Aruba & AVSystem

Presence Analytics for People Counting and Contact Tracing

Public venues, stores, and malls face challenges restarting their businesses in compliance with COVID-19 social distancing and contact tracing regulations. Real-time occupancy monitoring that runs over existing infrastructure provides an ideal means of meeting compliance rules and complies with GDPR and other applicable privacy rules.

Founded in 2006, AVSystem is a software provider based in Krakow, Poland. The company specializes in large-scale device management and IoT solutions for communications service providers and enterprises worldwide. AVSystem Linkyfi is a web-based social distancing and occupancy management application that automatically monitors and logs facility occupancy. The solution uses Wi-Fi and video presence detection and counting and when used with a reliable and scalable wireless network, the solution enables businesses to enforce social distancing using real-time people counting, rush hour monitoring, and density monitoring.

WHY ARUBA AND AVSYSTEM?

- Leverages existing Aruba wireless infrastructure - no additional hardware required
- Provides peace of mind for shoppers and visitors when they visit your properties
- Works across thousands of locations and multiple time zones
- Customizable dashboards for at-a-glance occupancy data
- Real-time location data to detect violations of physical distancing recommendations
- Certified interoperability

Aruba and AVSystem have partnered to exchange captive portal data and presence data from Aruba 802.11ac (Wi-Fi 5) and 802.11ax (Wi-Fi 6) access points with Linkfi. Upon joining the Aruba wireless network via the captive portal, a guest's identity is shared with Linkyfi. From that point forward, guest presence is monitored by the Linkyfi application which enforces area capacity limits and monitors who was proximate to whom, and where, for contract tracing purposes.
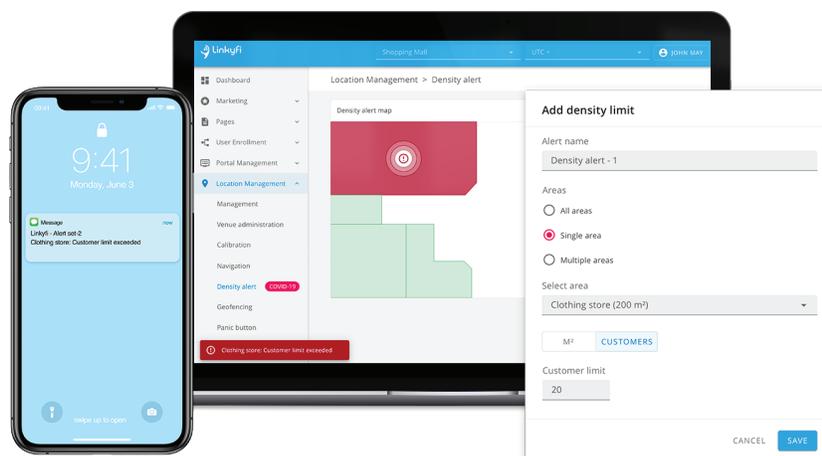

Figure 1: Density alert function on AVSystem Linkyfi dashboard

The joint solution is comprised of Aruba wireless access points (APs), AVSystem Linkyfi, and Aruba's Analytics and Location Engine (ALE). ALE collect presence data about mobile devices from Aruba APs, and forwards them to Linkyfi, which makes these data available via customizable dashboards.

The Aruba and AVSystem occupancy management solution provides real-time metrics on site usage and proximity. Violation thresholds and alert methods are adjustable and include:

- Threshold alerts - SMS or e-mail alerts triggered when occupancy levels are exceeded;
- Density alerts –SMS or e-mail alerts when high congestion thresholds are exceeded;
- Area alerts - multitenant venues can demarcate areas within one common venue and set different thresholds and alert methods for each area.

The joint solution identifies the total number of visitors on site, and allows customers to set maximum visitor thresholds at different times of day to inform when entry queues – and staff to manage them – are needed. Linkyfi density monitoring dashboards help customers adjust store layouts and lanes to avoid points of congestion.

CERTIFIED INTEROPERABLE

- Aruba has certified the interoperability of Linkyfi on Aruba wireless infrastructure to speed up deployments. The setup process includes configuring the captive portal for data gathering and marketing purposes, and then configuring location services to enable social distancing and people counting.
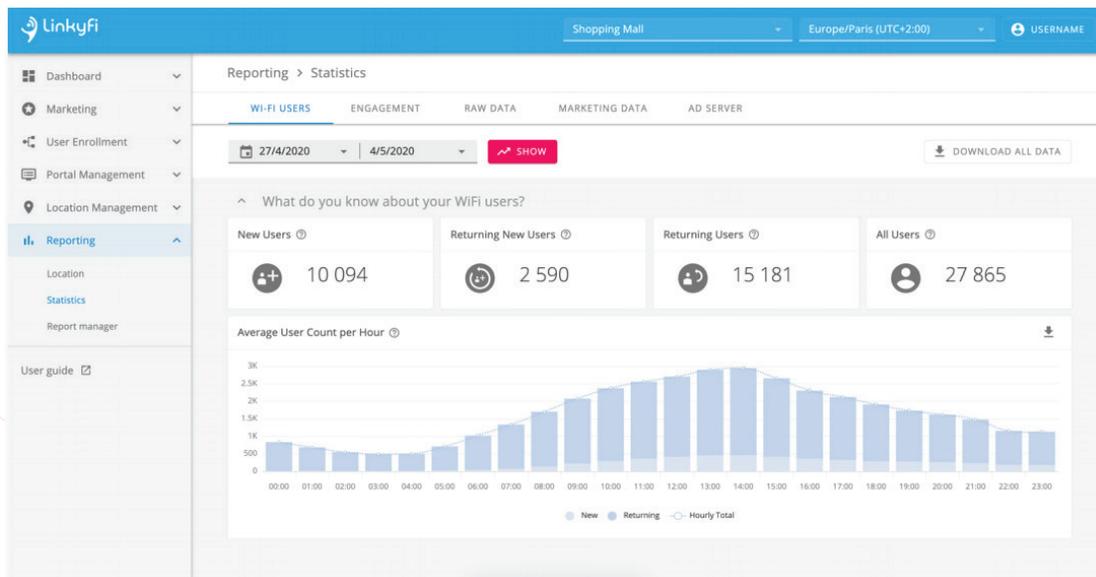

Figure 2: People counting report in AVSystem Linkyfi Dashboard
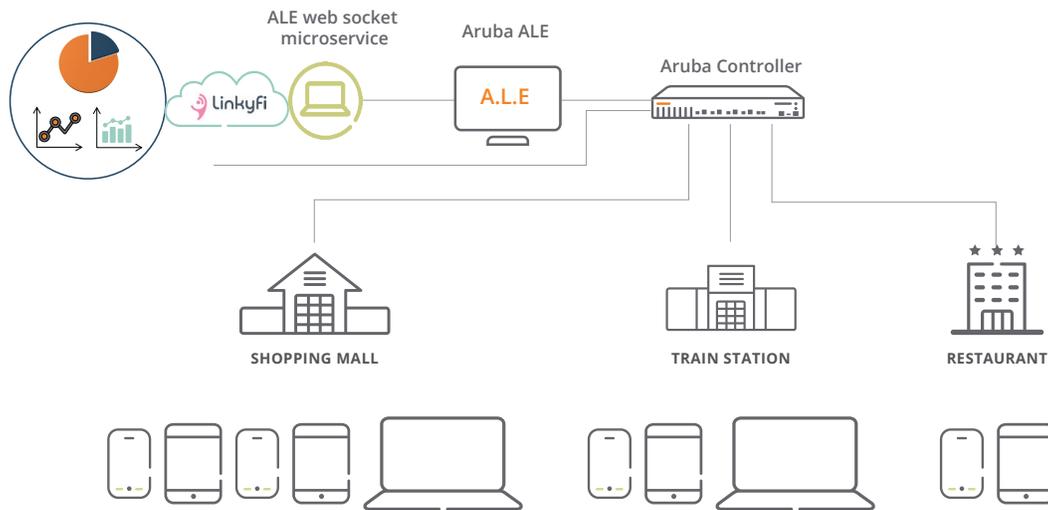
Figure 3: Aruba and AVSystem joint solution diagram

• Captive portal configuration requires pointing the RADIUS server and captive portal authentication to Linkyfi. Entries are added to the walled-garden, and the Aruba access point identities are then added to Linkyfi. Social distancing and other location-based services require the use of Aruba's Analytics and Location Engine to generate x/y positioning of people on site.

SUMMARY

Aruba's secure infrastructure is the ideal way to manage occupancy in venues of all sizes. Contact your local sales representative to see how together Aruba and AVSystem deliver social distancing and contract tracing solutions.

For more information on Aruba wireless, please visit: https://www.arubanetworks.com/products/networking/access-points/

DEPEND ON AVSYSTEM

AVSystem is a software provider founded in 2006 and based in Krakow, Poland. The company is known for their large-scale device management, IoT and Wi-Fi valued added solutions deployed for major Communications Service Providers and enterprises worldwide.

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