

Router Firmware 8.6.1 Release Notes

Release Date: September 30, 2026

Devices Supported

This firmware release supports the following devices:

Balance	20X HW1,2,3 / Two HW1 / 310 HW5 / 310 5G / 310 Fiber 5G HW1 / 310X HW1,2,3,4 / 380X HW1 / 580X / 305 HW2 / 380 HW6 / 580 HW2,3 / 710 HW3 / 1350 HW2 / 2500 HW1 / 1350 EC HW1 / 2500 EC HW1 / 5000 EC
SDX	SDX HW1,2,3,4 / SDX Pro HW1,2
Dome	HD1 Dome Pro HW1 / Pro Duo HW1 / Pro LR HW1
MBX	MBX / MBX Mini HW1
BR	BR1 Mini HW3 / BR1 Mini Core HW3 / BR1 Mini 5G / BR1 Mini M2M HW1 / BR1 IP55 HW4 / BR1 Pro (CAT-20) HW7 / BR1 Pro 5G HW1,2,3 / BR2 Pro HW4 / BR2 HW4 / BR2 Micro HW1
Transit	Pro E HW2 / Duo Pro HW1
Orbit	MAX Orbit 2 HW1 / MAX Orbit 4 HW1 / MAX Orbit 8 HW1
B One	B One HW1 / B One Plus HW1,2 / B One 5G HW1,2
MediaFast	500 HW1,2 / 750 HW1
UBR	UBR Plus HW1 EPX HW1 / PDX HW1,2 / FusionHub HW1,2

New Features

Reference	Description	Device Supported
37458	[Beta 1] [Starlink] Added an Orbit WAN tab under Status > Event Log to display Starlink event logs.	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All (Except FusionHub)

Improvements

Reference	Description	Device Supported
37827	[RC 1] [System] Strengthened authentication and request validation for firmware uploads.	All Models
36889	[Beta 1] [Cellular & IPv6] Added IPv6 support for selected cellular devices.	Balance: 20X, 310 5G, 310 Fiber 5G, 310X, 380X, 580X BR: BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro Transit: Pro E B One: B One Plus, B One 5G EPX, PDX SDX, Dome, MBX: All (Device with Cellular and product code contains LTEA-US / LTEA-K / LTE-E / LTEA-D / GLTE-G / LTEA-Q / LTEA-E / LTE-R / LTE-EJ / LTE-MX / LTE-MXS / LTE-US)

Improvements cont. 2/5

Reference	Description	Device Supported
37249	[Beta 1] [DNS Proxy] Extended PrimeCare Secure DNS support to devices with any active Care plan. (Fixed in: 8.6.0s059)	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All (Except FusionHub)
37098	[Beta 1] [Docker] Changed Docker memory allocation to use a shared limit across containers. (Fixed in: 8.6.0s018)	Balance: 310, 310 5G, 310 Fiber 5G, 310X, 380X, 580X, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC BR: BR1 Pro 5G, BR2 Pro EPX, PDX SDX, MBX, Transit, Orbit, B One, MediaFast: All EPX (with EXM-LCDT)
37260	[Beta 1] [GPIO] Added an option to invert GPIO digital output in WAN Status mode. (Fixed in: 8.6.0s096)	Balance: 310 BR: BR1 Mini, BR1 Mini Core, BR1 Mini 5G, BR1 Mini M2M, BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro, BR2, BR2 Micro Orbit: MAX Orbit 2, MAX Orbit 4 MBX, Transit, B One, UBR: All
37393	[Beta 1] Added WINS server support for certain models.	Balance: 310, 310 5G HW3, 580X HW2 BR: BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro Dome, Transit, Orbit, B One: All

Improvements cont. 3/5

Reference	Description	Device Supported
37760	[Beta 1] [IPv6] Updated IPv6 LAN Router Advertisement intervals and lifetimes to follow ISP-provided lifetimes. (Fixed in: 8.6.0s076)	Dome: Pro Duo, Pro LR BR: BR1 IP55, BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro EPX, PDX, FusionHub Balance, SDX, MBX, Transit, Orbit, B One, MediaFast, UBR: All
37401	[Beta 1] [Starlink] Added support for Starlink Inhibit RF control.	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All (Except FusionHub)
37184	[Beta 1] [Starlink] Improved Starlink GPS status reporting to identify subscription restrictions.	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All (Except FusionHub)
37094	[Beta 1] [Starlink] Removed the Care plan requirement for LAN access to the Starlink Dish API.	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All (Except FusionHub)

Improvements cont. 4/5

Reference	Description	Device Supported
37185	[Beta 1] [Starlink] Updated the dashboard to show the Starlink GPS unavailable message only when Starlink GPS is enabled and no Starlink WAN provides location.	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All (Except FusionHub)
37704	[Beta 1] [Synergy Mode] Added support for connecting Synergized Devices over USB Ethernet WAN.	Synergized Device: Balance: Two, 310, 310 5G, 310 Fiber 5G, 310X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC PDX Dome, MBX, BR, Transit, Orbit, B One, MediaFast, UBR: All Synergy Controller: All Models (Except FusionHub)
37239	[Beta 1] [Synergy Mode] Removed Care plan and license requirements for Synergy Controllers and synergized devices.	Synergized Device: Balance: Two, 310, 310 5G, 310 Fiber 5G, 310X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC PDX Dome, MBX, BR, Transit, Orbit, B One, MediaFast, UBR: All Synergy Controller: All Models (Except FusionHub)

Improvements cont. 5/5

Reference	Description	Device Supported
37535	[Beta 1] [System] Allowed InControl to apply feature activation keys when Restricted to Status Reporting Only is enabled.	All Models
37690	[Beta 1] [System] Hardened security measures against potential remote code execution through API requests.	All Models
37764	[Beta 1] [WAN] Removed DNS-O-Matic from the Dynamic DNS settings because the service is being discontinued.	All Models
37381	[Beta 1] [WAN] Updated WAN health checks to use Google, Cloudflare, and Quad9 as public DNS targets.	All Models

Resolved Issues

Reference	Description	Device Supported
37881	[RC 2] [Synergy Controller] Fixed an issue where Synergy Controller did not correctly follow its configured enable setting.	All Models (Except FusionHub)
37839	[RC 1] [Synergy Mode] Fixed an issue where Wi-Fi clients could fail to obtain an IP address when a Synergy Controller managed multiple Synergized Devices.	Synergized Device: Balance: Two, 310, 310 5G, 310 Fiber 5G, 310X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC PDX Dome, MBX, BR, Transit, Orbit, B One, MediaFast, UBR: All Synergy Controller: All Models (Except FusionHub)
35984	[Beta 1] [B One] Fixed an issue where B One devices could crash following a USB reset.	B One: B One, B One Plus

Resolved Issues cont. 2/8

Reference	Description	Device Supported
37259	[Beta 1] [B310 HW5] Fixed an issue where Balance 310 HW5 could drop tagged VLAN multicast traffic when all LAN ports used Trunk Any. (Fixed in: 8.6.0s033)	
37264	[Beta 1] [Cellular] Fixed an issue where cellular connections could take a long time to register on Vodafone in Italy. (Fixed in: 8.6.0s027)	Balance: 20X, 310 5G, 310 Fiber 5G, 310X, 380X, 580X B One: B One Plus, B One 5G EPX, PDX SDX, Dome, MBX, BR, Transit, UBR: All
37196	[Beta 1] [Cellular & 5GD] Fixed an issue where 5GD cellular could fail to switch carrier profiles. (Fixed in: 8.6.0s049)	Balance: 20X, 310 5G, 310 Fiber 5G, 310X, 380X, 580X B One: B One Plus, B One 5G EPX, PDX SDX, Dome, MBX, BR, Transit, UBR: All (Device with Cellular and product code contains 5GD)
37521	[Beta 1] [Cellular & 5GK] Fixed an issue where IMS could remain enabled on 5GK cellular connected to private network. (Fixed in: 8.6.0s046)	Balance: 20X, 310 5G, 310 Fiber 5G, 310X, 380X, 580X B One: B One Plus, B One 5G EPX, PDX SDX, Dome, MBX, BR, Transit, UBR: All (Device with Cellular and product code contains 5GK)
37183	[Beta 1] [Cellular & LTE-E / LTE-US / LTE-MX / LTE-MXS] Fixed an issue where LTE-E, LTE-US, LTE-MX, and LTE-MXS cellular firmware upgrades could fail on RAMIPS models running firmware 8.6.0.	Balance: 20X, 310 5G, 310 Fiber 5G, 310X, 380X, 580X B One: B One Plus, B One 5G EPX, PDX SDX, Dome, MBX, BR, Transit, UBR: All

Resolved Issues cont. 3/8

Reference	Description	Device Supported
37792	[Beta 1] [Cellular & LTEA-K] Fixed an issue where LTEA-K cellular could fail to obtain an IPv4 address on Optus.	Balance: 20X, 310 5G, 310 Fiber 5G, 310X, 380X, 580X B One: B One Plus, B One 5G EPX, PDX SDX, Dome, MBX, BR, Transit, UBR: All
37186	[Beta 1] [Cellular & LTEA-Q] Fixed an issue where LTEA-Q cellular could not establish a data connection on the KDDI network in Japan. (Fixed in: 8.6.0s061)	Balance: 20X, 310 5G, 310 Fiber 5G, 310X, 380X, 580X B One: B One Plus, B One 5G EPX, PDX SDX, Dome, MBX, BR, Transit, UBR: All (Device with Cellular and product code contains LTEA-Q)
37611	[Beta 1] [Device API] Fixed an input validation issue in device configuration handling.	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX, FusionHub SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All
37728	[Beta 1] [Docker] Fixed an issue where Docker storage was not cleared by a factory restore on devices without other MediaFast storage features.	Balance: 310, 310 5G, 310 Fiber 5G, 310X, 380X, 580X, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC BR: BR1 Pro 5G, BR2 Pro EPX, PDX SDX, MBX, Transit, Orbit, B One, MediaFast: All EPX (with EXM-LCDDT)
37586	[Beta 1] [FusionHub] Fixed an issue where FIPS could not be enabled on FusionHub. (Fixed in: 8.6.0s070)	FusionHub

Resolved Issues cont. 4/8

Reference	Description	Device Supported
37674	[Beta 1] [FusionHub] Fixed an issue where InControl Remote Web Admin could fail on FusionHub with FIPS enabled and Remote Assistance disabled.	FusionHub
37436	[Beta 1] [GPS] Fixed an issue where GPS forwarding could generate malformed TAIP LN sentences. (Fixed in: 8.6.0s048)	Balance: 20X, 310 5G HW3 BR: BR1 Mini, BR1 Mini M2M, BR1 IP55, BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro, BR2, BR2 Micro EPX, PDX SDX, Dome, MBX, Transit, Orbit, UBR: All MAX: BR1/2, HD1/2/4, Transit, HD2/4 MBX, MBX Mini, HD2/4 with MFA
37160	[Beta 1] [GPS] Fixed an issue where InControl could report no GPS fix when GPS data came from a cellular module. (Fixed in: 8.6.0s019)	Balance: 20X, 310 5G HW3 BR: BR1 Mini, BR1 Mini M2M, BR1 IP55, BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro, BR2, BR2 Micro EPX, PDX SDX, Dome, MBX, Transit, Orbit, UBR: All MAX: BR1/2, HD1/2/4, Transit, HD2/4 MBX, MBX Mini, HD2/4 with MFA
37788	[Beta 1] [HA] Fixed an issue where both Balance 1350 EC units could become HA master after a reboot with LACP on SFP ports.	All Models (Except FusionHub)
37299	[Beta 1] [LAN] Fixed an issue where Balance 310 5G HW3 could drop untagged LAN traffic after rebooting with VLAN access ports configured. (Fixed in: 8.6.0s033)	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX, FusionHub SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All

Resolved Issues cont. 5/8

Reference	Description	Device Supported
37668	[Beta 1] [LAN] Fixed an issue where Bonjour forwarding could advertise client-network services back to the service network. (Fixed in: 8.6.0s099)	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX, FusionHub SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All
37439	[Beta 1] [LAN] Fixed an issue where DHCP conflict detection could record a blank MAC address for an occupied IP address.	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX, FusionHub SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All
37746	[Beta 1] [LAN] Fixed an issue where UDP and Bonjour forwarding could fail between VLANs with similar IDs. (Fixed in: 8.6.0s099)	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX, FusionHub SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All
37263	[Beta 1] [PoE] Fixed an issue where InControl 2 displayed PoE usage against incorrect port numbers.	Balance: 310, 310 5G HW3, 580X HW2 BR: BR1 IP55 Transit: Pro E Orbit: MAX Orbit 8 PDX SDX, Dome, MBX: All

Resolved Issues cont. 6/8

Reference	Description	Device Supported
37505	[Beta 1] [QoS] Fixed an issue where the device could reboot during QoS initialization. (Fixed in: 8.6.0s086)	Balance: 20X, Two, 310, 310 5G HW1-2, 310 Fiber 5G, 310X, 380X, 580X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC EPX, PDX, FusionHub SDX, Dome, MBX, BR, Transit, B One, MediaFast, UBR: All
37662	[Beta 1] [Security Advisory] Fixed a security vulnerability in DHCP client hostname handling.	All Models
36956	[Beta 1] [Security Advisory] Fixed a Web Admin access control vulnerability.	All Models
37657	[Beta 1] [Security Advisory] Fixed security vulnerabilities in the management CLI.	All Models
37627	[Beta 1] [SNMP] Fixed an issue where repeated GPS queries over SNMP could cause excessive memory usage. (Fixed in: 8.6.0s069)	All Models
37406	[Beta 1] [SpeedFusion Connect] Fixed an issue where SpeedFusion Connect tunnels could drop large packets.	All Models (Except FusionHub)
37703	[Beta 1] [SpeedFusion VPN] Fixed an issue where SpeedFusion Boost could drop traffic to ports 80, 2222, 5000, and 44444, or from clients on the FusionHub LAN.	All Models
37705	[Beta 1] [SpeedFusion VPN] Fixed an issue where SpeedFusion could drop IP-fragmented UDP packets on the receiving side.	All Models
37628	[Beta 1] [SpeedFusion VPN] Fixed an issue where SpeedFusion could drop traffic after the sending peer restarted a flow's packet sequence. (Fixed in: 8.6.0s080)	All Models
37557	[Beta 1] [SpeedFusion VPN] Fixed an issue where SpeedFusion Score per-WAN tests could fail when the tunnel included a standby WAN.	All Models

Resolved Issues cont. 7/8

Reference	Description	Device Supported
37604	[Beta 1] [Synergy Mode] Fixed an issue where BR1 Mini devices could not form Synergy Mode when the controller retained default administrator credentials and LAN IP.	Synergized Device: Balance: Two, 310, 310 5G, 310 Fiber 5G, 310X, 305, 380, 580, 710, 1350, 2500, 1350 EC, 2500 EC, 5000 EC PDX Dome, MBX, BR, Transit, Orbit, B One, MediaFast, UBR: All Synergy Controller: All Models (Except FusionHub)
37465	[Beta 1] [System] Fixed an issue where CLI SSH could fail to start after being enabled.	All Models
37214	[Beta 1] [System] Fixed an issue where heavy client recognition traffic could cause repeated InControl disconnections. (Fixed in: 8.6.0s021)	All Models
37514	[Beta 1] [System] Fixed an issue where long text could be clipped on the Balance 580X front-panel display.	All Models
37500	[Beta 1] [WAN] Fixed an issue where Ethernet ports on RAMIPS models could fail to establish a 100 Mbps link with Energy Efficient Ethernet enabled.	All Models (Except HD1 Dome Pro)
37588	[Beta 1] [Web UI] Fixed an issue where Port Settings displayed a WAN port as LAN on the MAX Transit Duo Pro. (Fixed in: 8.6.0s058)	Balance: 2500, 2500 EC, 5000 EC BR: BR1 Mini, BR2 PDX Dome, Transit, B One: All
37426	[Beta 1] [Wi-Fi 6] Fixed a Wi-Fi 6 stability issue when clients roamed between SSIDs on the same radio. (Fixed in: 8.6.0s034)	BR: BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro Orbit: MAX Orbit 2, MAX Orbit 4 Dome, Transit, B One: All

Resolved Issues cont. 8/8

Reference	Description	Device Supported
37718	[Beta 1] [Wi-Fi 6] Fixed an issue where air-monitor settings disappeared on Wi-Fi 6 models after upgrading to firmware 8.6.0.	BR: BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro Orbit: MAX Orbit 2, MAX Orbit 4 Dome, Transit, B One: All
37663	[Beta 1] [Wi-Fi WAN] Fixed an issue where Wi-Fi WAN could fail to roam back to a Fast Transition-enabled access point after visiting one without Fast Transition. (Fixed in: 8.6.0s079, 8.6.0s074)	Balance: 20X, 310 5G HW3 BR: BR1 Mini, BR1 Mini 5G (Wi-Fi), BR1 Mini M2M, BR1 IP55, BR1 Pro (CAT-20), BR1 Pro 5G, BR2 Pro, BR2 Orbit: MAX Orbit 2, MAX Orbit 4 PDX Dome, MBX, Transit, B One, UBR: All

Report an Issue

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