

# HiveOS 6.5r9a Release Notes

Release date: April 27, 2018

Release versions: HiveOS 6.5r9a

Hardware platforms supported: AP110/120, AP1130, AP121/141, AP130, AP170, AP230, AP320/340, AP330/350, AP370/390, SR2024, SR2024P, SR2124P, SR2148P, BR100, BR200-WP, BR200-VZ-LTE

Management platforms supported: HiveManager 8.1r2 or later and HiveManager NG 12.8.0.15 or later

#### Changes in Behavior and Appearance

This release adds the following changes in behavior and appearance:

• Wifil Radio Stabilization: This release addresses an issue with the Wifil radio, in which the radio continually resets while in a DFS Wait state.

# Known and Addressed Issues

#### Known Issues in HiveOS 6.5r9a.

 CFD-3263
CFD-3262
After upgrading from HiveOS 6.5r8b or earlier to HiveOS 6.5r9, Bonjour Gateway is disabled. Uploading a configuration with Bonjour Gateway enabled can sometimes result in Bonjour Gateway becoming disabled on the device. This issue affects the CLI commands generated by HiveManager Classic 8.2r1 or earlier and HiveManager Virtual Appliance 12.8.0.3 or earlier. HiveManager 12.8.0.13 or later is not affected.
Workaround: Upload a complete configuration to devices immediately after upgrading from HiveOS 6.5r8b or earlier to HiveOS 6.5r9 or later. If the Bonjour Gateway remains disabled, include the following command using Supplemental CLI: bonjour-gateway enable

#### Addressed Issues in HiveOS 6.5r9a

| CFD-3268  | APs running HiveOS 6.5r9 and configured to use DFS were sometimes unable to service clients on the Wifi1 radio.        |
|-----------|--|
| HOS-13231 | Some access points are unable to detect neighboring devices, and so cannot form hive neighbor relationships with them. |

#### Addressed Issues in HiveOS 6.5r9

| CFD-3139 | Devices running HiveOS 6.5r8 sometimes became unresponsive or rebooted.   |
|----------|---|
| CFD-3061 | The RADIUS Service-Type attribute contents in Access-Request and Accounting-Request packets sometimes did not match the contents expected by third party security appliances. |

For more information:

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| CFD-3034             | HiveOS devices did not properly respond to some Disconnect-Request and Change-of-Authorization packets.                              |
|----------------------|--|
| CFD-3018             | Some devices with Bonjour Gateway enabled generated too much UDP traffic on port 5555.   |
| 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-2965<br>CFD-2807 | AP330 access points sometimes rebooted when running HiveOS 6.5r8b.   |
| CFD-2902             | HiveOS was generating too many log messages unnecessarily.   |
| CFD-2887             | CPU usage became high when APs were processing Layer 7 signatures.   |
| CFD-2877             | AP230 access points running HiveOS 6.5r8 sometimes rebooted spontaneously.   |
| CFD-2870             | The Message-Authenticator attribute was missing from non-EAP Access-Request packets originating from HiveOS.                         |
| CFD-2835             | The SNMP daemon sometimes stopped functioning properly.  |
| CFD-2783             | Administrators could not update the AP370 and AP390 application signatures to 6.1.0.   |
| CFD-2761             | HiveOS was not forwarding DHCP request packets originating from PlayStation 4 consoles when OS detection was being used.             |
| CFD-2715             | IP Firewalls did not block HTTPS application traffic when DHCP server is used and NAT is enabled on the AP.                          |
| CFD-2679             | Client connections were interrupted between times 23:59 and 00:00 (midnight).  |
| CFD-2540             | AP121 access points running HiveOS 6.5r6 sometimes stopped transmitting beacons.   |

### Addressed Issues in HiveOS 6.5r8b

| HOS-12153 | Improved mitigation of issues with the WPA2 standard that allowed for PTKs, GTKs, and IGTKs |
|-----------|---|
|           | to be replaced during the four-way handshake.   |

#### Addressed Issues in HiveOS 6.5r8a

| HOS-12153 | Corrected an issue with the WPA2 standard that allowed for PTKs, GTKs, and IGTKs to be |
|-----------|--|
|           | replaced during the four-way handshake.  |

#### Addressed Issues in HiveOS 6.5r8

| CFD-2652 | Portal APs were being incorrectly reported as mesh ports because AMRP was not recognizing and reporting brief changes to interface status.                                       |
|----------|--|
| CFD-2639 | SNMP error counters were incorrect on an SR2024P switch.   |
| CFD-2633 | DNS query responses that were fragmented due to their large size were not reassembled when ALG was enabled, causing DNS queries to fail.   |
| CFD-2617 | After 200+ days of uptime during which they were mostly idle, some access points could get into a state where they would erroneously report their CPU utilization at 100%".      |
| CFD-2557 | After adding a new network or new branch router, there was a substantial delay while the OSPF routing table was rebuilt in the HiveOS Virtual appliance (formerly known as CVG). |
| CFD-2539 | BR200 devices were not communicating with the SNMP server.   |
|          |  |

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| CFD-2529<br>CFD-2429 | Client usage data displayed in various HiveManager NG pages was inconsistent.  |
|----------------------|--|
| CFD-2488             | SSID data displayed in the dashboard was inconsistent or incorrect.  |
| CFD-2460             | AP230s using the 6.5r6 image were continually rebooting.   |
| CFD-2309             | On 802.11ac APs ACSP behavior sometimes triggered BSS avoidance in iOS clients.  |
| HOS-9300             | Medium strength ciphers for SSL, previously retained for backward compatibility, have been removed from HiveOS. HiveOS no longer accepts or initiates connections with TLS versions earlier than v1.1. |

### Addressed Issues in HiveOS 6.5r7

| authenticatio           | figured RADIUS proxies were missing realm names which caused AP<br>n to fail periodically.<br>ubnets were not being advertised by the OSPF. |
|-------------------------|---|
| CFD-2264 Some router s  | ubnets were not being advertised by the OSPF.   |
|                         |   |
|                         | and AP230 the 802.11e load element was always present even when WMM edia) was disabled.   |
| CFD-2245 The Available  | Admission Capacity was always 0.  |
| CFD-2193 AP121s were f  | flooding the network with MDNS traffic.   |
| CFD-2118 Acct-Session-I | Id and Acct-Multi-Session-Id were missing from RADIUS Access-Request packets  |
|                         | Acct-Multi-Session-Id support for Disconnect-Request (and CoA), for better ty with systems that perform RADIUS accounting.                  |
| CFD-1921 Packet MTU in  | ncreased when the packet reached the CVG tunnel0 interface.   |
| HOS-10073 The EU countr | y code was added to SKUs for AP121, AP141, BR200, AP130, and AP230.   |
| HOS-9885 Addressed CV   | /E-2017-6214.   |
|                         | authenticated users roamed from an AP330 or AP370 to AP230, the client's class not shared, causing incorrect firewall rules to be applied.  |

# Addressed Issues in HiveOS 6.5r6

| CFD-2200 | Clients who were exempted from registering on an external captive web portal because<br>they were using MAC-based authentication were unable to connect. |
|----------|--|
| CFD-2195 | An invalid Acct-Authentic attribute has been removed from Accounting-On/Accounting-Off-Request packets.  |
| CFD-2151 | The length of the user name in the client usage report has been expanded from 32 characters to 128 characters to prevent the return of erroneous data.   |
| CFD-2121 | PPSK revocation was not taking effect.   |
| CFD-2120 | PPSK users with revoked privileges were still able to connect after an AP was rebooted.  |
| CFD-2119 | AP130 devices were returning invalid AIFSN values in response to probes.   |
| CFD-2094 | HiveOS was not changing the user profile based on RADIUS CoA (change of authentication).   |
| CFD-2003 | Connection to the corporate network was lost due to virtual appliances and routers losing OSPF routes.   |

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| CFD-1965 | The client monitor log was displaying an incorrect RSSI value.   |
|----------|--|
| CFD-1964 | Voice traffic using a Cisco 8841 was being routed on the data VLAN.  |
| CFD-1815 | AP370 devices were unexpectedly rebooting because they were running out of buffers when too many clients were connected, which caused inconsistent internal variables. |
| CFD-1790 | Improvements were made to avoid false radar detection by the AP230.  |
| HOS-9276 | An MIC verification failure in TKIP that was disconnecting AES users has been fixed.   |
| HOS-9035 | RADIUS Class attributes could cause authentication issues in an environment with different models of AP.   |
| HOS-8330 | The UPID was incorrectly assigned based on the RADIUS returned attribute for a PPSK with MAC authentication enabled.   |
| HOS-8318 | An error in the LLDP-PoE code logic has been addressed.  |
|          |  |

#### Addressed Issues in HiveOS 6.5r5

| CFD-1947            | The AeroScout server was not able to process data sent by a tag through an AP230.   |
|---------------------|---|
| CFD-1928            | Previously HiveOS misinterpretations of an NTP server message intended to signify correct<br>time not available, or not yet set on the server resulted in time stamps in 2036. This also<br>affected services such as ID Manager and IPSec tunneling to fail. |
| CFD-1905            | SNMP traps emitted from an AP230 with embedded IP addresses would have the IP addresses reversed.   |
| CFD-1860            | AP IP sessions increased significantly after a classifier map (CM) was pushed to the configuration.   |
| CFD-1833            | The show ${\tt vpn}$ ike sa and show ${\tt vpn}$ ipsec sa commands were not displaying data for the CVG.  |
| CFD-1820            | DHCP packets were using invalid client MAC address for Bonjour Gateway.   |
| CFD-1811            | The transmit (Tx) power for AP130 devices was displayed as 31 dBm after a reboot.   |
| CFD-1805            | There were inconsistencies in the show ACSP neighbor and show hive neighbor RSSI output.  |
| CFD-1801            | A lockup was causing AP370 devices to reboot.   |
| CFD-1798            | MAC auth and 802.1x auth were not using the same action when the user-profile-mapping function was enabled.   |
| CFD-1795            | RADIUS class attributes were no longer available after a BSS transition.  |
| CFD-1759            | Legacy clients could not be authenticated with EAP (LEAP).  |
| CFD-1719            | The list of friendly APs that appears on non-DA APs did not include all of the information that appeared on the list for DA APs.  |
| CFD-1706            | APs were incorrectly recognizing themselves as rogues.  |
| CFD-1195            | AP121 devices were running out of memory and returning the following message: "amrp2: page allocation failure. order:3, mode:0x20".   |
| HOS-7525<br>(14158) | Under certain circumstances, hardware TCP checksums were incorrectly calculated, resulting in the AP320 and AP340 corrupting forwarded frames.  |
| HOS-7478            | Weak (96-bit and less) ciphers and the SHA-1 MAC algorithm, retained for backwards compatibility with old client devices that did not support modern crypto ciphers or MAC algorithms, have been removed, to prevent false positives from security scanners.  |

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| HOS-7312 | The event-timestamp was missing on the Accounting-On, Accounting-Off, and Start forms of the Accounting-Request packets.  |
|----------|---|
| HOS-7311 | The Acct-Delay-Time RADIUS attribute was missing on Accounting-Request packets.   |
| HOS-7310 | Accounting-Off Accounting-Request packets were not being sent by HiveOS when a reboot command was issued.   |
| HOS-7220 | Self-signed certificates, used for securing HTTPS access to the HiveOS device, have been updated to use the SHA-256 algorithm for signing.                      |
| HOS-7134 | Configuring the "Redirect to the initially requested page" option with the access web server's page as the first URL created an endless loop of login requests. |
| HOS-6261 | The Filter ID was unable to assign a user profile correctly.  |

#### Addressed Issues in HiveOS 6.5r4

| CFD-1750 | UDP CAPWAP connections would sometimes close and then reopen over HTTP. When this occurred, client devices could not communicate with the network.  |
|----------|---|
| CFD-1722 | After upgrading AP230 access points to HiveOS 6.5r3, some client devices would intermittently not receive DHCP offers that were being sent by the DHCP server.  |
| CFD-1703 | The SR2024P switch operating in router mode becomes unresponsive during bootup when using the Huawei E8372 modem as the backup WAN port and the primary WAN connection is removed.  |
| CFD-1693 | The four-way handshake process was sometimes unsuccessful because of unexpected WPA key data returned by the supplicant.  |
| CFD-1686 | SR2024P switches were reporting the IP address octets of connected hosts to HiveOS in reverse order.  |
| CFD-1647 | Macbooks sometimes did not process the 802.11h power constraint value correctly, which resulted in a transmit power setting that was too low. This version of HiveOS introduces Client Transmit Power Control, now disabled by default, which instructs the client device to match the AP transmit power. |
| CFD-1581 | The RADIUS failover process was taking several seconds, causing some clients to disassociate, and then be unable to re-associate after the process completed.   |
| CFD-1550 | VPN tunnels being negotiated by the BR200-WP router would sometimes take several minutes because the xauth-request packet was not received when expected.   |
| CFD-1502 | BR200 routers sometimes reported an incorrect vendor ID to HiveOS during the configuration upload process, which resulted in HiveOS reporting an error and preventing a successful configuration upload.  |
| CFD-1374 | Clock drift of some HiveOS devices would sometimes create sufficient disparity to cause VPN tunnels to close and then need to be renegotiated, producing data transfer interruptions.   |
| CFD-1383 | After upgrading to HiveOS 6.6r1, devices were unable to execute the DHCP option commands properly.  |
| HOS-6723 | Although there is no method to exploit CVE-2015-7547 within HiveOS, Aerohive has updated HiveOS to prevent false positive responses being generated by security software.   |

### Addressed Issues in HiveOS 6.5r3a

| HOS-5200 | Aerohive devices demonstrated small, but constant packet loss in active VoIP sessions when |
|----------|--|
|          | there was simultaneous lower-priority traffic, for example, background file transfers and  |
|          | streaming video.   |

#### Addressed Issues in HiveOS 6.5r3

| CFD-1331<br>CFD-1245 | The VPN daemon running on the HiveOS Virtual Appliance spontaneously restarted, causing all active VPN tunnels to reset unexpectedly.   |
|----------------------|---|
| CFD-1289             | The AP230 was reporting the incorrect transmit and receive airtime counts.  |
| CFD-1111             | When authenticating through a HivePass captive web portal, the user profile was assigned<br>an incorrect user profile attribute value.  |
| CFD-1097             | The byte order of the IP address was reversed as reported by SNMP v2C traps on the AP230, which resulted in the apparent failure of applications due to firewalls dropping packets with bad reverse IP addresses.                   |
| CFD-897              | NetConfig UI reported a validation error when a password was configured to end in the letter z.   |
| HOS-2635             | On Aerohive SR-series switches, performing an SNMP walk (snmpwalk) resulted in an error.  |
| HOS-1680             | The Troubleshooting tool within HiveOS NG was incorrectly reporting that clients configured<br>an incorrect static IP address or gateway although the clients were properly configured<br>and functioning correctly on the network. |
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