

OmniVista 3600 Air Manager 8.2.2.1



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OmniVista 3600 Air Manager 8.2.2 is a software patch release that introduces new features and fixes to issues detected in previous releases. For more information about the features described in the following sections, see the *OmniVista 3600 Air Manager 8.2 User Guide*, *Alcatel-Lucent 8.2 Supported Infrastructure Devices* document, and *Alcatel-Lucent Instant in OV3600 8.2 Deployment Guide*.

Release Overview

- "New Features" on page 4 describes the new features and enhancements introduced in this release.
- "Supported Infrastructure Devices" on page 10 lists new devices supported by OV3600 8.2.x.
- "Resolved Issues" on page 12 describes issues resolved in OV3600 8.2.2.1 and previous releases.
- "Known Issues" on page 24 lists and describes the known issues identified in OV3600 8.2.2.1 and previous releases.

Contacting Support

Contact Center Online	
Main Site	http://www.enterprise.alcatel-lucent.com
Support Site	https://support.esd.alcatel-lucent.com/
Email	ebg_global_supportcenter@al-enterprise.com
Service & Support Contact Center Telephone	
North America	1-800-995-2696
Latin America	1-877-919-9526
EMEA	+800 00200100 (Toll Free) or +1 (650) 385-2193
Asia Pacific	+65 6240 8484
Worldwide	1-818-878-4507

OmniVista 3600 Air Manager 8.2.2 introduces the following features and enhancements:

- "Support for Controller Clusters" on page 4
- "Support for MultiZone Deployment" on page 7
- "OV3600 WebUI Links to HPE Intelligent Management Center" on page 8
- "Greater RF Visibility for Device Managers" on page 9

Support for Controller Clusters

OV3600 introduces support for controller clusters when Alcatel-Lucent AOS-W 8.0.1 becomes available. A switch cluster is a group of up to 12 switches, connected via layer-2 or layer-3, that work together to provide high availability to all their clients and ensure service continuity when a failover occurs. All switches that are part of the cluster are managed by the same Mobility Master.

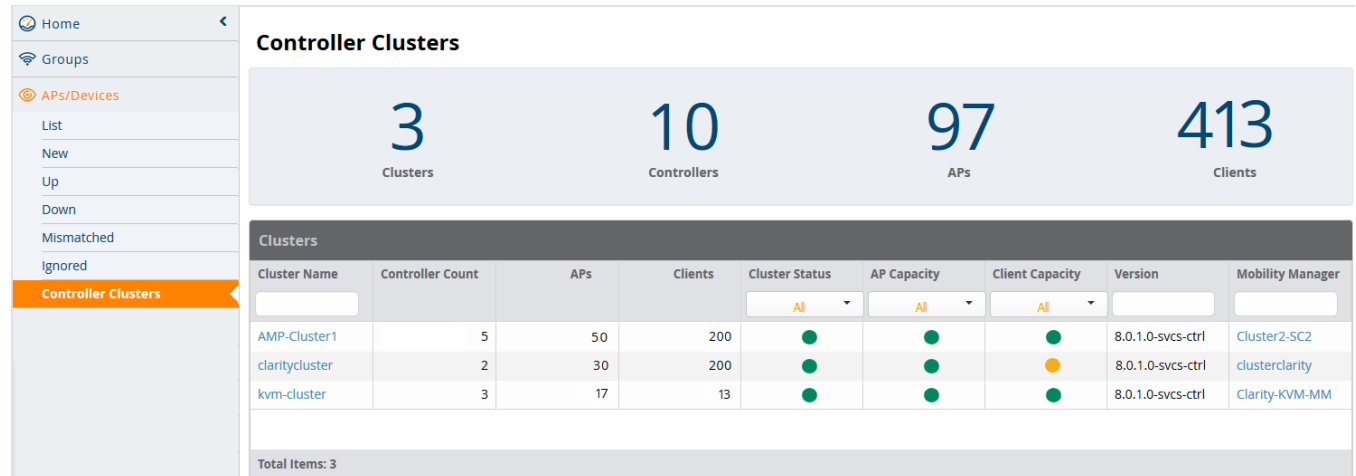


In switch Cluster deployments, Mobility Master and all the switches should be managed from the same OV3600 server.

Cluster Dashboard

OV3600 8.2.2.1 includes a **Home > APs/Devices > Controller Clusters** page in the OV3600 WebUI which displays information about ArubaOS clusters associated to OV3600.

Figure 1: Home > Controller Clusters Page



The **Home > APs/Devices > Controller Clusters** page also includes a **Clusters** table that displays statistics for each cluster group. You can click any table heading to sort the table by that column criteria, or enter a text string into the entry field at the top of any column to filter the table by that value.

Table 1: Clusters Table

Column	Description
Name	Name of the controller cluster.

Table 1: Clusters Table (Continued)

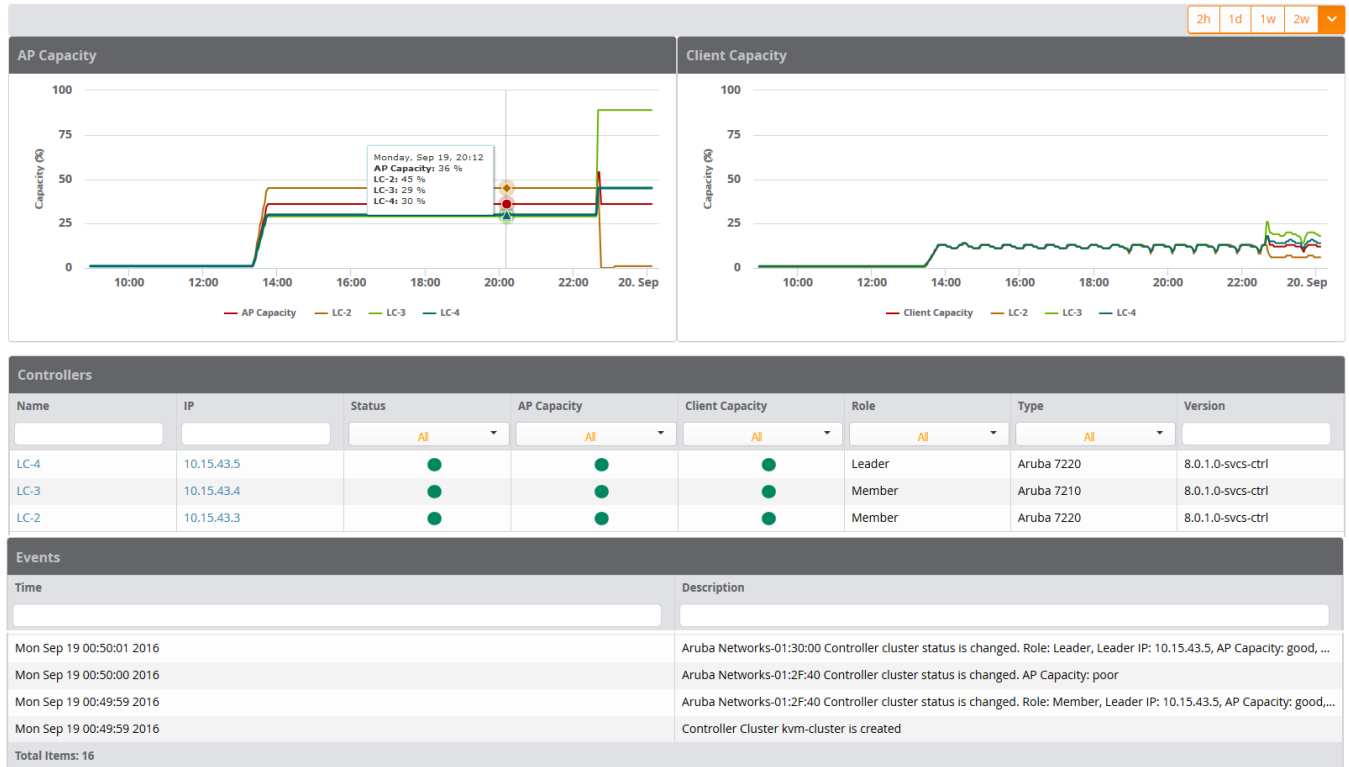
Column	Description
Controller Count	Number of controllers in the cluster.
APs	Number of APs associated to controllers in the cluster.
Clients	Number of Clients connected to controllers in the cluster.
Cluster Status	This column can display one of the following status icons: <ul style="list-style-type: none">● = One or more cluster controller is down● = All cluster controllers are active
AP Capacity	This column can display one of the following capacity icons: <ul style="list-style-type: none">● = Cluster is below 60% AP capacity● = Cluster is between 60% and 80% AP capacity● = Cluster is at greater than 80% AP capacity
Client Capacity	This column can display one of the following capacity icons: <ul style="list-style-type: none">● = Cluster is below 60% client capacity● = Cluster is between 60% and 80% client capacity● = Cluster is at greater than 80% client capacity
Version	Version of AOS-W currently running on controllers in the cluster.
Mobility Manager	IP address of the Mobility Master managing the cluster.

Select any cluster in the **Cluster** table to display a **Cluster Detail** page that includes the following sections:

- AP Capacity Graph
- User Capacity Graph
- Controllers table
- Events Table

Figure 2: Home > APs/Devices > Controller Clusters > Cluster Detail page

Controller Clusters > Cluster Monitoring (kvm-cluster)



Viewing AP Capacity Graphs

The **AP Capacity** graph shows the percentage of a cluster's total AP capacity currently in use, as well as the percentage of AP capacity currently in use on each individual controller in the cluster. Hover your mouse over any section of the graph to view detailed statistics for that point in the graph. To change the time interval displayed in this graphic, click the schedule toolbar above the **Client Capacity** graph.

Viewing Client Capacity Graphs

The **User Capacity** graph shows the percentage of a cluster's total client capacity currently in use, as well as the percentage of client capacity currently in use on each individual controller in the cluster. Hover your mouse over any section of the graph to view detailed statistics for that point in the graph. To change the time interval displayed in this graphic, click the schedule toolbar above the **Client Capacity** graph.

Controllers

The **Home > APs/Devices > Controller Clusters > Cluster Detail** page also includes a **Controllers** table that displays statistics for the controllers in that cluster group. You can click any table heading to sort the table by that column criteria, or enter a text string into the entry field at the top of any column to filter the table by that value.

Table 2: Controllers Table

Column	Description
Name	Name of the controller in the cluster.
IP	IP address of the controller in the cluster.

Table 2: Controllers Table (Continued)

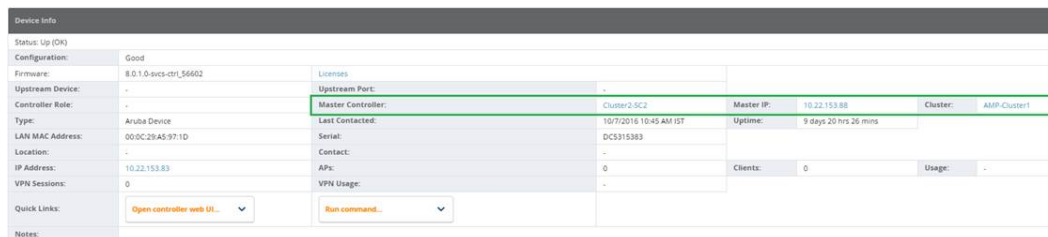
Column	Description
Status	This column can display one of the following status icons: <ul style="list-style-type: none"> ● = The controller is down ● = The controller is active
AP Capacity	This column can display one of the following capacity icons: <ul style="list-style-type: none"> ● = Controller is below 60% AP capacity ● = Controller is between 60% and 80% AP capacity ● = Controller is at greater than 80% AP capacity
Client Capacity	This column can display one of the following capacity icons: <ul style="list-style-type: none"> ● = Controller is below 60% client capacity ● = Controller is between 60% and 80% client capacity ● = Controller is at greater than 80% client capacity
Role	Controller role within the cluster, either leader or member .
Type	Controller model type.
Version	Version of AOS-W currently running on the controller.

Additional Cluster WebUI Enhancements

The **APs/Devices > Monitor** page has been enhanced to display cluster information for controllers and APs associated to a cluster.

- The **Device Info** section of the **APs/Devices > Monitor** page for a cluster controller includes the name of the cluster to which that controller belongs.
- The **Device Info** section of the **APs/Devices > Monitor** page for an AP associated to a cluster controller displays information about its active controller and its standby controller. [Figure 3](#) shows the **APs/Devices > Monitor** page for an AP associated to a cluster member.

Figure 3: APs/Devices > Monitor page for an AP in a Controller Cluster



Support for MultiZone Deployment

The MultiZone feature introduced in ArubaOS 8.0 allows APs to terminate to multiple managed devices residing in different zones. A zone is a collection of managed devices under a single administration domain.

In previous releases of ArubaOS, each AP was managed by a single zone where the configuration was generated on a master controller and synchronized across all other local controllers.

The MultiZone AP feature allows an AP to be managed by multiple zones. Different zones can have different configurations, and the managed nodes in different zones do not need to communicate with one another.



In MultiZone deployments, Mobility Master and all the switches should be managed from the same OV3600 server.

When Alcatel-Lucent AOS-W 8.0.1 becomes available, OV3600 8.2.2.1 introduces the following enhancements to monitor APs in a multizone deployment:

- The **Device Info** section on the **APs/Devices > Monitor** page shows client and usage data for clients associated to the selected AP, including clients associated to the MultiZone SSIDs.
- The **Radios** table on the **APs/Devices > Monitor** page can display all SSIDs configured on the AP radio, including the DataZone SSIDs.
- The **Connected Clients** table on the **APs/Devices > Monitor** page has been enhanced to display the switch to which the client's data is tunneled.
- The **Active BSSIDs** table on the **Radio Statistics** page has been enhanced to provide a link to the monitoring page for the switch, as shown in Figure 4. Table 3 describes the columns in the table.

Figure 4: Active BSSIDs

Active BSSIDs			
BSSID ▲	SSID	CONTROLLER	CONTROLLER WEB UI
70:3A:0E:1A:A3:80	PZ_SSID_8.0.1	Aruba7220-LC5	Dashboard > Access Point
70:3A:0E:1A:A3:8D	DZ_SSID_8.0.1	AMP-LC5-LC2	Dashboard > Access Point

Table 3: Active BSSIDs Table

Column	Description
BSSID	The AP's Basic Service Set Identifier (BSSID) is usually the AP's MAC address.
SSID	The Service Set Identifier (SSID) is the network or WLAN that any client sees.
switch	The name of the switch is a link to the switch's monitoring page.
switch Web UI	The navigation path is a link to the management interface for the switch.

OV3600 WebUI Links to HPE Intelligent Management Center

If a device is monitored by both OV3600 8.2.2.1 and an external server running HPE Intelligent Management Center (IMC) Enterprise Software Platform, the OV3600 **APs/Devices > Monitor** page for that device can include a link to the IMC server. If you open a browser window and authenticate to the IMC server, you can click the link on the **APs/Devices > Monitor** page to view the status of that device on the IMC platform.



Best practices is to authenticate to the IMC server *before* you select the IMC server link in the OV3600 WebUI. If you are not logged in to the IMC server, clicking the link in the OV3600 WebUI will close the OV3600 WebUI and open the IMC server login page.

Figure 5: IMC Link on the APs/Devices > Monitor page

Monitoring Cisco7500 in group Cisco Gear in folder Top Poll Now

This Device is in monitor-only-with-firmware-upgrades mode.

Device Info			
Status:	Up (OK) Intelligent Management Center		
Configuration:	Good		
Firmware:	8.0.115.0 (Bootloader: 7.6.101.2)		
Upstream Device:	-	Upstream Port:	-

To associate an Intelligent Management Center (IMC) server with OV3600:

1. Log in to OV3600.
2. Navigate to **OV3600 Setup > External server**.
3. In the **Intelligent Management Center** section, enter the IP Address or Hostname of the IMC server.
4. (Optional) Click the **IMC Protocol** drop down list and select the **HTTPS** or **HTTP** protocol. The default setting is **HTTPS**.
5. (Optional) Enter a port number in the **IMC Port** field. The default port number is **8443**.
6. Enter an IMC username used to access the IMC server.
7. Enter and then confirm the IMC password for the user name entered in step 6.
8. Click **Save**.

Greater RF Visibility for Device Managers

OV3600 8.2.3 allows non-admin users that are an AP or device manager to access the **Home > AppRF** and **Home > UCC** pages and view information for the devices to which they have access. If that user has visibility into the top-level folder, then that user can view RF information for all devices. If that user has visibility into a subset of folders only, then the device manager's view of the **Home > AppRF** and **Home > UCC** pages will be restricted to devices to which that user has access.

OmniVista 3600 Air Manager provides a range of features to manage network infrastructure devices from Alcatel-Lucent and other vendors.

For a complete list of supported products from other vendors, see the *OmniVista 3600 Air Manager 8.2 Supported Infrastructure Devices* document. You can find this document at <https://service.esd.alcatel-lucent.com>.

Support for New Devices in OmniVista 3600 Air Manager 8.2.2

OV3600 8.2.2.1 introduces support for the following Alcatel-Lucent access points:

- IAP-314
- IAP-315
- IAP-334
- IAP-335

Support for Instant in OmniVista 3600 Air Manager 8.2.2

OV3600 8.2.2.1 supports Alcatel-Lucent OAW-IAPs running Instant 6.5.0.0-4.3.0.0 and prior versions, including the management of configuration settings and software upgrades.

The following table shows when each new version of Instant was initially supported in OV3600.

Table 4: *OmniVista 3600 Air Manager Support for Instant*

Instant Version	Support for Template Configuration	Support for IGC configuration
Instant 4.3.0	OmniVista 3600 Air Manager 8.2.2.1	OmniVista 3600 Air Manager 8.2.2.1, with the Instant 4.3.0 UI**
Instant 4.2.4	OmniVista 3600 Air Manager 8.2.1 and 8.2.0.3*	OmniVista 3600 Air Manager 8.2.2, with the Instant 4.2.1 UI
Instant 4.2.3	OmniVista 3600 Air Manager 8.2	OmniVista 3600 Air Manager 8.2, with the Instant 4.2.1 UI
Instant 4.2.2	OmniVista 3600 Air Manager 8.2	OmniVista 3600 Air Manager 8.2, with the Instant 4.2.1 UI
Instant 4.2.1	OmniVista 3600 Air Manager 8.0.10.0	OmniVista 3600 Air Manager 8.0.10.0
Instant 4.2	OmniVista 3600 Air Manager 8.0.9	OmniVista 3600 Air Manager 8.0.9
Instant 4.1.3.1	OmniVista 3600 Air Manager 8.2.1, 8.2.0.3, and 8.0.11.2	OmniVista 3600 Air Manager 8.2.1, 8.2.0.3, and 8.0.11.2
Instant 4.1.3	OmniVista 3600 Air Manager 8.2.1, 8.2.0.3, and 8.0.11.2	OmniVista 3600 Air Manager 8.2.1, 8.2.0.3, and 8.0.11.2
Instant 4.1.2	OmniVista 3600 Air Manager 8.0.9	OmniVista 3600 Air Manager 8.0.9

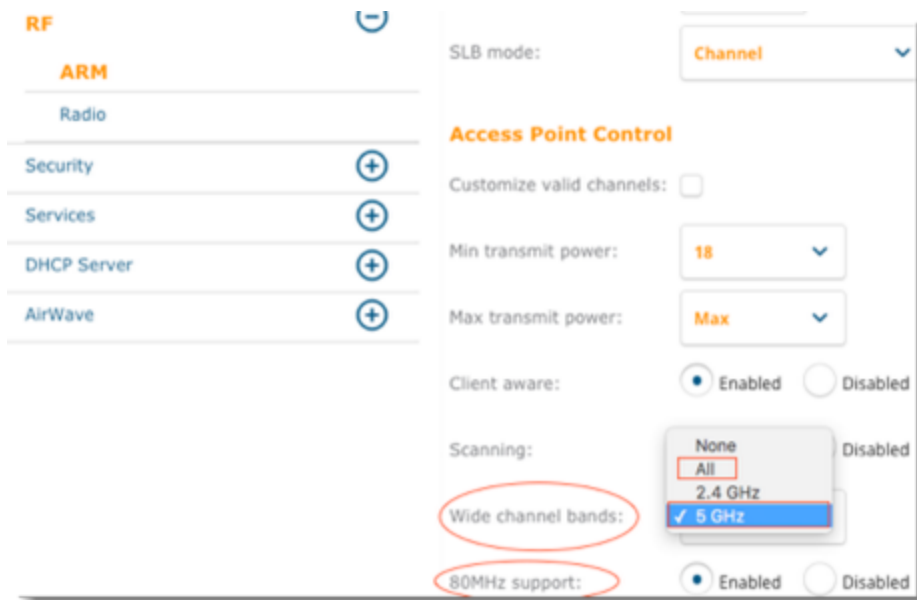
Table 4: OmniVista 3600 Air Manager Support for Instant (Continued)

Instant Version	Support for Template Configuration	Support for IGC configuration
Instant 4.1.1	OmniVista 3600 Air Manager 8.0.4	OmniVista 3600 Air Manager 8.0.4
Instant 4.1	OmniVista 3600 Air Manager 8.0	OmniVista 3600 Air Manager 8.0.4
Instant 4.0	OmniVista 3600 Air Manager 8.0 and OmniVista 3600 Air Manager 7.7.10	OmniVista 3600 Air Manager 7.7.8
Instant 3.4	OmniVista 3600 Air Manager 7.7.3	OmniVista 3600 Air Manager 7.7.8
Instant 3.3	OmniVista 3600 Air Manager 7.6.4	OmniVista 3600 Air Manager 7.7.8
Instant 3.2	OmniVista 3600 Air Manager 7.6.1	OmniVista 3600 Air Manager 7.7.5
Instant 3.1	OmniVista 3600 Air Manager 7.5.6	N/A
Instant 3.0	OmniVista 3600 Air Manager 7.5	N/A

*OV3600 8.2.0.3 supports template configuration for Instant 6.4.4.4-4.2.4.0, with the exception of the **wired-port-profile <profile > [no] trusted** command, which must be manually configured using the IAP command-line interface.

In Instant 4.3.0, the **RF > ARM menu provides several options to configure wide channel bands. However, if you use the OV3600 Instant GUI Config (IGC) feature to enable 80 MHz support, select only **All** or **5 GHz**. Selecting **None** or **2.4 GHz** results in a configuration mismatch.

Figure 6: ARM Configuration in the Instant 4.3.0 WebUI



The following tables describe issues resolved in OV3600 8.2.2.1 and previous 8.2.x releases.

Table 5: *Issues Resolved in OV3600 8.2.2.1*

ID	Description
DE22391	<p>Symptom: Improvements in OV3600 8.2.2.1 resolve an issue where wired client data received through AMON did not display in the APs/Devices > Monitor page of the AirWave WebUI.</p> <p>Scenario: OV3600 8.0.x did not correctly display information for wired clients connected to an OAW-AP205H remote AP.</p>
DE23645	<p>Symptom: VisualRF improvements in OV3600 8.2.2.1 prevent planned devices from incorrectly duplicating on a floorplan region.</p> <p>Scenario: In previous releases of OV3600, when editing a floorplan region to add additional planned devices, planned APs currently in that region may be duplicated, and appear in the region twice.</p>
DE25122	<p>Symptom: OV3600 correctly displays interface and port statistics for a virtual controller running ArubaOS 8.0.1.</p> <p>Scenario: Improvements in ArubaOS 8.0.1 resolve an issue that prevented OV3600 from correctly displaying controller interface and port statistics, and inbound and outbound interface traffic on a controller running ArubaOS 8.0.0 on a server VM.</p>
DE25774	<p>Symptom: Manual overrides to the VisualRF HTTP Timeout system setting are retained after the VisualRF engine restarts.</p> <p>Scenario: OV3600 8.0.x did not retain an override to the internal VisualRF HTTP timeout system setting when the VisualRF engine stopped and restarted. This issue is resolved in OV3600 8.2.2.1.</p>
DE25918	<p>Symptom: VisualRF improvements in OV3600 8.2.2.1 allow VisualRF floorplans to accurately display channel utilization heatmap data for APs on that floorplan.</p> <p>Scenario: This resolves an issue previous releases of OV3600 8.2.x, where VisualRF could display channel utilization data that was inconsistent with the channel utilization tables for the switch.</p>
DE25932	<p>Symptom: VLAN port configuration changes using templates and the Import settings from selected devices option did not work properly.</p> <p>Scenario: Changing the VLAN port using a config template on the Groups > Templates page and the Manage Device section on any APs/Devices page no longer causes loss of switch connectivity or the incorrect importing of "no untagged vlan 1" ports into the "vlan 1 untagged" field.</p>
DE26024	<p>Symptom: A client connected to a multizone controller running ArubaOS 8.0.1 sends virtual AP and client statistics to the correct controller.</p> <p>Scenario: Improvements in ArubaOS 8.0.1 resolve an issue that prevented a multizone controller running ArubaOS 8.0.0 from sending correct virtual AP and client statistics to OV3600.</p>

Table 5: Issues Resolved in OV3600 8.2.2.1 (Continued)

ID	Description
DE26302	<p>Symptom: VisualRF improvements in OV3600 8.2.2.1 prevent the VisualRF engine from unexpectedly timing out. This error could create large java_hpref files that consumed high levels of disk resources.</p> <p>Scenario: These changes resolve an issue in earlier releases of OV3600 8.2.x, when the VisualRF engine could occasionally time out, requiring a manual restart.</p>
DE26384	<p>Symptom: OV3600 8.2.2.1 includes improvements that allow you to configure default Power over Ethernet (PoE) and speed-duplex settings on an HPE ProCurve switch without triggering a configuration mismatch.</p> <p>Scenario: In previous releases of OV3600, sending default PoE values to an HPE ProCurve switch could trigger an incorrect configuration mismatch, as the PVOS operating system used by the switch does not include default configuration values in the output of the show running-config command used by OV3600 to audit the Switch configuration.</p>
DE26387	<p>Symptom: An issue is resolved where OV3600 applied an incorrect ACL to an HPE ProCurve switch.</p> <p>Scenario: This issue occurred when OV3600 pushed an impartial configuration was pushed because the connection to the switch was lost. When a second configuration push was attempted, the permit/deny settings in the ACL were not properly set because an incomplete ACL of the same name already existed on the device.</p>
DE26627	<p>Symptom: OV3600 8.2.2 ran an earlier version of JRE that did not have the current Java 8 security fixes and new features.</p> <p>Scenario: OV3600 8.2.2.1 updates the version of JRE from 1.8.72 to 1.8.102. Changes include:</p> <ul style="list-style-type: none"> • IANA timezone data version 2016d • Updated security baselines for JRE 6, 7, and 8 • JRE expiration date mechanism • Security enhancements and fixes
US15500	<p>Symptom: APs were missing from the floor plan in VisualRF.</p> <p>Scenario: This issue occurred if the ap_list.xml file failed to load due to a race condition. We fixed a timeout issue that caused the ap_list.xml file to crash, and the APs now display correctly on the floor plan.</p>

Table 6: Issues Resolved in OV3600 8.2.2

ID	Description
DE26397	<p>Symptom: In earlier OV3600 releases, users with regular, non-administrator accounts couldn't see AppRF and UCC data in the dashboards.</p> <p>Scenario: Starting with OV3600 8.2.2, you can create an AppRF or UCC role that gives non-administrator users read-only privilege. See "New User Roles for AppRF and UCC" on page 1 for more information.</p>
DE26139 DE26138	<p>Symptom: The Clarity Live data on the Home > Clarity page of the OV3600 WebUI shows accurate data for MAC authentication failures.</p> <p>Scenario: This resolves an issue where the MAC authentication failure counters on the top of the Clarity dashboard page were not incrementing correctly.</p>

Table 6: Issues Resolved in OV3600 8.2.2 (Continued)

ID	Description
DE26038	<p>Symptom: Walls appear correctly in the VisualRF floor plan after an upgrade to OV3600 8.2.x.</p> <p>Scenario: An issue is resolved that affects how files are backed up and restored in OV3600 8.2.x.</p>
DE25921	<p>Symptom: Device communication credentials for new devices are no longer visible via the View Device Credentials link in the Device Communications section of APs/Devices > Manage page, or the Default Credentials section of the Device Setup > Communication page of the OV3600 WebUI.</p> <p>Symptom: In previous releases, credentials for newly discovered devices were visible by default.</p>
DE25884	<p>Symptom: The Group > Monitor page displays the wrong bandwidth usage for a switch. For example, OV3600 reports the device usage as 163 Gbps on the Group page and 260 Mbps on the Monitoring page for the same device.</p> <p>Scenario: OV3600 properly displays information about your device bandwidth usage.</p>
DE25821	<p>Symptom:OV3600 no longer reports inconsistent numbers of clients on the APs/Devices > Monitor page.</p> <p>Scenario: The wired client count under the Monitor Info section was double the count found in Radio and Wired Interfaces combined. This issue, which occurred when the IAP acted as a gateway for wired networks, has been addressed.</p>
DE25645	<p>Symptom: If you restored one Instant cluster with an backup of another Instant cluster, OV3600 no longer reboots the OAW-IAPs because they use the same virtual controller key.</p> <p>Scenario: This resolves an issue that occurred when the OAW-IAPs were in monitor-mode. OV3600 now warns you if the OAW-IAPs are using the same virtual controller key.</p>
DE25211	<p>Symptom: AirWave no longer reports inconsistent numbers of clients on the APs/Devices> Monitor page.</p> <p>Scenario: The wired client count under the Monitor Info section of the APs/Devices> Monitor page was double the count found in Radio and Wired Interfaces combined. This issue, which occurred when the OAW-IAP acted as a gateway for wired networks, has been addressed.</p>
DE24958	<p>Symptom: Connecting to the OV3600 server with SSH was possible using the Diffie-Hellman Group 1 key exchange.</p> <p>Scenario: OmniVista 3600 Air Manager no longer supports SSH client to server connections using the Diffie-Hellman Group 1 option and instead uses Group 14, for greater security.</p>
DE24406	<p>Symptom: Backup configurations downloaded from the OV3600 WebUI couldn't be restored from because the files weren't compressed properly.</p> <p>Scenario: This issue occurred when using the Chrome browser to download the backups.</p>

Table 6: Issues Resolved in OV3600 8.2.2 (Continued)

ID	Description
DE22421	<p>Symptom: The usage field and usage graph that show bandwidth used for incoming and outgoing traffic on a radio did not display on the APs/Device Monitor page.</p> <p>Scenario: This issue affected HP ProCurve MSM switches running OV3600 8.0.6.3 and Firmware 6.2.1.0 or 6.4.2.0.</p>
DE26397	<p>Symptom: In earlier OV3600 releases, users with regular, non-administrator accounts couldn't see AppRF and UCC data in the dashboards.</p> <p>Scenario: Starting with OV3600 8.2.2, you can create an AppRF or UCC role that gives non-administrator users read-only privilege. See "New User Roles for AppRF and UCC" on page 1 for more information.</p>
DE26139 DE26138	<p>Symptom: The Clarity Live data on the Home > Clarity page of the OV3600 WebUI shows accurate data for MAC authentication failures.</p> <p>Scenario: This resolves an issue where the MAC authentication failure counters on the top of the Clarity dashboard page were not incrementing correctly.</p>
DE26038	<p>Symptom: Walls appear correctly in the VisualRF floor plan after an upgrade to OV3600 8.2.x.</p> <p>Scenario: An issue is resolved that affects how files are backed up and restored in OV3600 8.2.x.</p>
DE25921	<p>Symptom: Device communication credentials for new devices are no longer visible via the View Device Credentials link in the Device Communications section of APs/Devices > Manage page, or the Default Credentials section of the Device Setup > Communication page of the OV3600 WebUI.</p> <p>Symptom: In previous releases, credentials for newly discovered devices were visible by default.</p>
DE25884	<p>Symptom: The Group > Monitor page displays the wrong bandwidth usage for a switch. For example, OV3600 reports the device usage as 163 Gbps on the Group page and 260 Mbps on the Monitoring page for the same device.</p> <p>Scenario: OV3600 properly displays information about your device bandwidth usage.</p>
DE25821	<p>Symptom: OV3600 no longer reports inconsistent numbers of clients on the APs/Devices > Monitor page.</p> <p>Scenario: The wired client count under the Monitor Info section was double the count found in Radio and Wired Interfaces combined. This issue, which occurred when the IAP acted as a gateway for wired networks, has been addressed.</p>
DE25645	<p>Symptom: If you restored one Instant cluster with an backup of another Instant cluster, OV3600 no longer reboots the OAW-IAPs because they use the same virtual controller key.</p> <p>Scenario: This resolves an issue that occurred when the OAW-IAPs were in monitor-mode. OV3600 now warns you if the OAW-IAPs are using the same virtual controller key.</p>

Table 6: Issues Resolved in OV3600 8.2.2 (Continued)

ID	Description
DE25211	<p>Symptom: AirWave no longer reports inconsistent numbers of clients on the APs/Devices> Monitor page.</p> <p>Scenario: The wired client count under the Monitor Info section of the APs/Devices> Monitor page was double the count found in Radio and Wired Interfaces combined. This issue, which occurred when the OAW-IAP acted as a gateway for wired networks, has been addressed.</p>
DE24958	<p>Symptom: Connecting to the OV3600 server with SSH was possible using the Diffie-Hellman Group 1 key exchange.</p> <p>Scenario: OmniVista 3600 Air Manager no longer supports SSH client to server connections using the Diffie-Hellman Group 1 option and instead uses Group 14, for greater security.</p>
DE24406	<p>Symptom: Backup configurations downloaded from the OV3600 WebUI couldn't be restored from because the files weren't compressed properly.</p> <p>Scenario: This issue occurred when using the Chrome browser to download the backups.</p>
DE22421	<p>Symptom: The usage field and usage graph that show bandwidth used for incoming and outgoing traffic on a radio did not display on the APs/Device Monitor page.</p> <p>Scenario: This issue affected HP ProCurve MSM switches running OV3600 8.0.6.3 and Firmware 6.2.1.0 or 6.4.2.0.</p>

Table 7: Issues Resolved in OV3600 8.2.1.1

ID	Description
DE26015 DE25582	<p>Symptom: OV3600 8.2.1 did not support ZTP on the HPE Aruba Switch Models 2530 YB and 2620.</p> <p>Scenario: We addressed this issue by supporting CBC ciphers in order to accept TLS 1.0 calls.</p>
DE25988	<p>Symptom: Client graphs were inconsistent with corresponding AMON data after upgrading to OV3600 8.2.1 from 8.2.0.3.</p> <p>Scenario: This issue occurred when the new AMON receiver crashed while trying to calculate AMON message loss. Message loss monitoring has been fixed.</p>
DE25869	<p>Symptom: If you upgraded the firmware on a switch and then rebooted it, the device might appear to be down although its status is up when polled.</p> <p>Scenario: This issue has been fixed. You no longer see a <i>Device Down</i> error in the event log.</p>
DE25577	<p>Symptom: After an upgrade to OmniVista 3600 Air Manager 8.2.0.2, OmniVista 3600 Air Manager tried to restart every few seconds when running out of memory.</p> <p>Scenario: We fixed an issue that prevented OmniVista 3600 Air Manager from loading AppRF data.</p>

Table 8: Issues Resolved in OV3600 8.2.1

ID	Description
DE25427	<p>Symptom: A switch does not automatically reboot if a firmware download operation fails.</p> <p>Scenario: If the OV3600 system boot process detects file copy failures during a firmware upgrade, the reboot process will not initialize, and the switch will not reboot.</p>
DE25735	<p>Symptom: OV3600 is now able to restore a backup file after an OV3600 server upgrades from OV3600 8.0.x to OV3600 8.2.1.</p> <p>Scenario: Improvements to how the internal server_watcher_limits file is handled resolve this issue in OV3600 8.2.1.</p>
DE25599	<p>Symptom: Planned APs correctly appear on an OV3600 8.2.1 VisualRF floorplan.</p> <p>Scenario: An issue was identified in OV3600 8.2 that prevented planned APs from appearing on a floorplan. This issue is resolved in OV3600 8.2.1 by improvements to the parsing of the internal catalog repository that maintains all of the values used by VisualRF.</p>
DE25580 DE25544	<p>Symptom: An issue is resolved where Instant APs configured via the Instant GUI Config (IGC) feature could lose a configured PPPOE-password parameter and incorrectly add an additional ACL entry.</p> <p>Scenario: This issue occurred when IGC incorrectly identified a mismatch on the device, and attempted to modify the device configuration to resolve that mismatch. Internal changes in OV3600 8.2.1 prevent a mismatch from being incorrectly identified, resolving this issue.</p>
DE25691	<p>Symptom: APs placed in a VisualRF floorplan no longer shift location slightly when the page is refreshed.</p> <p>Scenario: When APs were placed on a small VisualRF floor plan configured with metric units and a small grid size, rounding errors in internal calculations made the AP change positions slightly when the position was saved to the floorplan. This issue is resolved in OV3600 8.2.1.</p>
DE25623	<p>Symptom: An Instant AP image can not be uploaded via an external file server if an image with the same name is already uploaded to the OV3600 server.</p> <p>Scenario: The Device Setup > Upload Firmware & Files page of the OV3600 WebUI now supports uploading files via an external file server, even if a file with the same name already exists in the firmware list on the Groups > Firmware page.</p>
DE25540	<p>Symptom: OV3600 failed to import Cisco IOS templates from standalone APs.</p> <p>Scenario: This issue has been fixed in OV3600 8.2.1.</p>
DE25539	<p>Symptom: OV3600 8.2.1 contains OpenSSL security updates for RHSA-2016:0996-2.</p> <p>Scenario: Security flaws in OpenSSL could allow an application that is compiled against it to crash, or execute arbitrary code, using the permissions of the user running the application. OV3600 8.2.1 includes enhancement for RHSA-2016:0996-2, which resolves vulnerabilities CVE-2016-2842, CVE-2016-2100, CVE-2016-2108, CVE-2016-2107, CVE-2016-2106, CVE-2016-2105, and CVE-2016-0799.</p>
DE25509	<p>Symptom: An issue is resolved where an Instant AP cluster appeared in an error state after upgrading from Instant 4.1.1.13 to Instant 4.1.3.</p> <p>Scenario: Changes to how the OV3600 Instant GUI Config (IGC) feature handles Instant releases with double digits resolves this issue in OV3600 8.2.1.</p>

Table 8: Issues Resolved in OV3600 8.2.1 (Continued)

ID	Description
DE25472 DE24975	<p>Symptom :OV3600 8.2.1 contains OpenSSL security updates for RHSA-2016:0301-1.</p> <p>Scenario: Security flaws in OpenSSL allowed side-channel attacks, application crashes, decryption of RSA-encrypted cipher text, or allowed malicious SSLv2 clients to negotiate SSLv2 ciphers that were disabled on the server. OV3600 8.2.1 includes enhancement for RHSA-2016:0301-1, which resolves vulnerabilities CVE-2015-3197, CVE-2016-0702, CVE-2016-0705, CVE-2016-0797 and CVE-2016-0800.</p>
DE25434	<p>Symptom: An issue is resolved where a large number of alerts for high CPU or memory usage were incorrectly triggered.</p> <p>Scenario: AnOV3600 trigger configured as "<i>Device Type is Access Point, Percent CPU Utilization >= 80% or Percent Memory Utilization >= 30% for 1 minutes</i>" triggered many alerts where the alert type appeared as "deleted" in the System > Alerts page. Improvements to CPU utilization processes resolve this issue in OV3600 8.2.1.</p>
DE25421	<p>Symptom: Some .dwg files were not correctly uploaded into VisualRF as floorplan images.</p> <p>Scenario: Improvements to an internal image converter process resolves an issue where some .dwg images were not getting correctly converted to .svg images in VisualRF.</p>
DE25385	<p>Symptom: In previous releases of OV3600, filters applied to limit the display of rogue devices could not be removed all filters at once, but had to be removed individually.</p> <p>Scenario: OV3600 8.2.1 resolves this issue with the addition of a new Reset filters link on the RAPIDS > List page.</p>
DE25382	<p>Symptom: The default duration for a support connection is fourteen days in OV3600 8.2.1. In previous versions of OV3600 8.2.x, the default connection period was one day.</p> <p>Scenario: A support connection is a point-to-point IP tunnel that is initiated from a customer OV3600 server to Aruba's support server. A support connection on a server running OV3600 8.2.1 remains open for seven days, unless it is manually closed using the command # service support_connection stop.</p>
DE25373	<p>Symptom: When running a custom report with the Uptime by Device option selected, OV3600 reported incorrect uptimes or reported devices as being down although they were running.</p> <p>Scenario: This issue has been fixed by improvements to the order in which device uptime records are set.</p>
DE25317	<p>Symptom: The Clients > Diagnostics page inaccurately reported the channel width when it displayed 120 MHz for very high throughput (VHT) mode.</p> <p>Scenario: The channels displayed are now correct for high throughput (HT) and VHT networks. Channels a device can use are: 20, 40, 80, or 160.</p>
DE25282	<p>Symptom: AnOV3600 server running OV3600 8.2.0.x sent random authentication requests to the RADIUS server.</p> <p>Scenario: This issue occurred only for RADIUS authentication, where unexpected RADIUS requests were repeatedly sent to the RADIUS server, and continually failed.</p>

Table 8: Issues Resolved in OV3600 8.2.1 (Continued)

ID	Description
DE24713	<p>Symptom: Cisco 2700e LWAPP APs did not correctly display heat maps for 802.11ac radios, although heatmaps did correctly display for radios in 'ng' or 'na' modes.</p> <p>Scenario: Updates to the internal catalog allows VisualRF to recognize Cisco 2700e LWAPP AP radios in 802.11ac mode.</p>
DE24567	<p>Symptom: Previous releases of OV3600 8.x generated two NMS events for the same rogue ID classification if a trigger is configured to forward an alert to another network management system.</p> <p>Scenario: Improvements in OV3600 8.2.1 sends a single detailed alert for an NMS trap, rather than sending one NMS trap with details, and another NMS trap without details.</p>
DE22575	<p>Symptom: The Supported Platforms column in the interfaces table on the Groups > switch Config > Local Config > Network > Port/Interfaces > Gigabit Ethernet page now correctly lists the Alcatel-Lucent switch.</p> <p>Scenario: In previous releases of OV3600, the switch was incorrectly omitted as a supported platform for Ethernet interfaces that were supported by that device.</p>

Table 9: Issues Resolved in OV3600 8.2.0.3

ID	Description
DE25624	<p>Symptom: OV3600 did not generate matching event reports for an AP on the Reports > Detail page although it had connected clients.</p> <p>Scenario: This issue occurred when OV3600 skipped AMON messages that didn't contain AP identification information. The method in which OV3600 obtains the identification information for an AP has been changed to resolve this issue.</p>
DE25570	<p>Symptom: When VisualRF ran calculations to build the campus grid, it generated large amounts of data which resulted in extremely large backups.</p> <p>Scenario: As a result of this issue, VisualRF ran out of memory and crashed. Visual RF now runs calculations in smaller intervals.</p>
DE25448	<p>Symptom: Sometimes the Domain Name System (DNS) Resolution graph in the Clarity dashboard wouldn't display.</p> <p>Scenario: This graph wouldn't load because of an underlying AOS-W issue, where the DNS samples field populated when it shouldn't. The mechanism for querying the DNS samples measured has been corrected.</p>
DE25419	<p>Symptom: Old JRE files remained after an upgrade.</p> <p>Scenario: When upgrading from an earlier version of OV3600, a new JRE installs over itself, leaving JREs from previous installations. You can run a script and select which JRE files to delete. The script is in the /src/x86_64/rpms/Makefile directory.</p>
DE25416	<p>Symptom: After upgrading from OV3600 8.0.11.1 to 8.2.x, the Network view in VisualRF displayed incorrect results on the campus map.</p> <p>Scenario: OV3600 8.2.0.3 fixes an issue where the data migration of pixel width and height didn't work during an upgrade from 8.0.11.x. Campuses no longer overlay each other on the map, and you can drag and drop, or auto arrange items again.</p>

Table 9: Issues Resolved in OV3600 8.2.0.3 (Continued)

ID	Description
DE25408	<p>Symptom: You could not modify the primary, secondary, or tertiary switches from the Cisco Thin AP Settings or the Manage Configuration page.</p> <p>Scenario: After upgrading from an earlier version of OV3600 to 8.2.0.1, you couldn't make a selection from the drop down menu, or access the drop down menu. These issues are resolved for all web browsers.</p>
DE25352	<p>Symptom: In the Usage graph for connected clients, accessed from the Client > Connection page, the labels and color codings were incorrect.</p> <p>Scenario: The information in these graphs, such as color coding, axis direction, and client traffic direction, were changed to match other Usage graphs in the WebUI.</p>
DE25346	<p>Symptom: During an upgrade to OV3600 8.2.x, the system attempted to upgrade the firmware after exceeding the maximum retries limit.</p> <p>Scenario: The system now stops the upgrade when it reaches the maximum retries limit.</p>
DE25320	<p>Symptom: The row of statistics hyperlinks, called Top Header Stats, displayed incorrectly.</p> <p>Scenario:OV3600 8.2.0.3 corrects this screen output issue.</p>
DE25312	<p>Symptom: Security flaws in the OV3600 8.0.x release could have caused an application that is compiled against the NSS library to crash, or execute arbitrary code, using the permissions of the user running the application (CVE-2016-1978 and CVE-2016-1979).</p> <p>Scenario: OV3600 8.2.0.3 contains the following Linux security updates, which correct these issues:</p> <ul style="list-style-type: none">• nss-util security update RHSA-2016:0370-1• glibc security and bug fix update RHSA-2016:0175-1• kernel security and bug fix update RHSA-2015:2636-1• nss, nss-util, and NSPR security update RHSA-2016:0591-1
DE25310	<p>Symptom: AMON messages sent from Alcatel-Lucent AOS-Wswitches contain timestamps in various formats.</p> <p>Scenario: OmniVista 3600 Air Manager 8.2.2 resolves this issue by reporting all messages in the Clarity dashboard in milliseconds. In order to view complete Clarity data, upgrade OV3600 to 8.2.0.3 and ensure that the controller is running AOS-W 6.4.3.9, 6.4.4.8, or later.</p>
DE25067	<p>Symptom: When you deploy an AP in a floor plan, VisualRF doesn't display a heatmap for the AP unless you restart VisualRF.</p> <p>Scenario: VisualRF automatically refreshes and displays a heatmap for APs added to a floor plan.</p>
DE24962	<p>Symptom: The telnet_cmds log file tracks commands sent between OV3600 and a device using Telnet or SSH and might include passwords and secret data.</p> <p>Scenario: Security enhancements in OmniVista 3600 Air Manager 8.2.2 prevent these files from being viewed using the WebUI and prevent them from being included in an OV3600 backup file.</p>

Table 10: Issues Resolved in OV3600 8.2.0.2

ID	Description
DE25409 DE25378	<p>Symptom: Clients associated to an Instant AP correctly appear in VisualRF.</p> <p>Scenario: In previous releases of OV3600 8.2.x, IAP clients did not appear correctly in VisualRF floor plans.</p>
DE25333	<p>Symptom: OV3600 processed incoming rogue data and didn't update the AP database correctly.</p> <p>Scenario: OV3600 stores this rogue AP data and shows rogue devices accurately in the RAPIDs overview pages.</p>
DE25314	<p>Symptom: In the Home > Clarity Monitoring pages of the WebUI, the AP Name column in the AP Summary table and APs column of the AP Association table display the AP name defined by the switch to which that AP is associated.</p> <p>Scenario: OV3600 displays the correct AP name sent by the switch in the Clarity monitoring tables and graphs.</p>
DE25260	<p>Symptom An issue prevented OV3600 7.7.14 from upgrading to earlier releases of OV3600 8.2.x.</p> <p>Scenario: This issue is resolved by changes to the internal installation process that modified the order in which some modules were installed.</p>
DE25429	<p>Symptom: The DNS failure graph on the Home > Clarity pages of the WebUI displayed inaccurate DNS data.</p> <p>Scenario: Alcatel-Lucent switches running Alcatel-Lucent AOS-W 6.4.4.6 sent continuous server timeout errors. As a result, the DNS failure graphs displayed inaccurate data. This issue has been resolved.</p>
US14749	<p>Symptom: The accuracy of Clarity data is improved with a change that allows OV3600 to use VLAN IP addresses to validate the source of the AMON messages sent to the OV3600 server.</p> <p>Scenario: This change resolves an issue that allowed the Home > Clarity Monitoring pages to display inaccurate information for the following deployments:</p> <ul style="list-style-type: none"> • In a Master+Master-Standby switch deployment with VRRP and LMS IP set on the switch, AMON AP messages were being sent with the LMS IP, preventing OV3600 from processing them. • If messages were sent from the AP use a different VLAN IP than the switch, OV3600 would not process them correctly. • If the IP address used by a single switch VLAN is defined as the IP address by which OV3600 communicates with the switch, AP station AMON messages sent from any other VLAN IP defined on the switch would not be processed correctly by OV3600.

Table 11: Issues Resolved in OV3600 8.2.0.1

ID	Description
DE25275 DE25251	<p>Symptom: An issue is resolved where an OV3600 server upgrading to OV3600 8.2.0 might have insufficient disk space issue to allow the upgrade to completing successfully.</p> <p>Scenario: This issue is resolved by changes to the internal upgrade procedures in OV3600 8.2.0.1 that reduced the required disk space for the upgrade.</p>

Table 11: *Issues Resolved in OV3600 8.2.0.1 (Continued)*

ID	Description
DE23592	<p>Symptom: VisualRF correctly saves grid size modifications to floor plans.</p> <p>Scenario: OV3600 8.2.0.1 resolves an issue that prevented VisualRF section of the OV3600 UI from saving modifications to the floor plan grid size property.</p>

Table 12: *Issues Resolved in OV3600 8.2*

ID	Description
DE23305	<p>Symptom: VisualRF floor plans could display floor plan dimensions in feet, even if VisualRF was configured to display metric units. OV3600 8.2 resolves this issue, and floor plan dimensions are correctly converted from imperial to metric measurements.</p> <p>Scenario: This issue was observed when VisualRF settings were changed to display dimensions in metric units.</p>
DE22577	<p>Symptom: In OV3600 8.0, VisualRF did not update the grid size after you resized a floorplan which in turn prevented heatmaps from displaying correctly.</p> <p>Scenario: We fixed this issue in OV3600 8.2, and now VisualRF updates the grid size with new dimensions and displays the heat map.</p>

The tables below list known issues identified in OV3600 8.2.2.1 and previous OV3600 8.2.x releases. There are no known issues in OV3600 8.2.0.1 and 8.2.1.1

Table 13: *Known Issues in OV3600 8.2.2.1*

ID	Description
DE26913	<p>Symptom: OV3600 does not correctly discover clients if the Prefer AMON vs SNMP setting is modified and then reverted to its original setting.</p> <p>Scenario: This issue occurs if the Prefer AMON vs SNMP setting on the OV3600 Setup > General > Additional OV3600 Services page is set to No, the OV3600 server is upgraded to OV3600 8.2.2.1, then the Prefer AMON vs SNMP setting is changed back to Yes.</p> <p>Workaround: To resolve this issue, restart the OV3600 service by navigating to System > Status and selecting the Restart AMP button below the Services table.</p>
DE26895	<p>Symptom: VisualRF does not correctly save antenna gain values for an AP when the VisualRF engine is restarted, but will revert the AP to its previous gain setting.</p> <p>Scenario: This issue occurs if you modify the antenna gain values for an AP on a VisualRF floor plan, and then disable and re-enable the VisualRF engine on the VisualRF > Setup > Server Settings page.</p>
DE26476	<p>Symptom: The wide channel band parameter for an Instant AP does not support the 2.4 GHz and Enabled, or None and Enabled parameters.</p> <p>Scenario: If you have an OAW-IAP running Instant 4.3.0, you cannot select these options using the OV3600 Instant GUI Config (IGC) feature.</p> <p>Workaround: Select the All or 5 GHz option for wide channel bands if 80MHz support is enabled.</p>
N/A	<p>Symptom: A warning message is displayed in the OV3600 terminal after the OV3600 server has upgraded to OV3600 8.2.2.x.</p> <p>Scenario: After the upgrade, the OV3600 terminal displays the following text:</p> <pre data-bbox="375 1436 1143 1493">svn: E155007: '/root/svn/mercury' is not a working copy -bash: [: !=: unary operator expected</pre> <p>This warning is triggered by an internal change in OV3600 8.2.2, and can be ignored.</p> <p>Workaround: If you log out and then log back in to the OV3600 server, this error will no longer appear.</p>

Table 14: Known issues in OV3600 8.2.2

ID	Description
DE26389	<p>Symptom: When upgrading a 2-core processor to AirWave 8.2.2, you might see a discrepancy in the number of monitoring processes reported on the OV3600 Setup page.</p> <p>Scenario: This issue occurs on a 2-core processor because the maximum processes allowed by the database is 3 but the UI allows only 2.</p> <p>Workaround: Navigate to AMP Setup > Performance, change the number of monitoring processes to 2, and click Save.</p>
DE26383	<p>Symptom: In VisualRF, importing a map fails with an internal server error when the backup.zip file is larger than 300 MB.</p> <p>Scenario: There are no errors in the VisualRF log, but you might see an error similar to the following in the httpd error log:</p> <pre data-bbox="380 680 1481 1008">Handler/Mocha/InlineStats/Base.pm line 189. Use of uninitialized value \$avg_time in numeric gt (>) at /usr/local/airwave/lib/perl/Mercury/Handler/Mocha/InlineStats/Base.pm line 189. /bin/df: `/var/lib/pgsql/pg_stats_temp': Permission denied /bin/df: `/var/lib/pgsql/pg_stats_temp': Permission denied /bin/df: `/var/lib/pgsql/pg_stats_temp': Permission denied Out of memory! Callback called exit at /opt/airwave/local/lib/perl5/site_ perl/5.10.0/HTTP/Headers.pm line 84.</pre> <p>Workaround: Navigate to AMP Setup > Performance, change the number of monitoring processes to 2, and click Save.</p>
DE26367	<p>Symptom In VisualRF, the floor plan size does not display in list view.</p> <p>Scenario: This can happen even though you restart VisualRF.</p> <p>Workaround: Navigate to VisualRF > Floor Plans and click Map to view floor plan sizes.</p>
DE26182	<p>Symptom: There's a discrepancy between the statistics in the Clarity Dashboard widgets and the statistics that display in related reports.</p> <p>Scenario: When you double-click the Summary widget, the same statistics might display incorrectly in the window that opens. For example, the Association column in the Summary widget displays a 53% failure rate and a 15/28 session count, but the window that opens when you double-click the Summary widget shows a failure rate of 78% and a session count of 15/19.</p> <p>Workaround: There is no workaround.</p>
DE26109	<p>Symptom: OV3600 does not display licensing report data for switches that are not active on the network.</p> <p>Scenario: If a switch is not active on the network, OV3600 is not able to return licensing data from that device. As a result, the Reports > Detail page does not correctly display the licensing portion of that report, which appears to be stuck in a loading state.</p>

Table 14: Known issues in OV3600 8.2.2 (Continued)

ID	Description
DE25948	<p>Symptom: Cisco switches do not support partial template configuration.</p> <p>Scenario: If a group of devices contains HPE Aruba switches, do not add switches from other vendors (that support template config) into that group. Switches from other vendors do not support the partial configuration option, and the current workflow would not be applicable to those vendor models.</p>
DE25908	<p>Symptom:OV3600 8.2.0.1 reports an incorrect number of clients in the SNR graph on the Home >RF Performance page.</p> <p>Scenario: This issue occurs for clients connected to Cisco devices after an upgrade from OV3600 7.7.x to 8.2.x.</p>
DE25530	<p>Symptom: OV3600 can create a nightly backup that is unusable.</p> <p>Scenario: During a scheduled backup, OV3600 may a backup file that is incomplete and unusable if the process to clean the database fails due to insufficient disk space.</p> <p>Workaround: Restore the OV3600 server from an earlier backup. If you can't restore from a backup created before the issue occurred, contact technical support for help.</p>
DE25520 DE25148	<p>Symptom: OV3600 8.2.2 does not discover rogue devices for switches running AOS-W 8.0.</p> <p>Scenario: OV3600 should support RAPIDS for switches running AOS-W 8.0.</p> <p>Workaround: Follow these steps to work around this issue:</p> <ol style="list-style-type: none"> Using OmniVista 3600 Air Manager, add all SCs and LCs manually, or discover them through a network scan (see the <i>OV3600 8.2 User Guide</i> for help with manually adding devices or adding networks for SNMP/HTTP scanning). Update the local switch to services switch relation by using the SQL update command. The syntax is: <pre>update ap set master_controller_id=ap2.id from ap as ap2 where ap2.apparent_ip=ap.aruba_master_ip and ap.aruba_switch_role=2 and ap2.aruba_switch_role=1;</pre> Ensure that the monitoring page for the local switch shows the services switch name and a link to its monitoring page.
DE25439	<p>Symptom:OV3600 could not complete nightly maintenance tasks.</p> <p>Scenario:OV3600 maintenance tasks could fail due to corrupt client history round-robin database (RRD) files, triggering the alert Nightly Maintenance failed due to unsuccessful jobs: corrupted_rrds, chron_ssid_cleanup, rf_capacity_scatter.</p> <p>Workaround: Copy the identify_broken_rrds script from another OV3600 server to the to the /usr/local/airwave/bin/ and /root/svn/mercury/scripts/ directories and then run the script to fix the issue.</p>
DE25347	<p>Symptom:OV3600 retains client history round-robin database (RRD) files after the data retention period has passed, causing the OV3600 server to run out of disk space.</p> <p>Scenario: The error log shows that OV3600 runs the job to delete old RRD files, but the files do not get deleted. This issue was identified in OV3600 8.0.11.</p> <p>Workaround: There is no workaround.</p>

Table 14: *Known issues in OV3600 8.2.2 (Continued)*

ID	Description
DE25406	<p>Symptom:OV3600 could not correctly upgrade to OV3600 8.0.10, OV3600 8.0.11 or OV3600 8.2.x.</p> <p>Scenario:OV3600 does not check for possible schema failures due to missing tables, indexes, or foreign keys before performing the upgrade. These schema failures may cause the OV3600 server to crash during database migration.</p>
DE25063	<p>Symptom:OV3600 failed to push IP address settings to a Cisco wireless LAN controller.</p> <p>Scenario: If you update the IP addresses of the primary, secondary, or tertiary switches, OV3600 fails to configure the IP addresses and marks the switches' configuration as mismatched. This issue occurs on Cisco devices running 8.0.121.0 managed by OmniVista 3600 Air Manager 8.x.</p>
DE23425	<p>Symptom:OV3600 may report incorrect client counts on local switches.</p> <p>Scenario: This issue is likely to occur during peak usage when OV3600 falls behind in processing AMON data.</p>

Table 15: *Known Issues in OV3600 8.2.1*

ID	Description
DE25926	<p>Symptom: 2530YA, 2530YB and 2620 HPE Aruba switches fail to register with OV3600 when provisioned via Zero-Touch Provisioning (ZTP) or configuration settings pushed from OV3600 to the switch command-line interface.</p> <p>Scenario: This issue is triggered by OpenSSL updates in OV3600 that caused a compatibility issue with this device.</p>
DE25875	<p>Symptom: OV3600 displays incorrect transmission power for APs running Alcatel-Lucent AOS-W 6.4.4.0 to 6.4.4.6.</p> <p>Scenario: For APs running the impacted versions of AOS-W, transmission power levels on the APs/Devices > Monitor page are displayed as twice the actual level on the AP, and VisualRF heatmaps may display incorrect information. This issue is caused by changes in the information sent to OV3600 by the devices running these versions of Alcatel-Lucent AOS-W.</p>
DE25845	<p>Symptom: The configuration snippet push to a ZTP device gets stuck in the "In Progress" state.</p> <p>Scenario: After you start a partial configuration job for a group of factory-default devices added to OV3600 via ZTP, you might see "In Progress" for the ZTP device in the Job Details table on the Groups > Templates > Partial Config page. This partial configuration option was designed for only Alcatel-Lucent switches, and factory-default devices should not be available for selection from the partial configuration option.</p>
DE25501	<p>Symptom: EAP failures in 802.1X AMON messages are not monitored by OV3600.</p> <p>Scenario: If clients with invalid certificates attempt to associate to OV3600, OV3600 drops EAP_FAILURE Dot1x messages, preventing the tracking of clients which are facing EAP-FAILURE.</p>
DE25400	<p>Symptom: The OV3600 RAPIDs feature may incorrectly calculate signal strengths from the RSSI value for rogue devices.</p> <p>Scenario: The cause of this issue is under investigation.</p>

Table 15: *Known Issues in OV3600 8.2.1 (Continued)*

ID	Description
DE25399	<p>Symptom: RAPIDS drops the event that corresponds to the strongest RSSI signal heard from a rogue AP.</p> <p>Scenario: RAPIDS records the strongest signal heard for a rogue as the rogue entry's signal value and doesn't overwrite that value until a stronger signal is heard, but RAPIDS may fail to retain the discovery event for that entry.</p>
DE25350	<p>Symptom: There is no support for pushing a full configuration for an Aruba switch running the ArubaOS-switch Operating System using the secure file transfer protocols, SCP and SFTP.</p> <p>Scenario: If you use the (unsupported) no tftp client CLI command, the switch is unable to accept TFTP requests. As a result, OV3600 cannot push full configurations to the switch.</p>
DE25268	<p>Symptom: Database schema failures do not cause the upgrade process to halt.</p> <p>Scenario: When a database schema change fails during a software upgrade, the upgrade process continues running.</p>
DE24019	<p>Symptom: When monitoring a stack of Aruba switches, or a standalone switch that has stacking-enabled, OV3600 shows a junk record for a switch with a status of Unknown.</p> <p>Scenario: This issue occurs when you remove the switch designated as commander from a stack and move it to another part of the network. When SNMP discovery finds the switch in a new stack, the junk record disappears.</p>

Table 16: *Known Issues in OV3600 8.2.0.3*

ID	Description
DE25598 DE25522 DE25500	<p>Symptom: After updating the IP address of the switch, you see syslog error messages listed under device events in the Clients > Detail page and not in the Clarity dashboard.</p> <p>Scenario: Underlying issues with Alcatel-Lucent AOS-W caused OV3600 to report only DNS information in the Clarity dashboard.</p> <p>Workaround: In order to view complete Clarity data, upgrade OV3600 to 8.2.0.3 or later, and ensure that the switch is running Alcatel-Lucent AOS-W 6.4.3.9, 6.4.4.8, or later.</p>
DE25434	<p>Symptom:OV3600 sends hundreds of alerts for high CPU or memory usage.</p> <p>Scenario: You might encounter this issue if you configured OV3600 to send alert notification until it is acknowledged.</p> <p>Workaround: When adding a trigger on the System > Triggers page, set the Suppress until acknowledge option to Yes.</p>
DE25324	<p>Symptom: Upgrading from OV3600 8.0.x caused VisualRF beamwidth, orientation and gain values to reset to their default values.</p> <p>Scenario: The beamwidth, orientation and gain values are not retained after flushing the bootstrap file or upgrading the OV3600 server.</p> <p>Workaround: None.</p>

Table 16: *Known Issues in OV3600 8.2.0.3 (Continued)*

ID	Description
DE25226	<p>Symptom: OV3600 takes longer to process station statistics AMON messages than it did in OV3600 8.0.x.</p> <p>Scenario: This issue has been associated with the Internet Explorer web browser.</p> <p>Workaround: None.</p>

Table 17: *Known Issues in OV3600 8.2.0.2*

ID	Description
DE25398	<p>Symptom: When you hover your mouse over the configuration (🔧) icon on the Groups > List page, the popup window of available actions might not appear in the correct spot, be hidden out of view, or display at the very bottom of the page.</p> <p>Scenario: This issue has been associated with the Internet Explorer web browser.</p> <p>Workaround: Use another web browser to access the WebUI, or select a group from the Groups > List page and use the navigation bar.</p>

Table 18: *Known Issues in OV3600 8.2*

ID	Description
DE25324	<p>Symptom: VisualRF Beamwidth, Orientation and Gain values on deployed APs automatically reset when you upgrade OV3600 to any version, or when you remove the bootstrap file.</p> <p>Scenario: The beamwidth, orientation and gain values are not retained after flushing the bootstrap file or upgrading the OV3600 server.</p>
DE25220	<p>Symptom: VisualRF indicated an incorrect number of APs associated with the OV3600 server.</p> <p>Scenario: In a deployment where over 4,000 APs were associated to an OV3600 server, and the active APs status icon at the top of the WebUI page showed the correct number of APs, VisualRF incorrectly indicated that OV3600 had over 10,000 associated APs.</p>
DE25154	<p>Symptom: If an AP upgrades to Instant 4.2.3 and uses Lync applications in its access control rules, Instant GUI Config (IGC) may show a configuration mismatch for that device.</p> <p>Scenario: This issue occurs because the list of Lync applications that can be included in an access control rule in the OV3600 8.2 IGC feature differs from the list of available rules in Instant 4.2.3. The following applications are unsupported by IGC in OV3600 8.2.</p> <ul style="list-style-type: none"> • SOS ALG SVP • SOS ALG Vocera • SOS ALG FTP • SOS ALG RTSP • SOS ALG SIP • SOS ALG NOE • SOS ALG SIPS • SOS ALG H323 • SOS ALG Facetime • SOS ALG Skype4B Voice • SOS ALG Skype4B Video • SOS ALG Skype4B File-Transfer • SOS ALG Skype4B • SOS ALG SIP-Audio • SOS ALG SIP-Video • SOS ALG Skype4B Desktop-Sharing • SOS ALG Jabber • SOS ALG Jabber-MC • square application • pearsonvue web • squirrelysystems web • learninganalytics web • youtubeeducation web

Table 18: Known Issues in OV3600 8.2 (Continued)

ID	Description
DE25110	<p>Symptom: If a switch IP address is changed from a static IP address to an IP address dynamically assigned via DHCP, the device may appear as down in OV3600.</p> <p>Scenario: This issue is triggered because OV3600 has no way to determine the IP address that will be assigned to the switch after the change to a DHCP-assigned IP address.</p> <p>Workaround: Manually change the IP address when the IP provisioning option is changed from static to DHCP.</p>
DE24785 DE24834 DE24836 DE24872	<p>Symptom: When the Groups > Instant Config pages of the OV3600 WebUI are accessed using the Internet Explorer web browser, these pages may not properly display Instant Config (IGC) configuration settings or browser elements, and may not correctly save or update configuration changes.</p> <p>Scenario: This issue occurs when you attempt to use Internet Explorer to create or modify a configuration for Instant devices via Groups > Instant Config. This issue does not occur with other supported web browsers.</p> <p>Possible IGC behaviors in Internet Explorer include the following:</p> <ul style="list-style-type: none"> ● Drop-down lists may not display properly ● Configured settings may not save or update properly ● Scrolling down a page in the IGC WebUI may cause the browser to unexpectedly return to the top of the page. ● Clicking the Save or Apply button may not save any configuration changes, may cause the browser to unexpectedly return to the top of the page. <p>Workaround: Use an alternate web browser, such as Mozilla, to configure Instant devices.</p>
DE24424	<p>Symptom: A non-default Failure Timeout value configured via OV3600 Setup > General > Firmware upgrade/Reboot Options is not correctly applied.</p> <p>Scenario: By default, if a firmware upgrade on a switch fails, that switch state is locked, and the switch cannot attempt another upgrade until the default failure timeout period of 60 minutes has elapsed. In OV3600 8.2, if you configure a non-default value for this failure timeout, the switch state may be locked for a time period equal to the default value of 60 minutes <i>plus</i> the new failure timeout period. For example, if you configure a custom failure timeout period of 15 minutes, that setting may keep a switch locked in a pending state for 75 minutes, instead of the expected 15.</p>
DE24417	<p>Symptom: Firmware updates on Alcatel-Lucent switches may fail when firmware changes are simultaneously sent to switches in a multi-level switch topology, where an upstream switch is located between a downstream switch and the OV3600 server.</p> <p>Scenario: This issue occurs when an upstream switch downloads the firmware image and reboots, temporarily disrupting the firmware download on the second, downstream switch. This disruption may cause the firmware upgrade on the second switch to fail.</p> <p>Workaround: Perform separate firmware upgrades on switches at different levels. (For example, upgrade the first-level (upstream) switches before you upgrade any second level (downstream) switches.</p>
DE24406	<p>Symptom: Backup configurations downloaded from the OV3600 WebUI are not compressed properly, cannot be restored.</p> <p>Scenario: This issue occurs when a nightly backup file is downloaded using the Chrome web browser.</p> <p>Workaround: Use an alternate web browser, such as Mozilla, to download the backup file.</p>

Table 18: Known Issues in OV3600 8.2 (Continued)

ID	Description
DE24163	<p>Symptom: The Current Secondary Version column in the System > Firmware Upgrade Job Detail > Devices Being Upgraded table displays incorrect image information for an Aruba switch.</p> <p>Scenario: The Devices Being Upgraded table should display the version number for the software stored in the secondary flash in the Current Secondary Version column. This column may instead display the boot ROM software version.</p> <p>Workaround: Access the switch command-line interface and issue the command show flash to view the primary and secondary image versions.</p>
DE24019	<p>Symptom: The Member Switches table on the APs/Devices > Monitor page for an Aruba switch may display incorrect stack member information.</p> <p>Scenario: If a HPE 3810 stack is discovered via SNMP discovery on the network, and the stack member with commander status is moved to another stack, an invalid stack record may appear in the Member Switch table for members of the original stack.</p> <p>Workaround: Adding another stack to the OV3600 server may clear these invalid entries.</p>
DE23592	<p>Symptom: VisualRF does not correctly save modifications to floor plans.</p> <p>Scenario: When modifying floor plans using the VisualRF section of the OV3600 WebUI, changes to the floor plans settings (like the floor name or number) are not correctly saved.</p> <p>Workaround: Re-measure the floor plan to save modifications to the floor plan settings.</p>
DE23289	<p>Symptom: VisualRF floor plans do not open correctly for clients accessing the OV3600 WebUI via the Microsoft Edge browser.</p> <p>Scenario: When viewing the VisualRF section of the OV3600 WebUI using the Microsoft Edge browser on a Windows 10 client, double clicking on a building or floor does not open the page for that building or floor.</p>
DE23281	<p>Symptom: If the APs/Devices > Monitor page for a device displays a VPN IP address, hovering your mouse over that VPN IP address displays a HTTPS and SSH tooltip that contains invalid links.</p> <p>Scenario: This issue occurs because the VPN IP address displayed on that page is an internal IP address. Clicking the HTTP link in the tooltip displays a blank page, and on the SSH link does not log a user into any device.</p>
DE19402	<p>Symptom: Reports exported via FTP are not sent if the report is modified, as the modified report fails to authenticate to the FTP server.</p> <p>Scenario: This issue occurs when you modify an existing FTP report and do not re-enter the FTP server passwords in the Export Options section of the Reports > Definition > Export Options page.</p> <p>Workaround: Redefine the FTP server password when you modify a report to be exported via FTP.</p>

Table 18: Known Issues in OV3600 8.2 (Continued)

ID	Description
US14365	<p>Symptom: PVOS commands values are unnecessarily grouped in the device running-config</p> <p>Scenario: Some ArubaOS-Switch Operation System commands which are executed individually on the switch appear in a group in the device running-config. OV3600 supports a 1:1 comparison of commands from the template and the device running-config, so this grouping may incorrectly cause the device to show a mismatch.</p> <p>For example, the template may show two separate commands:</p> <pre>loop-protect transmit-interval 10 loop-protect disable-timer 3000</pre> <p>While the running-config groups these into a single line:</p> <pre>loop-protect transmit-interval 10 disable-timer 3000</pre> <p>Workaround: Use the grouped command directly in the template to avoid a mismatch.</p>
US14468	<p>Symptom: PVOS commands values may vary between the template and device running-config</p> <p>Scenario: When using template configuration to configure Power over Ethernet settings, the template command power-over-ethernet pre-std-detect is modified in the running configuration to add port values. OV3600 supports a 1:1 comparison of commands from the template and the device running-config, so this modification of the value may incorrectly cause the device to show a mismatch.</p> <p>For example, the template may show the command:</p> <pre>power-over-ethernet pre-std-detect</pre> <p>While the running-config adds port number values</p> <pre>power-over-ethernet pre-std-detect ports 1-48</pre>
US14468	<p>Symptom: PVOS commands values may vary between the template and device running-config</p> <p>Scenario: When using template configuration for 5400R, 3810, and 3800 Aruba switches, if the template command ip aspath list does not include a sequence number, the running configuration applies a sequence value of 5. OV3600 supports a 1:1 comparison of commands from the template and the device running-config, so this modification of the value may incorrectly cause the device to show a mismatch.</p> <p>For example, the template may show the commands:</p> <pre>ip aspath-list listname deny abcd</pre> <p>While the running-config adds a sequence number to the running configuration:</p> <pre>ip aspath-list "listname" seq 5 deny "abcd"</pre>
US14471	<p>Symptom: PVOS commands values may vary between the template and device running-config</p> <p>Scenario: On 2530 and 2620 Aruba switches, some ArubaOS-Switch Operation System commands which are executed individually on the switch appear in a modified format in the device running-config, where leading zeros in a configuration value are added or deleted, and hexadecimal values in a template configuration may appear in a decimal value in the running configuration. OV3600 supports a 1:1 comparison of commands from the template and the device running-config, so this modification of the value format may incorrectly cause the device to show a mismatch.</p> <p>For example, the template may show the command:</p> <pre>qos rate-limit dscp 0 1 kbps 0</pre> <p>While the running-config adds one or more leading zeros to the value:</p> <pre>qos rate-limit dscp 000000 1 kbps 0</pre> <p>Workaround: Use the expanded command set in the template to avoid a mismatch.</p>

Table 18: Known Issues in OV3600 8.2 (Continued)

ID	Description
US14471	<p>Symptom: PVOS commands values may vary between the template and device running-config</p> <p>Scenario: On 2530 and 2620 Aruba switches, some ArubaOS-Switch Operation System commands which are executed individually on the switch appear in a modified format in the device running-config, where leading zeros in a configuration value are added or deleted, and hexadecimal values in a template configuration may appear in a decimal value in the running configuration. OV3600 supports a 1:1 comparison of commands from the template and the device running-config, so this modification of the value format may incorrectly cause the device to show a mismatch.</p> <p>For example, the template may show the command: <pre>qos rate-limit dscp 0 1 kbps 0</pre></p> <p>While the running-config adds one or more leading zeros to the value: <pre>qos rate-limit dscp 000000 1 kbps 0</pre></p> <p>Workaround: Use the expanded command set in the template to avoid a mismatch.</p>
US14471	<p>Symptom: Individual PVOS commands values are unnecessarily divided in the device running-config</p> <p>Scenario: Some ArubaOS-Switch Operation System commands which are executed individually on the switch appear in multiple lines in the device running-config. OV3600 supports a 1:1 comparison of commands from the template and the device running-config, so this grouping may incorrectly cause the device to show a configuration mismatch.</p> <p>For example, the template may show one individual command: <pre>ip source-interface all vlan 1</pre></p> <p>While the running-config divides the values from this command into multiple lines: <pre>ip source-interface tacacs vlan 1 ip source-interface radius vlan 1 ip source-interface syslog vlan 1 ip source-interface telnet vlan 1 ip source-interface tftp vlan 1 ip source-interface snmp vlan 1 ip source-interface sflow vlan 1</pre></p> <p>Workaround: Use the expanded command set in the template to avoid a mismatch.</p>
N/A	<p>Symptom: Due to a known issue on an Aruba switch (CR191863), the switch state does not change from Factory to Non-Factory unless the switch reboots. If OV3600 pushes a partial configuration that does not require a reboot, OV3600 continues to see the switch in the Factory state.</p> <p>Scenario: The switch UI page that allows you to fetch a template includes a Push complete configuration file: Device is rebooted after config push option. If a user selects No for this option on a factory-default switch provisioned via a DHCP server, OV3600 only pushes a delta configuration, which does not result in a switch reboot. If a user adds settings via OV3600 that are not supported by OV3600 8.2, the full configuration is not pushed and hence the unsupported commands are not applied on the switch.</p>
N/A	<p>Symptom: If a user decides to reset the switch to a factory default state from the switch command-line interface, all stored passwords, security credentials and system settings will reboot in a factory default state.</p> <p>Scenario: This issue occurs because OV3600 always executes the include-credentials command when pushing a configuration to a switch.</p>

Table 18: Known Issues in OV3600 8.2 (Continued)

ID	Description
N/A	<p>Symptom: Unrecognized PVOS command syntax.</p> <p>Scenario: OV3600 may not recognize some syntax for some ArubaOS-Switch Operating System commands, and therefore will not allow to users to configure these commands via OV3600.</p>
N/A	<p>Symptom: Unrecognized PVOS defaults and values.</p> <p>Scenario: OV3600 may not recognize some default values or the "no" syntax for some ArubaOS-Switch Operating System commands, and therefore will not recognize these values when these commands are configured via OV3600.</p> <p>For example, if a template has the command ipv6 hop-limit 100, OV3600 would be expected to push the default value for this command (64 hops) if that line is removed from the template. If the default value is missing from the command and not recognized by OV3600, the device could not return to its default value, and a configuration mismatch could occur.</p> <p>Workaround: Issue the default value for the command within <push_to_exclude> tags in the template, as shown below.</p> <pre data-bbox="344 783 625 867"><push_to_exclude> ipv6 hop-limit 64 </push_to_exclude></pre>
N/A	<p>Symptom: Commands are hidden in the running-config.</p> <p>Scenario: Some commands may be hidden by the switch in the running-config and CLI help. Additional steps may be required to add these command settings via template configuration.</p> <p>Workaround: Add a hidden command to a device running config by including within <push_to_exclude> tags. For example, to ad the commands crypto key zeroize autorun rsa and crypto key zeroize ssh-client-key, to the template, use the following format:</p> <pre data-bbox="344 1136 808 1247"><push_to_exclude> crypto key zeroize autorun rsa crypto key zeroize ssh-client-key </push_to_exclude></pre>

