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Enterprise

Release Notes

OmniAccess Stellar AP

AWOS Release 4.0.7 – MR1 Release

These release notes accompany the OmniAccess Stellar Operating System (AWOS) Release 4.0.7 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.

Table of Contents

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

Provides technical specifications and installation procedures for the Stellar AP.

Stellar AP Configuration Guide

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
NAAS Enhancement	Except AP1101, AP1201H, AP1201HL, AP1201L, AP1261-RW-B
Auto-Group PSK (OVE&OVC)	All
TCPMSS Adjustment (OVE&OVC)	All
Support 256 VLAN (OVE&OVC)	Except wifi5 devices
Syslog Support TLS	Except AP1101, AP1201H, AP1201HL, AP1201L, AP1261-RW-B
DRM Improvement (OVE&OVC)	All
RadSec for Wireless 802.1x	Except AP1101, AP1201H, AP1201HL, AP1201L, AP1261-RW-B
6G mesh	AP1411, AP1431,AP1451
OCSP for RadSec (Express)	Except AP1101, AP1201H, AP1201HL, AP1201L, AP1261-RW-B
OCSP for Syslog (Express)	Except AP1101, AP1201H, AP1201HL, AP1201L, AP1261-RW-B

Fixed Problem Reports Between Build 4.0.7.14 and 4.0.7.1019

PR	Description
ALEISSUE-1590 Case number: 00684901	**Summary:** No ability to configure channels 149 - 165 on 5Ghz in UK with OVE or OVC. **Explanation**: Support channels 149-165 in Wi-Fi driver and hanlet. Click for additional information
ALEISSUE-1638 Case number: 00698378	**Summary:** Roaming with GTTS tunnelling is not working. **Explanation**: Fixed the AP apply the error Access Role Profile to user when roaming in GTTS tunnel scenario. Click for additional information
ALEISSUE-1653 Case number: 00699669	**Summary:** AP drops back to 40 MHz after reboot. **Explanation**: In the automatic channel selection scenario, the AP does not save the bandwidth information, causing inconsistent bandwidth after the AP restarts.

	Click for additional information
ALEISSUE-1664 Case number:	**Summary:** Unable to remove domain in Walled Garden. **Explanation:** The judgment condition of the URL is problematic, causing the page to be unable to be deleted. Click for additional information
ALEISSUE-1666 Case number:	**Summary:** When there are more than 2 AP1301s connected to switch, the AP communication is lost. **Explanation:** The switch forwards LACP packets causing the aggregation of the wired interfaces of two APs together. This results in network failure. Disable LACP by ECC in OV mode. Click for additional information

Fixed Problem Reports Between Build 4.0.5MR5 and 4.0.7.14

PR	Description
ALEISSUE-1605 Case number: 00690518	**Summary:** AP 1101 is reaching 100% CPU and getting struck. **Explanation:** High CPU usage is caused by 'DRM' module. Click for additional information
ALEISSUE-1536 Case number: 00682998	**Summary:** Generated a log when WLAN Client Signal to Noise Ratio is less than 25 dB. **Explanation:** Added log for lower SNR client. Click for additional information
ALEISSUE-1586 Case number: 00686188	**Summary:** IPhone not able to connect to Stellar AP in 4.0.5 **Explanation:** Incorrect PMF parameter cause the issue. Click for additional information
ALEISSUE-1590 Case number: 00684901	**Summary:** No ability to configure channels 149 - 165 on 5Ghz in UK with OVE or OVC. **Explanation:** Added 149-165 channels in UI for country code UK in CLUSTER mode. Click for additional information

ALEISSUE-1544 Case number: 00661046	**Summary:** Stellar AP running with NaaS Licensing shall generate logs when device is entering into grace period and into degraded mode. **Explanation:** Added log when AP is entering into grace period and into degraded mode. Click for additional information
ALEISSUE-1648	**Summary:** Disable & re-enabled the wired port OV Discovery Profiles will lead to the trust tag function not work. **Explanation:** Fix the wire configuration lost in some situation. Click for additional information
ALEISSUE-1657	**Summary:** Unable to change WAN VLAN interface of AP to tagged vlan with static ip address. **Explanation:** Fix the VLAN configuration was lost in certain scenarios.
ALEISSUE-1635	**Summary:** Kernel Panic crash-AP1361 **Explanation:** Added Null-pointer checking in kernel.
ALEISSUE-1578	**Summary:** Mesh-Link stability Issue **Explanation:** Optimized RF configuration loading logic to avoid impacting mesh links.
ALEISSUE-1502	**Summary:** Gratuitous ARP packet is looped on the stellar mesh AP. **Explanation:** Added a mechanism to prevent broadcast storms on mesh links.

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	There is no known workaround at this time.
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)	There is no known workaround at this time.
WCF	WCF Feature is not supported when WLAN Client is running IPv6	There is no known workaround at this time.
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, 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	There is no known workaround at this time.
WCF	WCF does not support L3 roaming scenarios.	There is no known workaround at this time.
Option82	After enabling option82 feature, in some scenarios, user roaming and reacquiring IP addresses can cause a brief broadcast storm.	Will be fixed on AWOS 4.0.8
AP1411 Radio configration	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 on later release
6G Dedicated scanning	6G radio does not support Dedicated scanning feature	Will be supported on AWOS 4.0.8
6G WCF	6G radio does not support WCF feature	Will be supported on AWOS 4.0.8
mDNS	AP1411/AP1431 not support mDNS feature	Will be supported on AWOS 4.0.8
ALEISSUE-1529	AP1101 rebooted due to kernel panic	No workaround at this time
ALEISSUE-1617	Frist HTTP packet from the client is not getting redirected during CP authentication	Will be fixed on AWOS 4.0.7MR3
DPI	DPI memory leak issue	Will be fixed on AWOS 4.0.8
RSSI Threshold	The RSSI threshold not working on 6G interface	Will be fixed on AWOS 4.0.8

Access issue	If the 6G interface is working on the enterprise mode and 11r is also enabled, the client cannot connect to the access point	Workaround: Disable 11r Will be fixed on AWOS 4.0.7MR3

Limitations and/or Dependencies

Feature	AP Model	Limitations and/or Dependencies
Dynamic VLAN	All	1. In Express mode the support of Dynamic VLAN Attribute returned by the Radius Server is not supported since AWOS 4.0.x
WCF	All	2. WCF does not support http over proxy scenario. 3. 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) 4. WCF does not support RAP scenario. 5. 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
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	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".
Enhanced Open WLAN	All	Mobile devices with Apple iOS do not support OWE, Mobile devices with Android 10 or later support OWE, Computers with Windows 10 version 2004 or later and a wireless adapter that supports OWE.
Client Isolation Whitelist	All	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.
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 Staller 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.

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.