

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

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## What’s New in This Release

### Authentication

#### Authentication with LDAP

AMP users can be authenticated using LDAP in addition to TACACS and RADIUS. This option is configurable on the **AMP Setup > Authentication** page. When enabled, users can specify the primary and secondary host name and port servers, the connection type, the key and role attributes, and the bind password. This implementation also supports verification of the server's certificate when the **Connection Type** is specified as **start-tls**. The server certificate can be added on the **Device Setup > Certificates** page. After this is added, users can specify **optional** or **require** in the **Verify Server Certificate** drop down menu.

More information about LDAP authentication can be found in [RFC 4513](#).

#### Authentication Priority

Local and remote authentication priority order is now user selectable. If **Local** is selected, then remote authentication will only be attempted if the user is not present. If **Remote** is selected, then the local database is searched if authentication on the remote server fails. The order of remote authentication is RADIUS first, followed by TACACS, and finally LDAP.

### Recurring Configuration Changes

Users now have the option to schedule configuration options (such as disabling radios) as recurring. Scheduling provides a way for you to inform users on your network of upcoming down-time and helps with planning tasks such as upgrading. Click on **Save and Apply**, **Import Settings**, or **Reboot** on the **APs/ Devices > Manage** (for device maintenance) or on the **Groups > Basic** page (for group maintenance) to view a prompt for setting the changes as recurring.

### Configurable Client Diagnostics

The thresholds used for Client diagnostics are now configurable. Select a connected client from the **APs/ Devices** page to view the client. Navigate to the **Diagnostics** tab, and click the **Thresholds** button on the lower-right corner of the page to adjust the threshold values for **Good** and **Fair**. The new values will be applied globally to diagnostic views for all other AirWave user roles.

## Suppressing Alerts if the Upstream Device is Down

A new setting available on the **Device Down** trigger suppresses alerts if the upstream device is down. The behavior of existing triggers is preserved upon upgrade to 7.5, but the setting is enabled by default for new triggers. AirWave users can combine the new setting with the **Minutes Down** threshold to allow enough time for AirWave to determine the state of the upstream device.

## Improved “Replace Hardware” Workflow

An improved **Replace Hardware** workflow makes it easier for AirWave users to find a new installed AP and to select a replacement device for a Down AP. Users are presented with a list of devices in AirWave that match the name or IP address of the device to be replaced. The workflow also offers users the ability to select any device in the **New Devices** list or in the current folder or group.

A **Replace Hardware** button has been added to the **AP/Devices > New Devices** page and in the **APs/Devices > Manage** page for a single device. In addition, users can select multiple devices to manage by clicking on the **Modify Devices** link in the **AP/Devices > List** page. The **Replace Hardware** button is included in this form so that users can replace hardware for multiple new or down devices at once.

If only one device is selected AMP provides an option to select the replacement device. When multiple devices are selected, AirWave attempts to match the replacement device for each selected device based on the Hostname/IP Address of the device to be replaced. Note that the Hostname/IP Address must match in order for the hardware replace to be successful.

## MAC Address Search Enhancements

MAC address searches initiated from the **Full Search** screen no longer require colons, and searches will match on substrings. For example, searching for ‘ABCD’ will now return matches that contain ‘AB:CD’ as well as ‘A:BC:D.’ If desired, delimiters other than colons can be used, such as ‘A.B.C.D’ or ‘A-BC-D.’

## Noise Floor Trigger

Added a new **Noise Floor** trigger. Users can specify a dBm threshold and timer value, and the trigger will send an alert if the noise floor is greater than the specified value for the specified period of time.

## Configurable Mail Relay Server

Users can now configure a single relay host for the embedded mail server on the **AMP Setup > General > Additional AMP Services** page. If “**Use embedded mail server**” is Yes, then a “**Mail relay server**” field displays along with a text input field for the relay host. This optional field accepts a single, valid host name or IP address. If the user does not enter a relay host, the default is to use the postfix configuration in which **AMP** tries to deliver mail directly.

## Additional Localization Support

The AirWave login screen now provides the following additional languages.

- Dutch
- French
- Spanish
- Italian
- Korean
- Turkish
- Traditional Chinese

AMP will remember the selected language until you log out and select another. Within the UI, a limited set of elements have been localized.

## New Diagnostics Graph

The 7.5.4 release introduces a new graph on the **System > Performance** page. The graph shows the current number of Web server connections and the current number of database connections over a period of time. This new graph provides better visibility into errors that may occur due to Web server connection limits.

## Changes

Changes to AMP were added in the following general categories:

- “Browser Updates” on page 3
- “VisualRF Enhancements” on page 3
- “Platform Enhancements” on page 3
- “Aruba Enhancements” on page 4
- “Aruba AirMesh Enhancements” on page 5
- “Aruba Instant Enhancements” on page 4
- “Cisco Device Support” on page 5 “Security” on page 6

### Browser Updates

Support for IE 7 has been deprecated in this release. Users are encouraged to upgrade their browsers to newer versions of Internet Explorer. A complete list of supported browsers is available in the *AirWave 7.5.5 User Guide*.

### VisualRF Enhancements

- When matching a new planned device with a managed device, the **Match With Managed Device** window now allows you to search managed devices based on the device’s **Group** or **Folder**.
- When planning a new region, users can now specify the AP to Sensor ratio. In prior versions of VisualRF, this was hard coded to 4 APs per sensor.

### Platform Enhancements

- New installations of AirWave are built on the CentOS 6.2 platform. Installs performed on Red Hat Enterprise Linux 6.2 are also supported.



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In 7.5, migration from a 5.x install to 6.2 is not required, but 5.x support will end in a future release. To upgrade to CentOS 6.2, back up your AirWave server to a safe location, and then do a clean installation from the AirWave ISO that includes CentOS 6.2 (7.5 or higher). After CentOS 6.2 is installed, you can restore your AirWave backup. Refer to the *AirWave 7.5 User Guide* for information on backing up and restoring AirWave.

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- A new command was added to the **Run a command** drop down menu on the **Clients > Client Detail** page:  

```
show datapath session table <ip_address>
```

This command replaces the `show datapath session | include <ip_address>` command.
- When the name of a device is changed under the **Modify Devices** window on the **AP > Manage** page, the device’s check box is automatically selected.
- The table on the **APs/Devices > List** page can now be filtered by the **Type** and **Floor Plan** columns.
- The **Inventory Report** now displays a count of devices running each version of firmware. In addition, the existing **Firmware Version Summary** section was renamed **Model/Firmware Version Summary**. This summary now displays the manufacturing model information in addition to the firmware version.

- When e-mailing an **Uptime Report**, users can now select whether the sort order should be based on the lowest uptime or the highest.
- An option is provided under **AMP Setup > General > Additional AMP Services** to configure a collection of syslog messages and traps. Customers who are concerned about the effect that syslog collection may have on performance of their AirWave server can either adjust how their controllers are configured to send data or they can disable processing the data in AirWave. Please contact AirWave customer support for more information on how to change this setting.
- Improved performance speed-up for load times of the Aruba controller audit pages.
- A new setting is available for specifying the number of days that pass before expiring unapplied changes that are stored in the AirWave database. It is not uncommon for customers to perform multiple configurations before applying the changes, and each of those unapplied changes remains as a row in the database. This results in a much slower experience when the changes are finally applied. Allowing users to configure the number of days before expiring unapplied changes helps to clear out orphaned change sets and provides a more seamless experience when applying changes. Please contact AirWave customer support for more information about configuring this new setting.

## Aruba Enhancements

- The SSH port for Aruba controllers is now configurable on the **APs/Devices > Manage** page.
- Added support for the wlsxNUserEntryAuthenticated trap from Aruba devices for client-role and IP address information.
- Support has been added for the following devices:
  - Aruba AP-93H
  - Aruba AP-104
  - Aruba S2500 Mobility Access Switch
- AirWave users can upload and manage certificates as part of the desired configuration for Aruba physical and virtual controllers. Certificates can be uploaded on the **Groups > Certificate Detail** page. PEM, DER, PKCS#7, PFX, AND PKCS#12 are supported.
- Added support for configuring the new AOS User Derivation Rule attribute 'dhcp-option' starting with 6.0.1.0. This is available from **Device Setup > Aruba Configuration** when adding a new User Rule.
- An **Auto Detect** option is now available in the **AP Group** drop-down menu when a user authorizes Aruba thin APs at the group level instead of globally and then selects a different AP Group per AMP Group. This new option is especially useful for users who perform configurations at the group level instead of globally and for users who set the name and AP group directly on the controller, as the information is read from the device.
- Active SSIDs for Aruba radios now display on the **APs/Devices > Monitor** and **APs/Devices > List** pages as well as in the **Inventory Report**.

## Aruba Instant Enhancements

- Added support for Aruba Instant 6.1.3.1-3.0.0.0 (Titan release)
- Extended support for the following features in the **Aruba Instant** template:
  - VPN Profile
  - DHCP Profile
  - OpenDNS Profile
- AirWave users can upload and manage certificates as part of the desired configuration for Aruba physical and virtual controllers. Certificates can be uploaded on the **Groups > Certificate Detail** page. PEM, DER, PKCS#7, PFX, AND PKCS#12 are supported.

## Aruba AirMesh Enhancements

AirMesh enhancements for 7.5 fall into one of two categories: Monitoring and Configuration.

### AirMesh Monitoring

- New AirMesh products were released in March 2012 with the new bootloader “APBoot <ver>” label, which is consistent with the other Aruba APs. AirWave helps to identify this new from the old SKUs (such as “Redboot <ver>”) by displaying the bootloader information now on the **APs/Devices > Monitor** and **APs/Devices > List** pages as well as in the **Inventory Report**.
- AirWave can now automatically discover other mesh nodes in the same mesh cluster.
- AirWave warns the user if AirMesh APs in a group are not organized by mesh ID. A message will display on all of the **Group** pages if the APs are not organized by the mesh ID.
- It is possible to discover orphan nodes from AirWave. User can click on the **Orphan Recovery** button on the **APs/Devices > Monitor** page to recover the orphaned node from the neighboring node. AirWave runs the orphan recovery from the last known neighbor of that node.
- Added support for quick links used for fetching troubleshooting information related to AirMesh APs, radios, and clients. The following commands have been added.
  - AP Monitoring commands:
    - `show mesh candidates`
    - `show mesh links`
    - `show mesh neighbors`
    - `show mesh node-list`
    - `show mesh portals`
    - `show mesh route`
    - `ping`
    - `traceroute`
  - Radio Statistics commands:
    - `show interface dot11radio <radio_index> [bss | (sta <all>)]`
    - `show client-list stats dot11radio 0`
    - `show client mac <mac_address>`
- AirWave added support for AC/DC variants of MSR-200/AP-175 and MSR-4000 devices.

### AirMesh Configuration

- AirMesh devices can be configured using templates. AirWave automatically adds a template for the first AirMesh AP in a group. After an AP import, some values will be retrieved by SNMP, and the template will be written to a file in the AMP FTP server. The flow of the configuration push is done via FTP. As such, upon completion, the AP will get the configuration by FTP. The configurations are pushed using CLI commands.
- AMP warns the user if AirMesh APs attempting to upgrade or push configurations lack write permissions. The **Image Upgrade Log** and **CLI Extension Log** are now retrieved from the AirMesh AP upon completion of the upgrade and CLI execution. The logs are stored in **ap.log**.
- AMP now automatically restarts the FTP server during an AirMesh configuration push or upgrade.

## Cisco Device Support

Support was added for the following Cisco devices in 7.5.4:

- WLC: 7500
- LWAPP: 600, 3600, AP801

- ISR: 881, 881G, 891, 1941
- IOS AP: AP801

In addition, monitoring support was added for 7.2 Cisco WLC firmware.

## Security

The following packages were updated with security-related fixes:

- **libpng:** <https://rhn.redhat.com/errata/RHSA-2012-0523.html> (libpng-1.2.10-17.el5\_8 and libpng-1.2.49-1.el6\_2)
- **httpd:** <https://rhn.redhat.com/errata/RHSA-2012-0323.html> (httpd-2.2.3-63.el5\_8.1)
- **kernel:**
  - <https://rhn.redhat.com/errata/RHSA-2012-0350.html> (kernel-2.6.32-220.7.1.el6)
  - <http://rhn.redhat.com/errata/RHSA-2012-0571.html> (kernel-2.6.32-220.17.1.el6)
  - <https://rhn.redhat.com/errata/RHSA-2012-0690.html> (kernel-2.6.18-308.8.1.el5)
  - <https://rhn.redhat.com/errata/RHSA-2012-0743.html> (Cent 6: kernel-2.6.32-220.23.1.el6)
  - <https://rhn.redhat.com/errata/RHSA-2012-0721.html> (kernel-2.6.18-308.8.2.el5)
  - <https://rhn.redhat.com/errata/RHSA-2012-1061.html> (kernel-2.6.18-308.11.1.el5)
  - <https://rhn.redhat.com/errata/RHSA-2012-1064.html> (kernel-2.6.32-279.1.1.el6)
- **openssl:**
  - <https://rhn.redhat.com/errata/RHSA-2012-0060.html>
  - <https://rhn.redhat.com/errata/RHSA-2012-0699.html> (Cent 5: openssl-0.9.8e-22.el5\_8.4; Cent 6: openssl-1.0.0-20.el6\_2.5)
- This version of AMP introduces Java security fixes. Updates for the Firefox browser (jre-1.6.0\_27-fcs) and AMP have been implemented (jre-1.6.0\_19-fcs). Refer to the following for more information:
  - <http://www.oracle.com/technetwork/java/javase/6u27-relnotes-444147.html>
  - <http://www.oracle.com/technetwork/java/javase/itanium6u19-137919.html>

## Resolved Issues

Table 1 below lists resolved issues in AirWave 7.5.5:

**Table 1** Resolved Issues in AirWave 7.5.5

ID	Description
DE11651	VisualRF now includes the option to configure external antenna orientation for the Aruba AP175 device.
DE12373	Added new MIB entries for S3500, version 7.1.4.0 build 34027: <ul style="list-style-type: none"> <li>• wlsxIfStateChangeTrap</li> <li>• wlsxLicenseClientExpiry</li> <li>• wlsxLicenseServerExpiry</li> <li>• wlsxStackIfStateChangeTrap</li> <li>• wlsxStackTopologyChangeTrap</li> </ul>
DE12470	The Replace Hardware feature now allows you to replace Cisco devices with Aruba devices.
DE12489	Fixed an encoding issue that caused VisualRF to show an AP as “down” when the AP was in fact “up.”
DE12536	Fixed an issue that caused RAP whitelist changes to not be pushed if the thin APs happen to go down on AMP and get stuck in the configuration import state.
DE12548	Updated kernel (kernel-2.6.18-308.11.1.el5). See the <a href="#">Security</a> section of this document for more details.
DE12549	Updated kernel (kernel-2.6.32-279.1.1.el6). See the <a href="#">Security</a> section of this document for more details.

**Table 1** *Resolved Issues in AirWave 7.5.5 (Continued)*

ID	Description
DE12566	When updating AP Groups from <b>Modify Devices</b> , the previous AP Group name now displays on the confirmation page.
DE12569, DE12580	Fixed an issue in which only a single Thin AP in a group was updated during an LWAPP AP Groups update.
DE12499, DE12593	In VisualRF, fixed an issue in which the DWG Convert process resulted in 100% CPU usage.
DE12598	In VisualRF, fixed an issue that caused overlays (heat maps, speed, etc.) failed to display for Cisco 881W, 881GW, and 891W devices.
DE12621	Fixed an issue that resulted in an error when attempting to add Cisco AP Group a group configuration.
DE12622	Fixed an issue in which an existing local controller was discovered again after upgrading, resulting in a duplicate record.
DE12623	Fixed an issue that caused an upgrade from 7.4.0 to 7.5.3 to fail. This occurred when AMP attempted to rename a report and came across an AMPLink object.
DE12630	Fixed an Instant issue that caused configurations to be built with invalid IP addresses.
DE12667	Upgrading from 7.5.3 to 7.5.4 no longer fails with an RRD cache error.
DE12669	Fixed an issue that cause configuration pushes to fail when attempting to modify a read-only value.
DE12711	The <b>Network-wide Client Inventory</b> and <b>Network-wide Client Session</b> report definitions no longer incorrectly include a <b>Matching</b> option.
DE12719, DE12422, DE12534	Fixed an issue that occasionally caused gaps and/or missing information in the Utilization and Goodput graphs for an AP radio.
DE12723	Fixed an issue in which the Group display options from the master controller global group were not inherited by the subscriber group on MAMP. In addition, the <b>Select devices in this group</b> link is no longer visible for the remote Global group and the subscriber group.
DE12725	Fixed SNMPv3 polling issues that occurred when a Primary device would go down. When the Secondary switch becomes the Primary, the switch role now indicates this properly, and this new Primary can now be polled.
DE12766	Fixed an issue that caused a client-count discrepancy. The number of clients on the <b>Groups &gt; List</b> page now matches the number of clients on the <b>Home &gt; Overview</b> page <b>Clients</b> chart. Note that when synching these values, you may experience a 5- to 10-minute latency.
DE12781	In VisualRF, Dell PowerConnect W model access points now display correctly in the device catalog.
US8344	In Visual RF, Cisco 881W, 881GW, 891W, 1941W ISRs are no longer treated as APs, and Cisco SRE Module for 1941 ISR is no longer treated as a WLC.

Table 2 below lists resolved issues in AirWave 7.5.4:

**Table 2** *Resolved Issues in AirWave 7.5.4*

ID	Description
DE12161	Fixed a error that occurred when two duplicate physical interfaces existed on the same switch. In this scenario, one of the interfaces had the proper settings, and the other showed a mismatch.
DE12301	Fixed an issue in which AMP failed to retain “Channel,” “Noise,” “Power,” and “AC/Phy Error” data after performing <b>Replace Hardware</b> .
DE12302	Fixed an inconsistent floor-plan-import issue in VisualRF. When importing a floor plan, exporting the plan, and then reimporting, the second import was occasionally incomplete.
DE12347	Updated kernel (kernel-2.6.18-308.8.2.el5). See the <a href="#">Security</a> section of this document for more details.
DE12355	Fixed a PCI 1.1 Compliance issue that occurred with IAP devices. For these devices, the <b>Daily PCI Compliance Report</b> no longer result in a “Device is not configured by AMP or device configuration is not audited by AMP yet” message. In addition, the details for the status no longer show an “Unable to Determine” message.

**Table 2** Resolved Issues in AirWave 7.5.4 (Continued)

ID	Description
DE12371	The e-mail output for custom reports no longer contain orphaned entries. This output now matches the report that is generated in AMP.
DE12377	AirWave removes Machine Authentication users created by AOS with no role. Note that Machine Authentication entries are CACHED entries created by AOS when a machine does a pre-user-auth machine login to the controller. These users are not created manually or by an external service.
DE12378	Fixed an issue with the custom Capacity report. This report no longer loads slowly, and exporting this report now works correctly.
DE12388	When AirWave attempts to auto detect a language during login, the default for the “ZH-TW” language setting now correctly points to Traditional Chinese rather than Simplified Chinese.
DE12400	Updated kernel (kernel-2.6.32-220.23.1.el6). See the <a href="#">Security</a> section of this document for more details.
DE12407	Fixed an issue in which configurations failed to be pushed because the Virtual Controller’s “all_aps_have_been_read” flag was set to 0. AMP changes this column from 0 to 1 for a swarm to ensure that configurations are pushed to existing APs when upgrade AMP.
DE12426	The Unused Ports histogram in custom reports now displays properly.
DE12453	In VisualRF, AP135 now displays in the <b>Add Planned AP</b> dialog box for the <b>Sensor</b> device type.
DE12460	Fixed an issue in which AMP pushed incorrect radio antenna gain information to the controller for AP 134. In this particular case, AMP was configured to push radio antenna gain of 802.11bgn radios to “5” and 802.11an radios to “3.” The result, however, was that AMP had reversed these configurations.
DE12469	ACLs pushed from AirWave are now configured properly. AirWave no longer issues a “no” for “rule” commands.
DE12562	Fixed a reboot issue that occurred when multiple devices were selected to be modified from the APs/ Devices List page. In this case, when the controller was in Monitor mode, and the AP was in Managed mode, choosing <b>Reboot</b> resulted in AMP events claiming ‘Rebooting’, but no actual action was being performed.
DE12572	On the Master Controller, the <b>Groups &gt; List</b> page no longer indicates that groups defined on the MC groups are ‘Local Groups.’
DE12575	When reviewing the AP_list.xml file on a Cisco 600 LWAPP AP, the “Display Transmit Power” value is no longer missing for <radio index=”2”>.
US8283	A new graph was introduced on the <b>System &gt; Performance</b> page that displays number of Web server connections and the current number of database connections over a period of time. See the <a href="#">New Diagnostics Graph</a> section for more information.
US8712	Added support for additional Cisco devices. See the <a href="#">Cisco Device Support</a> section for more information.

**Table 3** below lists resolved issues in AirWave 7.5.3:

**Table 3** Resolved Issues in AirWave 7.5.3

ID	Description
DE12302	Floor plans exported from VisualRF Plan and imported into their VisualRF on AMP properly display all required APs, switches and building floors. This resolves an issue where some parts of the floor plan would not appear properly after importing into VisualRF.
DE12838	Fixed an issue with the PopulateFromSNMPPoll migration process. For some deployments, the entire migration can take multiple hours. As a result other processes were unable to begin or continue while the migration was being run. This migration is now divided into multiple transactions, so other process now need only wait until a portion of the migration process is complete before continuing.
DE12386	When upgrading to 7.5, remote APs no longer mismatch after the server comes back online. This occurred because the function controlling the configuration for remote AP authentication toggled to “No” (NULL) during the upgrade process.



Table 4 below lists resolved issues in AirWave 7.5.2:

**Table 4** Resolved Issues in AirWave 7.5.2

ID	Description
DE12256	A VC IP is required in order to enable the Instant “Dynamic RADIUS Proxy” feature. A new error message displays when a user attempts to push a configuration in which the Instant Dynamic RADIUS Proxy feature is enabled, but a VC IP is not provided.
DE12259	When a radio is in Mesh mode and has active SSIDs, the radio will display with a “Mesh and Access” role in the AP Monitor page. In addition, the client count now displays correctly.
DE12265	For Aruba controllers that are part of a Master/Local configuration, the Master Controller ID is now shows on the Local Controller’s monitoring page along with the Master Controller IP.
DE12289	When a user selects the “XML (XHTML) export” link after running a report, the report now displays correctly in a new tab.
DE12291	When a user mouses over a Campus name, Building name, or Floor Plan name in VisualRF, non-UTF-8 characters now display correctly at the top of the pop-up boxes.
DE12294	Updated kernel (kernel-2.6.18-308.8.1.el5). See the <a href="#">Security</a> section of this document for more details.
DE12295	Updated openssl (openssl-0.9.8e-22.el5_8.4 and openssl-1.0.0-20.el6_2.5). See the <a href="#">Security</a> section of this document for more details.
DE12300	Fixed a “pre-upgrade check” issue in the reporting of disk space. In some cases, an incorrect value was reported for the estimated disk space size when determining whether enough disk was available to upgrade AirWave.
DE12314	Fixed an error that occurred when attempting to disable LWAPP APs. The “Disable” setting is now pushed correctly.
DE12327	When selecting or viewing APs in VisualRF, Dell APs now display with a “PowerConnect W-AP” label that prepends the model number.
DE12336	AP 93H BSSIDs are now collected when added to AMP or when the AP is audited. Not having the correct BSSIDs prevented the users from showing up in AMP. (There is a calculation method for BSSIDs done in AMP for regular APs. For APs that have at least 1 radio and at least 2 wired ethernet ports, the AMP must get the BSSIDs from the controller - these SSIDs can't be calculated by any specific formula.)

Table 5 below lists resolved issues in AirWave 7.5.1:

**Table 5** Resolved Issues in AirWave 7.5.1

ID	Description
DE12310	Fixed a regression that in some cases caused confirmation page settings to be applied incorrectly for Aruba profiles.

Table 6 below lists resolved issues in AirWave 7.5.0:

**Table 6** Resolved Issues in AirWave 7.5.0

ID	Description
DE10214	When restoring a backup from the controller into VisualRF, the “Validate” link no longer remains enabled after it has been clicked.
DE10327	AirWave no longer updates the device state from ‘Importing’ to ‘Mismatched’ before the import is completed.
DE10454	Added a warning to the confirmation page when changing a group time zone reminding the user that this change can have an impact on maintenance windows.
DE10479	The Failover server no longer includes a read-only user role.
DE10531	The VisualRF Frequency selection option now works properly for overlay bleed through.
DE10621	On the Master Controller, a confirmation page now displays when you attempt to remove a Managed AMP. In prior versions, AMP was immediately deleted.

**Table 6** Resolved Issues in AirWave 7.5.0 (Continued)

ID	Description
DE10655	When an Aruba Mobility Access Switch is deleted from a stack group, the status message “Deleting Devices in the Background” no longer remains on the page when there are no devices on the ap_monitoring page.
DE10674	In VisualRF, a restart is no longer required to view overlays after importing a controller’s floor plan backup.
DE10685	An Access Denied page no longer displays when attempting to view a rogue detail page from a Master Console using the rogue client report.
DE10707	APs without management mode and whose group has config-audit disabled do not have maintenance windows.
DE10731	On the <b>Clients &gt; Diagnostic</b> page, graphs that contain no data now display with a “No Data Found” message rather than as a empty gap in the page.
DE10744	Empty <b>Channel Utilization</b> and <b>Noise</b> graphs are now hidden in Client Diagnostics view. These graphs will appear when data is available.
DE10751	The <code>remove_duplicate_aps.pl</code> script no longer deletes APs that have an empty Device Serial/Lan MAC/Chassis ID setting. A new option, <code>--delete_null_devices</code> , was created to remove these APs.
DE10784	VisualRF: Users are no longer required to clear their browser cache after upgrading from previous versions of AMP in order to see campuses in the proper location.
DE10798	SNMP community strings are now obfuscated in trap messages instead of being readable.
DE10801	Device override now persists after a VisualRF restart.
DE10810	AMP installations now clear any existing disk partition labels because pre-existing disk labels may cause installations to fail.
DE10849	Fixed an issue in VisualRF that caused the AMP status header and the top-level navigation header to display after resizing a floor plan.
DE10865	When a firmware job fails, links on the <b>Firmware File</b> column of the Firmware details page now points to the correct location.
DE10889	On the controller <b>Monitor</b> page, monitor-only users can no longer view the system event log.
DE10922	Added a <b>CAD Layout</b> panel to the image upload wizard in VisualRF. This new panel includes a checkbox that allows users to toggle on/off Active Layout in the <code>dwgconvert</code> command, which is useful when displaying DWF files.
DE10936	Fixed an issue in which AMP failed to notify the user of a mismatch when a VLAN changed. This occurred when an AP lost power or rebooted. The AP reported on the controller that the VLAN associated with some SSID had changed, and the SSID is now associated with new VLAN. AMP did not display this as mismatch. Instead, AMP showed the SSID with the new VLAN in the manage page without doing any import on the AP or on the controller.
DE10950	AMP no longer allows users to create multiple templates for the same device type with <b>Restrict to this version</b> set to <b>No</b> on both templates. In addition, a <b>Template Firmware Version</b> is required when specifying <b>Restrict to this version</b> .
DE10956	The upgrade script no longer automatically overwrites a pre-upgrade backup. Instead, users who have an existing pre-upgrade backup are prompted whether to overwrite pre-upgrade backup.
DE10964	If an Aruba controller is moved to a new group in AirWave, the Aruba controller AP Group for the controller thin APs is no longer automatically changed as well.
DE10966	Increased the page load speed of the <b>APs/Devices &gt; Monitor</b> pages by relocating audit logs to their own page.
DE10972	For Cisco controllers that do not include support for remote WLANs (prior to firmware version 7.0.116), AMP will not push a remote WLAN profile even though the remote WLAN profile is configured on AMP. In addition, AMP ignores the remote WLAN profile while performing the device configuration audit.
DE11000	When a <b>Device Down</b> trigger is specified for a switch, the trigger no longer sends an alert each time an AP on the switch goes down.
DE11011	The <b>TX Power</b> column on the <b>Wireless Settings &gt; Radios</b> table now shows <b>0 dbm</b> instead of <b>&lt;unknown&gt;</b> when the value of an AirMesh AP radio’s transmit power is 0.

**Table 6** Resolved Issues in AirWave 7.5.0 (Continued)

ID	Description
DE11025	Clients with a signal quality of less than 1 are no longer tracked in the <b>Client Signal Distribution</b> chart.
DE11045	Fixed an issue to speed up the restarting of daemons.
DE11050	Mesh/Overhead BW graph lines no longer display for APs that do not support radio bandwidth fetching.
DE11061	Fixed an issue that caused upgrading to fail with a 'No Disk Space Left' error even when the hardware specs meet the recommendations. AMP now verifies the disk space before starting based on the size of the largest existing database table or the estimated size to migrate a large round-robin database.
DE11075	The <b>Rogues Contained</b> table on the <b>APs/Devices &gt; Rogues Contained</b> page can now be sorted by the "Last Seen" date.
DE11080	The Threshold values available on the <b>Clients &gt; Diagnostics</b> page no longer includes 'Poor' values. Data that matches 'Good' or better falls in the Good category. Data that matches between 'Good' and 'Fair' fall in the 'Fair' category. Anything below 'Fair' is by default considered as 'Poor.'
DE11095	The <b>Aruba License Report</b> now displays information for standalone Aruba master controllers.
DE11096	In VisualRF, the alert that displays for the AP Bandwidth now matches the information that displays in the left-click popup.
DE11102	AirMesh users who lack write permissions now receive a warning message when they attempt to upgrade firmware or push configuration changes.
DE11105	The timeout value for remote authentication in RADIUS, TACACS, and LDAP modes now defaults to 15 seconds. In the event that remote authentication fails, this ensures that the time it takes to log in to AMP with local priority will take less than a minute. Note that this value is not configurable on the UI, but this can be modified with the <code>remote_auth_timeout</code> setting in the <code>seas_config</code> table. Contact technical support for more information.
DE11110	The <b>Inventory Report</b> now shows the correct bootloader and version summary information.
DE11119	Error logging for AirMesh firmware upgrades has been improved.
DE11120	AMP now treats '0' as 'empty' when importing a 0 antenna gain from a device. Because the antenna range is 1-255, a value of '0' would result in a validation error.
DE11121	The <b>Export CSV</b> button has been removed from the <b>System &gt; Syslog &amp; Traps</b> page. This export can be done from the <b>Device Events</b> page within the <b>AP Monitoring</b> and <b>Client Monitoring</b> pages.
DE11122	The "Use DHCP" option is now imported correctly for AirMesh gigabit interfaces.
DE11130	Resolved an issue for under <b>Groups &gt; Cisco WLC Config &gt; Mobility Management</b> , where changes made to the <b>Automatically create mobility group elements for &lt;default mobility domain&gt;</b> setting in the drop down menu were not being recognized.
DE11132	On AirMesh MSR APs, the AP Monitoring page now loads properly when users navigate there immediately after editing an interface.
DE11139	The password in the AirMesh configuration template is now encrypted.
DE11140	When upgrading failover AMP, users with a default role of "Read-Only Monitoring & Auditing" are deleted as is the role itself. This is because non-admin roles cannot be created on failover AMP.
DE11143	All AirMesh MSR2000 devices (PoE, AC, DC) now share the same template.
DE11161	When a device includes more than 1000 clients, the client count that displays in the associated <b>Client Count</b> graph is no longer truncated. (For example, "1420" clients no longer displays as "1.4k" clients.)
DE11165	When you display a floor plan on the <b>VisualRF</b> tab and select the <b>Display &gt; Relations &gt; APs</b> option, the relational lines between APs are no longer retained when you click the page refresh icon (🔄) in the upper right corner of the window.
DE11175	Fixed a VisualRF issue in which the direction of the breadcrumb arrows did not reset. This occurred when locating a whose Host AP resided on another floor, and the user selected the <b>Show Host AP Floor Plan</b> link. In addition, attempting to return to the previous floor resulted in an error.
DE11179	The upper limit for the <b>SNMP Retries</b> setting on the <b>Device Setup &gt; Communication</b> page has changed from 20 to 40. Note that some SNMP libraries still have a hard limit of 20 retries. In these cases, any retry value that is set above 20 will still stop at 20.

**Table 6** Resolved Issues in AirWave 7.5.0 (Continued)

ID	Description
DE11182	The <b>TX Power</b> value now displays correctly on the <b>Manage</b> page for AirMesh MSR4000 APs.
DE11192	The size of the visualrf_msg.log file no longer increases significantly when RTLS messages are included.
DE11202	The <b>Interface</b> tables that displays AirMesh MSR2000 and for MST200 AP now contain the same fields.
DE11209	Changed the way that client connect/disconnect times are collected. Client disconnect time now comes from the payload and not the time of processing the payload.
DE11212	Fixed an issue that caused the TX Power value for an Aruba AP with a role of Spectrum Sensor or AirMonitor to display on the <b>Groups &gt; Monitor</b> page but not on the associated <b>APs/Devices &gt; Monitor</b> page.
DE11218	Fixed a mismatch issue that occurred when AP <b>Longitude</b> and <b>Latitude</b> values ending in '0' were entered correctly on the device but then truncated on AMP during an audit.
DE11235	For mesh APs, which only use FTP for firmware upgrades, the <b>Server Protocol</b> field is now auto-filled when uploading firmware and files.
DE11252	40MHz Intolerance and Greenfield IDS traps now display under the IDS category and show up as IDS failure events rather than hardware traps.
DE11266, DE11270, DE11271	Added support for certificate configuration management for group AOS configurations. Certificates that are added and specified for a group cannot be deleted. For groups that are configured as a Global Group, an override option is now available. Users can select whether a certificate should be pushed using this setting rather than relying on another group's configuration.
DE11268	The "Format," "Type," and "Expiry" columns now sort properly in the <b>Device Setup &gt; Certificate</b> and <b>Groups &gt; Certificate</b> tables.
DE11277	AMP no longer displays a <b>Save and Apply</b> button when no changes are made to maintenance windows.
DE11279	Fixed a potential security issue where arbitrary pieces of AirWave's code could be started by crafting a specific URL.
DE11286	The server protocol for upgrading firmware on mesh APs is now FTP rather than TFTP.
DE11288	Fixed an issue that caused VisualRF to fail to load in IE8.
DE11300	For AirMesh APs, the <b>Orphan Node Recovery</b> button on the <b>AP &gt; Monitor</b> page now only displays when the downed AP has a potential neighbor AP that can be used for recovery.
DE11312, DE11535	Fix the importing of aruba_ap_group for Aruba Thin APs. AMP now allow users to import aruba_ap_groups that may not exist as objects on AMP. When the fields are cleared out for import settings, then include aruba_ap_group is included. If no aruba_ap_group is successfully retrieved for the AP, then aruba_ap_group is now set to Default.
DE11314	The <b>View Running Configuration</b> link on the controller audit page now displays the AOS running configuration details rather than a normal audit configuration.
DE11332	AMP now warns the user that a reboot is required in order to apply changes to a template.
DE11337	NMS servers added by a user with an AMP Administrator role can now be used by any other user with a role definition that is specified as AMP Administrator.
DE11345	The email output for custom reports now matches the output generated by the report in AMP. Additional headers that do not display in the report will not display in the email output.
DE11351	This version of AMP limits the amount of memory usage on web server processing in order to prevent memory overflow.
DE11353	When a radio interface is shut down, the AMP no longer displays "shutdown" twice, causing a mismatch.
DE11356	The time range that displays within the graphs on the <b>Clients &gt; Connected</b> page now match the times and timezones that display in the table below the graphs. In prior versions, the graphs displayed the server timezone, and the table below displayed the client timezone. All times that display now represent the server timezone.

**Table 6** Resolved Issues in AirWave 7.5.0 (Continued)

ID	Description
DE11384	When changing the AP group name that includes a Cisco LWAPP AP, the LWAPP AP now reboots automatically so that the change can take effect immediately. Users who do not want the AP to reboot automatically can take advantage of AMP maintenance windows.
DE11415	An error message now displays on the <b>Home &gt; Overview</b> page for failed migration jobs.
DE11422	Fixed an issue that prevented users from using non-ASCII characters (for example, Chinese characters) in the “Notes” and “Down Status Message” fields on the <b>APs/Devices &gt; Manage</b> page. Inputting non-ASCII characters no longer results in an error message.
DE11447	Support has been added for automatic static IP assignment for AirMesh devices on a per-group basis. An interface on an AirMesh AP that is specified as ‘management’ and that is using DHCP will be assigned a static IP.
DE11464	On the <b>APs/Devices &gt; Monitor</b> page for AirMesh devices, radios with a channel width of either 40plus or 40minus now display as 40MHz.
DE11482	Fixed an issue in VisualRF in which a change to the transmit power of a planned AP was not reflected when viewing the heatmap overlay. Note that this issue only occurred when the <b>Overlay Style for Heatmap</b> was set to <b>Vector</b> .
DE11496	After creating two walls in VisualRF, users can now drag one wall and connect it to the other. In prior versions, attempting to drag a wall sometimes resulted in the wall remaining attached to the mouse even after clicking on the mouse.
DE11498	Scrolling while the mouse is outside of a VisualRF background no longer results in an image zoom.
DE11540	The way that information displays on the <b>System &gt; Configuration Change Jobs</b> page has been improved. Instead of displaying the entire message with a horizontal scroll bar, messages that include more than 75 characters are now truncated, and the user can click on the tooltip to view the entire description.
DE11553	On the <b>APs/Devices &gt; Monitoring</b> page, fixed an issue that caused CSV exports to return blank information for switch members and WiFi tag lists.
DE11593	Fixed a timeout issue that caused ConfigVerifier to display a “Too many errors...” message in management_status_message while auditing controllers on an AirWave server.
DE11609	When creating AOS WLANs using the WLAN wizard, AMP will only associate the WLAN with the default Aruba AP Group if the current user has visibility into that group. Users who do not have the appropriate privileges must now explicitly assign a WLAN to an AP Group. (Note that this behavior only applies to Global Config mode.)
DE11627	LAN IP configuration is now supported for AirMesh APs. In addition, the AirMesh interface netmask is now configured in IP format rather than with a mask length.
DE11658	“Uninitialized value” errors no longer display in the Web Server log (/var/log/httpd/error_log file).
DE11685	Only ASCII characters can be entered as SSH/Telnet credentials.
DE11729	A link to the VisualRF diagnostics report file is now hidden on <b>System &gt; Status</b> page for the master controller, the failover server, and AMPs with <b>Display VisualRF</b> specified as <b>No</b> .
DE11767	For Aruba controllers, enum values that are unsupported (e.g. usb-type ‘ether-lte’ on v6.1.3.0) are no longer pushed. In addition, the audit page indicates that the value will not be pushed to the controller by including a ‘<not supported>’ tag next to the desired value. These values that are not pushed previously displayed as <unset>.
DE11813	Fixed an issue in which the Failover AMP did not take over after a watched AMP database stopped responding. Now, when an authentication is attempted while the database is busy, a “503 (Service Temporarily Unavailable)” message will display. In addition, the Failover AMP will retry logging in to the Watched AMP as long as the database is busy and until the missed polls threshold is met. After this value is met, a failover will be initiated.

**Table 6** Resolved Issues in AirWave 7.5.0 (Continued)

ID	Description
DE11814	<p>Added a new “Auth” traps category and moved the following auth traps from IDS Events to Auth:</p> <ul style="list-style-type: none"> <li>● wlsxNAuthServerReqTimedOut</li> <li>● authenticationFailure</li> <li>● wlsxAuthMaxAclEntries</li> <li>● wlsxAuthMaxBWContracts</li> <li>● wlsxAuthMaxUserEntries</li> <li>● wlsxAuthServerIsUp</li> <li>● wlsxAuthServerReqTimedOut</li> <li>● wlsxAuthServerTimedOut</li> <li>● wlsxNAuthMaxAclEntries</li> <li>● wlsxNAuthMaxBWContracts</li> <li>● wlsxNAuthMaxUserEntries</li> <li>● wlsxNAuthMaxXsecUserEntries</li> <li>● wlsxNAuthServerAllInService</li> <li>● wlsxNAuthServerIsDown</li> <li>● wlsxNAuthServerIsUp</li> <li>● wlsxNAuthServerTimedOut</li> </ul>
DE11885	<p>Fixed an issue in which AMP was slow to bring up an Aruba controller. This occurred when the controller included good SNMP credentials but no CLI credentials or when the controller did not contain information required for the WMS Offload provisioning.</p>
DE11898	<p>Fixed an issue that caused new_config to be incorrectly deleted. This impacted APs that included scheduled recurring configuration jobs. When clicking <b>Apply Changes Now</b> through the <b>Configuration Change Jobs</b> page, the changes were applied correctly, but the scheduled changes were deleted.</p>
DE11991	<p>Fixed an issue that caused Forward Mode, Sig. Qual., and Ch BW values to display incorrectly on the <b>Clients &gt; Client Detail</b> page.</p>
DE12006	<p>When replacing hardware, if a user does not have access to a folder, then devices in that folder can no longer be seen under the ‘Devices in Group’ section.</p>
DE12024	<p>When changing credentials on a controller, config_verify_failures is now reset for both the controller and its thin APs. As a result, if config verification fails due to bad credentials and the user changes those credentials to correct ones, the configuration for the thin APs can now be verified.</p>
DE12041	<p>Fixed an issue that caused a user-count discrepancy between a folder and an AP within that folder. The updating folder and group RRD rules now only count clients from SNMP polls. This prevents the discrepancy between the AP and Folder/Group client count graphs. Previously, clients processed by traps may have been counted in folder graphs, but not in AP graphs which led to the discrepancy.</p>
DE12058	<p>Fixed a crash in the <b>APs/Devices &gt; List</b> and <b>APs/Devices &gt; Down</b> pages that was caused by a switch on an AMP that was designated as a “standalone” switch_role.</p>
DE12070	<p>Running AP Controller commands without an &lt;apname&gt; will use an &lt;ip_address&gt; instead.</p>
DE12086	<p>Fixed an issue in which IDS events for IAPs failed to appear in AirWave after upgrading.</p>
DE12094	<p>When monitoring interface bandwidth, AirWave checks the calculated bandwidth against the known maximum for that interface. However, if that is missing, then the following values will now be used:</p> <ul style="list-style-type: none"> <li>● For non-802.11n Aruba thin APs, 100 Mbps</li> <li>● For 802.11n Aruba thin APs, 1 Gbps</li> <li>● For all other devices, 10 Gbps</li> </ul>
DE12113	<p>The device “Type” label now displays general device information for Alcatel-Lucent devices on the <b>APs/Devices &gt; Monitor</b> page.</p>
DE12118	<p>Fixed an issue that prevented AirWave from displaying the complete list of clients present on the controller.</p>
DE12144	<p>Fixed an issue in which a wiring closet name change failed to update.</p>
DE12157	<p>Fixed an issue that occurred when emailing a Rogue Containment Report with the <b>Disable AirWave Links</b> option enabled. The Classifying Rule and Location columns still linked the user to the AMP that generated the report. Links are now disabled correctly when this option is selected.</p>

**Table 6** *Resolved Issues in AirWave 7.5.0 (Continued)*

ID	Description
DE12187	Added Alcatel Lucent AP 68 (and 68p) to the VisualRF catalog_repository.xml. These devices are now available for selection and now display heat maps.
US8451	For fresh installs beginning with AMP 7.5, the <b>Use Global Aruba Configuration</b> value on <b>AMP Setup &gt; General</b> now defaults to <b>No</b> . Note that for upgrades to AirWave 7.5, this value will still default to Yes.

## Known Issues

Table 7 below lists known issues in AirWave 7.5.5:

**Table 7** *Known Issues in AirWave 7.5.5*

ID	Description
DE12632	An issue exists with regards to lingering interface data after devices are swapped. When a switch1 is unplugged, and switch2 is given switch1's IP address, the interface data from switch1 still exists.
DE12744	In some cases, the <b>Daily Wireless Network Usage</b> report might not include any data in the <b>Usage</b> graph. This is currently being investigated.
DE12752	When a Management Captive Portal certificate exists on a master controller, a mismatch that cannot be overridden can occur when uploading a different certificate on a local controller.
DE12767	When a radio noise trigger is set for noise levels greater than a certain dBm value, alerts are being sent for values less than the set value. For example, if a trigger is set for values equal to or greater than -70dBm, alerts are still being sent when the noise level falls between -90 and -80dBm.
DE12783	A Device Down alert may be reported even though the reported device was never down. The circumstances under which this behavior occurs is currently being investigated.
DE12789	In some cases, AMP may report that clients are connected to a radio that is actually disabled on the controller.
DE12791	The <b>Daily Network-Wide Network Usage Report</b> and the <b>Daily Network-Wide PCI Compliance Report</b> fail to run/load properly after upgrading to 7.5.3.
DE12792	When a custom name exists for certificates on a controller that does not match the name of the certificate on the desired configuration for a group, attempting to add a new controller and import the configuration can fail.
DE12797	In VisualRF, DWG files that include cross-reference bindings are not supported. Attempting to import these into AMP can result in poor-quality images.
DE12800	An issue exists when creating a global group and allowing subscriber overrides for the Device Type setting. When overrides are allowed on the master controller Group Display options, a configured "copy" of the global group does not properly remove devices that are removed from the master controller group.
DE12811	An issue exists in which the Asynch Logger fails, and AMP stops monitoring devices for approximately one hour. The circumstances under which this behavior occurs is currently being investigate.

Table 8 below lists known issues in AirWave 7.5.4:

**Table 8** *Known Issues in AirWave 7.5.4*

ID	Description
DE12492	A configuration push inconsistency exists. After updating the RADIUS shared secret for a group and then putting the controllers in that group into Manages mode, it is possible that the config will not be pushed to all of those controllers.
DE12503	When upgrading to 7.5.x from a version prior to 7.5, existing devices may show up as "Discovered" after the upgrade.
DE12534	In VisualRF, when an AP acts as both an AP for one radio and a sensor for the other radio, the device will only show up as a sensor. It does not display as an AP.

**Table 8** *Known Issues in AirWave 7.5.4 (Continued)*

ID	Description
DE12571	In VisualRF, an issue exists in which the floor plan page on AMP can display a different number of clients than the VisualRF page.
DE12619	When monitoring a controller, the <b>Modify Devices</b> feature does not work if you attempt to modify devices associated with the controller. Note that this behavior only exists in Internet Explorer.

Table 9 below lists known issues for AirWave 7.5.2:

**Table 9** *Known Issues in AirWave 7.5.2*

ID	Description
DE12092	A Service Type of “arp” is an available option in AirWave for ArubaConfig, but this setting is not supported on the controller.
DE12288	Clicking on the <b>Help</b> link in AirWave may not open to the correct location in the <i>User Guide</i> PDF file. If you use IE or Firefox, then your browser must be set up to open Adobe PDF files within the browser. If you use Google Chrome, then you must use the Adobe Reader plugin in order to enable this support.
DE12315	In VisualRF, when the application window is maximized, the client history playback widget displays.
DE12329	AirWave removes Machine Authentication users created by AOS with no role. Note that Machine Authentication entries are CACHED entries created by AOS when a machine does a pre-user-auth machine login to the controller. These users are not created manually or by an external service.
DE12344	In some cases, the <code>snmp_fetcher</code> function can restart multiple times each day, resulting in error messages and an incorrect client count in AirWave.
DE12340	An issue exists with Aruba Instant in which configurations may be built with invalid IP addresses.

Table 10 below lists the known issues for AirWave 7.5.0:

**Table 10** *Known Issues in AirWave 7.5.0*

ID	Description
DE8508	Two different users who do not have visibility into each other’s floor plans can potentially create duplicate floor plans in the same building. The floor plan upload wizard does not check for duplicates in this scenario.
DE9626	Google Earth fails to launch for Mesh APs when using IE8.
DE10667	VisualRF can stop running without warning if it runs out of memory.
DE10674	A VisualRF restart is required in order to view overlays after importing a controller’s FP backup and restoring it to VisualRF.
DE10720	Unexpected behavior can occur when specifying a PDF file as the image upload type in VisualRF. The image may display as blank and/or corrupted. When specifying PDFs, be sure that the PDF was generated from a source file and not, for example, scanned from a printer. Also, be sure to keep the PDF file size as small as possible.
DE10741	Some POE devices that are categorized as Universal Network Devices and that have been up for over 248 days may show up as offline in the Daily Device Uptime report. In addition, while viewing the device directly in AirWave, the device shows the status as OK, though the monitor page will show an ‘out of range for type integer’ message. Attempting to discover and re-add the device results in a continual down/awaiting SNMP contact message. A workaround is to reboot the device before rediscovering it.
DE10786	A limitation in Aruba Instant can result in a mismatch when adding the Instant AP using a template configuration.
DE10791	If you approve a thin AP that already has a roaming client (recently associated to another thin AP), the result may be that the client is double counted for a single polling period.
DE10875	In VisualRF, APs that appear to be placed at a correct location may still result in a “wrong location” error.
DE10892	A limitation in Aruba Instant causes configuration pushes for some VCs to break when the <code>dynamic-radius-proxy</code> command is included in the configuration.



**Table 10** *Known Issues in AirWave 7.5.0 (Continued)*

ID	Description
DE10902	If a virtual controller is added to AMP, taken offline, reset with factory settings, and then re-added using the same initial settings, AMP does not delete the initial, down VC when creating the duplicate. As a result, both VCs will display in the <b>APs/Devices &gt; List</b> page. In this case, the initial VC will show a status of Down, and the APs will migrate to the new VC. A workaround is to select the down device and then manually delete it in the <b>APs/Devices &gt; Manage</b> page.
DE10907	When a virtual controller (IAP1) with a connected Instant AP (IAP2) is discovered in AMP, placed into a group folder, and then brought down, AMP sets the down VC's AMP (IAP2) as the new VC for the cluster. When the original VC (IAP1) is brought up after a factory reset, AMP discovers this AP as connected to the new VC (IAP2).
DE10915	When updating VisualRF APs preferences from within a quick view page ( <b>APs/Devices &gt; Monitor</b> ), a page refresh is required after changing the settings for <b>Preferences &gt; APs &gt; AP Location</b> and <b>Preferences &gt; Navigation &gt; % APs Up</b> .
DE10925	In VisualRF, the site list on the bottom of the page disappears after entering/viewing a floor plan and then refreshing the page in Chrome or Firefox. This behavior does not occur in Internet Explorer.
DE10929	The <b>Clients &gt; Client Detail</b> page currently displays two graphs side-by-side that provide the same information.
DE10959	AirWave is not able to push a 32-character value for <b>Organization</b> to Aruba Instant virtual controllers. The commands of <b>Organization</b> configuration sent from AMP to Aruba Instant are quoted strings because the <b>Organization</b> name may contain blank spaces. Aruba Instant includes the quotes in the length of the string.
DE10975	In some cases after a server upgrade, ICMP ping may not update on the <b>System &gt; Performance</b> page. This issue is still under investigation and may be server related as it is not seen in all environments.
DE10977	When attempting to back up all floor plans in VisualRF using Google Chrome, selecting the <b>Network</b> check box will only enable a backup for all campuses rather than for campuses, buildings, and floors. If you deselect <b>Network</b> and then select it again, all check boxes will be selected. Note that this issue does not exist in other supported browsers.
DE11001	When uploading a new floor plan in VisualRF, the screen may remain blank after the upload is complete. Close the Floor Plan Upload wizard and reload the main page to view the new floor plan.
DE11107	When using IE 8 to launch the VisualRF Image Wizard, the image screen remains blank after the custom background image is uploaded. Images display properly in other supported browsers.
DE11154	VisualRF may need to be restarted in order to see the mesh view.
DE11163	Errors can occur if you make changes to a device in AirWave, leave the confirmation window/tab open, and then make additional changes to that device in another tab. Be sure that all changes are confirmed before opening another tab, or perform all edits within the same tab.
DE11188	The Daily Wireless Network Usage Report may display an error message instead of an empty graph when no graph points are available.
DE11230	Certificates that are added directly on the certificates page rather than through the <b>Global Aruba Configuration</b> option do not display in the <b>VC</b> drop down on the <b>Groups &gt; Basic</b> page.
DE11247	Interfering, non 802.11n objects might not display in VisualRF even when they are shown as Active on the <b>AP/Devices &gt; Monitor &gt; Radio</b> page.
DE11264	A VisualRF floor plan may occasionally show multiple device types with the same MAC address.
DE11309	In VisualRF, be sure to drag new building icons away from the very upper-left corner of the canvas. Failing to do so can cause inconsistent right-click menus to display. Specifically, you may right-click on the building and see options specific for the background/canvas rather than for the building. Note that this does not occur if you move the building away from the upper-left corner.
DE11316	A limitation in Aruba Instant causes a VC to send duplicate payload information to the Events log.
DE11343	Reports do not currently run in parallel, but rather one at a time. As a result, if a report is being run that takes a long time to generate, other reports may not run until that one is completed.
DE11562	In cases where ports are connected with IP phones, and PCs are connected into those IP phones, AirWave can display an incorrect port mode on the switch interface. This is because AirWave detects more than one MAC address communicating through the port and, as a result, marks it as a distributed port even if it is configured as an Access port on the switch.

**Table 10** *Known Issues in AirWave 7.5.0 (Continued)*

ID	Description
DE11594	Moving a large number of controllers from one group to another all at once can take a long period of time or can sometimes fail. If you notice this behavior, we recommend that you reduce the size of your bulk moves.
DE11604	Ignoring mismatches for a large number of controllers all at once can take a long period of time or can sometimes fail. If you notice this behavior, we recommend that you reduce the size of the number of configuration mismatches that you ignore all at once.
DE11705	If the <b>Max-tx-power</b> for an Instant device is configured to be <b>Max</b> (greater than 33), then the value that displays may differ than the value that displays on the AMP audit page.
DE11718	IE 8/9 users may notice broken or missing pie chart images when selecting Print or Print Preview within the browser. If you notice this behavior, one workaround is to add the AirWave IP as a “Trusted Site” in IE. Another workaround is to select <b>Override automatic cookie handling</b> in <b>Internet Options &gt; Privacy &gt; Advanced</b> and then refresh the page.
DE11740	Stacked switches only allow interface editing from the master/primary switch. Currently, information within the audit log is populated based on the interface that is edited. So if a change is made on the member switch interface, the member switch audit log is populated with the change. As a result, users must navigate to that member switch in order to verify the audit log.
DE11754	When the radio mode on a Mesh AP changes from 802.11an 40MHz plus to 802.11ng 40MHz minus, on a portion of the change is reflected on AMP.
DE11757	While logged in as a Helpdesk user, the <b>User Info</b> page provides options for viewing <b>Alerts</b> and <b>Severe Alerts</b> even though Helpdesk users cannot view these alerts.
DE11773	The default value for the Session ACL option is “none” when configuring AP Profiles through the <b>Device Setup &gt; Aruba Configuration</b> page in AMP. The controller ( <b>Configuration &gt; All profiles &gt; AP &gt; AP System Profile</b> ) shows this default value as “ap-uplink-acl.”
DE11835	In some cases, importing older Cisco wireless LAN controller (5.0 or earlier) can result in mismatches for options that do not exist. The root cause is still under investigation; however, these mismatches can be ignored.
DE11838	Newly added devices do not show up in a Quick Search.
DE11851	In some cases, users may be unable to resolve rogue classification mismatches. This is because it is not possible to fix a controller’s rogue classification setting by importing.
DE11889	When adding a region in VisualRF, be sure to specify a region type before drawing the region. An error will occur if a type is not selected.
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 switch updates successfully, but member switches do not. A current workaround is to delete and then re-add the members of the switch stack.
DE11910	Importing from controllers that do not have licenses can result in mismatches that may not be resolved.
DE11945	A web error can occur if you press <b>Restart AMP</b> and the page refresh does not complete before the web server restarts.

**Table 10** *Known Issues in AirWave 7.5.0 (Continued)*

ID	Description
DE11986	In some cases, Device events (traps) can correlate to a client rather than an AP. This can occur, for example, when a RAP-2 device is plugged into a RAP-5 device. In this case, the RAP-2 has its own clients, but will now also appear as a wired client of the RAP-5. Because of the way that device event logging works, when a device event message tied to a particular MAC address is logged, the link from that MAC address on the device event page will always link to the client page associated with that MAC, even if that MAC also happens to be an AP LAN MAC.
DE12004	The graphs shown in wired/wireless up/down pages consider both wired and wireless devices when <b>Expand folders to show all APs/Devices</b> is selected.
DE12017	Using <code>amp_upgrade</code> to perform an upgrade may result in errors. Only <code>start_amp_upgrade</code> is supported for customer use.
DE12029	AP Groups that are configured with the <b>Audit Configuration on Devices</b> option set to <b>No</b> can still view maintenance windows.
DE12047	In <b>AMP Setup &gt; Network</b> , after removing both the Primary and Secondary NTP IP addresses and then entering an IP address in the Secondary field only, the IP will shift to Primary after selecting <b>Save</b> . In addition, <b>Save</b> takes a long time.
DE12098	Clients on a Corvina stack are not aggregated on the primary member.
DE12150	Due to limitations in some web servers, attempting to add hundreds of newly discovered devices to AMP all at once can result in an 'Internal server error' message. We recommend that you add newly discovered devices in smaller batches to avoid this error.
DE12181	The number of clients listed in the <b>Device Info</b> section on the <b>APs/Devices &gt; Monitor</b> page may differ from the number listed in the <b>APs Managed By This Controller</b> section. This can occur because the client data for <b>Device Info</b> gets pulled in from Swarm more frequently than the APListCacher group client polling period.
DE12202	Adding a controller to an AMP twice in succession can cause the controller to fail.
DE12228	In some cases, the Channel Utilization graphs may appear with large gaps. This is currently under investigation and may be due to an incorrect message count in the AMON header.
DE12230	The <code>syncd</code> function will run continually if an MDM server on your AMP is disabled. This loop results because MDMPoller will assume that the next run time is 'now,' while the code in <code>DB::MDMServer</code> returns no information.
DE12271	A symlink is created to <code>svn/mercury/install/amp-centos-upgrade</code> in <code>/root/</code> during installation even though an OS upgrade is not currently supported.
US8466	Emailed reports now have an option to disable links back to the AMP. Note that this does not prevent email clients from determining certain text a hostname or email address and then providing links to those. If you do not want report readers to have access to or knowledge of your network, then be sure to not email any reports that contain hostnames and/or IP addresses.
N/A	Customers running <code>stig.pl</code> should be aware that the 'flash' symlink is now removed to comply with security policy. This will break Aruba Instant deployments as well as the ability to serve firmware from the AMP. Customers needing these features can replace this link, as long as they are aware that they are assuming a security risk by doing so.