

Analytics and Location Engine 1.2

Release Notes

Analytics and Location Engine (ALE)1.2 is a software release that introduces new features. This release note describes the new features along with known and fixed issues.

New Features in ALE 1.2

Refer to the *Analytics and Location Engine 1.2 User and API Guide* for new feature configuration details.

AOS 6.4 Support

ALE 1.2 supports AOS 6.4.x.x.

ISO Image-Based Installation

ALE 1.2 can now be installed directly on a bare metal server using the released ISO image. The ISO image includes all the needed software and the operating system. Users must make sure that the server meets the desired specifications based on the size of network. Installing the OVA file continues to be supported as is.

Single AP-Based Location

ALE now supports location calculation based on a single AP only for sparse deployments and where coarse grained location is acceptable. The location is the same as the location of the detecting AP. ALE publishes the AP location for the clients in a single/sparse AP deployment. The feature is delivered as recipe 22, and is disabled by default.

A new Location API output parameter, `loc_algorithm`, has been added. This parameter indicates how the (x,y) coordinates are populated for the message.

Anonymization Enhancements

ALE now supports enhanced anonymization features to further protect users' privacy. ALE supports changing the anonymization salt at a user defined interval, so that the same MAC address does not result in the same anonymized hash outside of that interval.

The ALE Scale and Performance Table

Table 1 lists the scale and performance the number of APs or clients. Note the following:

- The table numbers are suggested numbers. Depending on specific scenarios, these number may need to be fine-tuned. For example, if there are lot more clients resulting in more location calculations, then more CPUs may be needed.
- Depending on how much history needs to be stored, more memory/disk space may need to be added.
- The Number of Clients column include both associated and unassociated clients

- The largest map supported is 650m x 50m (2130 ft x 164 ft)

Table 1 ALE Scale and Performance

Number of APs/Clients	CPU	RAM (default)	Hard Disk
500/8K	2	6-GB	80GB
1K/16K	4	8-12GB	80GB
2K/32K	8	12-24GB	80GB

Known Issues and Limitations in ALE 1.2

There are no known issues in ALE 1.2.

Fixed Issues in ALE 1.2

The following limitations were fixed in ALE 1.2:

Table 2 ALE 1.1.1 Fixed Issues

Bug ID	Description
93484	<p>Symptom: When a user entered an Airwave IP in the ALE UI and clicked the Apply button twice, the Airwave IP was duplicated. An error message now displays to alert the user when redundant entries are added in the ALE UI.</p> <p>Scenario: This occurred on ALE 1.1.1 and earlier.</p>
93486	<p>Symptom: Providing the wrong username or password for Airwave could have caused the location server process to behave erratically. This was caused when an Airwave server was deleted from the configuration.</p> <p>Scenario: This occurred on ALE 1.1 and earlier.</p>

Fixed Issues in Previous Releases

The following limitations were fixed in ALE 1.1.1:

Table 3 ALE 1.1.1 Fixed Issues

Bug ID	Description
93557 96519	<p>Symptom: Verification for the 90-day evaluation license failed and the following error message appeared: “/opt/ale/licenses/license_90DayEval.txt_failed.” This issue occurred when the privacy guard that is shipped with the operating system failed.</p> <p>Scenario: This occurred on ALE 1.1.</p>

The following limitations were fixed in ALE 1.1:

Table 4 ALE 1.1 Fixed Issues

Bug ID	Description
86061	Symptom: For mobile clients, the location calculation value reflected the value from a previous location calculation for approximately 11 to 18 minutes. Scenario: This occurred on ALE 1.0.
86455 86622 86693	Symptom: Floor latitude and longitude were not available through the REST API. Scenario: This occurred on ALE 1.0.
86646 86693	Symptom: The Rest API for floor information returned exceptions or failed to include all information. Scenario: This occurred on ALE 1.0 as some parameters were not yet implemented.
86705	Symptom: During bootstrap, some messages were not properly processed and stored. Scenario: This occurred on ALE 1.0 during the web application bootstrap.
86730	Symptom: In RESTAPI, a floor was not seen even though APs were present on that floor. Scenario: This occurred on ALE 1.0.
91398	Symptom: AP-225 information from Airwave was not mapped correctly in ALE. Scenario: An internal code error in ALE 1.0 prevented the AP-225 information from Airwave from mapping properly.
92467	Symptom: The accuracy of a group of stationary clients was less than 10m for more than 90% of the time. Clients showed abnormally high error rates when their location did not meet the recommended distances from the APs. Scenario: This occurred on ALE 1.1
92484	Symptom: The memory for ls.py kept increasing. This was caused by a leak in the timer routine which leaked memory without any external stimulus. Scenario: This occurred on ALE 1.1.

Contacting Support

Table 5 Web Sites and Emails

Web Site	
• Main Site	http://www.arubanetworks.com

Table 5 *Web Sites and Emails (Continued)*

Web Site	
• Support Site	https://support.arubanetworks.com
• Software Licensing Site	https://licensing.arubanetworks.com/login.php
• Wireless Security Incident Response Team (WSIRT)	http://www.arubanetworks.com/support/wsirt.php
Support Emails	
Americas and APAC	support@arubanetworks.com
EMEA	emea_support@arubanetworks.com
WSIRT Email Please email details of any security problem found in an Aruba product.	wsirt@arubanetworks.com

Table 6 *Contact Phone Numbers*

Telephone Numbers	
• Aruba Corporate	+1 (408) 227-4500
• FAX	+1 (408) 227-4550
Support	
United States	800-WI-FI-LAN (800-943-4526)
Universal Free Phone Service Number (UIFN): Australia, Canada, China, France, Germany, Hong Kong, Ireland, Israel, Japan, Korea, Singapore, South Africa, Taiwan, and the UK	+800-4WIFI-LAN (+800-49434-526)
All other countries	+1 (408) 754-1200



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