

# Release Notes - Maintenance

## OmniAccess Stellar

AP1101, AP1201, AP1221, AP1222, AP1231, AP1232,  
AP1251, AP1201H

AWOS Release 3.0.6.2056

The following is a list of issues that have been identified and corrected in this AWOS software release. This document is intended to be used as a pre-upgrade guide and does not replace the GA Release Notes which are created for every GA release of software.

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**Fixed Problem Reports Between Build 1041 (MR) and Build 2056 (MR)**

Reference	Description
<p>Case: N/A</p> <p>ALEISSUE-409</p>	<p><b>Summary:</b> /tmp/power_manage.conf missing read permissions for support user.</p> <p><b>Explanation:</b> The root cause is that the /tmp/power_manage.conf read privilege for support user is disabled in the code. The issue is fixed by enabling the read privilege for support user.</p> <p><a href="#">Click for additional information</a></p>
<p>Case: N/A</p> <p>ALEISSUE-417</p>	<p><b>Summary:</b> SNMPv2-MIB::sysLocation.0 doesn't have correct "AP Location" set.</p> <p><b>Explanation:</b> It happens when the "AP Location" is provided by lldp location. The issue is fixed by adding the fetch lldp location code logic.</p> <p><a href="#">Click for additional information</a></p>
<p>Case: 00392054</p> <p>ALEISSUE-418</p>	<p><b>Summary:</b> AP-1231 random reboot needs analysis.</p> <p><b>Explanation:</b> Root cause is that sometimes for processing specific IPv6 packet, a NULL pointer de-references over flow-based vxlan device in kernel. The issue is fixed by adding NULL check for ipv6_rcv in kernel.</p> <p><a href="#">Click for additional information</a></p>
<p>Case: 00412369</p> <p>ALEISSUE-438</p>	<p><b>Summary:</b> Stellar AP 1101 is reloading automatically and it is shown as down in OV.</p> <p><b>Explanation:</b> For shown as down in OV issue, root cause is that the ethernet driver state machine is abnormal and update the ethernet driver to address the issue; for watchdog reboot issue, root cause is that huge unknown unicast packets transferred in AP increase the SIRQ and leads to watchdog starve, dropping the unknown unicast packet addresses the problem.</p> <p><a href="#">Click for additional information</a></p>
<p>Case: 00401285</p> <p>ALEISSUE-439</p>	<p><b>Summary:</b> OV Cirrus Stellar AP 3.0.6 no IP connectivity with Activation Server.</p> <p><b>Explanation:</b> Root cause is that when the gateway IP is 192.168.1.254, and DHCP module processes DHCPACK packet, the default DHCP state machine is abnormal. Fixing the DHCP state machine during processing of the DHCPACK packet addresses this issue.</p>

	<a href="#">Click for additional information</a>
<p><b>Case: 00407781</b></p> <p><b>ALEISSUE-446</b></p>	<p><b>Summary:</b> Minimum MGMT Rate is not working as expected.</p> <p><b>Explanation:</b> Root cause is that the beacon rate in driver does not support the transmit rate of 9Mbps and 18Mbps. There is a limitation: when configuring MGMT to 9Mbps (or 18Mbps), the rate of beacon management frame will be set to be the nearest value which is larger than 9Mbps (or 18Mbps).</p> <p><a href="#">Click for additional information</a></p>
<p><b>Case: 00412761</b></p> <p><b>ALEISSUE-465</b></p>	<p><b>Summary:</b> 2 SSIDs with same name are broadcasted.</p> <p><b>Explanation:</b> Root cause is that Wi-Fi driver assembles and sends an error beacon frame, the error beacon frame will cause the client connecting to fail. This issue is fixed by correcting the beacon frame offset.</p> <p><a href="#">Click for additional information</a></p>
<p><b>Case: N/A</b></p> <p><b>ALEISSUE-466</b></p>	<p><b>Summary:</b> AP1231 is not getting classified as per LLDP classification after reboot.</p> <p><b>Explanation:</b> Root cause is that in AP1231 the LLDP packet will be sent after the link aggregation, but during the link aggregation time the ICMPv6 MLDv2 packet is sent. Solution is to filter the ICMPv6 packet during this period and release it after LLDP packet sent.</p> <p><a href="#">Click for additional information</a></p>

**Fixed Problem Reports Between Build 28 (GA) and Build 1041 (MR)**

PR	Description
<p><b>Case: 00364854</b></p> <p><b>ALEISSUE-344</b></p>	<p><b>Summary:</b> AP1231's 2.5G interface goes down and clients cannot connect to AP.</p> <p><b>Explanation:</b> Sometimes, AP1231 2.5G interface goes down randomly and it must be recovered by a manual reboot. Fix is, this 2.5G interface is being monitored continuously in software and will be recovered automatically in case of abnormal behavior.</p> <p> <a href="#">Click for Additional Information</a></p>

<p>Case: 00371594 <i>ALEISSUE-371</i></p>	<p><b>Summary:</b> All AP-1101s working in same channel when cluster size is more than 10.</p> <p><b>Explanation:</b> Root cause is that there exists a disorder between channel selection and channel scanning, it's fixed by syncing channel selection and channel scanning modules.</p> <p> <a href="#">Click for Additional Information</a></p>
<p>Case: 00387788 <i>ALEISSUE-393</i></p>	<p><b>Summary:</b> High Memory usage noticed on AP1221.</p> <p><b>Explanation:</b> The lbd module had a memory leak due to wrong resource free API used, it's fixed by using the right API for lbd.</p> <p> <a href="#">Click for Additional Information</a></p>
<p>Case: 00394333 <i>ALEISSUE-414</i></p>	<p><b>Summary:</b> DSCP mapping issue: DSCP 46 changed by Stellar AP from 46 to 48.</p> <p><b>Explanation:</b> Root cause is the code inherited customized mapping rules for some special device. It's fixed by using the right mapping logic for DSCP value.</p> <p> <a href="#">Click for Additional Information</a></p>
<p>Case: 00392689 <i>ALEISSUE-421</i></p>	<p><b>Summary:</b> Policies are not working when configured with service group.</p> <p><b>Explanation:</b> Root cause is when two rules match to the same service group, the first rule is ignored. It's fixed that all rules should not be ignored.</p> <p> <a href="#">Click for Additional Information</a></p>
<p>Case: 00402663 <i>ALEISSUE-437</i></p>	<p><b>Summary:</b> AP-1231 sending wrong Source MAC in the LLDP packet.</p> <p><b>Explanation:</b> Root cause is there are duplicate MAC address on different physical interfaces in AP1231, it's fixed by unifying the mac address for different interfaces in bond/LACP.</p> <p> <a href="#">Click for Additional Information</a></p>
<p>Case: 00398468 <i>ALEISSUE-441</i></p>	<p><b>Summary:</b> Role mapping does not with machine authentication followed by user authentication.</p> <p><b>Explanation:</b> Root cause is AP didn't properly store the new ARP name from the 2<sup>nd</sup> 802.1x authentication if the length of the new ARP name is longer than the old one. It's fixed by updating ARP storage mechanism.</p> <p> <a href="#">Click for Additional Information</a></p>
<ul style="list-style-type: none"> <li>• Lock Icon (  ) - Indicates credentials required to log into the Business Portal website.</li> <li>• Click on the associated URL for more information.</li> </ul>	

**Open Problem Reports and Known Issues**

The problems listed here include problems known at the time of the product’s release. Any problems not discussed in this section should be brought to the attention of the Service and Support organization as soon as possible. Please contact customer support for updates on problem reports (PRs) where no known workaround was available at the time of release.

PR	Description	Workaround
ALEISSUE-443	<b>Summary:</b> Randomly the linkagg for AP1231 and AP1251 fails.	The issue is seen with random AP1231 which failed to bring up both the ports up when connected to switch. There is no workaround yet.
ALEISSUE-432	<b>Summary:</b> User got disconnected from WiFi (00398518)	One of the user who uses apple device getting disconnected from the WiFi and not automatically reconnected to the WiFi. There is no workaround yet.

**New Features Introduced - 3.0.6.2056**

There are no new features in this release.

**New Features Introduced - 3.0.6.1041**

**Social Login - WeChat Login with UPAM**

WeChat is seen as a valid personal check for audits and government compliance rules. As there is an obligation to register under a real name and both email and mobile number is validated by the WeChat service. As this WeChat registration is validated and even used as the base for Financial transactions under WeChat-Pay it is accepted in all APAC countries.

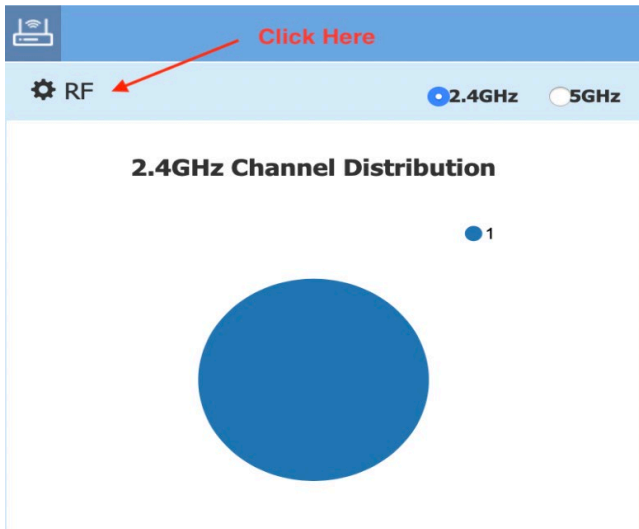
And in this release, the WeChat authentication function with UPAM only is supported in Stellar AP1101/AP1220/AP1230/AP1251/AP1201H/AP1201.

**Supporting Disable/Enable AP Radio (Cluster)**

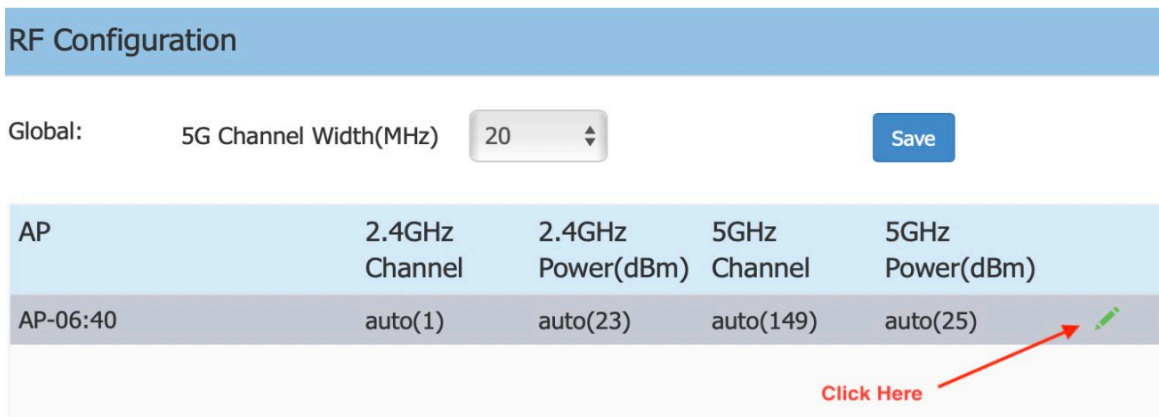
The Open API to Disable/Enable AP Radio and Supporting Disable/Enable AP Radio (Cluster) are supported in Stellar AP1101/AP1220/AP1230/AP1251/AP1201H/AP1201.

For feature Disable/Enable AP Radio, please check following guide:

1. Open wireless RF configuration page



- 2. Click the green pen in desired AP item.



- 3. Disable/Enable radio can be configured for 2.4G Channel and 5G Channel.
  - 1) Disable/Enable radio for 2.4G Channel

The screenshot shows the 'Edit RF Information' interface. The 'Power' section includes an 'APC' toggle set to 'ON', a 'Power' dropdown set to '23' (3-40dBm), and an 'Auto Power Range' with 'Min' and 'Max' dropdowns (3-40dBm). The 'Others' section has a 'Radio' toggle set to 'on' and a 'Short GI' toggle set to 'on'. A red arrow points to the 'Radio' toggle, and the text 'Enable Radio' is written in red above it.

2) Disable/Enable radio for 5G Channel

Scroll down to find 5GHz zone, and set Radio, same as operation for 2.4G Channel.

4. Save configuration

This screenshot shows the 'Edit RF Information' interface with the 'Radio' toggle set to 'on'. A red arrow points to the 'Radio' toggle with the text 'Click Here' in red. Below the 'Others' section, a note states: 'Note : The RF configuration requires 30 seconds to take effect on the AP after you click 'Save', it is not recommended to make other RF changes on this AP during this period.' At the bottom, there are 'Cancel' and 'Save' buttons.

**Limitations and/or dependencies**

1. Express Cluster Scale to 255 APs

**Limitation:**

When AP1101/AP1201H is PVC/SVC, max cluster size supported is 32

When AP1201 is PVC/SVC, max cluster size supported is 64



When AP1220 series, AP1230 series or AP1251 is PVC/SVC the max cluster size supported is 255

- With mixed AP models in any cluster of size > 64, recommendation is for every 64 APs to include at least 2 APs from either AP1220 series, AP1230 series or AP1251.

## **Technical Support**

Alcatel-Lucent Enterprise technical support is committed to resolving our customer's technical issues in a timely manner. Customers with inquiries should contact us at:

<b>Region</b>	<b>Phone Number</b>
North America	1-800-995-2696
Latin America	1-877-919-9526
Europe Union	+800 00200100 (Toll Free) or +1(650)385-2193
Asia Pacific	+65 6240 8484

**Email:** [ebg\\_global\\_supportcenter@al-enterprise.com](mailto:ebg_global_supportcenter@al-enterprise.com)

**Internet:** Customers with Alcatel-Lucent service agreements may open cases 24 hours a day via Alcatel-Lucent's support web page at: <https://businessportal2.alcatel-lucent.com>.

Upon opening a case, customers will receive a case number and may review, update, or escalate support cases on-line. Please specify the severity level of the issue per the definitions below. For fastest resolution, please have telnet or dial-in access, hardware configuration—module type and revision by slot, software revision, and configuration file available for each switch.

**Severity 1** - Production network is down resulting in critical impact on business—no workaround available.

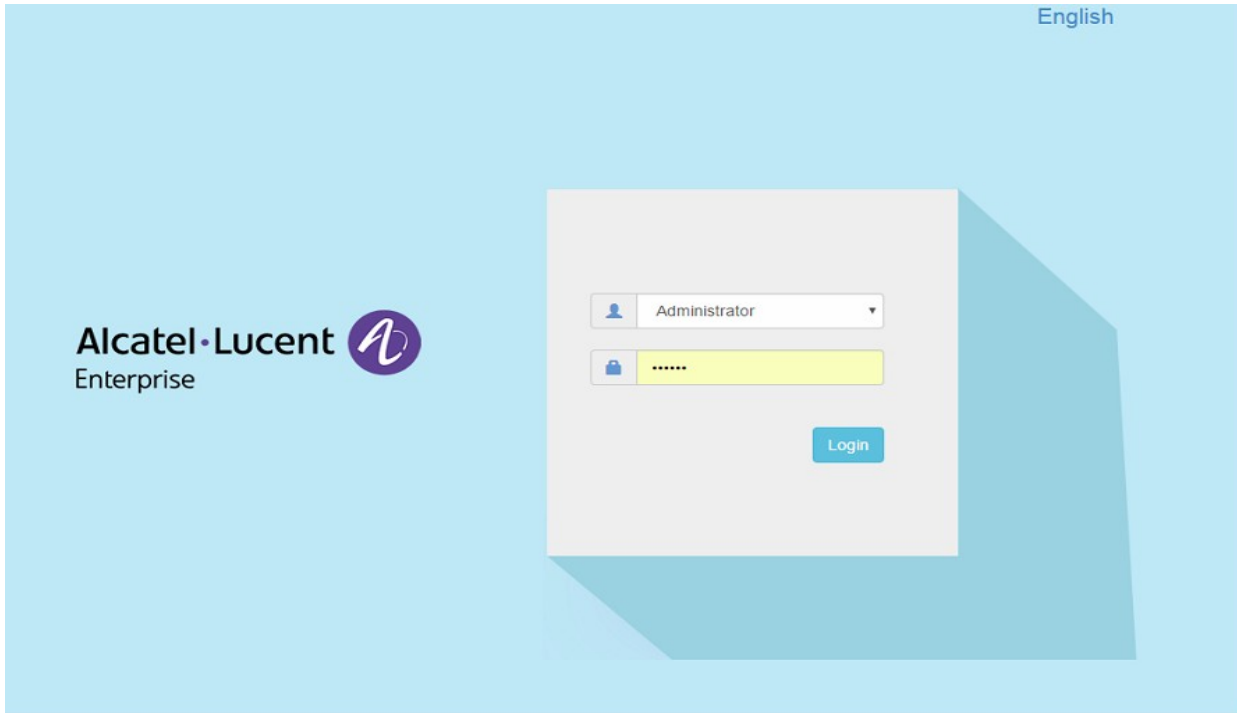
**Severity 2** - Segment or Ring is down or intermittent loss of connectivity across network.

**Severity 3** - Network performance is slow or impaired—no loss of connectivity or data.

**Severity 4** - Information or assistance on product feature, functionality, configuration, or installation.

## Appendix A: Software Upgrade Instructions in WiFi Express Mode

1. Login to AP using Administrator account with default password 'admin'.



2. Click on the AP tab to open the AP Configuration page.

AP Group : AP-Group -

Administrator | 30s | English

WLAN			AP		
WLAN Name	Status	Clients	Primary Name	Status	Clients
weekday	on	0	AP-1A:10	Working	0
weekend	on	0	AP-DD:50	Working	0
			AP-42:20	Working	0

Clients				
User Name	IP	MAC	WLAN	Auth
Total:0				

Monitoring

Throughput(Mbps)

Client

Client Distribution

Wireless Client Health

System

Wireless

Access

3. On AP Configuration Page, click **Upgrade All Firmware**.

The screenshot shows the 'AP Configuration' interface. On the left is a table with columns: Primary Name, IP, Firmware, and Operate. The table lists several APs under different groups: PVC, SVC, MEMBER, and Neighboring Group. Each AP entry has a 'cfg' icon and a 'reboot' icon. On the right is a 'Detailed Information' panel for AP-1A:10, showing fields like AP Name, MAC, Location, Status, Role in Group, Serial Number, Model, Firmware, Upgrade Time, Upgrade Flag, IP Mode, IP, Netmask, Default gateway, DNS, and AP Mode. Below the table and panel is a row of buttons: Reboot All AP, Clear All Configuration, Backup All Configuration, Restore All Configuration, Upgrade All Firmware, Connect To Cloud, and Convert To Enterprise. A red arrow points to the 'Upgrade All Firmware' button with the text 'Click here to upgrade'.

Primary Name	IP	Firmware	Operate
PVC			
AP-1A:10	192.168.20.119(AP) (M)	3.0.5.23	
SVC			
AP-42:20	192.168.20.111	3.0.5.27	
MEMBER			
AP-DD:50	192.168.20.128	3.0.5.6	
Joining			
Pending			
Neighboring Group			
AP-32:30	192.168.20.237	3.0.4.2052	

Detailed Information for AP-1A:10:

- AP Name: AP-1A:10 [Edit](#)
- MAC: 34:E7:0B:00:1A:10
- Location: [Edit](#)
- Status: Working
- Role in Group: PVC
- Serial Number: WKS163300071
- Model: OAW-AP1251
- Firmware: 3.0.5.23
- Upgrade Time: Sat Nov 24 08:25:27 2018
- Upgrade Flag: successfully
- IP Mode: DHCP [Edit](#)
- IP: 192.168.20.119
- Netmask: 255.255.254.0
- Default gateway: 192.168.21.254
- DNS: 219.141.136.10
- AP Mode: Express [Edit](#)

Buttons: [Reboot All AP](#) [Clear All Configuration](#) [Backup All Configuration](#) [Restore All Configuration](#) [Upgrade All Firmware](#) [Connect To Cloud](#) [Convert To Enterprise](#)

4. Select AP model and firmware file then click **Upload All**, this will upgrade the firmware and reboot the AP.

Example of using an **Image File**

Multi-model Upgrade

Model	Firmware	AP Quantity	
AP1250	3.0.5.23	1	Expand
AP1101	3.0.5.6	1	Expand
AP1220	3.0.5.27	1	Expand

Upgrade Firmware

**Don't turn off the power during the upgrade process.**

Image File  Image File URL

1. Select corresponding AP model and upload right image

AP1101  No file chosen

AP1220  No file chosen

AP1250  No file chosen

2. Then upload all here

### Example of using an Image File URL

Multi-model Upgrade

Model	Firmware	AP Quantity	
AP1250	3.0.3.24	1	Expand
	3.0.3.24	1	Expand
AP1230	3.0.3.24	1	Expand

The URL for AP upgrade firmware file, support TFTP/SFTP

Upgrade Firmware

**Don't turn off the power during the upgrade process!**

Image File  Image File URL

AP1230:

AP1250:

(TFTP://ip/file.bin)

(SFTP://UserName:Password@ip/file.bin)

Fill in the URL of the firmware file and then click **Upload To All**, this will upgrade the firmware and reboot the AP.