OmniVista 3600 Air Manager 8.2.14.0

Alcatel·Lucent
Enterprise

Release Notes

The following table lists the revision numbers and the corresponding changes that were made in this release:

Table 1: *Revision History*

Revision	Change Description
Revision 01	Initial release.

OV3600 8.2.14.0 is a main release that introduces new features and provides fixes to known issues. Refer to these release notes for the most up-to-date information.

These release notes contain the following chapters:

- New Features in OV3600 8.2.14.0 describes new features in this release.
- Resolved Issues in OV3600 8.2.14.0 describes the issues we've fixed.
- Known Issues in OV3600 8.2.14.0 describes known issues.
- Upgrade Instructions describes how to upgrade your software.

Contacting Support

Contact Center Online	
Main Site	https://www.al-enterprise.com/
Support Site	https://businessportal2.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

OV3600 introduces new features and fixes to issues detected in previous releases. There are no licensing changes in this release.

NOTE

- For a complete list of supported products and validated firmware versions, refer to the *OmniVista 3600 Air Manager 8.2.14.0 Supported Infrastructure Devices*.

- OV3600 8.2.14.0 now supports management of the 10.9 firmware Halon devices.

- The following features are pre-enabled in the OmniVista 3600 Air Manager 8.2.14.0 release, and the pre-enabled features are fully functional only after the upcoming AOS-W release:

  ○ Support for 9240 Campus Gateway.

  ○ Support for AP-655, AP-584, AP-585, AP-587, AP-585EX, and AP-587EX.

  ○ The uplink MU-MIMO transmission **he-ul-mu-mimo** knob support in IAP for 6 GHz radio profile.

  ○ Support for new IAP CLIs in AOS-W 8.10.0.0.

New Features

Mesh Support for AP-635

OV3600 8.2.14.0 provides mesh support for AP-635. AP-635 access points support 2.4 GHz, 5 GHz, and 6 GHz radios. The **802.11ax (6 GHz)** option is available only for AP-635 access point.

Support for LACP Lag Aggregate Links in Topology for CX Switches

OV3600 8.2.14.0 introduces support for LACP Lag Aggregate links in Topology for the CX Switches.

Support for Cisco 9120 and 9130 Series Access Points

OV3600 8.2.14.0 introduces support for Cisco 9120 and 9130 Series Access Points.

For more information, see **OV3600 Supported Infrastructure Devices** document.

Support for Microsoft Teams in UCC

OV3600 8.2.14.0 supports Microsoft Teams and aggregates UCC call data and represents them in the UCC dashboard.

To view the UCC dashboard, navigate to the **Home > UCC** page.

Support for HPE 5945 Switch Series

OV3600 8.2.14.0 introduces support for HPE 5945 Switch Series.

For more information, see *OV3600 Supported Infrastructure Devices* document.

Support for Trusted CA Certificates

OV3600 8.2.14.0 introduces **Trusted CA Cert** option in the **Device Setup > Certificates** page that allows an IAP to authenticate against a switch in the uplink.

VisualRF Support for AP-635

OV3600 8.2.14.0 provides VisualRF support for AP-635 and allows to add as a deployed device onto the floor plan. AP-635 access points support 2.4 GHz, 5 GHz, and 6 GHz radios. The **11aX6, Access** and **6 GHz** options are available only for AP-635 access points.

This section describes the issues resolved in this release.

Table 2: *Resolved Issues in OV3600 8.2.14.0*

Bug ID	Description	Reported Version
DE34756	The user was able to monitor or view the Cisco 9800 WLC device in the **Devices > List > Devices List** table. However, the **Location** column in the **Device List** table did not display any data corresponding to the device. Also, the event logs for the controller displayed the **Not applying configuration because thin APs have not read configuration** error message.	OV3600 8.2.12.0
DE35117	The user was unable to view the current clients connected to the Switch as the OV3600 server displayed only up to a maximum number of seven clients.	OV3600 8.2.12.1
DE35156	The user was unable to access the OV3600 WebUI after every reboot in OV3600 installed on Hyper-V.	OV3600 8.2.12.1
DE35187	The status of the AP did not update and remained in **Down** state when the OV3600 server was upgraded to OV3600 8.2.12.1 version.	OV3600 8.2.12.1
DE35213	When a user generated the **RF Health** report in the **Reports > Definitions** page, the report generation process failed, triggering the **awwrrdtool unexpectedly exited** error message.	OV3600 8.2.12.1
DE35243	The graphs' patterns changed on the AMP servers as the graphs were getting plotted based on the AMON data received from the Switch.	OV3600 8.2.12.1
DE35249	The user was unable to generate reports on the conductor AMP servers as the reports were stuck in the **In Progress** state.	OV3600 8.2.12.1
DE35251	The user was unable to downgrade the switches within a group although the **Enforce Group Firmware Version** and **Allow Downgrade of Device** options were enabled in the **Groups > Firmware** page.	OV3600 8.2.12.1
DE35252	The user was unable to access the OV3600 AMP CLI due to multiple keystroke issue of the ILO.	OV3600 8.2.12.1
DE35259	The user was unable to view the rogue devices in the **Devices > Monitor** page when the OV3600 server was upgraded to OV3600 8.2.10.1 version.	OV3600 8.2.10.1
DE35266	The OV3600's PAPI handler daemon restarted several times when the OV3600 server was migrated to CentOS 7 version.	OV3600 8.2.12.1
DE35276	OV3600 was unable to manage 10.9 firmware VSF supported devices.	OV3600 8.2.13.0
DE35284	The backup storage of the Master console at night increased from 3 GB to 19 GB when the OV3600 server was migrated to CentOS 7 version.	OV3600 8.2.13.0

Bug ID	Description	Reported Version
DE35295	A mismatch in data usage was observed between the **Traffic Analysis Report** and **Client Session Report** for a user in the OV3600 WebUI.	OV3600 8.2.10.1
DE35297	In the OV3600 WebUI, the status of the virtual Switch was displayed as **Down (Virtual Controller has not checked in for more than 5 minutes)** in the **Groups > Monitor** page.	OV3600 8.2.12.1
DE35299	In the OV3600 WebUI, the **Total Wired Clients** information was missing in the **Clients > Client Details** page.	OV3600 8.2.12.1
DE35300	The new APs were not discovered and an incorrect number of clients was displayed in the AMP server.	OV3600 8.2.13.0
DE35310	The user was unable to perform an online upgrade of the OV3600 server when proxy option was selected in online upgrade process.	OV3600 8.2.13.0
DE35327	OV3600 displayed an incorrect number of wired clients in the **Devices > List** page.	OV3600 8.2.13.0
DE35328	OV3600 failed to create a manual or automatic backup file for the HPE 5945 Switch Series.	OV3600 8.2.13.0
DE35335	The **RAPIDS > List** page displayed an incorrect number of rogue devices as it failed to update at frequent intervals.	OV3600 8.2.13.0
DE35343	In the OV3600 WebUI, when a device was moved to another folder an incorrect symbol was displayed in the **Devices > List > Confirm changes** page.	OV3600 8.2.12.0
DE35346	OV3600 failed to discover the member switches for an Aruba 3810 stack switch in the **Devices > Monitor** page.	OV3600 8.2.12.0
DE35348	The /var/log directory was full as the size of the pgsql log file increased to 34 GB.	OV3600 8.2.10.1
DE35349	When a user generated the **Device Uptime** report excluding the weekends, a discrepancy was observed in the uptime of the device.	OV3600 8.2.12.1
DE35368	OV3600 failed to upgrade from OV3600 8.2.5.1 to any other later versions.	OV3600 8.2.5.1
DE35369	The 6GHz Phytype9 elements were missing from the **monStaInfoPhy** and **monAPInfoPhyType** SNMP Objects.	OV3600 8.2.13.1
DE35370	The **Traffic Analysis Client Sessions** processor restarted repeatedly due to an increase in the number of clients.	OV3600 8.2.5.1
DE35373	OV3600 displayed an incorrect number of clients connected to the Switch.	OV3600 8.2.13.0
DE35380	The logrotate.status file had a file pointing to a directory and did not rotate as expected.	OV3600 8.2.13.0

Bug ID	Description	Reported Version
DE35381	OV3600 failed to push the **Trusted CA** certificate to an IAP in the Instant GUI Config (IGC) mode.	OV3600 8.2.13.0
DE35385	Some AP-635 access points within a group were shown in a **Mismatched** state when the Wi-Fi2 access mode was configured for the 6 GHz radio in the **Groups > Instant Config > Access Points** page.	OV3600 8.2.13.1
DE35387	The OV3600 servers displayed an inconsistent number of clients connected to the controller every few minutes.	OV3600 8.2.13.0
DE35390	OV3600 displayed indecisive images of floor plan when the images were uploaded using specific .dwg files to VisualRF.	OV3600 8.2.13.0
DE35391	The syslog server was flooded by the Rabbitmq session logs in the /var/log/secure log.	OV3600 8.2.13.0
DE35398	The floor plan images had missing data and the alignments changed when the floor plans were zoomed in or zoomed out in VisualRF.	OV3600 8.2.13.0
DE35400	The configuration status of the Switch was displayed as mismatched in the **Devices > Config** page although OV3600 cannot perform configuration audit on the Switches.	OV3600 8.2.13.0
DE35401	When AMP Allowlist was enabled and an IP address that was not allowed tried to access the AMP GUI, a custom message **IP address is not in the approved AMP Allowlist. Please contact Administrator.** was displayed.	OV3600 8.2.11.2
DE35413	The Traffic Analysis data was missing when a specific duration within the retention interval was selected in the **Home > Traffic Analysis** page.	OV3600 8.2.12.0
DE35418	After upgrading to OV3600 8.2.13.0 version, new APs connected to a Switch cluster were not discovered.	OV3600 8.2.13.0
DE35420	After upgrading to OV3600 8.2.13.0 version, the **Client Diagnostics** page crashed and the user was unable to generate any reports in the **Reports > Generated** page as Rrdcached service was down.	OV3600 8.2.13.0
DE35422	When Ethernet bonding was configured, OV3600 failed to configure Network Time (NTP) and an error occurred.	OV3600 8.2.12.1
DE35427	The user was unable to view the RF Neighbors for APs running on ArubaOS 8.x.x.x.	OV3600 8.2.12.1
DE35432	LAN MAC address was not displayed properly for 4100, 6100, 6400, 8320, 8325, and 8400 switches with 10.9 firmware.	OV3600 8.2.14.0
DE35435	After upgrading from Airwave 8.2.12.0 to OV3600 8.2.13.1, the user was unable to view the **Groups** and the **Devices** tab as the OV3600 server encountered an error.	OV3600 8.2.13.1

Bug ID	Description	Reported Version
DE35438	When a new floor plan was created by importing a .dwg file from the AutoCAD, the layers that were imported as walls for the floor plans were mismatched.	OV3600 8.2.13.0
DE35443	The **Orientation** option was unavailable for an Alcatel-Lucent OAW-AP-377 access point in the **Visual RF > Floor Plans > Properties** page.	OV3600 8.2.13.0
DE35446	OV3600 displayed incorrect information about the index values of the radios of the Remote APs in the **Devices > Monitor > Devices** page.	OV3600 8.2.12.1
DE35448	After upgrading from Airwave 8.2.9.1 to either OV3600 8.2.10.1 CentOS 6 or OV3600 8.2.10.1 CentOS 7, the SNMP polling for the new Cisco 9800 WLC Switches did not work.	OV3600 8.2.10.1
DE35449	OV3600 logged in to the Switch every 5 minutes to collect crash information and the login sessions did not timeout.	OV3600 8.2.13.1
DE35463	A mismatch was observed in the tunneled wired client count between OV3600 and the Switch.	OV3600 8.2.13.1
DE35464	OV3600 sent mails with invalid sender and receiver e-mail address for every hourly and daily cron jobs.	OV3600 8.2.12.1
DE35473	The **Clients** and **Usage** graphs in the **Home > Overview** page did not display historical data.	OV3600 8.2.13.0
DE35476	After upgrading from Airwave 8.2.9.1 to OV3600 8.2.10.1 CentOS 6, the reports were stuck in pending state in the **Reports > Generated** page.	OV3600 8.2.10.1
DE35492	OV3600 failed to detect rogue devices within the network until a reboot and the issue reoccurred after few days.	OV3600 8.2.12.1

This section describes the known issues and limitations observed in this release.

Limitation

Following are the limitations observed in this release:

- OV3600 8.2.14.0 does not support new devices introduced in Halon 10.9 release. This support will be available in OV3600 8.2.14.1 release.
- The usage graph in the controller monitoring page for the mobility device reports the data for client usage twice, although only one client is connected.
- After a VSF switchover, LACP links between AOS-CX switches are not displayed properly.
- When an AP-635 access point is configured, logging that does not affect functionality occurs in the OV3600 configuration page.

Known Issues

Following are the known issues observed in this release:

Table 3: *Known Issues in OV3600 8.2.14.0*

Bug ID	Description	Reported Version
DE34849	SSH or Telnet command timed out message appears in the AMP **Events Log** and the controller configuration backup fails, although SSH or Telnet credentials are correct in the OV3600 UI.	OV3600 8.2.11.1
DE34939	Interface VLANs are not getting deleted in virtual interfaces on monitoring devices.	OV3600 8.2.14.0
DE34940	Lag entries are not getting deleted on OV3600 even after the device is deleted.	OV3600 8.2.12.0
DE35196	The polling bridge forwarding tables create stale SNMPFetcher UDP sockets for the Cisco devices. **Workaround:** To resolve the issue, do any of the following: - In the **Groups > Basic** page, disable the **Read Bridge Forwarding Table** in the **Routers and Switches** section. - In the **RAPIDS > Setup** page, set the range of VLANs to be ignored in **Ignore Events from VLAN(s)**. - Increase the SNMP Fetcher UDP Sockets range.	OV3600 8.2.12.1
DE35201	Unsafe-inline message is displayed for style-src in the content security policy wherein the CSP: Inline scripts can be inserted.	OV3600 8.2.12.1

Bug ID	Description	Reported Version
	NOTE: Unsafe-inline message is displayed for style-src and script-src in the content security policy. In OV3600 8.2.14.0, the style-src warning is a known issue and the script-src issue will be fixed from OV3600 8.2.14.0 onwards.	
DE35429	After a server reboot, interface name gets reverted from ethX to enp2s0fX. For example, eth1 become enp2s0f0 and eth2 become enp2s0f1.	OV3600 8.2.12.1
DE35461	OV3600 displays that the rogue containment of the device is not supported in the **RAPIDS > Detail** page.	OV3600 8.2.13.0
DE35549	After the images are imported from the Ekahau backup, few floor plan images appear blurred in the **VisualRF > Floor Plans** page. **Workaround:** For better quality of the floor plan images, skip rasterization by setting the **svg.enforce.ekahau.rasterization** parameter as 0 in **svg.properties** and then restarting VisualRF. To regain the quality of the floor plan images, complete the following steps: 1. From VisualRF, remove the already uploaded floor plan. 2. From the root shell, go to vi /usr/local/airwave/lib/java/svg.properties. 3. Add svg.enforce.ekahau.rasterization=0 or change the value of svg.enforce.ekahau.rasterization as 0 if present and save this file. 4. Enter cd /var/airwave/cache. 5. Remove visualrf_bootstrap by using the rm -rf visualrf_bootstrap command. 6. Restart visualRF engine by using psk airwave.visualrf.jar command. 7. Re-upload the floor plan.	OV3600 8.2.14.0

Chapter 5
Upgrade Instructions

This chapter provides the following information to help you with the upgrade process:

- Minimum Requirements
- Verify Current CentOS Version
- Upgrade Paths
- Upgrade from OV3600 8.2.9.x or 8.2.10.x with CentOS6 Migration
- Upgrade from OV3600 8.2.4.3, 8.2.10.x or 8.2.11.0 with CentOS7

Minimum Requirements

Ensure that you have sufficient disk storage, memory, and hardware or software versions. As additional features are added to OV3600, increased hardware resources become necessary and hardware requirements vary by version. For the most recent hardware requirements, refer to the latest *OmniVista 3600 Air Manager Server Sizing Guide*.

Verify Current CentOS Version

Before you upgrade, verify the version of CentOS currently running on your OV3600 server.

1. From the OV3600 command-line interface, enter **8** to select **Advanced**, then enter **2** to select **Enter Commands**.
2. Enter the command **$osrel**.

The output of this command indicates the version of CentOS currently in use. Use this information to determine your upgrade path.

Upgrade Paths

- Your upgrade workflow depends on your current version of OV3600 and CentOS:
- To upgrade from OV3600 8.2.9.x, or OV3600 8.2.10.x with CentOS6, follow the steps in Upgrade from OV3600 8.2.9.x or 8.2.10.x with CentOS6 Migration
- To upgrade from OV3600 8.2.4.3, OV3600 8.2.10.x, or OV3600 8.2.11.x with CentOS7, follow the steps in Upgrade from OV3600 8.2.4.3, 8.2.10.x or 8.2.11.0 with CentOS7.

> **NOTE:** If you are upgrading from OV3600 8.2.8.x or earlier, contact Technical Support for help with a multiple-step upgrade path.

Upgrade from OV3600 8.2.9.x or 8.2.10.x with CentOS 6 Migration

OV3600 8.2.14.0 requires an upgrade to CentOS 7. The migration process involves upgrading to OV3600 8.2.10.1, backing up your data, exporting the backup file, performing a fresh install of OV3600 8.2.10.1 and CentOS 7 on your server, then restoring the backup data onto that server and then upgrading to OV3600 8.2.14.0.

After you perform this upgrade, follow the steps in Upgrade from OV3600 8.2.4.3, 8.2.10.x or 8.2.11.0 with CentOS 7 to upgrade to 8.2.14.0.

Upgrade to OV3600 8.2.10.1 before backing up your data. You cannot restore an OV3600 8.2.8.x, 8.2.9.x, or 8.2.10.0 (on CentOS 6) backup on an OV3600 server running OV3600 8.2.14.0.

For more information on creating backups of your data, refer to the **System Pages** section of the OV3600 User Guide. For information on performing a fresh installation of OV3600 8.2.14.0, refer to the OV3600 Installation Guide.

Upgrades from OV3600 8.2.8.x, 8.2.9.x, or 8.2.10.0 on CentOS 6 might fail with the following PuTTY fatal error message: Server unexpectedly closed network connection when your SSH session becomes unresponsive.

To avoid this issue, change the keep-alive interval to a low setting as follows:

1. Using a terminal console, such as PuTTY, open an SSH connection with the OV3600.

2. Enter 30 to 60 seconds for sending null packets between keep-alive messages.

Before You Begin

Prior to migration, navigate to **Home > License** and save a copy of the license key. OV3600 licenses are associated with the server IP address. All new installations of OV3600 have a 90-day grace period for licenses.

Keep these considerations in mind when working with OV3600 licenses:

- If you plan to reuse the same IP address, then apply the license key after you restore the OV3600 8.2.9.x backup.

- If you are planning to migrate data to a new server, work with Aruba support or use the license portal, to generate the new license in advance, then follow the migration path and apply the new license key. Keep in mind that you may have to adjust some devices (such as Instant APs and devices that send AMON or syslog messages to OV3600) in order for those devices to send updates to the new IP address.

Step 1: Upgrade to OV3600 8.2.10.1

1. Log in to the OV3600 server with the "ampadmin" user name and password. If you previously changed the ampadmin user name and password, enter the current admin name and password.

2. Enter **4** to select **System**.

a. At the next prompt, enter **1** to select **Upgrade**, then enter 1 to select **Upgrade OV3600 Management Software**.

b. Select the option for **8.2.10.1**.

If the **8.2.10.1** software doesn't appear in the list of local upgrade versions, select option **2 None of the Above**, then manually enter **8.2.10.1**.

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c. Enter **y** to enable OV3600 to connect to a proxy server. Or, you can enter **N** to bypass this step and go to to download the software. At the next prompt:

Enter the server address and port number (for example, *test.proxy.com* and port *22*).

Enter **y** to enter the proxy user name and password (for example, *testuser* and *password*).

d. Enter **1** or **2** to log in to your customer portal with your support user name and password.

e. Follow the onscreen instructions to download the software.

Step 2: Back up your OV3600 8.2.10.x Data

1. Log in to the OV3600 server with the "ampadmin" user name and password. If you previously changed the "ampadmin" user name and password, enter the current credentials.

2. Enter **2** to select **Backup**.

3. Enter **1** to open the **Backup** menu.

4. Enter **1** to select the **Backup Now** option.

Step 3: Export the Backup

1. After creating your backup, enter **b** to return to the previous **Backup** menu

2. Enter **5** to open the **Users** menu options, then enter **3** to add a file transfer user.

3. Enter a user name for the file transfer user, then click **Enter**. The user name for an OV3600 image file transfer user must be five characters or longer, and contain only lowercase letters and numbers. To use the default file transfer user name **awscp**, click **Enter** without entering a user name.

4. Enter a password for the file transfer user, then click **Enter**. The password must be eight characters or longer, and can contain uppercase and lowercase letters, numbers, and non-alphanumeric characters. Spaces are not allowed.

5. Enter **b** to go back to the main CLI menu.

6. Use SCP to connect to your remote repository and move the OV3600 8.2.10.1 backup file from the OV3600 **/user** directory to a remove server.

Step 4: Migrate to CentOS 7

Perform a fresh installation of OV3600 8.2.10.1 to automatically upgrade CentOS 6.x to CentOS 7.

> **NOTE**
>
> For more information on installing a new instance of OV3600 8.2.10.1 on your server, refer to the OV3600 8.2.10.1 Installation Guide *Pre-Installation Checklist.*

Step 5: Upload the Backup

Follow one of these steps to upload the backup on the OV3600 server:

- If using SCP, enter **1-1** to open the **File** and **Upload File** menus. Provide the user name, host, and path for an SCP server using FIPS-approved encryption.

- If using SFTP, enter **5-3** to open the **User** and **Add File Transfer User** menus. Log in from another system using those credentials, and upload the backup.

Step 6: Restore the Data

Follow these steps to restore the backup on OV3600 8.2.10.1:

1. From the OV3600 CLI, enter **2-2** to open the **Backups** and **Restore** menus.

2. Enter **1** to restore the server from the uploaded backup.

Step 7: Install Certificates

In this step, you will add an SSL certificate, or generate a certificate signing request and install a signed certificate.

To add the SSL certificate:

1. From the command-line interface, enter **3-4** to open the **Configuration** and **Certificates** menus.

2. Enter **1** to open the **Add SSL Certificate** menu.

3. Follow the prompt to install the SSL certificate on your AMP server. The signed certificate should be in PKCS12 format with a *.pfx or *.p12 file extension.

To generate a CSR and install the certificate:

1. From the command-line interface, enter **3-4** to open the **Configuration** and **Certificates** menus.

2. Enter **2** to open the **Generate Certificate Signing Request** menu.

3. Follow the prompt to create a CSR that identifies which server will use the certificate.

4. Next, enter **b** to return to the previous menu,

5. Enter **1-2** to open the **Files** and **Download File** menu to download the resulting CSR.

6. Send the CSR to your certificate signer.

7. Once the certificate is signed, upload the certificate to the OV3600 8.2.10.1 server.
   - If using SCP, enter **1-1** to open the **File** and **Upload File** menus. Provide the user name, host, and path for an SCP server using FIPS-approved encryption.
   - If using SFTP, enter **5-3** to open the **User** and **Add File Transfer User** menus. Log in from another system using those credentials, and upload the backup.

8. From the WebUI, go to **Device Setup > Certificates**, then click **Add** to add a trusted root CA certificate. Provide the following information:
   - Certificate name.
   - Certificate file. Click **Upload File** to find the certificate file on your local system, then click **Open**.
   - Password.
   - Certificate format.
   - Certificate type.

9. From the **3-4 Configuration** and **Certificates** menu, enter **3** to open the **Install Signed Certificate** menu.

10. Follow the prompts to install the certificate.

Step 8: Upgrade to OV3600 8.2.12.0

Proceed to Upgrade from OV3600 8.2.4.3, 8.2.10.x or 8.2.11.0 with CentOS 7.

Upgrade from OV3600 8.2.4.3, 8.2.10.x or 8.2.11.0 with CentOS 7

An upgrade from OV3600 versions 8.2.4.3, 8.2.10.x or 8.2.11.0 using CentOS 7 is straightforward and does not require a CentOS migration. If you are upgrading from OV3600 versions 8.2.4.3 or 8.2.10.x upgrade to OV3600 8.2.11.x before upgrading to OV3600 8.2.12.0. Use the AMP CLI to install the OmniVista 3600 Air Manager 8.2.14.0 upgrade package on your system. If your network doesn't allow OV3600 to connect to the Internet, you must manually download the software and upload the software before performing this upgrade.

NOTE	You can change the existing amprecovery user name by backing up the server, reinstalling the software, and restoring from the backup. For information about setting up the amprecovery account, refer to *Installing the Software (Phase 2)* in the *OV3600 8.2.14.0 Installation Guide*.

Follow these steps to upgrade to OV3600 8.2.14.0:

1. Log in to the OV3600 server with the "ampadmin" user name and password. If you subsequently changed the "ampadmin" user name and password, enter the current admin name and password.

2. Enter **4** to select **System**.

a. At the next prompt, enter **1** to select **Upgrade**.

b. Select the option for **8.2.14.0**.

NOTE	If the 8.2.14.0 software doesn't appear in the list of local upgrade versions, select option **2 None of the Above**, then manually enter **8.2.14.0**.

c. Enter **y** to enable OV3600 to connect to a proxy server. Or, you can enter **N** to bypass this step and go to to download the software. At the next prompt:

   Enter the server address and port number (for example, *test.proxy.com* and port *22*).

   Enter **y** to enter the proxy user name and password (for example, *testuser* and *password*).

d. Enter **1** or **2** to log in to your customer portal with your support user name and password.

e. Follow the onscreen instructions to download the software.

Upgrade to OV3600 8.2.12.0 in Aruba Central (on-premises) Server

If you are performing a fresh installation of OV3600 8.2.12.0 on Aruba Central (on-premises) servers, interfaces on the Aruba Central (on-premises) server will always be in the following order:

- eth0- eth3 – 1G interfaces
- eth4 and eth5 - 10G interfaces

If you are upgrading from a prior OV3600 version to OV3600 8.2.12.0 on Aruba Central (on-premises) servers, the following message is displayed.

```
Running Upgrade

Local upgrade versions:

1. 8.2.12.0.20201112.0001
2. None of the above.

Which version? 1
Upgrading to 8.2.12.0.20201112.0001.  The system will be rebooted when the upgrade completes.
Proceed? (y/N) y
Upgrade script AMP-8.2.12.0.20201112.0001-amp_upgrade was not found in local cache.
Upgrade package found in local cache.
Validating the upgrade package...
Using upgrade script extracted from local package.
Upgrade package found in local cache.

 Vendor = HPE , Product = ProLiant DL360 Gen10

 Old Version --> 8.2.11.0 ; New Version --> 8.2.12.0.20201112.0001
Do not proceed if you are not using console. You may lose connectivity and must
reconfigure network from "Configuration->Configure Network Settings" menu using
the console after upgrade. Would you like to continue with the upgrade? (y/N):
```

Perform the following steps on Aruba Central (on-premises) server Gen10 server with both 1G and 10G interfaces only.

1. Run upgrade to OV3600 8.2.12.0.

2. Post upgrade, run **intfinorder**, reboot, and configure network setup by entering the following options in AMP CLI:

a. Enter option **8 - Advanced**.

b. Enter option **1 - Custom Commands**.

c. Enter option **2 - Enter Commands**.

d. This will run the enter commands, execute **$ intfinorder**

```
Advanced
  1  Custom Commands >
  2  Enter Commands
  b  >> Back
Your choice: 2

Running Enter Commands

Type 'help' for the list of commands.
$ intfinorder
Use this script on HPE physical appliance especially if you intend to use 10G ports.
Running this script will ensure interfaces are detected / named in the same order
everytime the system is rebooted. Not required to be run for systems using fresh installed 8.2.12
and beyond releases.


 Please make sure you have console access. You need to reboot and do a network setup (AMPCLI->Configura
tion (3) -> Configure Network Settings(1)) post reboot after the execution of this command.

 Do you want to continue (y/N)? :
```

e. Click **y** when prompted with **Do you want to continue (y/N)?:** message.

3. Type **exit** and navigate to the CLI prompt and select option **4 – System** and then, select option **4 - Reboot System** to reboot the system.

```
System
  1  Upgrade
  2  Disable AMP
  3  Restart AMP
  4  Reboot System
  5  Shutdown System (halt)
  6  Show SNMPv3 EngineID
  7  Module Key
  b  >> Back
Your choice: 4

Running Reboot System

Are you sure? (y/n): y
```

4. If you lose connection to Aruba Central (on-premises) server post step 3, login to the ILO/console of the server and navigate to the CLI prompt, and select option **3 – configuration** and **option 1-Configure Network Settings**.

```
Configuration
  1  Configure Network Settings
  2  Set Hostname
  3  Set Timezone
  4  Certificates >
  5  SSHD >
  6  CLT >
  b  >> Back
Your choice: 1

Running Configure Network Settings

Running [/usr/local/airwave/bin/network_setup]...
Here are the ethernet interfaces with hardware present:

 1. eth0    new   20:67:7c:d9:65:bc
 2. eth1    new   20:67:7c:d9:65:bd
 3. eth2    new   20:67:7c:d9:65:be
 4. eth3    new   20:67:7c:d9:65:bf
 5. eth4    new   48:df:37:72:39:90
 6. eth5    new   48:df:37:72:39:98
 q. Quit

Which interface shall we configure?
```

5. Select the proper network interface and configure the IP address for your AMP and commit the changes. The AMP should be reachable with the IP address configured.

    This will enable reliable ordering of interfaces in upgrade scenario that is, eth0 - eth3 mapped to1G interfaces and eth4 -eth5 mapped to 10G interfaces at the end. Once interfaces are set in proper order, future AMP upgrades will be smooth. The intfinorder script should be run mandatorily from the AMPCLI menu as described above for users using Aruba Central (on-premises) server after upgrading to 8.2.12 build.

Manually Download the Software

You can manually download the software if your OV3600 server can't access the Internet.

1. Enter your Alcatel-Lucent support user name and password to get the software from the Alcatel-Lucent Support Center.

2. Click the upgrade package, then click **Save** and install the file later.

3. Define a user that can transfer OV3600 images, and then upload the software:

> **NOTE**
> For security purposes, image file transfer users are automatically removed every night during nightly maintenance operations.

4. From the OV3600 command-line interface, with the "ampadmin" user name and password. If you subsequently changed the ampadmin user name and password, enter the current admin name and password.

5. Add a file transfer user. This process varies, depending upon the version of OV3600 currently running on your system.

   a. *If you are upgrading from OV3600 versions 8.2.10.x, 8.2.11.x, or 8.2.4.3*, enter **5** to open the **Users** menu options, then enter **3** to add a file transfer user.

   b. *If you are upgrading from OV3600 8.2.9.x*, enter **8** to open the **Advanced** menu options, then enter **7** to add a file transfer user.

6. Enter a user name for the file transfer user, then click **Enter**. The user name for an OV3600 image file transfer user must be five characters or longer, and contain only lowercase letters and numbers. To use the default file transfer user name **awsftp**, click **Enter** without entering a user name.

7. Enter a password for the file transfer user, then click **Enter**. The password must be eight characters or longer, and can contain uppercase and lowercase letters, numbers, and non-alphanumeric characters. Spaces are not allowed.

8. Enter **b** to go back to the main CLI menu.

9. Use SFTP to connect to your remote repository and upload the OV3600 8.2.14.0 upgrade file from the remote server into the OV3600 **/user** directory.