AirWave 7.6.3

Release Notes

This document describes new features and resolved issues in this AirWave release.

- "What's New in this Release" on page 1
- "Changes" on page 2
- "The Support Download Page" on page 6
- "Resolved Issues" on page 7
- "Known Issues" on page 12

What's New in this Release

Greater Visibility into Clients

An **RF Performance** tab is now available on the **Home** page. This page provides graphs that enable you to identify clients with low SNR rates, speed, and goodput. Users can click on a value in any of the graphs to view detailed client information. When the client information is displayed, an additional drill down to a folder level is available to view a specific client.

Trigger Enhancements

With this version of AirWave, users are now provided with additional trigger functionality. Specifically, users can now:

- Specify a trigger based on the client count per BSSID.
- Enter information in the new Notes field. This allows further customization of alerts.
- Ignore reboot/uptime resets as part of the **Device Down** trigger. This helps reduce the number of alerts generated when rebooting or resetting devices.

API Updates

The following additional fields have been added to ap_list.xml:

- FQDN
- Last Contacted
- SNMP Uptime
- Client Count

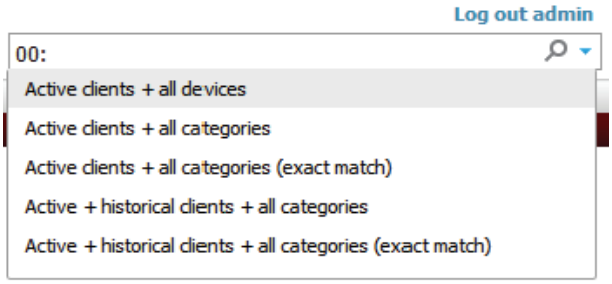
Improved Searching

When using the **Search** box in the top header, users are now presented with a drop down that includes the following options:

- **Active clients + all devices:** This looks at all active clients (not historical) and all devices. This "Quick Search" method is not case-sensitive. The results of this search display in a pop-up window.
- **Active clients + all categories**: This looks at all active clients (not historical) and all categories. This search is not case-sensitive.

- **Active clients + all categories (exact match)**: This looks at all active clients (not historical) and all categories. This search returns only matches that are exactly as typed (IP, username, device name, etc). This search is case-sensitive for all searched fields.
- **Active + historical clients + all categories**: This looks at all active and historical clients and all categories. This search is not case-sensitive.
- **Active + historical clients + all categories (exact match)**: This looks at all active and historical clients and all categories. This search returns only matches that are exactly as typed (IP, username, device name, etc). This search is case-sensitive for all searched fields.

Figure 1 *Improved Searching*



The system-wide default search method is configured on the **AMP > Setup** page, and this can be overridden per user on the **Home > User Info** page. If a user types an entry in the search field and clicks Enter without specifying a search method, then the default method will be used.

Monitoring in a Guest DMZ Setup

For clients that get authenticated on a different controller (DMZ), AMP can now retrieve users from the access layer controller and can determine authentication from an Aruba DMZ controller if that controller is monitored in AMP. Note that this interaction includes updates only from an Aruba DMZ controller. In addition AMP does not create clients if the DMZ reports the client before the access layer controller.

Changes

Changes to AMP were added in the following general categories:

- "Aruba Instant Enhancements" on page 2
- "Aruba AirMesh Enhancements" on page 4
- "RAPIDS Enhancements" on page 4
- "Reporting Enhancements" on page 4
- "AOS Support" on page 5
- "New Devices" on page 5
- "ClearPass" on page 5
- "Cisco Device Support" on page 5
- "HP Device Support" on page 5
- "Security" on page 6

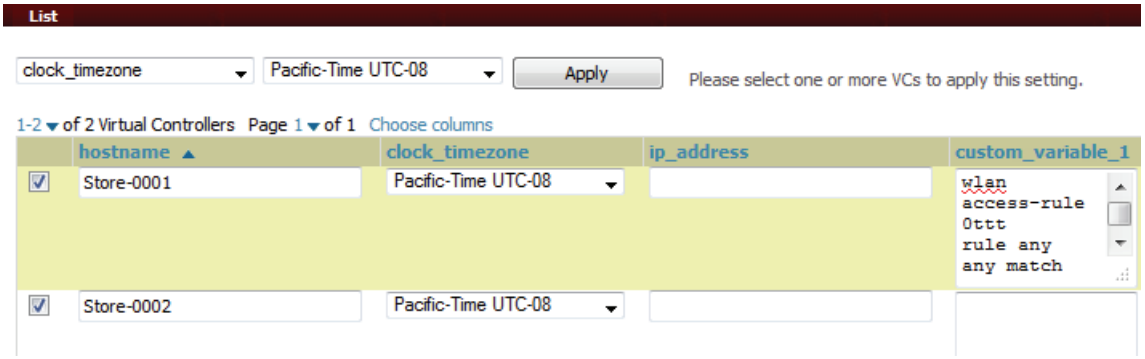
Aruba Instant Enhancements

Aruba Instant Configuration

- AirWave 7.6 includes support for Instant 3.2.

- This version of AMP includes failover support configuration.
- AirWave 7.6 provides the ability to configure Instant AP settings in AMP and to make bulk edits to virtual controller template variables. Refer to the *Aruba Instant in 7.6 Deployment Guide* for more information.

Figure 2 *Bulk Instant configuration in AirWave*



Single Sign-on

In this version of AirWave, you can click on a managed virtual controller's IP address and be redirected to the Instant device without requiring an additional set of login credentials.

Per-AP-settings via AirWave

AirWave can configure the following per-AP-settings for single IAPs in the network from the **APs/Devices Manage** page:

- Hostname
- IP address
- AP mode
- Uplink VLAN
- ARM configurations

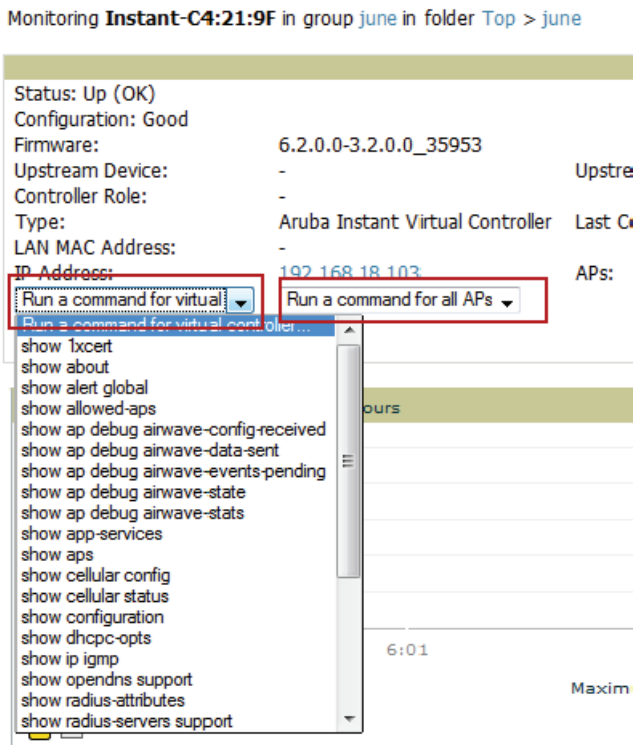
Aruba Instant Monitoring Features

- Rogue client monitoring is now supported. AMP automatically detects rogue APs regardless of their location in the network and prevents authorized IAPs from being detected as rogue IAPs. AMP also tracks and correlates the IDS events to provide a complete picture of network security.
- Spectrum interfering events are visible on the Radio Diagnostics page and can be used to identify problem radios in the RF Health Report.
- Channel and Utilization graphs are now available on the Radio Statistics page.

Aruba Instant Troubleshooting

- You can now run several Instant CLI commands from within AMP from the **APs/Devices > Monitor** page. When viewing the **Monitor** page for VCs, you can run commands specifically at the VC level as well as for all APs.

Figure 3 *Instant CLI commands*



- This version of AMP provides greater visibility into configuration errors and mismatches.

Aruba AirMesh Enhancements

- AirMesh improvements include the visibility into clients that include cameras.
- This version also provides support for MeshOS 4.5.

RAPIDS Enhancements

- With this version of AirWave, you can now keep discovery events that update a rogue record for a device.
- AirWave now allows you to set up a time window for wired and wireless correlation on the Rapids > Setup page. You can specify the number of minutes for this time window, or you can specify 0 to disable this feature.
- This version of AirWave allows you to filter rogues based on VLANs and/or interface labels. This helps to reduce the number of false positives when a rogue device is detected. These settings, configured on the **RAPIDS > Setup** page, are particularly useful to customers who have switches in AirWave. The ports on those switches contain either special interface labels or multiple VLANs. In the case of multiple VLANs, imagine that the user has two VLANs: one acting as the corporate, and the other acting as a guest. Use the “Ignore Events from VLAN(s)” setting so that the guest VLAN wired Rogue Discovery Events can be ignored because they are not critical.

Reporting Enhancements

- Users can now export and e-mail reports in PDF format.
- The **Network Usage Report** includes options to summarize based on **Client Count**, **Usage**, and/or **Usage and Client Count by Folder**. This report also provides a graph that breaks down the usage based on folders.

- When defining a new custom **Client Session Report**, users can now include **Top Clients by Total MB Used by Folder**. When this option is enabled, the generated report will display the top users based on specified folder groupings.

AOS Support

Support has been added for Aruba OS 6.2.

NOTE

If a 651 controller is upgraded to 6.2, then thin APs on AirWave will go down.

New Devices

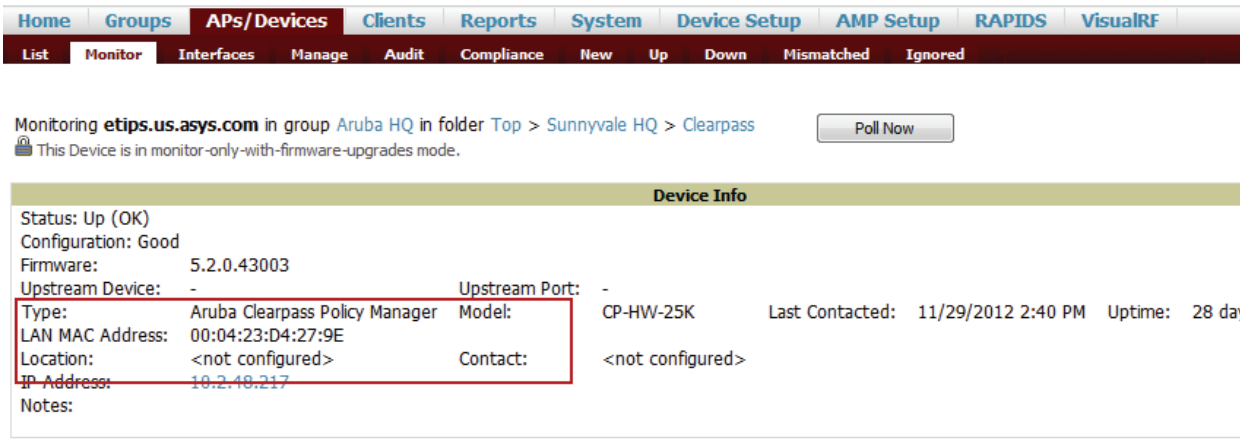
Support has been added for the following devices:

- Aruba 7x00 Controller
- Aruba S3500 -24F Mobility Access Switch

ClearPass

AMP can now detect and monitor Aruba ClearPass Policy Manager 5.2 and later devices. Support for ClearPass includes basic device monitoring, CPU/memory usage graphs, and syslog and traps.

Figure 4 *ClearPass monitoring support in AirWave*



Cisco Device Support

- Cisco model number information is now available for wireless devices.
- This version of AirWave also includes support for 1941W and 860/880/890 ISRs, including the following models:
  - 881GW-GN
  - 891W-GN
  - 881W-GN
  - 1941W

  The above devices are supported in both autonomous IOS mode and thin AP mode.

HP Device Support

The following products are supported for monitoring and software upgrades. These devices are available in the VisualRF product catalog and can be selected when setting up device-specific triggers and alerts. In

addition, these devices can be set up as trap receivers, and the SNMP traps can be seen on the **System > Syslog & Traps** page.

- HP MSM430
- HP MSM460
- HP MSM466
- HP MSM710 (controller)
- HP MSM720 (controller)

In VisualRF, the utilization value for HP devices will be 0 because AirWave does not get utilization values for these devices.

Security

The following packages were updated with security-related fixes:

- **krb5**: https://rhn.redhat.com/errata/RHSA-2011-1851.html (krb5-libs-1.6.1-36.el5_5.4.x86_64 pam_krb5-2.2.14-15.x86_64, krb5-workstation-1.6.1-36.el5_5.4.x86_64)
- PostgreSQL Security Updates: The following CVEs are resolved in release 9.0.7 of postgres:
  - CVE-2012-0866 postgresql: Absent permission checks on trigger function to be called when creating a trigger
  - CVE-2012-0867 postgresql: MITM due improper x509_v3 CN validation during certificate verification
  - CVE-2012-0868 postgresql: SQL injection due unsanitized newline characters in object names
- **kernel**:
  - https://rhn.redhat.com/errata/RHSA-2012-1540.html (kernel-2.6.18-308.24.1.el5)
  - https://rhn.redhat.com/errata/RHSA-2012-1580.html (kernel-2.6.32-279.19.1.el6)

The Support Download Page

The table below describes the different packages/files that you might see on the Support site when you download AirWave 7.6.

Table 1 *Download page file descriptions*

File name	Description
Install iso	Standalone installation media including CentOS operating system. This can fit on a CD/DVD, or it can be mounted as a virtual disk for installation.
Install rpm	Used for installation on a customer-installed CentOS or RHEL server
Upgrade package	Used for AirWave upgrades. Note that updates are only supported from up to two versions prior. Contact support if you are upgrading from three versions prior or more (for example, from 7.3 to 7.6).
Upgrade script	Optional update script. This script is included in the upgrade package.*
Virtual appliance ova	VMware OVA template for AirWave deployment on VMware ESXi infrastructure.

*Not required for download. This is used by the upgrade package to facilitate upgrades done via the Internet.

Resolved Issues

Table 2 below lists resolved issues in AirWave 7.6.3:

Table 2 *Resolved Issues in AirWave 7.6.3*

ID	Description
DE13471	Fixed an issue with the upgrade process that resulted in an “Incorrect Campus and/or Building Locations” warning.
DE13528	A “Settings have been saved” message now displays after making Cisco WLC Config changes on the master controller.
DE13572	Fixed an issue that caused the Inventory Report to fail. This was due to certain devices sending channel information as empty strings rather than as NULL values. The Inventory Report now takes these empty strings into account when retrieving device information.
DE13613	Support was added for HP MSM430, MSM466, and MSM720 (controller) devices. **NOTE:** In VisualRF, the utilization value for HP devices will be 0 because AirWave does not get utilization values for these devices.
DE13616, DE13485	Historical “Goodput” and “Utilization” graphical information is now retained after replacing a device, even when the new device belongs to a controller for which AMON is not set up.
DE13706	Fixed a scheduling issue that occurred when upgrading firmware on virtual controllers. With this fix, AMP no longer misinterprets short timezone settings. This ensures that when a device is configured with CST (China Standard Time), AMP does not confuse it with the US Central Standard Time.

DE13722	The following options can be used with the `ignore_cmd` variable in Instant templates:
	`awms-identity`
	`bid`
	`device-id`
	`version`
	These options can help reduce a number of common mismatches. The `bid` value, for example, is unique to each cluster. If this is included in the ignore command list, then it will not result in a mismatch.

DE13747	Devices in planned maintenance mode now show a “Planned Down” status. This allows those devices to be filtered on the Status column of AP lists.
DE13759	On the **Clients > Diagnostics** page, the client location, heatmap, and data-rate information no longer disappear when you enlarge the floor plan thumbnail.
DE13838 DE13536	Fixed issues that caused the upgrade process to run slowly. This was due to in part an issue with the pg_autovacuum process. Now as part of nightly maintenance, AMP recognizes tables with more than 1000 rows that have exceeded the autovacuum threshold for more than two hours. In addition, AMP also expires rogue client/historical data as part of nightly maintenance.

Table 3 below lists resolved issues in AirWave 7.6.2:

Table 3 *Resolved Issues in AirWave 7.6.2*

ID	Description
DE13244	Fixed an issue in which Aruba configurations failed to be pushed to a standby controller. Now, profiles added during Aruba configuration are correctly pushed to both the standby controller and the master controller.
DE13310	The `whitelist-db rap` command is not yet supported in AOS 6.2. AMP will continue to use the `local-userdb-ap` command to add, modify, and delete remote AP entries in the Remote AP whitelist.
DE13386	Fixed an issue that caused AMP to fail when poling for rogue information. This occurred on a heavily loaded AMP when the cache contained a rogue AP that did not exist in the current database.
DE13476, DE13543	The field names on the **Clients > Client Diagnostics > Quality** “Indicator” forms now display correctly in all supported languages.
DE13477	Updated kernel (kernel-2.6.18-308.24.1.el5). See the Security section of this document for more details.
DE13485	Fixed an issue that caused AMP to fail to retain some of the graphical data on the Radio Statistics page after performing Replace Hardware.

Table 3 *Resolved Issues in AirWave 7.6.2*

ID	Description
DE13495	Fixed an issue that caused two Instant APs to have the same GUID. This occurred when multiple Instant APs each acted as a Virtual Controller instead of the IAPs residing under a single VC. In this case, AMP sent the same "`set guid`" command (i.e., `virtual-controller-key xxxxxx`) multiple times.
DE13533	Fixed an issue that caused upgrading to take a long time. This issue was due to large table sizes. Now, users will receive a message if the aggregate size of tables exceeds 30GB, and this message provides the opportunity to abort the upgrade.
DE13518, DE13545	Fixed an issue that caused Cisco Thin AP updates to fail. Users no longer receive an error message after clicking **Save** on the Cisco Thin AP Settings page.
DE13541	Fixed an issue that caused APs to not display RF neighbors in AMP. This occurred when a master controller did not include itself in the AOS 6.2 table of master and local controllers, which in turn caused local controllers to have an incorrectly set master controller ID.
DE13555	Fixed an issue that caused AMP to create two sets of radios with the same MAC address. This occurred after disabling a radio A on an AP and then enabling BGN radios in Air Monitor mode.
DE13562	Radios Noise Floor information is now stored when performing radio monitoring. The same database that stores the information can be used to fetch the information during Rogue, Rogue Client, and Client polling. This change allows AirWave to more accurately compute the signal for thin APs attached to a local controller.
DE13571	Updated kernel (kernel-2.6.32-279.19.1.el6). See the Security section of this document for more details.
DE13591	The **APs/Devices > List** page for Instant devices now more easily distinguishes virtual controllers from swarm APs.
DE13599	Fixed an issue with Instant devices that caused an error when pushing both Airgroup configurations and ClearPass Policy Manager information. This error was due to the order in which the commands were pushed. Now, when attempting to push both configurations, CPPM configurations (or any other RADIUS server configurations) are applied first.
DE13604	For Instant devices, AMP now sets empty fields in the template for virtual controllers when the corresponding variable's default value is also empty.
US9685	Support for CentOS 5.x and Red Hat 5.x will be fully deprecated in AMP 7.7. AMP includes a message during the upgrade process reminding users that this support will end. This message has been enhanced further to explain that AirWave 7.7 will only support Cent6.x and RHEL 6.x.

Table 4 below lists resolved issues in AirWave 7.6.1:

Table 4 *Resolved Issues in AirWave 7.6.1*

ID	Description
DE12851	Fixed an issue in which an existing local controller was discovered again after upgrading, resulting in a duplicate record. This issue occurred when a switch IP did not exist or was not in a valid format.
DE12918	Fixed a mismatch issue that occurred while uploading a new certificate on a local controller when a Management Captive Portal certificate already existed on the master controller.
DE12964	Added MIBs related to the Aruba S3500 Mobility Access Switch. This includes changes related to version 7.2.
DE13394	Added additional run commands for Instant 3.1 and 3.2.
DE13422	Fixed an issue that caused the load time to be slow on the RF Performance page.
DE13441	On a freshly installed CentOS 6 AMP, "pound" and "postgres" now log to the proper files.
DE13442	On the RF Performance page, columns in the Clients popup now sort properly.
DE13456	Fixed an issue with Instant APs in which the Transmit Power field for 802.11bgn radios was cleared (empty) after changing an 802.11an radio channel.
DE13468	Added additional debugging processes when postgres restarts. If the posgresql restart fails (after optimizing the pqql conf), the details will be logged to the current active queries.
DE13472	Fixed an issue that caused mismatches with Instant template variables after upgrading.

Table 4 *Resolved Issues in AirWave 7.6.1*

ID	Description
DE13478	Fixed an issue that occurred when viewing the **Clients > Diagnostics** page after a search. While still on the **Clients > Diagnostics** page, if a user performed another search, the upper portion of the page still displayed information from the previous search results.
DE13482	Improved a database process, which should reduce run time for the RF Health Report.
DE13483	In VisualRF, fixed an issue in which a newly deployed device showed “Error” when viewing the device radio status.
DE13486	Aruba 72xx controllers are now available in VisualRF.
DE13487	Fixed a `glibc-common` dependency issue caused upgrades to 7.6 to fail.
DE13489	On the **APs/Devices > Manage** page for Instant devices, the options that display in the 802.11an Radio Channel drop down menu now match the channel options available on Instant UI.
DE13465, DE13506	Support for CentOS 5.x and Red Hat 5.x will be fully deprecated in AMP 7.7. This version of AMP now includes a message during the upgrade process reminding users that this support will end.
US9265	Added support for RAP-108/109.
US9452	A new drop-down menu on the **AMP Setup > General** page replaces the **Use Fully Qualified Domain Name** radio button. Instead of Yes/No, users are now provided with three options: • **Don’t use FQDN** - This default value specifies that the fully qualified domain name will not be used. • **Use FQDN with apname** - The AP name will prepend the FQDN, for example “somehostname (my.hostname.com).” Note that if the AP name is not present, then the FQDN will still appear in parenthesis. • **Use only FQDN** - Only the fully qualified domain name will be used.

Table 5 below lists resolved issues in AirWave 7.6.0:

Table 5 *Resolved Issues in AirWave 7.6.0*

ID	Description
DE11897	When a user adds a Cisco or Alcatel-Lucent switch stack, updates sysLocation on the stack using the CLI, and then imports settings, the primary and member switches now both update successfully,
DE12116	Fixed an issue that caused Juniper devices to fail to update the Up/Down status automatically. SNMP now scans for Juniper devices using the serial number as the unique key rather than the LAN MAC.
DE12219	When changing a client device type away from “Default” on VisualRF, a message no longer displays saying that the update will take 15 minutes. This change can sometimes occur quickly, so the message now indicates “several” minutes.
DE12315	In VisualRF, the client history playback widget no longer displays when the application window is maximized.
DE12329	AMP no longer removes Machine Authentication users that AOS creates with a blank role. Instead, these users are ignored and not considered during an audit.
DE12340	Fixed an issue that cause Aruba Instant configurations to be built with invalid IP addresses.
DE12344	Fixed an issue that caused the `snmp_fetcher` function to restart multiple times each day, which resulted in error messages and incorrect client counts.
DE12350	Users are now informed on the **Device Setup > Discover** page that the IP address for authorized devices can be overwritten as part of a network scan.
DE12463	In Aruba Instant, the **Radio Monitoring** page now displays the Radio Role swarm APs.
DE12464	Aruba Instant supports additional CLI commands to swarm per-AP settings dynamically. When new commands are added, the commands will be handled automatically and will not impact an audit.
DE12483	Fixed a memory leak issue that caused async_logger_clients (a client monitoring process) to increase in size.
DE12486	A VisualRF restart is no longer required to view radio information on floor plans after replacing hardware in AMP.

Table 5 *Resolved Issues in AirWave 7.6.0*

ID	Description
DE12492	Fixed a configuration push inconsistency that occurred after updating the RADIUS shared secret for a group and then putting the controllers in that group into Managed mode. In this case, the configuration was not consistently pushed to all controllers.
DE12507, DE12636	The AP Monitoring page now shows the SSID of Aruba Instant IAPs in the correct radio. In addition, when an SSID is deleted, the monitoring page no longer treats it as a missing SSID.
DE12532	Fixed an issue with Reports that caused searches based on the Title to fail.
DE12619	On the controller monitoring page, **Modify Device** features, such as **Audit selected devices**, **Rename devices**, and **Delete selected devices from AMP**, now work properly in Internet Explorer.
DE12677	Channel-related configurations are now available under the radio.
DE12744	Fixed an issue that caused the **Daily Wireless Network Usage Report** to display blank graphs. The issue occurred with RRD files that included bin timestamps with future dates. Now, users are presented with a message in the log files when they attempt to insert values into an RRD using a timestamp more than five minutes in the future.
DE12767	Fixed an issue with the Radio Noise trigger. In some cases, users set triggers for noise levels that were, for example, =>-70 dBm and were still receiving alerts for noise levels at -90 dBm. This trigger and the alert now work properly.
DE12783, DE12935	Fixed an SNMP trap issue that resulted in a false “Device Down” alert. In addition, the trap name is now propagated into the log message along with the IP where it originated.
DE12797	When importing DWG files into VisualRF, the maximum image width is now 8192px, and the maximum quality value has been increased to 99. Note still that DWG files with cross-reference bindings are not supported. Attempting to import these into AMP can result in poor-quality images.
DE12861	The **Import Devices via CSV** option in **Device Setup > Add** can update approved devices.
DE12864	When dragging an AirMesh client onto a Mesh map in VisualRF, the client link navigation icon is now visible.
DE12878	In VisualRF, when adding a custom background to a Mesh map, the view no longer changes from Mesh view to Network view.
DE12898	Users no longer receive an error after downloading a CSV device file, opening it in a MAC, adding a device, and then re-importing the CSV file.
DE12967	Fixed an issue that caused a significant increase in reporting run times.
DE12973	Fixed a synching issue that caused an AP state to show a mismatch in AMP and VisualRF.
DE12985	In VisualRF, Mesh and indoor APs now display all available Radios.
DE12998	Added error messages when attempting to export a generated report to CSV with the following conditions: • After constructing a CVS Export URL to a handler that is not visible to the user. The result is an “Access Denied” message. • After constructing a CSV Export URL to a handler that does not exist. The result is a “Page Not Found” message. • After generating a report that only includes images. The result is a “No Data to CSV Export” message.
DE13015	Fixed an issue with MC Reports that caused AMP to continuously run the reports unsuccessfully before timing out after several hours.
DE13026	When adding a template to a group for Instant Virtual Controllers, the current group template variables now display correctly.
DE13027	Fixed an issue with Cisco WLC Config. In the WLANs section, the **Save and Apply** button now works properly when adding a new SSID/VLAN.
DE13072	Mesh clusters that were discovered with a manually added AMP group/folder can now be viewed in the VisualRF mesh view.
DE13080 DE13079	Users can now replace the `%custom_variable_1%` variable in an Instant template.

Table 5 *Resolved Issues in AirWave 7.6.0*

ID	Description
DE13082	Heatmaps in VisualRF now display correctly for Cisco 3600i LWAPP APs.
DE13088	Clicking **Save** in the Aruba Instant variable editor on a virtual controller will only launch a Confirm Changes page if changes were made.
DE13094	Managing rogue containment with an Instant VC now works properly for a partial configuration and during a normal push.
DE13099	AMP now marks an AP as “Up” immediately after changing Cisco WLC configuration so that it sends traps to AMP. Previously, the AP remained down until the next polling cycle.
DE13101	In VisualRF, a horizontal scroll bar now displays for both the Match and Deployed Devices dialog boxes.
DE13107	Fixed an issue in which a discovered rogue continued to be discovered with a new ID after each polling period.
DE13177	Fixed an issue that caused the browser to lock up when attempting to apply firmware upgrades.
DE13112	The PCI Compliance report now displays correctly when WPA-2 encryption is configured and the AMP server is not added as a trap receiver.
DE13113	Fixed an issue that caused importing of WLAN override configuration to fail on Cisco APs.
DE13137	Fixed an issue on the Client Diagnostics page that caused an additional client symbol to display for a user each time an overlay was changed.
DE13159	Mesh links now appear correctly between Mesh APs and Mesh clients.
DE13168	Fixed a polling issue that occurred with HP Procurve 530 APs. AMP no longer indicates that the device is down when the device is up on the network.
DE13171	Fixed an issue that caused the **Replace Hardware** option to fail during a bulk replacement.
DE13182, DE13245	On the **APs/Devices > Monitoring** page, clicking the VisualRF thumbnail for a mesh client no longer results in an error.
DE13191	A mismatch no longer occurs after adding an Instant VC with a name that includes spaces.
DE13209	Fixed an issue in which users were unable to change the radio power for APs in Instant clusters.
DE13214	When a backend timeout occurs in VisualRF, an “Internal server error while reading site.xml” message now displays.
DE13220	Fixed an issue that caused incorrect SSID/VLAN pairings.
DE13270	The Channel selector on the Instant user interface provides additional options that are not available on the AMP UI. A new Channel Width field was added to the **APs/Devices > Manage** page to support the additional options.
DE13312	After navigating from VisualRF to the Mesh tab, pressing the **F5** button no longer takes you to Network view.
DE13338	Fixed an issue that caused swap usage to spike after issuing multiple requests with “invalid_param.”
DE13374, DE12815	Replace Hardware now works properly when the replacing device is from the New Device list.
DE13398	Fixed an issue that caused global AOS configurations to be converted to group-based configurations after an upgrade. This occurred when the **Use Global Aruba Configuration** option on the **AMP Setup > General** page was set to **No** before an upgrade and then set to **Yes** after the upgrade.
DE13428	Users are now prompted to delete swarms that may be duplicates.
US7985	For new report definitions, a new column showing the current Aruba AP Group Name was added to the Inventory and Client Inventory reports. This column is selected by default when the **Include details about every device option** is enabled.
US8196	The following tags have been added for displaying the reboot count and last reboot count. <reboot_count>num_reboots</reboot_count> <last_reboot>last_reboot_time_epoch</last_reboot> Note that these fields will be hidden when the device is down.

Table 5 *Resolved Issues in AirWave 7.6.0*

ID	Description
US8337	When a Cisco switch with an “access” port has a phone connected to it, and then another devices is plugged into the wired port of that phone, AMP now correctly sets the port type to “access” rather than “distribution.” The port type will only be set to “distribution” if there are greater than 10 MACs connected to a Cisco port that is set to “access.”

Known Issues

Table 6 below lists the known issues for AirWave 7.6.3:

Table 6 *Known Issues in AirWave 7.6.3*

ID	Description
DE12380	In VisualRF, if you select Restore to Defaults after previously changing your preferences, you must refresh the page in order for the preference values to reset.
DE13263	When performing a bulk update of controllers (for example, 20 or more), it can take up to 15 minutes for the status of all controllers to update. This performance issue can also exist during a bulk Import Settings.
DE13325	VisualRF Plan is not currently supported on Windows 8. Attempting to run the installer in Windows 8 will result in an error.
DE13331	In VisualRF, users are not provided with an option to add an external antenna for AP-134 devices.
DE13332	An issue exists in which data for unassociated clients that is retrieved by SNMP does not appear in the AirWave database.
DE13344	When exporting a Rogue Client report to CSV, the Rogue Client information section exports with the file name “details.csv” instead of “rogue_clients.csv.”
DE13419	When performing a bulk import of a large number of floor plans, we recommend breaking up the import into no more than 20 floor plans at a time. Importing more than 20 floor plans at once might cause the import to fail.
DE13544	In VisualRF, if you attempt to import a floor plan from a PDF file that is in landscape mode, AMP converts the image to portrait mode. A workaround is to convert the original floor plan to a jpg file before importing.
DE13656	Some issues exist on a Corvina stack when one of the Corvina members is halted. The member switch table on the primary switch shows the downed member’s role as “Unknown” and the state as “Active.” In addition, when you select the downed member, the monitor page shows the status as “Down (Primary Switch is Down)” even though the primary switch is still up, and the Switch State is shown as Active even though it is halted.
DE13783	An issue exists with the RADIUS Auth report. The report runs quickly, but e-mailing the report can take a long time.
DE13830	An issue exists with the Import Unreferenced Profiles option when importing an unreferenced user role, causing a mismatch that cannot be resolved.
DE13854	In some cases, AMP fails to import interface details during an import, resulting in a mismatch for interfaces.
DE13877	An issue exists with DMZ controllers that causes APs and clients to terminate. This occurs when an AMP poll overrides information from the internal controller without polling the DMZ controller.
DE13895	An issue exists in which AMP polls ClearPass using SNMPv2 even if SNMPv3 is configured and specified.

Table 7 below lists the known issues for AirWave 7.6.2:

Table 7 *Known Issues in AirWave 7.6.2*

ID	Description
DE12914	An issue exists in which information for interfering devices does not expire when the controller stops sending spectrum messages over AMON.
DE13551	In VisualRF, an error exists that can cause association lines on a floor plan to be drawn to the wrong AP. Two workarounds exist if you notice this behavior: • Press the refresh (F5) button. • Move away from the floor plan view (for example, to network view) and then navigate back.
DE13554	While upgrading from 7.6.0 to 7.6.1, postgres may shut down before completing its current process. This can cause the upgrade to fail.
DE13558	An issue exists in VisualRF that can cause an iPhone client to display in the wrong location.
DE13584	If you attempt to perform a bulk modify of devices from within the **Groups > Monitor** page and then cancel the update, AMP launches the folder list page rather than back to the **Groups > Monitor** page.
DE13590	An issue exists in which AirWave is failing to delete expired rogue devices. This can occur even if the "Delete Rogues not detected for" setting is configured on the **RAPIDS > Setup** page.
DE13603	For APs that have both 802.11bgn and 802.11an radios, an issue exists that can cause the SSIDs of the 802.11an radios to be removed from the SSID list. This occurs if you disable the 802.11bgn radio and then re-add the AP. After enabling the 802.11bgn radio in Access mode, the SSID for the 802.11an radio disappears. A similar issue exists that causes the channel number and SSID to display incorrectly. This occurs when you add an AP with 802.11an enabled, and at a later time, you enable the 802.11bgn radio in Air Monitor mode or in Spectrum mode.
DE13615	Attempting to delete a CPPM server from the Instant template currently fails and results in a mismatch.
DE13621	An issue exists in which AMP fails to push a Campus AP Whitelist profile to the controller. This occurs if a user changes only the Campus AP Whitelist profile from the Security section on the **Groups > Aruba Config** page. If additional configuration changes are made in addition to the Campus AP Whitelist profile, then the entire configuration push succeeds.

Table 8 below lists the known issues for AirWave 7.6.1:

Table 8 *Known Issues in AirWave 7.6.1*

ID	Description
DE13387	An issue exists in which APs show mismatches after a daily audit. This same issue is not seen when performing a manual audit.
DE13455	In VisualRF, the Campus view only includes four digits for the total number of clients. When AirWave encounters a floor plan with a client count greater than 9999, only the first four digits are visible.
DE13497	In some cases, long-running process (for example, greater than a year) can cause AMPs to randomly fail due to excessive memory usage. If you have not restarted AMP services in over a year, and you notice this behavior, a workaround is to restart AMP services.
DE13501	Users with restricted views can see rogues that are detected by APs that they cannot see. This can cause the PCI Compliance report to fail if the rogues are detected by another group's APs.
DE12887, DE13522	In some cases, the "wlsxUserEntryAttributesChanged" SNMP trap shows an IP address of 0.0.0.0 with an "unauthenticated" state. This can be seen even when the IP address is defined.
DE13526	An issue exists with regards to data retention of device events. If you specify 31 days, for example on the **AMP Setup > General** page, AirWave may truncate the data. This happens when the data table has more than 5 million rows. In this case, AirWave will display the data over 31 hours instead of 31 days.

Table 9 below lists the known issues for AirWave 7.6.0:

Table 9 *Known Issues in AirWave 7.6.0*

ID	Description
N/A	The wait time can be lengthy (up to 30 minutes) for AMP to display updated rogue AP information after re-classifying a rogue with Instant. This is because Instant does not immediately send the new rogue AP classification information for the affected rogue after receiving the re-classification command from AMP.
N/A	Radio stats are not available when polling via SNMP from the controller with Cisco firmware version 7.2.
DE12092	The “pefng” service type is an available option in AMP for Aruba Config, but this setting is not yet supported on the controller.
DE12098	In a future release, a Corvina stack’s primary AP will aggregate all the clients on the Corvina stack and display those on the **APs/Devices > Monitor** page
DE12437	On the **AMP Setup > General** page for Instant controllers, the acceptable upper limit for the Monitoring Processes value is 12, which does not reflect hyper-threading.
DE12735	In VisualRF, AirMesh AP names can appear truncated on the Client Properties page.
DE12737	The external link provided on the **AMP Setup > NMS** page for downloading the Netcool OMNIbus Integration Module (NIM) for AirWave is currently broken. It may be possible to download this instead from http://www-304.ibm.com/jct01003c/software/brandcatalog/ismlibrary/details?catalog.label=1TW10NC16#. Note, however, that Aruba has no control over the content in external Web sites.
DE12759	Instant users cannot delete “dot11a/g-radio-profile” and “ip dhcp pool” values from a template.
DE12849	For an Aruba controller running AOS 6.2, the **Power Save DoS Detection Minimum Frames** option on the **APs/Devices > Manage** page cannot be set to 60.
DE12883	In VisualRF, exporting a set of floor plans from one AMP and importing them into another can sometimes result in missing floor plans. This issue occurs when using the Campus & Building Export page in Chrome. When **Network** is selected, **Campuses** and **Buildings** options are selected by default, but the **Floors** option is not. As a result, users must go to each building and select the floors in order to export properly. Note that this issue does not occur in IE or Firefox.
DE12948	An issue is being investigated in which VisualRF failed to restart after new APs were added.
DE13021	The **Dashboard > Security** quick link is still an available option in the monitoring page drop down menu for Porfidio controllers running AOS 6.2 even though the Security view does not exist on the 6.2 controller dashboard.
DE13045	An issue exists with floor plans that display on the **APs/Devices > Monitor** page. There is currently no option to hide a floor plan. In addition, if you enlarge the floor plan, there is currently no option to shrink the floor plan back to the original size. A workaround for this is to select the **Monitor** tab again.
DE13053	A mismatch occurs after configuring but not applying an AP LLDP-MED Network Policy in a 650 controller running AOS 6.2. After importing, the LLDP-MED Application VLAN shows 0 instead of “unset” or “undefined.”
DE13056	Users should note the distinction between “n” and “N” in the Connection Mode column in the **RF Performance > Clients** drill down pages. “n” represents 2.4Ghz, and “N” represents 5Ghz.
DE13097	Some Certificate issues exist with regards to AirWave and ArubaOS 6.2. • An error can occur when attempting to edit a Certificate Override at the device level with a new certificate that conflicts with the original one. A workaround is to delete the initial certificate and then add the new one. • A “Certificates selected here...” message displays when any override is added, even those overrides that do not involve certificates. • Validation checks for special characters in certificate names are not currently performed. • When unreferenced certificates are imported, the required link is not created. A workaround is to import again.
DE13097	Conflicting overrides can be observed after adding an AP to a group, importing a configuration, verifying overrides, and then moving the AP to another group and importing again.
DE13228	VC template mismatch issues may occur after upgrading to 7.6. These mismatches are likely due to the fact that 7.6 introduces a per-ap-setting CLI configuration rather than on the VC, and the prior version’s VC CLI setting is not backward compatible. A workaround is to create a new 7.6 template.

Table 9 *Known Issues in AirWave 7.6.0*

ID	Description
DE13317	Cisco 881, 891, and 1941 devices are not available options in the **Firmware File** drop down menu on the **Device Setup > Upload Firmware & Files** page.
DE13327	An issue exists with regards to Instant AP channel configurations. If a user configures Channel and Channel Width settings for a single Instant AP, AMP does not validate the configuration or verify whether a configuration error exists.
DE13333	Some reports that are exported to CSV may display all devices for each category rather than just the top 10 devices.
DE13334	An issue exists when exporting Rogue search results to CSV. The IP address in the exported report displays as a hex value rather than in dotted quad format.
DE13357	An issue exists after changing the time zone during an AMP install. After discovering devices, an error can occur if you attempt to schedule the device to be added using an explicit time (such as “9:00 pm”). Note that scheduling works properly if you specify relative time (such as “2 hours”).
DE13362	A rogue with an IP address that is a identical to that of an existing rogue is automatically deleted as a duplicate.
DE13400	An issue exists when attempting to delete certificates that are imported from an Aruba controller. Instead of deleting, AMP requests the user to reapply the configuration. A current workaround is to add a new entry to the **Device Setup > Certificates** page, then change the override on **APs/Devices > Manage** page to reference the correct certificate, and push the configuration.
DE13401	Users cannot currently edit certificates that are imported.
DE13406	In some cases, existing valid certificates that are signed may be replaced by self-signed certificates.
DE13414	Some radio counter data may be lost in “create_group_dump.”
DE13427	An issue exists that results in an “Access Denied” message when attempting to export devices events to CSV from the **APs/Devices > Monitor** page.
DE13443	An issue exists with AP names in VisualRF floor plans. If you change the name of an AP after adding it to a floor plan, the AP name does not change in the VisualRF UI.
DE13447	The following issues can occur for customers who install or upgrade AMP on an existing CentOS 6 system (ie. not installed by the AMP iso): • Upgrading “glibc” can fail if “kernel-headers” is not installed. • Upgrading “libxml2” can fail if “libxml2-python” is installed. • Upgrading “dbus-libs” can fail if “dbus” is installed.

www.arubanetworks.com

1344 Crossman Avenue
Sunnyvale, California 94089

Phone: 1-800-WIFI-LAN (+800-943-4526)
Fax 408.227.4550

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