

Release Notes - Maintenance

OmniAccess Stellar

AP1101, AP1221, AP1222, AP1231, AP1232, AP1251

AWOS Release 3.0.2.38

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 Builds 3.0.0.63 and 3.0.2.38

PR	Description
ALEISSUE-133	<p>Summary: Client is taking few minutes to connect to the network. it is a PSK SSID.</p> <p>Explanation: This issue was caused by the load balance algorithm. The algorithm is now been optimized to avoid getting into this situation.</p>
ALEISSUE-130	<p>Summary: Duplicate APs in the cluster</p> <p>Explanation: This issue was caused by the AP obtaining an incorrect mac address at the bootup. It is fixed in this release.</p>
ALEISSUE-100	<p>Summary: AP-1101 running in express mode does not accept the class-B IP address as Group Management IP</p> <p>Explanation: This was an AP GUI's problem and fixed in this release.</p>
ALEISSUE-99	<p>Summary: Band Steering doesn't work on Express Mode Release 3.0.0.57</p> <p>Explanation: This issue was caused by the load balance algorithm. The algorithm is now been updated to felicitate correct band-steering.</p>
ALEISSUE-95	<p>Summary: Guest operator account security issues</p> <p>Explanation: The fix blocks from users from altering guest operator's privileges from browser inspector.</p>
ALEISSUE-65	<p>Summary: ÖÅ characters are not supported</p> <p>Explanation: These characters are now supported.</p>
ALEISSUE-82	<p>Summary: Config changes made are not updated when the OLD PVC comes up.</p> <p>Explanation: This is fixed by preventing an old PVC from overriding the config done with new PVC after it comes back up</p>
ALEISSUE-128	<p>Summary: L3 ACL does not work in the AP-1101 cluster</p> <p>Explanation: The issue was AP did not release the first configured ACLs that prevented it from accepting updated ACLs. It is fixed in this release.</p>

Fixed Problem Reports Between Builds 61 and 63

PR	Description
ALEISSUE-105	Summary: Static channel assignment gets changed automatically Explanation: Channel assignment changes automatically even if the channel is set manually.
ALEISSUE-106	Summary: Roaming not working when both 2.4 GHz & 5 GHz radio configured with or without 802.11r Explanation: There were no synchronization messages sent to the new neighbor AP resulting in roaming failure

Fixed Problem Reports Between Builds 57 and 61

PR	Description
None	Summary: KRACK / WPA2 Key Reinstallation Vulnerabilities. Explanation: Flaws in WPA2 key management may allow an attacker to decrypt, replay, and forge some frames on a WPA2 encrypted network.
ALEISSUE-101	Summary: Apple AirPlay stopped working, after upgrades AP1101 to release 3.0.0.57 Explanation: Two clients on the same SSID and band were not able to communicate.
ALEISSUE-102	Summary: 5 GHz band not broadcasting Explanation: Initial setup with 2.4GHz and 5GHz is OK. Overnight 5 GHz band disappears and only see 2.4GHz band can be seen.
ALEISSUE-108	Summary: Performance issue in 2.4G band. Explanation: Wireless performance degrades over time, devices experience slow connection.

Open Problem Reports and Known Issues

PR	Description	Workaround
ALEISSUE-109	Summary: When PVC role changes from one AP to another, there is no notification.	There is no known workaround at this time.
ALEISSUE-111	Summary: EIRP for AP1251 in 3.0.0.60 code is always 10 dBm.	This is a display issue only. It is planned for resolution in future release.
ALEISSUE-122	Summary: Handheld scanners on 2.4Ghz don't roam properly on AP1101 cluster.	There is no known workaround at this time.

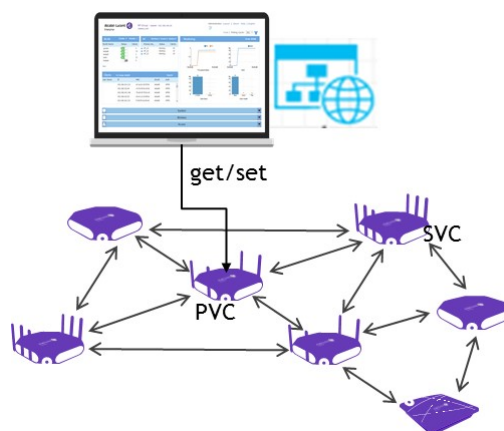
ALEISSUE-127	Summary: APs in 5Ghz band using same channel though Automatic channel configuration is enabled.	There is no known workaround at this time.
ALEISSUE-131	Summary: Clients taking multiple attempts to connect to PSK SSID.	There is no known workaround at this time.
ALEISSUE-135	Summary: OTCV SIP client facing packet loss on IPHONE	There is no known workaround at this time.

New Features Introduced - 3.0.2.38

1. Remote Cluster Management

The AP Group can be remotely managed by mapping the company external network and the PVC IP or the Group Management IP (hereinafter referred to as GMIP).

The AP configuration model is shown in the following diagram. The management website gets and sets configuration only through PVC, and PVC is responsible for forwarding those commands to the other Access Points in the group, therefore, PVC can connect with other Access Points in any situation whether the Management website is accessed across the NAT or not.

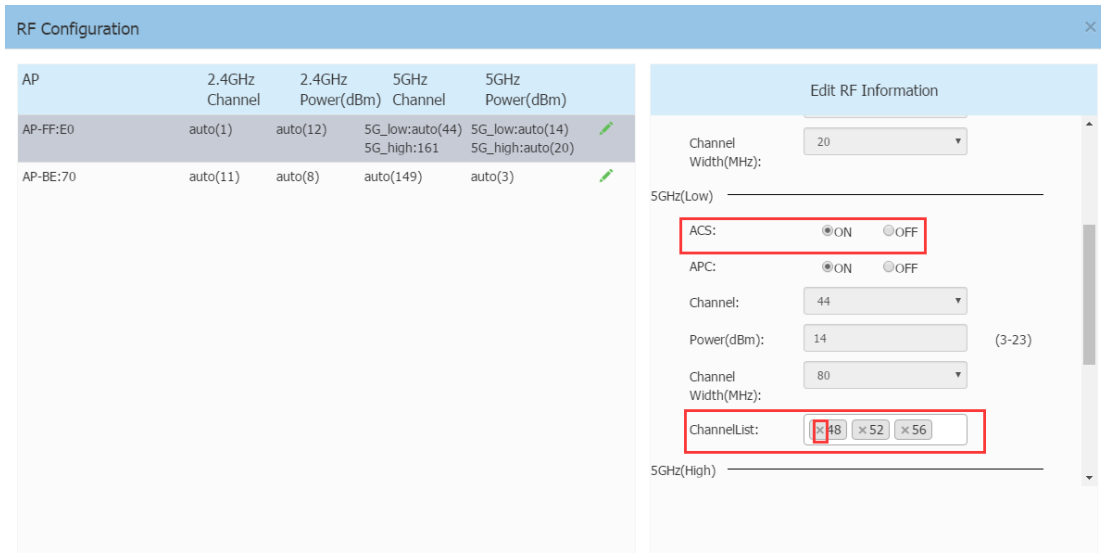


2. Channel Bandwidth

You can now explicitly select the channel width 20, 40 and 80MHz (Only 5GHz).

3. DRM Channel List Control

1. Log in to the AP page, then click “Wireless--RF Configuration” to enter the page of RF Configuration.
2. Select the AP you want to edit, then config the channel list in the right panel.
3. First open the ACS automatic channel list selection button, and then add the channel value in the Channel List. If you want to delete a channel, click “x”. If the channel list is empty, the AP makes auto selection in the all channels.

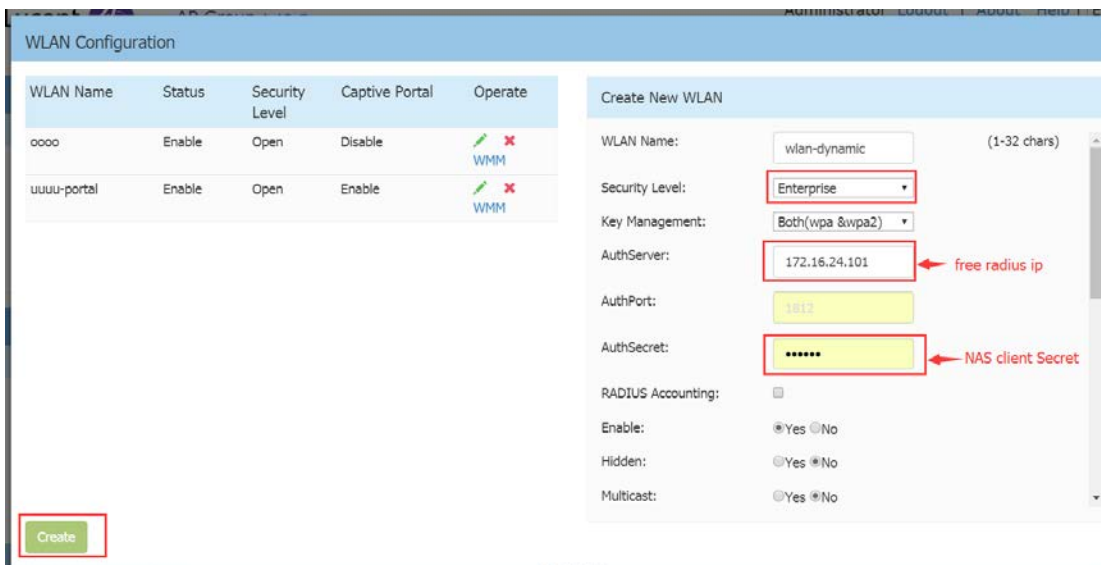


Guidelines:

- 2.4 GHz doesn't support auto channel-list selection.

4. Radius Dynamic VLAN Assignment

With Radius authentication, OmniAccess Stellar now supports the attribute "Tunnel-Private-Group-Id" which facilitates user based dynamic VLAN assignment.

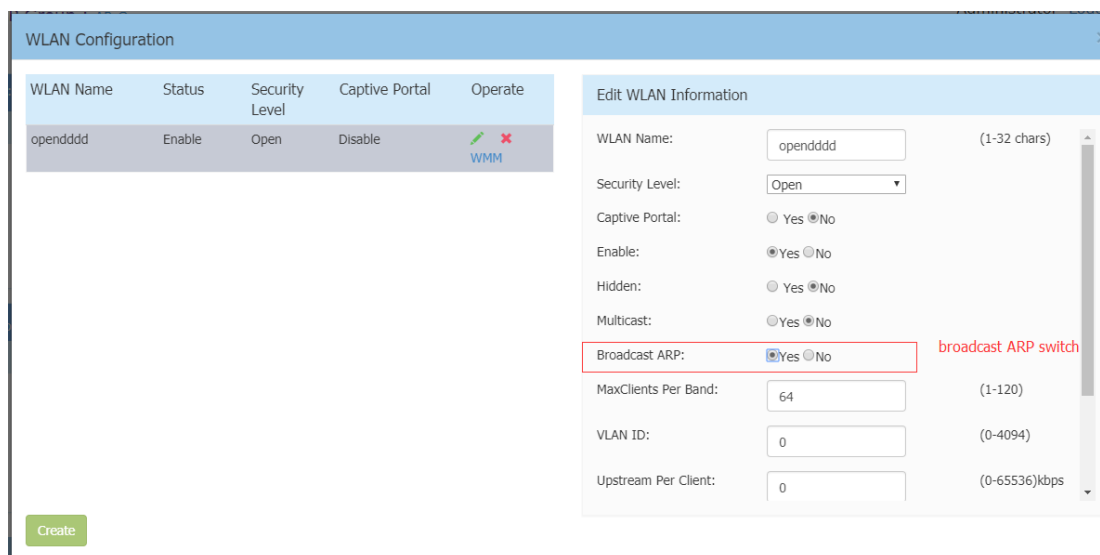


5. Broadcast Filter ARP



The Stellar AP will act as an "ARP Proxy". If the ARP-request packet requests a client's MAC address and the AP knows the client's MAC and IP address, the AP will respond to the ARP-request but not forward the ARP-request (broadcast) to all broadcast domains. This reduces ARP broadcast packet forwarding and significantly improves

network performance. Note that Stellar APs do not act as ARP proxy for Gratuitous ARP packets. When the station gets an IP from DHCP or IP release/ renew, the station will send Gratuitous ARP packets. AP will not respond to such special ARP packets and broadcast them normally.

Broadcast/Multicast Optimization can be configured as below:



The screenshot displays the 'WLAN Configuration' window. On the left, a table lists WLAN configurations. On the right, the 'Edit WLAN Information' form is shown with various settings. The 'Broadcast ARP' option is highlighted with a red box and labeled 'broadcast ARP switch'.

WLAN Name	Status	Security Level	Captive Portal	Operate
opendddd	Enable	Open	Disable	  WMM

Edit WLAN Information

WLAN Name: (1-32 chars)

Security Level:

Captive Portal: Yes No

Enable: Yes No

Hidden: Yes No

Multicast: Yes No

Broadcast ARP: Yes No broadcast ARP switch

MaxClients Per Band: (1-120)

VLAN ID: (0-4094)

Upstream Per Client: (0-65536)kbps

Release Guidelines - 3.0.2

1. The user needs to login onto the AP again when cluster ID has been changed.
2. Upgrading from 3.0.0.x to 3.0.2.x is supported. However, a 3.0.0.x backup configuration cannot be restored to an AP running 3.0.2.x.

Technical Support

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

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

Email : ebg_global_supportcenter@alcatel-lucent.com

Internet: Customers with service agreements may open cases 24 hours a day via the support web page at: support.esd.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.

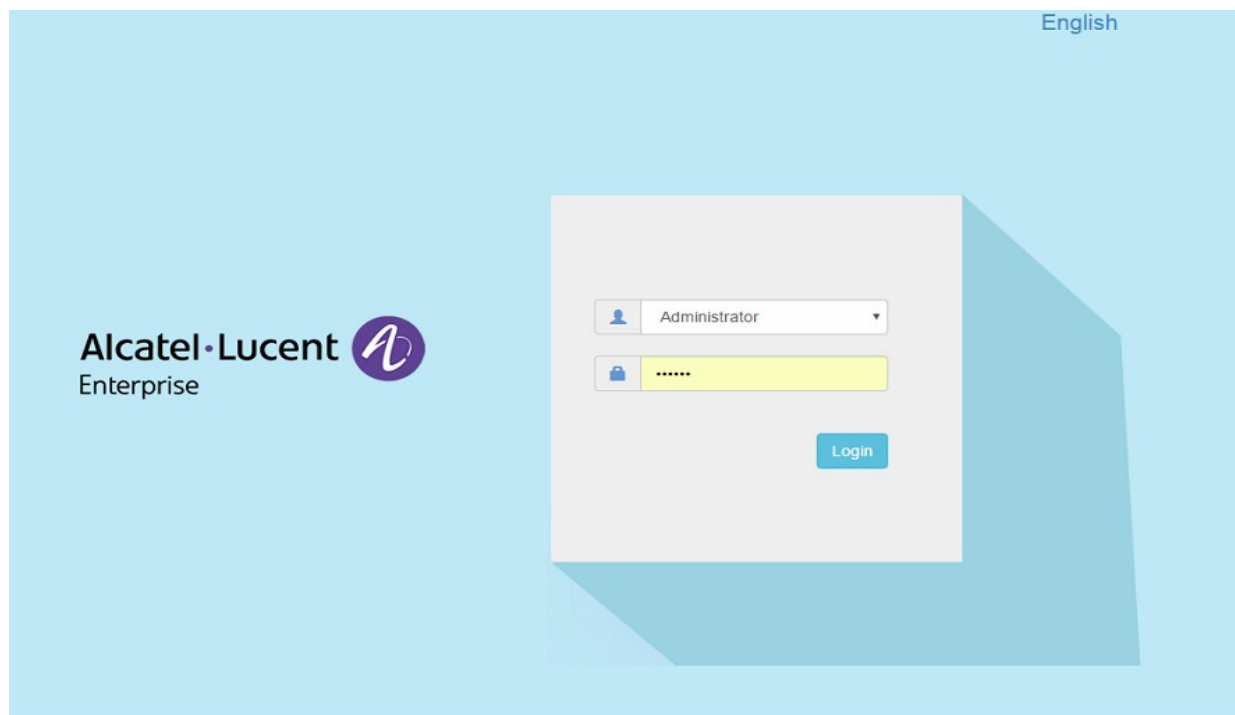
Severity 3 - Network performance is slow or impaired—no loss of connectivity or data.

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

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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 up the AP Configuration page.

Alcatel-Lucent Enterprise AP Group : Han-Networks - 192.168.50.253

Administrator Logout | About Help | English | Tools | Polling Cycle: 30s

WLAN Name	Status	Clients	Primary Name	Status	Clients
HAN-Employee	on	77	192.168.50.210	Working	0
HAN-Guest2	on	0	192.168.50.219	Working	0
HAN-PERSON	on	0	192.168.50.205	Working	5
HAN-PORTAL	on	0	192.168.50.217	Working	0
HAN-Person1	on	0	192.168.50.202	Working	4
HAN-Guest	off	0	192.168.50.218	Working	1
			192.168.50.214	Working	3

User Name	IP	MAC	WLAN	Auth
	192.168.50.17	d0:33:11:26:6c:32	HAN-Employee	PSK
	192.168.50.112	20:3c:a6:43:f4:41	HAN-Employee	PSK
	192.168.50.101	74:23:44:08:4f:d1	HAN-Employee	PSK
	192.168.50.87	60:cd:fe:53:1a:39	HAN-Employee	PSK
	192.168.50.1	98:01:a7:d0:16:1b	HAN-Employee	PSK

Monitoring: Throughput(Mbps), Client Band (2.4GHz: 10, 5GHz: 97), Client Health (Best: 48, Good: 29, Fair: 0)

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

AP Configuration

Primary Name	IP	Firmware	Operate
PVC			
192.168.50.210	192.168.50.210(AP) 192.168.50.253(M)	3.0.2.34	
SVC			
192.168.50.219	192.168.50.219	3.0.2.34	
MEMBER			
192.168.50.205	192.168.50.205	3.0.2.34	
192.168.50.217	192.168.50.217	3.0.2.34	
192.168.50.202	192.168.50.202	3.0.2.34	
192.168.50.218	192.168.50.218	3.0.2.34	
192.168.50.214	192.168.50.214	3.0.2.34	

Detailed Information

AP Name: 192.168.50.210 [Edit](#)
MAC: 34:E7:0B:03:C2:70
Location: [Edit](#)
Status: Working
Role in Group: PVC
Serial Number: SSZ170200040
Model: OAW-AP1221
Firmware: 3.0.2.34
Upgrade Time: Tue Jan 16 21:44:49 2018
Upgrade Flag: Success

IP Mode: dhcp [Edit](#)
IP: 192.168.50.210
Netmask: 255.255.255.0
Default Gateway: 192.168.50.254
DNS: 219.141.136.10

[Clear All Configuration](#) [Backup All Configuration](#) [Restore All Configuration](#) [Upgrade All Firmware](#)

Click here to get firmware upgrade (arrow pointing to Upgrade All Firmware)

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

Multi-model Upgrade

Model	Firmware	AP Quantity	
AP1220	3.0.2.34	4	Expand
AP1230	3.0.2.34	1	Expand
AP1250	3.0.2.34	2	Expand
AP1101	3.0.2.34	13	Expand

Update Firmware

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

Image File Image File URL

AP1101 No file chosen

AP1220 No file chosen

AP1230 No file chosen

AP1250 No file chosen

[Remove All](#) [Upload All](#)

Select right firmware file for different model of AP (arrows pointing to Choose File buttons)

Click here to upload all (arrow pointing to Upload All button)