

# HiveOS and HiveManager 6.5r2 Release Notes

**Release Date:** August 5, 2015

**Release Versions:** HiveOS 6.5r2 and HiveManager 6.5r2

**Platforms supported:** AP370 and AP390

**HiveManager platforms supported:** HiveManager Online and HiveManager appliance

These are the release notes for HiveOS firmware and HiveManager 6.5r2 software. Known issues are described in "[Known Issues](#)" on page 4 and "[Addressed Issues](#)" on page 4.

## Features and Enhancements

This release brings the AP370 and AP390 to common-code parity with other HiveOS 6.5 platforms, adding support for WIPS (wireless intrusion prevention system) and spectrum analysis for AP370 and AP390 devices.

- WIPS prevents unauthorized network access by wireless devices to local area networks.
- With this release, AP370 and AP390 devices can now perform spectrum analysis in both the 2.4 GHz and 5 GHz band. Spectrum analysis provides a live view of the RF environment so that you can plan for further WLAN deployment or troubleshoot WLAN issues such as high retransmission rates caused by interference, or slow connections due to over use.

For more information about these features, see the HiveManager online Help system.

## Upgrading HiveManager Software

Aerohive supports upgrading to the 6.5r2 HiveManager software from HiveManager 5.1r2 releases or later. If your system is running an image earlier than 5.1r2, follow the steps in the 5.1r2 Aerohive release notes to upgrade HiveManager to 5.1r2 before upgrading your system to 6.5r2.

### Upgrade HiveManager 5.1r2 or later to 6.5r2

Use the following procedure to upgrade a HiveManager standalone or HA pair.

From	Action	To
HiveManager 5.1r2 or later	Upgrade to HiveManager 6.5r2.	HiveManager 6.5r2
HiveOS 5.1r2 or later	Use HiveManager running HiveManager 6.5r2 to manually upgrade managed devices to HiveOS 6.5r2.	HiveOS 6.5r2

#### Upgrading the HiveManager Appliance

1	Back up your database as a safety precaution. Navigate to <b>Home &gt; Administration &gt; HiveManager Operations &gt; Back Up Database</b> .
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Upgrading the HiveManager Appliance	
2	Save the 6.5r2 HiveManager software file to a directory on your management system or SCP server. (Log in and download the 6.5r2 HiveManager software file from the <a href="#">Aerohive Support</a> page.)
3	Log in to HiveManager running 5.1r2 or later and then upload the 6.5r2 HiveManager software file. To update HiveManager, click <b>Home &gt; HiveManager Operations &gt; Update Software</b> , select the method to upload the HiveManager software, and then click <b>OK</b> . When the upload is complete, HiveManager automatically reboots to activate its new software.
4	HiveManager periodically checks for new HiveOS firmware releases that it can download to itself for distribution to managed devices. If HiveManager is connected to the Internet, it automatically obtains HiveOS firmware image files for every type of managed device from the Aerohive update server and HiveManager makes the image files available in about 15-30 minutes, depending on how many image files it is downloading and its connection speed to the server.  To update the HiveOS firmware image files manually, log back in to HiveManager, select the device or devices of the same type for which you want to update the HiveOS firmware, click <b>Update &gt; Advanced &gt; Upload and Activate HiveOS Firmware</b> , select the appropriate HiveOS image from the list for the selected device type, and then click <b>Upload</b> . If the firmware is not available in the list of HiveOS images, click <b>Add/Remove</b> and obtain the HiveOS image you want from the update server, your local directory, or SCP server. If you are managing various Aerohive device types, repeat the upload process for all your managed devices, and then reboot them to activate their new firmware.

## Increasing Memory, CPU, and VM Param Settings for the HiveManager Virtual Appliance

Before you can upgrade a 32-bit HiveManager Virtual Appliance to 6.0 or later, you must increase the memory for it within the ESXi hypervisor to 3 gigabytes, set the number of virtual sockets for its CPU to 2, and change VM params to 1024 megabytes.

*“i”* Upgrading the 64-bit HiveManager Virtual Appliance to 6.0 or later does not require any changes to its default memory (4 GB), CPU (4 virtual sockets), and VM param settings (1480 MB). A new 6.5r2 installation of a 64-bit HiveManager Virtual Appliance .ova file has a new default memory size of 8 GB.

1. From the vSphere Client on your management system, log in to the ESXi hypervisor hosting the HiveManager Virtual Appliance whose memory you want to increase.
2. To check which type of system you have, select the name of the HiveManager Virtual Appliance, click **Summary**, and check whether the Guest OS indicates that it is 32 or 64 bits.



32-bit HiveManager Virtual Appliance



64-bit HiveManager Virtual Appliance

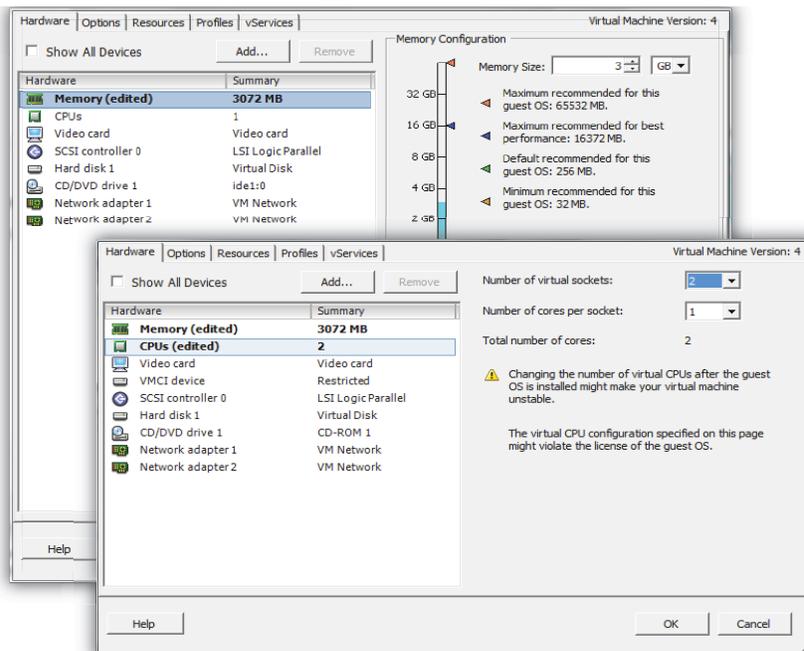
3. If it is a 32-bit system, keep the name of the HiveManager Virtual Appliance selected, click the **Console** tab, click in the console window, and then log in to the HiveManager CLI shell. If it is a 64-bit system and is still using the default settings, you are not required to change them. However, if you want to, you can increase the memory from 4 GB to 8 GB by performing the following steps.

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1) Network Settings and Tools
2) Display System Information
3) Advanced Product Configuration
4) Reboot Appliance
5) Shut down the System
6) Change CLI Shell Password
7) Logout of shell
Please make a choice:

```

4. To shut down the virtual appliance, enter **5** (Shut down the system) and then enter **Y** when prompted to confirm the action.
5. In the vSphere Client GUI, right-click the HiveManager Virtual Appliance name in the left navigation panel, and then click **Edit Settings**.
6. On the *Hardware* tab, click **Memory**, change the value in the Memory Size field to **3 GB** for a 32-bit system or up to **8 GB** for a 64-bit system, and then click **OK**. (For a 64-bit system using its default values, there is no need to change any other settings.)
7. For a 32-bit system, select **CPUs** from the Number of virtual sockets drop-down list, select **2**, and then click **OK**.



8. With the name of the HiveManager Virtual Appliance still selected, click **Power on the virtual machine**.
9. After the HiveManager Virtual Appliance is powered back on, click the **Console** tab, click in the console window, and log in to the HiveManager CLI shell.
10. Enter **3 - 2 - 2** to navigate to **Advanced Product Configuration > Configure VM Params > Change VM Params**, and then enter **1024** (for 1 GB).
11. Reboot the HiveManager Virtual Appliance to apply this setting. (You can navigate back to the home menu, and enter **4** for Reboot Appliance.)
12. After the HiveManager Virtual Appliance finishes rebooting, check that it recognizes its increased memory size by returning to the console window, logging back in to the HiveManager CLI shell, and entering **2 - 4** (Display System Information > Display Hardware Information). To complete the memory upgrade procedure, check that the MemTotal value for a 32-bit system is approximately 3,000,000 KB. (The MemTotal value for a 64-bit system is approximately 8,000,000 KB.)

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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 is 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.

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## Known Issues

The following are known issues in the HiveOS and HiveManager 6.5r2 releases.

### Known Issues in HiveOS 6.5r2

35627	When running a remote sniffer under a heavy traffic load, multiple abnormal logs are generated.
35609	Although a watchdog assertion may be generated during bootup, this does not affect the operation of the device.
35576	Energy and channel usage rates are high for the AP130 when spectrum analysis is enabled.

### Known Issues in HiveManager 6.5r2

35719	Under certain circumstances, spectrum analysis charts are displayed incorrectly for the AP130 and AP230.
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## Addressed Issues

The following issues were addressed in the HiveOS and HiveManager 6.5r1 releases.

### Addressed Issues in HiveOS 6.5r1a

HOS-185	If the client device operating system was unknown to the Aerohive device, the Aerohive device was unable to assign an IP address to the client when reassigning it to the prescribed user profile.
35787	Client devices did not appear properly on floor plans within HiveManager with location services enabled.

## Addressed Issues in HiveManager 6.5r1

CFD-295	The location-based report displayed information for all locations regardless of the filter settings.
CFD-892	Incorrect information was appearing in the csv file for the Client Report.
CFD-924	Planner Map reports were not generating correctly.

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