

## HiveOS 6.6r1a Release Notes

**Release Date:** August 3, 2015

**Release Versions:** HiveOS 6.6r1a

**Platforms supported:** AP130, AP230,

**HiveManager platforms supported:** HiveManager Online and on premise HiveManager

These are the release notes for HiveOS firmware and HiveManager 6.6r1a software. Known issues are described in ["Known Issues" on page 3](#) and ["Addressed Issues" on page 4](#).

*ⓘ Although HiveOS 3.4r4 was the last release for the HiveAP20 series, the current HiveManager can continue to manage all Aerohive platforms. However, you must push full configuration updates to these devices because some commands have been removed, which would cause delta configuration updates to fail. HiveManager can support full and delta configuration updates to APs, BRs, and SR series devices running HiveOS 6.0, and 6.1, 6.2, 6.3, 6.4 and 6.6.*

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## Changes in Behavior and Appearance

The following changes to behavior and appearance have been introduced in the 6.6r1a releases:

### Status LED Behavior

Aerohive access points include LEDs that can be used to assist installation, monitoring, and troubleshooting. Prior to this release, the default behavior of the AP130 and AP230 LED was to be on and illuminated at all times during normal AP operation. The new behavior of the AP130 and AP230 LED is to exhibit a long-period blink: The LED illuminates for 4 seconds, and then remains off for about one minute. There are no other changes to the operation of the access point.

This change is in response to a manufacturing defect reported by some customers that might cause the LEDs on the access point to become increasingly dim over time. This defect is largely cosmetic and does not alter or cause any loss of functionality to the product. That is, regardless of the condition of the LED over time, the performance and connectivity provided by your Aerohive network remains unchanged.

Customers who have reported this issue report a significant visual difference between the brightness of the LEDs on their units after nine to twelve months of continuous operation as compared to when the units were originally installed. This issue only exists in AP130s and AP230s, and, to date, has only been reported by AP230 customers, although not all units have been affected. The change in LED behavior allows the LED to continue to provide a visual indicator of the AP's health for those customers who use this feature, while significantly extending the life expectancy of the LEDs, in many cases to beyond the expected service life of the access point.

## What You Need to Do

Aerohive recommends that you take steps to extend the life of the LEDs on your access points. Even if you do not typically rely on the LEDs for ongoing operations, taking action now will ensure that the LEDs are available to you if you need them in the future. This requires you to install an updated version of HiveOS. See the section below for instructions on how to update your devices.

By updating HiveOS by September 1, 2015, you ensure the continued, full protection of your Aerohive warranty. For further protection, customers who do not typically use the LEDs as part of ongoing operations can turn the LEDs off completely, then turn them on when needed for troubleshooting.

## Updating Your Devices

### *HiveManager Online*

To update your AP130s and AP230s to HiveOS 6.6r1a, log in to HiveManager Online, and then do the following:

1. Navigate to **Monitor > Devices > Access Points > Aerohive APs**, and then select the AP130s and AP230s you want to update, and then click **Update > Advanced > Upload and Activate HiveOS Firmware**.
2. Choose the 6.6r1a image from the HiveOS Image drop-down list, and then click **Upload**.

### *HiveManager NG*

To update your AP130s and AP230s to HiveOS 6.6r1a, log in to HiveManager NG, and then do the following:

1. Navigate to **Monitor > Devices**, select the AP130s and AP230s you want to update, and then click **Update Devices**.
2. In the Device Update dialog, select **Upgrade HiveOS** and **Upgrade even if the versions are the same**, choose your preferred activation parameter, and then click **Upload**.

### *HiveManager Appliances and Virtual Appliances*

To update your AP130s and AP230s to HiveOS 6.6r1a, log in to your HiveManager appliance running HiveManager 6.6r1 or later, and then do the following:

1. Navigate to **Monitor > Devices > Access Points > Aerohive APs**, and then select the AP130s and AP230s you want to update.
2. Click **Update > Advanced > Upload and Activate HiveOS Firmware**.
3. Choose the 6.6r1a image from the HiveOS Image drop-down list, and then click **Upload**.

If the image you want does not appear in the drop-down list, you can obtain the image from the HiveOS Update server. To do this, click **Add/Remove**, choose **HiveOS latest images from update server**, select the image you want from the list, and then click **Upload**. HiveManager transfers the requested HiveOS image to your local appliance, after which time it is available in the HiveOS Image drop-down list. When the transfer is complete, return to step 2 above.

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## Documentation

Product documentation is still in progress at the time of these releases and is not yet available. However, the Help for HiveOS CLI commands are ready. To use the CLI Help, enter `keyword-SPACE-?` (for example: `qos ?`). In addition, there are online CLI reference guides that provide the syntax and explanations for every command in the CLI. They also include information on accessing the CLI through console, Telnet, and SSH connections, tips on using the CLI, and some keyboard shortcuts.

## Help System for Mobile Devices

Aerohive provides a way for you to view the Help system on a mobile device. The Aerohive Help is designed to be responsive, so in cases where viewing the Help system in a browser is inconvenient or impossible, you can view the Help content on your smart phone or tablet.

## Known Issues

The following known issues were found in the HiveOS and HiveManager 6.6r1a releases.

### Known Issues in HiveOS 6.6r1a

CFD-1053	Stations (or clients) that support only long preambles are unable to connect to an AP230 when the Preamble field is configured as Auto (Short/Long).  Workaround (WA): Configure the radio profile to use long preambles to allow legacy clients to connect.
HOS-2747	Some third party Beacons (such as those from RADIUS Networks) are not detected by the HiveManager iBeacon Monitor when using their vendor-supplied firmware.  WA: Install Aerohive firmware on the third-party Beacon.
HOS-2631	The 802.11r implementation requires client devices that connect to the network to support fast BSS transition in their wireless hardware drivers. There is an issue with clients who are running outdated versions of the Intel 6300N drivers connecting to Aerohive APs when 802.11r is enabled on the APs.  WA: There are two workarounds for this issue. Either disable 802.11r on the APs or upgrade the client Wi-Fi drivers to the latest version.
HOS-2570	There is an issue with creating PPSKs (Private Pre-shared Keys) when you enable an AP as an ID Manager authentication proxy and then apply an SSID that includes 802.11r.  WA: Disable 802.11r on all APs configured as an ID Manager authentication proxies.
HOS-2454	SR Series switch ports support either HivePort or spanning tree, but not both.  WA: Configure either HivePort or spanning tree on a switch port.

## Addressed Issues

The following issues were addressed in the HiveOS and HiveManager 6.6r1a releases.

### Addressed Issues in HiveOS 6.6r1

CFD-1146	The BR200-LTE-VZ router improperly reported a loss of CAPWAP connectivity to HiveManager while Aerohive devices behind the router remained connected.
CFD-1111	The default user profile attribute was overridden by the HivePass captive web portal.
CFD-1079	When a user was a member of a large number of Active Directory groups, the RADIUS Access-Challenge packets, which contain user group information, exceeded an established size limit and were dropped.
CFD-1078	On networks that required a web proxy server, administrators were unable to update device HiveOS software using the automatic update process in HiveManager. Instead, administrators were required to download HiveOS images manually to update devices.
CFD-1052	Adding a new network to a BR200-WP caused the WAN interface to go down. This issue has been addressed.
CFD-1001	Changes made to the transmit power settings of an AP230 in HiveManager did not persist after a reboot.
CFD-977	In installations in which there were multiple locations, but only one AP per location, APs were not properly electing a designated AP. This issue has been addressed.
CFD-949	Wired 802.1X clients that were directly connected to Aerohive switches were not authenticating after the extended system up time expired.
CFD-900	AP230s sometimes transmitted probe responses at data rates that were disabled in the configuration.
CFD-899	ACSP (Aerohive Channel Selection Protocol) was not reporting non-Aerohive access points in the ACSP neighbor list.
CFD-896	Configuring an Aerohive device acting as a DHCP server to use ARP (Address Resolution Protocol) to detect IP address conflicts caused the device to no longer respond to DHCP discovery packets.
CFD-859	AP330s were transmitting multicast traffic at data rates that were lower than the configured basic data rates.
CFD-848	Clients connecting to an AP230 were sometimes unable to obtain a DHCP address.
CFD-829	An issue with the accuracy of the usage statistics displayed by the <i>Usage by Location</i> and <i>Usage by SSIDs</i> widgets on the <i>Dashboard</i> was corrected.
CFD-796	There was a mismatch when APs reported disconnected clients in SNMP and connected clients in the CLI (command line interface). This issue has been addressed.
CFD-742	Under certain conditions, AP330s sometimes reported incorrectly that interference was higher than it actually was.
CFD-715	Certain legacy 2.4 GHz wireless clients in protection mode experienced high packet loss due to a hidden node issue. This issue has been addressed.

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