

Release Notes

OmniAccess Stellar AP

AWOS Release 4.0.8 - MR1 Release

These release notes accompany the OmniAccess Stellar Operating System (AWOS) Release 4.0.8 software for the Stellar APs. This document provides important information on individual software and hardware features. Since much of the information in the release notes is not included in the hardware and software user manuals, it is important to read all sections of this document before installing new hardware or loading new software.

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Related Documentation

The release notes should be used in conjunction with the associated manuals as listed below. User manuals can be downloaded at: <https://myportal.al-enterprise.com/>.

Stellar AP Quick Start Guide

The Quick Start Guide assists you in quickly connecting to and configuring the Stellar AP.

Stellar AP Installation Guide

It provides technical specifications and installation procedures for the Stellar AP.

Stellar AP Configuration Guide

It includes procedures for managing and configuring all aspects of the Stellar AP using the built-in web interface.

Technical Tips, Field Notices, Upgrade Instructions

Contracted customers can visit our customer service website at: <https://myportal.al-enterprise.com/>.

Hardware Supported

- AP1101, AP1201, AP1220 series, AP1230 series, AP1251, AP1251-RW-B, AP1261-RW-B, AP1201H, AP1201L, AP1201HL, AP1320 series, AP1360 series, AP1201BG, AP1301, AP1301H, AP1311, AP1331, AP1351, AP1451, AP1431, AP1411.

New Software Features and Enhancements

The following software features are new with this release, subject to the feature exceptions and problem reports described later in these release notes:

Feature	Platform Support
N/A	

Fixed Problem Reports Between Build 4.0.8.16 and 4.0.8.1029

PR	Description
ALEISSUE-1879 Case number: 00755453	<p>Summary: Kernel Panic reboot.</p> <p>Explanation: The issue is introduced by background scanning changes in 4.0.8.16, It is optimized on two aspects, one is fixing codes that will take effect only when enabling AeroScout. The other adds extra handling when background scanning interval is shorter than 5 minutes.</p> <p>Click for additional information</p>
ALEISSUE-1850 Case number: 00746519	<p>Summary: [CRNOV-6108] AP doesn't send data to OVNG until mdps service is restarted.</p> <p>Explanation: The parameter inside the module is not properly used after it is freed. It is fixed by checking if the parameter is not NULL when using it.</p> <p>Click for additional information</p>

Open/Known Problems

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
WCF	WCF feature is not supported when WLAN Client is running behind an HTTP Proxy.	No workaround.
WCF	WCF feature is not supported when WLAN Client is using mobile applications, there is no restrictions (packets are not dropped by AP, no redirection to Restricted Web page).	No workaround.
Management VLAN	When the management VLAN is enabled, setting the static IP may fail.	The static IP must be set first, and then enable the management VLAN.
DPI	[reflexive] configure link tracking. DPI_DROP does not take effect.	After modifying the reflexive, the client needs to go online and offline again, which can return to normal.
AP stateful IPv6 address	The IPv6 address of the dual-stack AP is a stateful address. After configuring the open type of WLAN, to associate the WLAN with the wireless network card of win 7 11n set to single-stack V6, check the network on-off condition of the V6 address.	When you manually configure a V6 address of the same network segment on the client as the gateway address, you can communicate with the same network address.
DPI FTP policy	Create one policy list binding and two policies, results that the user cannot access the FTP.	No workaround.
WCF	WCF does not support L3 roaming scenarios.	No workaround.
Option82	After enabling option82 feature, in some scenarios, user roaming and reacquiring IP addresses can cause a brief broadcast storm.	Will be fixed in future release.
AP1411 Radio Configuration	After switching the radio, the previously unused band is set to a disabled state (Express).	Manually enable the band in AP RF.
SNMPv3	Some special characters can cause SNMP communication issues. The special characters include the following: \$, ", (Don't using these special characters.
6G wIPS	6G radio does not support wIPS feature.	Will be supported in future release.
mDNS	AP1411/AP1431 does not support mDNS feature.	Will be supported in future release.
ALEISSUE-1529	AP1101 rebooted due to kernel panic.	Will be fixed on AWOS 5.0.1.
DPI	DPI memory leak issue.	Will be fixed in future release.
Mesh	1.If AP working on DFS channel, the client/mesh client can't connect to AP. 2.Create new WLAN on band different from Mesh, will cause reconnect on mesh network.	1.Change the channel to non-DFS channel. 2.Will be fixed in future release.
PPSK	PPSK feature on the AP applied an error VLAN to client.	Enable MAC authentication. Will be fixed on AWOS 4.0.7MR5
Force 5G	The Force 5G feature does not work for certain clients.	Will be fixed on AWOS 4.0.7MR5
Client Isolate	The client can't access network in Mesh non-root AP and Client Isolate is enabled on WLAN.	Disable Client Isolate. Will be fixed on AWOS 4.0.7MR5

Captive Portal	The client can access the network without CP authentication in roaming scenarios.	Set a default ARP in Authentication Strategy.
WIPS	The module loading configuration is abnormal.	Will be fixed on AWOS 4.0.7MR5
Dynamic VLAN	<ol style="list-style-type: none"> When dynamic VLAN is assigned for client, ACL and Client isolation for wired user will not take effect. When client roaming with dynamic VLAN, client IP may not be displayed on UI. Kick off iPhone client, and then connect to WLAN with dynamic VLAN, it can't obtain IP address sometimes, it can be recovered by forgetting the network and connect again. No issue on other type of client. 	Will be supported in future release.
Enhanced Open	Modify Enhanced Open WLAN to Open, Client can't obtain IP address, this issue happens only on AP1101.	Disable/Enable WLAN. Will be fixed in future release.
WLAN Scope	Modify existing PSK WLAN Scope type from all to specific AP, client can't connect to this WLAN, the issue only happens on AP1431.	Will be fixed on AWOS 5.0.1/AWOS 4.0.7MR5.
Static WEP	Wireless client can still connect to WLAN when configured index value different from the WLAN's index.	Will be fixed in future release.
Wired Client	<p>For devices which supports downlink port, there are issues below:</p> <ol style="list-style-type: none"> Wired Client will go offline and online when modify Wireless WLAN or Downlink port config. Plug and unplug Wired Client to OAW-AP1301H and move it to other ports of Switches in the same LAN, then plug it back to OAW-AP1301H, will cause FDB learn error in rare cases. Disable and enable the corresponding port can recover. 	Will be fixed in future release.
DSCP	When configuring tagged VLAN ID on 5G WLAN, DSCP does not take effect.	Will be fixed in future release.

Limitations and/or Dependencies

Feature	AP Model	Limitations and/or Dependencies
WCF	All	<ol style="list-style-type: none"> 1. WCF does not support http over proxy scenario. 2. WCF does not support blocking mobile applications access. Client's packets are not restricted (packet not dropped by AP, no redirection to Restricted Web Page) 3. WCF does not support RAP scenario. 4. When using Iphone roaming between Aps, reject page can't be redirected when using Safari, but it works ok for other browser such as Chrome 5. If the mobile device has already cached the DNS for the corresponding URL, the WCF functionality will not take effect. 6. WCF Feature is not supported when WLAN Client enabled secure DNS (DoT or DoH)
HTTPs CP over proxy	All	For iOS does not support to configure URL to bypass the proxy, this function does not work on iOS devices.
AP 802.1x client	All	Wireless clients can't connect to internet on untag VLAN with AOS switch due to AOS switch treat all untag devices as 802.1x client.
Wired Port	AP1201HL	<ol style="list-style-type: none"> 1. AP1201HL switches to a Group with downlink configuration, wired client cannot access it. 2. AP1201HL enables trust tag and option 82, wired client may not obtain IP address
DRM	All	In some cases, when the channel utilization reaches more than 90%, the channel does not switch automatically, which seriously affects the user experience.
IGMP Snooping	All Stellar Wi-Fi 6 AP Models	For 11AX devices, if there is no multicast querier in the environment, the conversion from multicast to unicast may fail. We recommend that the switch of IGMP Snooping feature be turned on by default.
Mesh	All	Multicast to unicast is not supported in Mesh mode.
DPI	AP1201/ AP1220 series/ AP1251	When DPI function is enabled, it is recommended to have an initial free memory size of about 30MB after AP booting up for system stable running. If the booting up free memory size is far less than 30MB, suggest removing unnecessary WLAN/VLAN/Policy/DPI rule on AP1201/AP1220/AP1251.
Bypass VLAN	AP1201H/ AP1201HL	If the bypass VLAN function is enabled, setting VLAN id A, and setting the management VLAN to tag VLAN id is also A, which will cause the AP itself to be inaccessible and affect the operation of AP. Therefore, there is a restriction here that the tag for managing VLAN cannot be the same as bypass.
mDNS	AP1201H/ AP1201HL /AP1261- RW-B	AP1201H/1201HL/AP1261-RW-B Downlink Terminal does not support mDNS message forwarding.
Show device name	All	When some clients connect to wlan, there is no option12 field in the dhcp message, so its hostname cannot be displayed.
Management VLAN Static IP LACP	AP1351/A P1451	When configure LACP + Management VLAN + Static IP for AP1351, the network will not be reachable after AP reboot if LACP aggregated link is formed, the workaround of this issue should be disable LACP on switch side.
Link aggregation	All	Link aggregation with management VLANs has a certain probability of failure
Link aggregation	AP1351	There is very low probability on AP1351 that ethernet PHY fail to receive messages in the scenario of link aggregation.
ALEISSUE-1294	All	This improvement might cause some lower version of SSH clients cannot connect to Stellar AP running this new build, upgrade SSH client version will avoid this problem.
ALEISSUE-1343	AP1201H(L)	VLAN 4090-4094 is not allowed configured.
11K	Aps without scan radio	To make sure 11k function work as expected, we should configure the AP background scanning on "Working Channel and Non-working Channel".
Client Isolation	All	1. Client A connect to WLAN1 with ARP1, and Client B connect to WLAN2 with ARP2, in this case, If Client A and B needs to communicate to each other, both of the two

		clients need to be added into whitelist, either one of Clients add into whitelist can't ensure communication between these two clients. 2. In case of Express mode, configure WLAN using internal portal + external MAC authentication, client isolation will not work, suggest using internal or external portal authentication only.
Express mode WLAN number	All	Starting with AWOS 4.0.5 in Express mode, we can create 15 user SSIDs on clusters with following models. • AP1301H, AP132x, AP1331, AP136x, AP1351 & AP1451 If a cluster has any of the following models, limit remains at 7 user SSIDs. • AP1311, AP1301, AP12xx and AP1101
ALEISSUE-1367	All	OV IP was not supposed to be included in the local breakout IP range.
RAP wired downlink port	All Stellar AP with downlink wired port.	1. Trust tag VLAN ID should not be same as Mac VLAN ID. 2. After enabled trust tag, should not use VLAN0. 3. Don't support authentication and policy rules.
Certificate management	All	In express mode, the password of the certificate does not support special characters.
WPA3+11r	All	Some clients do not support WPA3+11r.
Dynamic VLAN	All Stellar Wi-Fi 6 AP Models	For Dynamic VLAN is only supported for all Wi-Fi 6 AP models under Express mode, it is not suggested to enable the function when there is Wi-Fi 5 APs in this Cluster. There will be roaming issues when client roams between Wi-Fi 6 and Wi-Fi 5 APs.
Enhanced Open Transition Mode	All	Mobile devices with Android OS connects to Enhanced Open Transition Mode WLAN, sometimes it connects to Open WLAN and sometimes it connects to OWE WLAN, When the issue happens AP works as expected broadcasting beacons with related Transition mode info IE. It is suggested to upgrade mobile devices to latest software version.
USB flash drive	OAW-AP1301	Plug in the USB flash drive, and doing factory reset or OS upgrade, AP can't obtain IP address when AP boots up again, power cycle the device will recover.

New Software Feature Descriptions

N/A

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:

Region	Phone Number
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: ale.welcomecenter@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://myportal.al-enterprise.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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