

HiveOS 8.3r2 Release Notes

Release date: March 22, 2018

Release versions: HiveOS 8.3r2

Hardware platforms supported: Atom AP30, AP122, AP122X, AP130, AP150W, AP230, AP245X AP250, AP550 and AP1130

Management platforms supported: HiveManager NG 12.8.0.8 and later

New Hardware Support

This release introduces support for the following new hardware:

Atom AP30: HiveOS 8.3r2 adds support for the new Atom AP30, an 802.11ac wall socket access point that uses a 2.4 GHz 2x2:2 and a 5 GHz 2x2:2 radio with integrated antennas, and integrated BLE (Bluetooth Low-Energy) that you can use for iBeacon applications. The Atom AP30 features a small form factor that you can mount directly into an electrical outlet to extend your wireless network easily.

New Features and Enhancements

This release introduces the following new features and enhancements:

Mesh and Unicast Enhancements: Devices running HiveOS 8.3r2 or later that have been onboarded to HiveManager NG probe for your network, securely join the network, and acquire the configuration without installer intervention. In addition, when both mesh point and portal AP are running HiveOS 8.3r2 or later, they negotiate to convert broadcast and multicast frames sent over the mesh link into unicast frames. As unicast frames, they are transmitted at a higher data rate, minimizing the mesh link airtime consumption and providing more usable bandwidth to the mesh point client devices.

Track IP Enhancements: HiveOS 8.3r2 enhances Track-IP functionality to provide more flexibility to the administrator when a targeted host IP stops responding. You can now configure a collection of arbitrary CLI commands to execute in addition to the previously available static options.

DHCP Option 82: This release supports using DHCP Option 82 sub-options, including Agent Circuit ID and Agent Remote ID sub-options, which are used for service identification in the router. When these sub-options are enabled, the AP injects them into the end-user DHCP discovery and boot requests when forwarding them.

Power Management Enhancements: The internal channel and power tables for all countries in which Aerohive products are certified for operation are updated in this release to reflect the latest regulatory limits within those countries. In many countries, these changes increase the operational range and performance of associated clients.

Proxy ARP Enhancements: HiveOS 8.3r2 adds support for the IEEE Extended Capability Field for Proxy ARP, which is transmitted in beacons and probes. Devices can use the contents of this field to conserve battery life by allowing the device to sleep for longer periods and to rely on proxy-ARP within the AP to handle processing ARP requests, thus saving battery.

Change in Behavior

ARP Cache Timeout: The ARP cache no longer ages out entries as long as the client remains associated to the AP or has not acquired a new IP address.

Known and Addressed Issues in HiveOS 8.3r1

The following tables list known and addressed issues in HiveOS 8.3r1.

Known Issues in HiveOS 8.3r2

CFD-3128 HOS-13111	Under certain circumstances when using RADIUS-based authentication, some wireless clients do not complete DHCP negotiations successfully, and do not acquire an IP address. Workaround: Connect the client to another SSID (such as a PPSK SSID), and then attempt to reconnect to the RADIUS SSID.
HOS-13135	The ARP tables of devices running HiveOS 8.3r2 sometimes do not update properly after receiving unicast ARP requests.
HOS-13117	When an admin enters the command <code>show interface wifix multicast</code> , HiveOS only returns a maximum of 21 IGMP groups.
HOS-12955	The Atom AP30 can only auto-join an existing HiveOS network as a mesh AP if at least one portal AP has already been updated to HiveOS version 8.3r2.
HOS-11615	An admin cannot add a new NAS (network access server) list unless the local RADIUS server is first disabled and then re-enabled.
HOS-11450	When tunneling wired guest traffic to a DMZ on a AP150W, the clients do not receive the appropriate IP address and tunneling is not successful. Workaround: Have clients connect to the wireless interfaces for tunneling guest traffic.
HOS-11138	Enabling Bonjour Gateway on an AP150W, AP122 or AP122X can cause those devices to report excessively high CPU loads. Workaround: Because Bonjour Gateway is a legacy feature that is unnecessary in most environments, you can either disable Bonjour Gateway, or relocate any existing Bonjour Gateways to higher-powered access points such as the AP550.
HOS-11087	On the AP150W, if Client Monitor is performed against multiple clients concurrently, the access point occasionally loses the CAPWAP connection to HiveManager.
HOS-11004	Remote Packet Capture on the AP150W can only capture traffic from wireless interfaces.

Addressed Issues in HiveOS 8.3r2

CFD-3076	AP245X access points operating on the 2.4 GHz band were experiencing very high airtime utilization in some regions.
CFD-3061	The RADIUS Service-Type attribute was not set properly within Access-Request and Accounting-Request packets.
CFD-3042	IP-Policy Layer 7 IPv6 rules whose source address value was "any" did not function properly.
CFD-3039	AP245X access point running HiveOS 8.2r1 sometimes stopped forwarding client traffic to the network, resulting in a loss of client connectivity.

CFD-3034	HPE/Aruba ClearPass did not function properly when MAC authentication was used.
CFD-3017	IP address byte order in Layer 7 log entries was reversed.
CFD-3015	HiveManager NG allowed an admin to enter a 32-character user profile assignment group name, but returned an error after the attempt.
CFD-3001	AP550 access points were not drawing the correct PoE power from the PSE when LLDP was enabled.
CFD-2980	Clients connected to some APs running HiveOS 8.2r1 were experiencing intermittent packet loss on the 2.4 GHz band.
CFD-2973	Some devices were able to connect to AP230 and AP330 access points, but not to AP250 access points with similar configuration.
CFD-2945	The AP150W did not correctly negotiate 802.3at power levels when using LLDP-MED.
CFD-2924	AP250 access points running HiveOS 8.1r2a were experiencing high CPU utilization.
CFD-2910	Devices using the Taiwan country code (158) did not support DFS
CFD-2877	AP230 access points running HiveOS 6.5r8 sometimes rebooted spontaneously.
CFD-2826	AP130 access points were experiencing very high CPU utilization.
CFD-2644	When an admin created Diffserv marker maps, traffic was not prioritized properly according to the Diffserv mapping.
HOS-12634	Zero-DFS did not function as expected when the AP was in dual mode.
HOS-12623	When AP150W was operating as a mesh point, client devices had to reassociate to the AP150W whenever the mesh link with the portal AP became disconnected.
HOS-12617	When an admin entered <code>bonjour-gateway priority</code> in the CLI, the AP122X was not listed in the list of devices and priorities.
HOS-12459	When an AP550 was operating in Dual-5 GHz mode, it sometimes chose channels that were too close together, increasing the likelihood of interference and reducing overall client performance.
HOS-12259	Sometimes, APs did not back off the transmit power because they could not detect a neighboring device operating on another channel.

Addressed Issues in HiveOS 8.3r1

HOS-11248	For the AP150W, the rate limiting settings for Eth2 and Eth3 did not appear after running a <code>show running config</code> command.
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