OmniVista 3600 Air Manager 6.2 General Release Notes

1. New Features

1.1 SSID-based tracking and reporting

In addition to reporting users by radio, OV3600 now reports users based on SSID. Graphs on the AP and controller monitoring pages and the group, folder and home pages have check boxes to display bandwidth in and out based on SSID. User counts will be reported under an "Unknown" SSID. OV3600 reports (with the exception of the network session report) can also be run and filtered by SSID for data prior to the 6.2 upgrade and for universal and mesh devices. There is an option on the OV3600 Setup→General page to age out SSIDs and their associated graphical data; by default, this is set to 365 days.

1.2 Tracking compliance for certain Payment Card Industry requirements

OV3600 can now be configured to help determine compliance with PCI requirements 1.1, 1.2.3, 2.1, 2.1.1, 4.1.1, 11.1 and 11.4. Tracking for each requirement is enabled on the OV3600 Setup→PCI compliance page, with the results displayed on each device's APs/Devices→Compliance tab. A report on PCI compliance can be run against specific groups, folders or requirements.

1.3 Aruba/Alcatel-Lucent remote AP user monitoring

Wireline users attached to an Aruba AP or an OAWAP-70 configured as a remote AP (via a port in untrusted mode) can now be tracked in split tunnel and tunnel modes. The MAC address, user name, and role as well as the mode are now displayed on the AP→Monitoring and AP list pages, and user detail and user list pages. Campus and remote APs are identified.

1.4 OV3600 user roles now have access to multiple branches of the folder hierarchy

OV3600 user roles can now be created with access to folders within multiple branches of the overall hierarchy. This feature is designed to assist non-admin users (such as help desk or IT staff) who support a subset of accounts or sites within a single OV3600. Prior to the 6.2 release, OV3600 user roles could only be assigned to a single top folder (such as "West Coast" or "European Stores"). User roles can now be restricted to multiple folders within the overall hierarchy even if they do not share the same top-level folder. Non-admin users will only be able to see data and users for devices within their assigned subset of folders.

1.5 Rogue AP classification

A new "classification" column on the Rogue APs page allows rogues to be categorized and sorted as Rogue, Neighbor, Valid, Suspected Rogue, Suspected Neighbor, or Unclassified (the default setting, which is configurable on the Rapids→Setup page). The classification also appears in the rogue report. RAPIDS can be configured so that the act of classifying rogues automatically acknowledges them (see the RAPIDS→Setup page for this setting and other options related to this feature). The classification exists only in OV3600 and is not pushed to devices. Upon upgrading to 6.2, all existing rogues will receive a default classification of "unclassified"; customers can change this manually from the OV3600's UI.

1.6 Search now includes rogue APs and tags

Searching for an IP address, OUI, LAN or radio MAC, or name will now bring up matching rogue devices and tags.

1.7 Authentication of OV3600 users via RADIUS

OV3600 can be configured on the OV3600 Setup→Authentication page to authenticate users against an external RADIUS or TACACS server. If the option is selected, OV3600 will first check user information against its own user database; if no match is found, it will query the configured server for username, password, and role information. The role information must be included in the attribute "Aruba-Admin-Role" under the vendor ID 14823. For further assistance, contact support.

1.8   List of APs in a down or error state on the Master Console

Helpdesk staff and other Master Console users can now view a network-wide list of devices in a down or error state.

1.9   iPhone interface for the Master Console's Public Portal

The public portal is configurable on the Master Console's OV3600 Setup→General page.

1.10   Master Console and Failover server "Device Down" trigger

Master Console and Failover servers can now be configured with triggers that generate an alert if communication is lost to a managed or watched OV3600. In addition to generating an alert, the Master Console or Failover server can also send email or NMS notifications about the event.

2. Enhancements/Changes

2.1   Alcatel-Lucent Enhancements

- Support for firmware version 3.3.2.x
- Monitor the WLAN AP Radio mode and display in on the AP→Monitor page
- WMS database offload to OV3600
    - Alcatel-Lucent WLAN switches can be configured via OV3600 to transfer their WMS load to OV3600's database, where it can be centrally utilized.
    - After offload, OV3600 classifies rogue devices as the highest severity of the corresponding BSSID, which is displayed on the Rogue→Detail page; all classifications can be overridden by the OV3600 user.
    - If a rogue device from Alcatel-Lucent WLAN switch is classified in OV3600 as "contained", OV3600 sends containment commands to the Alcatel-Lucent WLAN switch.
    - See the "OV3600 and Alcatel-Lucent Best Practices" guide more information about how to integrate OV3600 and Alcatel-Lucent devices, including enabled WMS offload. Contact Alcatel-Lucent support for more information about containment and rogue classification.

2.2   Cisco Enhancements

- Support for the 2100 controller series
- Support for the 1142 802.11n AP
- Monitoring support for the Cisco 871w (IOS Router)
    - Monitoring support includes radios
    - Configuration does not include interfaces, but ap_includes are supported
- Support for additional WLC settings for 802.11a/n and b/g/n:
    - EDCA
    - DCA
    - Video
    - Coverage
    - Client Roaming
    - Controller Multicast settings
- Thin AP settings that previously came from the controller's group are now configured on the LWAPP AP page of the thin AP's group:
    - Channel power assignment
    - Transmit power assignment
- Support for 5.2 firmware (see known issues for restrictions)
- Real-time monitoring of thin APs via SNMP traps from controllers
- Management support for time zones on WLC controllers
- Up to two RADIUS servers configured on the Groups→RADIUS page will be pushed to controllers
- Transmit power for Cisco IOS is given in dBm as well as by level

2.3 *Colubris support announcements*

- OV3600 6.3, available in spring 2009, will be the last version to offer configuration support for Colubris devices. Only Colubris devices running 4.1.1 firmware and earlier are supported for configuration in current OV3600 releases. No configuration support for more recent versions is planned. Monitoring support will continue to be provided in 6.2 and future releases.

2.4 *HP ProCurve*

- OV3600 can now fetch the serial number for the HP530

2.5 *Symbol*

- Support for the 5181
- Support for the RFS6000
- Serial number reported for Symbol 3021 APs

2.6 *Support for the Foundry IronPoint 250 access point*

- Monitor only

2.7 *Customers running Enterasys Roamabout R2 devices on 6.2 firmware may encounter monitoring issues in OV3600; please contact support for a status update on this issue.*

2.8 *VisualRF Visualization and Location Module*

- Reworked location timers – VisualRF uses its resources more efficiently to calculate device location at the optimum times.
- Enhanced network, campus and building views – Network, campus and building views now support all the functionality available in a floor plan.
- Zoom capability – Network, campus and building views now support the ability to zoom. This enables proper placement of buildings in a high-density campus.
- Custom Background – Network, campus and building views now support custom background images. This provides customer flexibility: in addition to the provided country and state maps a user can now upload a city or region background. Backgrounds can be imported from all file types supported by the floor plan upload wizard.
- Building Geo Codes – VisualRF provides the ability to store a building's longitude and latitude, which enables building display within Google Earth. By displaying buildings in Google Earth, the customer can seamlessly navigate between outdoor visualization in Google Earth and indoor visualization within Quick View.
- Site scale toggle – users can toggle a dynamic scale onto a floor plan to increase readability.
- Focus on client – Client focus now displays all radios that hear the client device, increasing the ability to diagnose coverage holes and location issues.
- Campus/building labels always displayed – since a site can now be zoomed and resized, campus and building labels are always displayed.
- Vertical location – VisualRF now more accurately locates a client device's vertical location in a multi-story building by analyzing all discovering radios and signal quality.
- Sensor data – VisualRF can now leverage information from sensors to increase location accuracy of client devices.
- RLTS support – for environments that require extremely accurate location resolution or for tracking Wi-Fi tags, VisualRF now supports a real-time location feed from Alcatel-Lucent infrastructure. This feature has the potential to affect your OV3600 server's performance, so please contact support prior to implementation.
- Enhanced Floor Plan Upload Wizard – The second phase of the importation has been renamed "manipulation phase" based on customer feedback. The dimension window is expanded by default, so users can easily determine floor dimensions during the cropping and sizing steps.
- Enhanced auto AP placement – VisualRF now supports auto placing Symbol devices.

- MS Word 2007 support for BOM – The Bill of Materials report will now render in MS Word 2007.
- Include additional information in the BOM – The Bill of Materials report now included building area, AP kit information, sensors, building address, AP details, and client transmit power.

2.9   OV3600 6.2 includes support for an installation on Red Hat Enterprise Linux 5.2. Contact support for more information about installing OV3600 on Red Hat Enterprise Linux. By default, OV3600 6.2 installation ISO files are bundled with CentOS 5.

2.10   6.2 will be the last OV3600 release to offer support for CentOS 4 or Red Hat Enterprise Linux 4. Please contact support for assistance migrating to a CentOS 5-based installation.

2.11   Misc Enhancements
- yum-cron is now included in the default CentOS 5 installation
- In tables that display users, "Associated Users" are now called "Connected Users"
- Audit logs are updated when guest users are pushed to Alcatel-Lucent WLAN switches and WLC devices
- Copy changes to the conditional trigger variables to make them easier to understand
- Name changes to wireless tags and rogues are reported in system audit logs
- The actual OV3600 username is reported in system event logs instead of "System"
- The list of rouge devices now displays more quickly
- The ap_detail.xml page now loads more quickly and can show all devices (by giving the xml string without an ID)
- The Client Table for the Nomadix HSG is now known as "Connected APs"
- The layout of the RRD info XML API has changed; please contact support for more information
- Guest users can now be created, modified, deleted and queried via an API

3. Issues Addressed

3.1   *Upon upgrading to 6.2, users may notice a message advising them to run a kernel update if the upgrade script detects that the server's OS is running a version with a known security issue. This is in response to a third-party security advisory that was issued by Red Hat (RHSA-2008:0508-21 http://rhn.redhat.com/errata/RHSA-2008-0508.html and RHSA-2008:0519-24 http://rhn.redhat.com/errata/RHSA-2008-0519.html).*

3.2   *OV3600 automatically reboots a thin AP after reconfiguring WLAN override.*

3.3   *Addressed scenario where uploading group variables by CSV caused duplicate variables in the database.*

3.4   *Interfaces are imported along with router and switch settings.*

3.5   *Alerts generated by triggers are now dispatched from OV3600 in the order in which they were created.*

3.6   *OV3600 no longer mismatches on expired Alcatel-Lucent guest users.*

3.7   *The process of upgrading/downgrading firmware for the Symbol WS5100 now contains additional steps to prevent uninitialized value warnings.*

3.8   *Users can now configure the desired port for a WS2000 firmware upgrade; previously OV3600 would only use the WAN port.*

3.9   *The list of guest users is now paginated.*

3.10 *Unapproved thin APs with no names now link to the list of new devices.*

3.11 *Restoring a data backup using the OV3600_restore script no longer causes the network connection to restart.*

3.12 *Units were added to the summary table of the User Session Report.*

3.13 *For the Proxim MP.11, OV3600 no longer shows parser warnings in the async_logger_client log.*

3.14 *For IOS APs, OV3600 will now accept config lines in the RADIUS section that are indented twice.*

3.15 *Expansion of group variables in templates is now case-insensitive (ie 'Cisco_1300' is the equivalent of 'cisco_1300'). This resolves a template mismatch that some users saw after upgrading to OV3600 6.1.*

3.16 *For Cisco VxWorks, OV3600 does not mismatch on RADIUS server settings unless the RADIUS server is configured in OV3600.*

3.17 *The spelling of "Louisiana" is corrected in the 3D View of VisualRF.*

3.18   Sorting on bandwidth in the Network-wide Usage Report puts null data (represented by "-" at the end of the list.

4.   Known Issues

4.1   For WMS offload configuration, if there are already two mobility managers configured one of them must be deleted on the controller by hand for the configuration to proceed.

4.2   WMS offload requires that SNMPv3 users are configured to use SHA.

4.3   In WLC 5.1, OV3600 will mismatch on voice parameters when voice ACM is turned off.

4.4   In WLC 4.2 and 5.0, the radio is not disabled before voice ACM settings are pushed.

4.5   In WLC 5.2 firmware, wpa1-only mode is not supported. This may cause mismatches in OV3600.

4.6   For WLC devices, the available transmit power levels are now read and displayed in a drop down menu on the AP's manage page. In the event that the device fails to report available transmit power levels (but does report other information about that radio), the drop down menu will not appear on the AP's manage page. No error or log message is provided.

4.7   Supported transmit power settings for WLC 1250s depend on the firmware version: on 5.1, the a radio supports 1-7, and the b radio supports 1-8; on 5.2, both radios support 1-8. OV3600 supports 1-8 for both radios on both firmware versions.

4.8   If no syslog server is defined on the WLC controller (firmware version 4.2), OV3600 will mismatch because of the value the controller returns. The workaround is to define a syslog server of 0.0.0.0 in OV3600 and push config to the controller.

4.9   For Cisco 5.2 firmware, the AP Groups VLAN feature is always enabled. In addition, there is a default AP Group (default-group) that contains every SSID defined on the controller. If OV3600 shows mismatches desiring the 'default-group' AP Group and all of the SSIDs, there are two workarounds: (1) Import group settings on the controller. This will create the 'default-group' on the controller's group page in OV3600 (note: this may also change other group settings) or (2) Create the 'default-group' setting by hand to match the settings on the controller on the Group→Security tab under 'Create and Edit LWAPP AP Groups'.

4.10 For Alcatel-Lucent WLAN switches, OV3600 graphs may display a bandwidth spike when a device's bandwidth counter rolls over, causing the device to report elevated bandwidth data.

4.11 Because of the way OV3600 polls for user data, it is possible that the user count graph on the Home→Overview page might drop to zero intermittently; wait a moment and refresh the screen to restore the correct data.

4.12 OV3600 now pushes all RADIUS management servers defined on the Group → AAA page to controllers. Consequently, the RADIUS management section on the Group→Security page was redundant, and has been removed.

4.13   *If the User Session report is run on a Master Console with managed OV3600s that contain very large amounts of data, the report may fail if it run for a time period that spans more than a day. Contact support if you experience this issue.*

4.14   *The Device Uptime report may show inaccurate information for data over one day; this will be resolved as soon as possible in a maintenance release.*

4.15   *On the Symbol WS5100, if thin APs are configured to change channels independently of OV3600 (such as random channel selection), then the APs' radios will mismatch on channel whenever a new channel is selected.*

4.16   *If an AP is marked as down, OV3600 does not log excessive SNMP error messages.*

4.17   *When switching a subscriber group from one global group to another, the group should first be changed from "Use Global Group" yes to no on the Groups→Basic page. The group should then be changed back to "Use Global Group" yes, and the new global group should be selected from the dropdown menu.*

4.18   *Group variable changes cannot be applied between subscriber groups.*

4.19   *If a WLAN override is created for 802.11bg radios, OV3600 will show a mismatch that cannot be resolved for the 802.11a radio.*

4.20   *VisualRF: during the upgrade to 6.2, VisualRF may take as long as 10 minutes to shut down during Step 4 (Stopping OV3600 Services). It is important to let an upgrade run to completion once it is initiated; do not abort or Control+C the upgrade if this step seems to take longer than usual.*

4.21   *VisualRF: APs take longer than the synchronization time to appear in VisualRF. The synchronization timer will fetch the AP state data at the specified interval. Device permissions are polled every 15 minutes. It may take up to 15 minutes for new devices to appear in VisualRF.*

4.22   *VisualRF: Clients may take a long time to age off a site when all APs have been removed.*

4.23   *VisualRF: Clients associated to APs on other floors will have an unknown phy type. Visit the client monitoring page to view the phy and association information.*

4.24   *VisualRF: Left-clicking on a planned AP will bring up the "Match with Deployed AP" instead of the "Planned AP" menu.*

4.25   *VisualRF: The server may create two default campuses on a fresh install. One or both of the default campuses can be removed as you create new campuses and deploy your network.*

4.26   *VisualRF: The Bill of Materials report may not render properly from IE unless certain browser settings are changed: (1) Open IE→Tools→Internet Options (2) Go to the "Security" tab and click the "trusted sites" icon (3) Add whatever names you use to refer to that server. For example, if you sometimes call the server "OV3600.corp" and sometimes call it "OV3600.corp.yourdomain.com" you will need to add both names (5) Set the security slider for "trusted sites" to "medium-low".*

4.27   *VisualRF: Campuses and buildings may be relocated during an upgrade from 6.1 or 6.1rc4 to the 6.2 general release. Buildings that were originally deployed outside of a background image will be relocated to the top left of the image.*

4.28   *VisualRF: Labels may obscure campuses and buildings in the network view. If a label is covering a building or campus in the network view it will not be possible to right-click on it. Zoom until the label is no longer covering the campus or building and then right-click on it.*

4.29   *VisualRF: The default campus or building may lose background during the upgrade if the background was uploaded as a DWG file. Redefine the background images and they will be stored properly.*

4.30   *VisualRF: Wall attenuation values may change when restoring from a backup.*

4.31   *VisualRF: Popup blockers and caching may keep the Bill of Materials report from displaying. Close your browser and reopen it to view the report.*

4.32   *VisualRF: The display of labels in the site and network views is a global setting defined within the site editing options. Labels are on by default, and can be globally turned off by editing any site and changing the setting.*

4.33   *VisualRF: Only a JPG or GIF file can be uploaded for a campus or building background. In the 6.2 general release, this will be expanded to include DWG files.*

4.34   *VisualRF: Labels may obscure campuses and buildings in the network view. If a label is covering a building or campus you will not be able to right-click on the campus or building. Zoom in until the label is no longer covering the campus or building and then right-click on it.*

4.35   *VisualRF: If an AP is configured to be an air monitor on one radio, VisualRF will not display a heatmap but show associated clients.*

4.36   *VisualRF: When opening 3DView for the first time, the position of campuses and buildings may change due to the new architecture of the feature. Simply moving them back into place and saving will correct the location.*

4.37   *VisualRF: If a client device type or transmit power is overridden, the change will not be reflected in VisualRF until the client is rediscovered or VisualRF is restarted.*

4.38   *VisualRF: The Site Scale will display only in feet, even if the metric option for VisualRF is enabled.*

4.39   *VisualRF: If zoom is used during a floor plan resize, inaccurate client location will result.*

4.40   *VisualRF: The WCS floor plan importation can duplicate floor plans if it is run twice. Radio index, channel and MAC are not retained from WCS, but they will be refetched after the device is matched to OV3600.*

4.41   *VisualRF: The Floor Plan Upload Wizard only supports DWF versions 5.5 and below.*

4.42   *VisualRF: Rapid changes to the VisualRF→Setup page may cause the server to lock. Disabling the engine and then re-enabling it will resolve any problems.*

4.43   *VisualRF: The Floor Plan Upload Wizard only retains CAD files. Original files for other types are not retained after importation.*