwards:

- Balance 380 HW1-2

To find the hardware revision of your Device, please navigate to **Status > Device** of your Web UI.



System Information	
Router Name	VoIP HQ
Model	Peplink Balance 580
Hardware Revision	3
Serial Number	1111-2222-3333
Firmware	6.3.2 build 1723

## 3. Important Notices

### For Firmware 7.0.1 Onwards

**PepVPN Route Isolation is Not Backwards Compatible:** If users are using PepVPN Route Isolation, they should upgrade all the devices in the network to 7.0.1 or 6.3.4.

### For Firmware 7

**PepVPN Firmware Compatibility Change:** Devices running Firmware 7 will only form PepVPN connections with devices running Firmware 6.1 or later. Firmware 6.0 or earlier is deprecated.

**Firmware Downgrade is Unavailable for the BR1, BR1 ENT, BR1 Slim, and Transit:** Please note that once Firmware 7 is installed on those, it will not be possible to downgrade to Firmware 6 or below. Dual-boot with older Firmware is still supported, but each Firmware slot will not accept earlier Firmware once it contains Firmware 7.

**After Partitioning a MediaFast Router, Running Previous Firmware will Completely Clear the Cache:** Please note that once you create partitions on any MFA router, running 6.3.3 or below will cause the router to clear the entire cache.

## 4. Obtaining the Firmware

Firmware 7.1.1 RC can be obtained here: <https://www.peplink.com/open-beta-program/>

## 5. New Features

Reference	Feature	Devices Supported
18408	<b>[Drop-In Mode]</b> Drop-In Mode added to BR1 Series as an optional feature.	<b>MAX:</b> BR1, BR1 MK2, BR1 Slim, BR1 Mini, BR1 M2M, BR1 ENT, BR1 Pro.
4529	<b>[BGP Support]</b> Added BGP support.	<b>Balance: ALL</b> <b>MAX: ALL</b> <b>MediaFast: ALL</b>

## 6. Feature Improvements

Reference	Feature	Devices Supported
18335	<b>[API]</b> Added the ability for API to access device information using an authentication token.	<b>All Balance / MediaFast / MAX models</b> <b>Surf: SOHO</b>
18621	<b>[LAN Ports]</b> The LAN can now support multiple subnets.	
13136	<b>[PepVPN]</b> PepVPN Test and Analyzer tool support in Layer 2 mode.	
17893	<b>[PepVPN]</b> The number of data streams used in PepVPN Test tool is now a configurable option.	
18628	<b>[PepVPN]</b> The WAN Statistics in the PepVPN Test panel is now able to display the IP Address and Port that being used for each WAN-to-WAN links.	
17762	<b>[QoS]</b> For QoS settings, SpeedFusion traffic can now be set to the highest priority	
18301	<b>[SNMP]</b> Added Support for OID "sysLocation"	
18155	<b>[Web UI]</b> The status page displays the InControl management status of various functions.	
18347	<b>[Web UI]</b> Added option to redirect HTTP Web Admin UI access to HTTPS.	

<b>18507</b>	<b>[Cellular]</b> Cellular modems can be configured to only accept certain IMSI. This feature can be used via InControl.	<b>Balance:</b> 30 LTE
<b>18181</b>	<b>[Cellular]</b> The Cellular WAN option - Subnet Selection - is removed and now all Cellular connection will use /31 prefix length for better compatibility.	<b>MAX:</b> All models except the 700 and OTG <b>MediaFast:</b> HD2, HD4
<b>18317</b>	<b>[Web UI]</b> Updated the roaming icon for Cellular WAN to "R▲".	
<b>18845</b>	<b>[GPS]</b> If the map info from Google is unavailable, the Google Map element will be hidden from the dashboard.	<b>MAX:</b> BR1, BR1 Slim, BR1 Mini, BR1 ENT, 700, Transit, HD2, HD2 Mini, HD4 <b>MediaFast:</b> HD2, HD4
<b>18051</b>	<b>[SFP LAN]</b> Added IEEE 802.3ad Link Aggregation support for SFP Fiber LAN.	<b>Balance:</b> 2500
<b>17857</b>	<b>[WAN Smoothing]</b> PepVPN WAN Smoothing gives more flexibility to send redundant packets to the same WAN-to-WAN link. <i>Navigation: Enable this advanced settings in the WAN Smoothing help text area.</i>	<b>Balance:</b> One*, 305*, 210, 310, 380, 580, 710, 1350, 2500 <b>MAX:</b> On-The-Go*, Transit, BR1, BR1 MK2, BR1 IP67, BR1 Slim, BR1 ENT, BR1 IP55, BR1 Pro, 700, HD2, HD2 Mini, HD2 IP67, HD4 <b>MediaFast:</b> HD2*, HD4*, 200*, 500*, 750* *Software license required to activate
<b>18603</b>	<b>[Web UI]</b> Power consumption information includes Voltage and Amp	<b>MAX:</b> HD4 HW4 or above

## 7. Resolved Issues

Reference	Issue	Devices Affected
18287	<b>[Client List]</b> Sorting the client list according to upload/download does not function.	
18523	<b>[DNS Proxy]</b> The LAN DNS Proxy is unable to resolve the hostname as specified in the SpeedFusion Remote Address	
18325	<b>[Firewall]</b> Unable to change the order of firewall rules.	
18935	<b>[InControl]</b> Devices will not report more than 1000 clients in the client list to InControl 2.	
18915	<b>[Inbound Services]</b> The "Protocol" field for Network > Services > Inbound Service cannot show the value of zero. Known issue for beta only.	
18637	<b>[IPsec]</b> IPsec IKEv2 may stop connecting in rare conditions and cause high CPU load.	
18938	<b>[IPsec]</b> IPsec stops connecting after receiving "authentication failed" signal from remote peer.	
18660	<b>[IPsec]</b> The IPsec VPN Pre-Shared Key is displayed incorrectly if underscore '_' is used as part of the key. This is not affecting configuration file and just a display issue..	All Balance / MediaFast / MAX models Surf: SOHO
18585	<b>[NAT Mapping]</b> NAT Mapping doesn't work properly after reboot or WAN up/down	
19078	<b>[NAT Mapping]</b> NAT Mapping may not work after HA failover	
18379	<b>[NAT Mapping]</b> The incorrect source IP was used for traffic from other VLAN to the host of the NAT Mappings	
18851	<b>[Outbound Policy]</b> "Terminate Sessions on Link Recovery" does not work if "Single Port" is defined	
19071	<b>[PepVPN]</b> PepVPN unresponsive to new connections due to stability problem	
18699	<b>[PepVPN]</b> High CPU loading when using PepVPN with Individual Bandwidth Limit	

<b>18217</b>	<b>[PepVPN]</b> PepVPN incorrectly read the WAN's priority if the WAN option "Independent from Backup WANs" is enabled.	
<b>18286</b>	<b>[PepVPN]</b> Resolved PepVPN Layer 2 Mode compatibility issue with Jumbo frames.	
<b>18227</b>	<b>[QoS]</b> Individual Bandwidth Limit does not work on VLAN downlink traffic	
<b>18496</b>	<b>[SNMP]</b> Unable to retrieve Wi-Fi WAN Signal Strength via OID "wansignal"	<b>All Balance / MediaFast / MAX models</b> <b>Surf:</b> SOHO
<b>18604</b>	<b>[Outbound Policy]</b> In rare conditions, sessions cannot be handled properly causing system instability	
<b>10546</b>	<b>[Web UI]</b> Changes to Admin User and Read-only User configuration are not implemented on SSH access	
<b>19035</b>	<b>[Web UI]</b> The client list that may not always be sorted properly	
<b>18960</b>	<b>[AP Controller]</b> The "check for updates" feature does not function.	<b>Balance:</b> ALL <b>MAX:</b> 700, HD2, HD2 Mini, HD2 IP67, Transit, HD4 <b>MediaFast:</b> All
<b>19010</b>	<b>[Captive Portal]</b> Clicking "Continue Browsing" on a successful page might load the splash page instead of the original URL.	<b>All Balance / MediaFast models</b> <b>MAX:</b> BR1, BR1 Slim, BR1 Mini, BR1 Ent, BR1 IP67, BR2, 700, HD2, HD2 Mini, HD4, Hotspot, Transit
<b>19039</b>	<b>[Captive Portal]</b> The '?' character on the splash URL will cause an Invalid redirect.	
<b>19044</b>	<b>[Cellular]</b> Cellular stability improvement after frequency change	<b>Balance:</b> 30 LTE <b>MAX:</b> All models except the 700 and OTG <b>MediaFast:</b> HD2, HD4
<b>16357</b>	<b>[High Availability]</b> In deployments where <ul style="list-style-type: none"> <li>- the HA pair devices are connected via a switch with STP enabled.</li> <li>- The option "Resume Master Role Upon Recovery" is unchecked.</li> </ul> the HA master device resumes master role after reboot.	<b>Balance:</b> 210 or above <b>MAX:</b> 700, All BR1 except M2M and Slim, HD2, HD4, Hotspot, Transit <b>All MediaFast Models</b>
<b>18981</b>	<b>[IP Passthrough]</b> IP Passthrough does not work on cellular WAN.	<b>MAX:</b> BR1, BR1 Mini, BR1 M2M, BR1 Slim, BR1 ENT, BR1 Pro, BR1 IP67, Transit, Hotspot, <b>MediaFast:</b> HD2, HD4, <b>Surf:</b> SOHO MK3

<b>18759</b>	<b>[LAN PoE]</b> PoE cannot be enabled on LAN ports after they have changed to WAN ports on the HD4	<b>MAX:</b> HD4
<b>16565</b>	<b>[WAN as LAN]</b> When configuring WAN ports as LAN ports, various functionality (POE, Port Type, Advertise Speed, and VLAN functionality) has been disabled.	<b>MAX:</b> BR1, BR1 Slim, BR1 Mini, BR1 ENT, 700, Transit, HD2, HD2 Mini, HD4 <b>MediaFast:</b> HD2, HD4
<b>18755</b>	<b>[Wi-Fi AP]</b> The Wi-Fi AP may go down when both InControl 2 Captive Portal and Wi-Fi WAN are in use, and Wi-Fi WAN is unable to connect	<b>Balance:</b> One <b>MAX:</b> 700, OTG, BR1, BR1 Mini, BR1 IP67, BR2, HD2, HD4, Hotspot, Transit <b>MediaFast:</b> HD2, HD4 <b>Surf: Soho</b> *Wi-Fi WAN not supported on the Balance One and BR1 Slim, ^Feature is optional on the BR1 Mini.

## 8. Report a Bug

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/>