Firmware 6.3 Release Notes

Release Date: 12/21/2015

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1. Devices Supported

This firmware release supports the following devices:

Peplink Balance	MediaFast	Pepwave MAX	Pepwave Surf
20 / 30 / 30 LTE / 50	200	On-The-Go	SOHO
One	500	BR1* / BR1 ENT / BR2*	
210 / 310	750	700	
305 / 380# / 580 / 710 / 1350 / 2500	HD2^ / HD4^	HD2 / HD2 IP67 / HD2 mini	
		HD4	
		Transit	

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

*BR1 IP55, BR1 Slim, BR1 M2M, BR1 Pro, and BR2 IP55 are also included in this designation

#Supports hardware revisions 3-6 only.

2. Important Notices

Firmware Temporarily Unavailable for Previous Balance Hardware Revisions: After additional testing, we have found an important issue for Firmware 6.3 that affects the following Balance devices:

305 HW1/380 HW1-5/580 HW1/710 HW1-2/1350 HW1.

For those devices, Firmware 6.3 will be unavailable at the moment. Our team is working on a fix, and new Firmware for these devices will be available in Q2 2016.

For full details, and Firmware 6.3 RC2, please refer to the beta forum: https://forum.peplink.com/threads/5843-Known-Issue-SpeedFusion-Performance-Reduced-in-Older-Generation-Balance-Models

To determine the hardware revision of your device, navigate to **Status > Device**. For full details, please visit: http://www.peplink.com/knowledgebase/determine-serial-number-firmware-version-and-modem-support-version-of-peplink-balance-device/

For Upgrades From Firmware 6.2.0 or Below.

Internal Network* Firewall Rules Will Need to Be Reconfigured: To increase protection for traffic running between internal networks, Firmware 6.2.2 introduces the new “Internal Network Firewall Rules” table. If you have previously added firewall rules with both the source and destination pointing to internal networks, please re-enter the rules under the new “Internal Network Firewall Rules” table.

*Internal Network includes LAN / VLAN / Static Route networks / PepVPN or SpeedFusion networks / L2TP with IPsec clients / PPTP clients. Please Refer to the inline help text on Web Admin for more details.

AP Controller: If you are using the Balance / MAX integrated AP Controller to manage your APs, please upgrade your APs to the latest Firmware before upgrading your Balance / MAX to Firmware 6.3.0

Model Retirement: Please note that the following models will be retired and will not be supported by Firmware 6.3 onwards:

- Balance 380 Hardware Revision 1
- Balance 380 Hardware Revision 2
- Balance 700

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

3. New Features

Reference	Description	Devices Supported
9641	**Port-Based VLAN:** Designate a LAN port to a specific VLAN.	**Balance**: 20, 30, 30 LTE, 50, 210, 310, One

	Navigation: Network > LAN > Port Settings	**MAX**: BR1, BR2, 700, Transit, HD2, HD4 **MediaFast**: 200, HD2, HD4 **Surf: SOHO**
9750	**DR Site Support for PepVPN and SpeedFusion:** When devices are connected to multiple SpeedFusion profiles, users can configure the OSPF cost of each SpeedFusion Connection.	**Balance**: One^, 210, 310, 305^, 380, 580, 710, 1350, 2500 **MAX**: Transit^, HD2, HD2 Mini, HD4, OTG^, 700 **MediaFast**: HD2^, HD4^, 200^, 500^ ^ Feature Activated
13030	**URL Logging:** Track all the URLs visited by each user. **Navigation:** Network > Firewall > Content Blocking	**All Balance / MediaFast / MAX models** **Surf:** SOHO
13143	**Time-Based Configuration:** Enable and disable different functions (such as WAN connections, outbound policy, firewall, and PoE) at different times, based on a user-scheduled configuration profile. **Setting a Schedule:** System > Schedule **Activating on Interface:** Network > WAN > *Connection name* > Enable.	**All Balance / MediaFast / MAX models** **Surf:** SOHO
13338	**Web Filtering Blacklists:** Block domains from predefined web categories (e.g. adverts, file sharing). 2 levels of blacklists are available: light and full. The full version supports a larger blacklist with more specific categories. **Navigation:** Advanced > Firewall > Content Blocking	**Light** **Balance:** One, 210, 310 **MAX:** BR1^, BR1 ENT, BR2, Transit, OTG^, 700 HD2, HD2 Mini, HD4, **MediaFast:** 200, HD2, HD4 **Surf**: SOHO^ **Full** **Balance:** 305, 380, 580, 710, 1350, 2500 **MediaFast:** 500, 750 ^ Latest Hardware Revision Only

4. Feature Improvements

Reference	Details	Devices Supported
7882 / 13272	**OSPF:** Users can configure the OSPF cost of each interface and PepVPN Connection. Select which networks and static routes to advertise. **Navigation:** Network > OSPF & RIPv2 > *area* > Interfaces > (?)	**All Balance / MediaFast / MAX models** **Surf:** SOHO
11461	**Network Scanning:** MAX routers will scan for available cellular networks and provide users with the ability to choose which network to connect to.	**All MAX models** **Balance**: 30 LTE **MediaFast**: HD2, HD4
12680	**Cellular WAN:** The Web UI now displays the ICCID of the Sim Card	**All MAX models** **MediaFast**: HD2, HD4
13145	**DHCP Logging:** DHCP server activity (such as which clients receive which IP addresses) and events (such as IP address conflicts) are now recorded onto the event log. **Navigation:** Network > Network settings > *LAN connection* > DHCP Server	**All Balance / MediaFast / MAX models** **Surf:** SOHO
13271	**CPU Usage Monitor:** Peplink Routers can now send CPU usage information as support standard SNMP MIB.	**All Balance / MediaFast / MAX models** **Surf:** SOHO
13302	**Remote Syslog Server:** Peplink routers can now send syslog information to a port of your choice. **Navigation: System > Event Log**	**All Balance / MediaFast / MAX models** **Surf:** SOHO
13385	**Application-Based Internet Traffic Blocking:** Users can now block Internet traffic based on application. **Navigation:** Network>Firewall> Content Blocking	**All Balance / MediaFast / MAX models** **Surf:** SOHO
13584	**IP Passthrough:** IP Passthrough can now support Ethernet WAN with failover to Cellular WAN.	**MAX: Transit, BR1, BR1 ENT**
13605	**IPsec with NAT Support:** Using NAT, you can map a specific local network / IP address to another, and the packets received by remote gateway will appear to be coming from the mapped network / IP address.	**All Balance / MediaFast / MAX models** **Surf:** SOHO

	Navigation: Network > IPsec VPN > *Your IPsec profile* > Local Networks < (?)	
13760	**Dynamic DNS:** Dynamic DNS can now support custom Dynamic DNS servers by entering its URL. Works with any service compatible with DynDNS API. **Navigation:** Network > WAN > *WAN Connection* > Dynamic DNS Settings	**All Balance / MediaFast / MAX models** **Surf:** SOHO

5. Resolved Issues

Reference	Details	Devices Affected
11935	**Routing**: For Cellular WAN connections, the MTU setting affects received packets, as well as sent packets.	**All Balance / MediaFast / MAX models** **Surf: SOHO**
12170	**WAN as LAN**: The Balance 2500 is missing the WAN as LAN function.	**Balance: 2500**
13112	**Captive Portal Quota Reset**: Captive portal clients are unable to reset their usage quotas after using it up.	**All Balance / MediaFast / MAX models**
13212	**Captive Portal Bandwidth Quota**: Clients are able to continue using Internet access up to 90 seconds after reaching their bandwidth quotas.	**All Balance / MediaFast / MAX models**
13405	**SpeedFusion**: In a SpeedFusion Tunnel, when one device only supports Cold Failover, Cold Failover Links are inaccurately reported as "Not available - link failure detected".	**Balance**: One^, 210, 310, 305^, 380, 580, 710, 1350, 2500 **MAX**: Transit^, HD2, HD2 Mini, HD4, OTG^, 700 **MediaFast**: HD2^, HD4^, 200^, 500^ ^ Feature Activated
13583	**PepVPN**: Changing a device name will trigger a PepVPN Profile reconnect.	**All Balance / MediaFast / MAX models** **Surf: SOHO**
13599	**MediaFast**: MediaFast may reach 100% CPU load when caching is enabled.	**MediaFast**: 200, 500, 750, HD2, HD4

13613	**SpeedFusion:** If the WAN is Cellular or connected as PPPoE with static IP address, SpeedFusion tunnels may not able to reestablish connections from that WAN after a WAN failure event.	**Balance**: One^, 210, 310, 305^, 380, 580, 710, 1350, 2500 **MAX**: Transit^, HD2, HD2 Mini, HD4, OTG^, 700 **MediaFast**: HD2^, HD4^, 200^, 500^
13644 / 13705	**Route Conflicts:** If the IPsec remote network or LAN default route conflicts with a static route, then the static route will not function.	**All Balance / MediaFast / MAX models** **Surf: SOHO**
13676	**Routing**: Outbound Policy Expert Mode overrides existing LAN/VLAN routes.	**All Balance / MediaFast / MAX models** **Surf: SOHO**

6. Known Issues

Reference	Details	Devices Affected
6911	**PepVPN:** PepVPN chart inaccurately shows severe packet loss if encryption is enabled.	**Balance:** 2500 **MAX:** HD4 **MediaFast:** HD4
9663	**Captive Portal:** The Captive Portal will not redirect if the DNS proxy has been disabled.	**All Balance / MediaFast models** **MAX:** BR1, BR2, 700, HD2, HD4
11176	**PepVPN**: When using iTunes or Remote to Airplay to an AppleTV over PepVPN, Bonjour Forwarding does not function.	**All Balance / MediaFast / MAX models** **Surf**: SOHO
12838	**L2TP with IPSec**: If multiple Windows clients are set up behind the same NAT router, they may not be able to establish L2TP/IPsec connections concurrently.	**All Balance / MediaFast / MAX models** **Surf**: SOHO
13167	**SpeedFusion**: SpeedFusion WAN Smoothing does not function as well if QoS is enabled.	**Balance**: One^, 210, 310, 305^, 380, 580, 710, 1350, 2500 **MAX**: Transit^, HD2, HD2 Mini, HD4, OTG^, 700

		MediaFast: HD2^, HD4^, 200^, 500^ ^ Feature Activated
14078	**SpeedFusion:** When upgraded to Firmware 6.3. older Balance revisions will have less SpeedFusion throughput than advertised on our specifications page.	**Balance:** 305 HW1/380 HW1-5/580 HW1/710 HW1-2/1350 HW1.

7. Report a Bug

To report a bug, please open a forum thread at https://forum.peplink.com/