

Cambium Networks and Genetec

Device-Based Area Occupancy Through Wireless Access Points

Occupancy data is becoming more valuable to organizations across all verticals. Tracking a crowd's density in enclosed spaces presents a technological and operational challenge to retailers, public service agencies, and enterprises. Occupancy tracking technologies often require investment for new hardware or fall short in protecting the privacy of citizens.

Genetec has partnered with Cambium to provide a solution that leverages existing infrastructure and innovative software to track occupancy while anonymizing data to ensure privacy.

Genetec initially developed the Security Center Transportation Sensor Management module to track vehicle occupancy and other telemetry across cities for traffic agencies using video analytic, radar, and lidar data.

Today, occupancy in densely packed transit areas such as subway platforms and bus stations can be tracked through data from wireless network access points (AP).

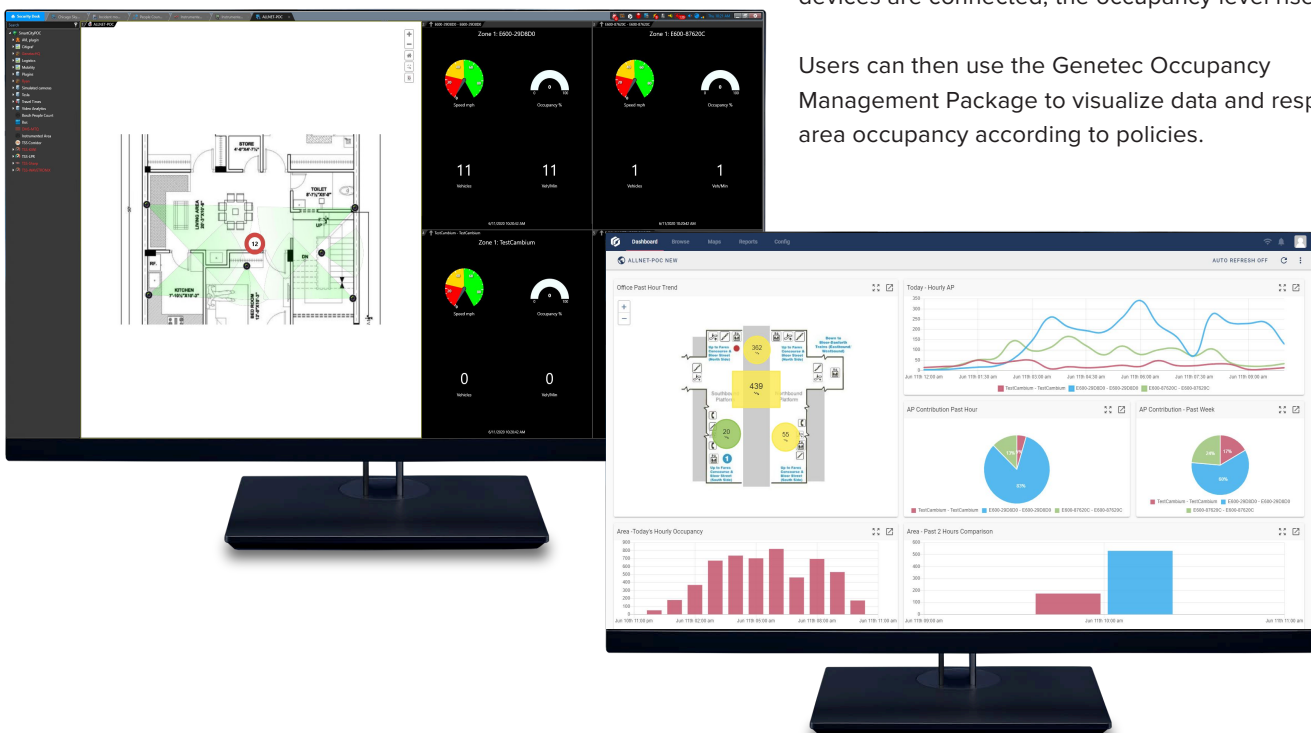
KEY FEATURES OF OUR SOLUTION

- Real-time tracking of occupancy through customizable dashboards
- Unified user experience and back end architecture to link occupancy data to physical security systems through a single pane of glass
- Actionizable occupancy data through the Genetec Security Center platform and its Event-to-Action capabilities
- GDPR and CCPA compliance with enterprise-grade security and built-in data anonymization
- Quick and easy deployment leveraging existing infrastructure

HOW IT WORKS

When a mobile device is detected as connected to the network, the system classifies it as a current connection that translates into an occupancy count of one. As more devices are connected, the occupancy level rises.

Users can then use the Genetec Occupancy Management Package to visualize data and respond to area occupancy according to policies.



A PLATFORM FOR UNIFICATION

Genetec Security Center is the unified platform from which all other Genetec modules extend. Security Center blends IP video surveillance, access control, automatic license plate recognition, intrusion detection, communications, and occupancy management within a single pane of glass for security operators.

The Security Center platform's flexible nature allows it to ingest data from nearly any IP device and present it alongside information from core security systems such as video management systems and access control systems. Genetec works closely with partners in various industries and areas of technological innovation to bring a versatile and open platform to its customers.

Unifying security operations on Security Center helps organizations break down silos and encourages collaboration between teams. It also allows for deeper analysis of events and correlation of data to improve security teams' response time and investigate incidents as they happen.

Occupancy data is paired with video monitoring, video analytics, intercoms, and other tools to give your organization a clear understanding of how people move through your infrastructure and where they congregate. This empowers your decision making for resource allocation and long-term planning.



APPLICATIONS

Pairing the Genetec Security Center unified platform with Cambium Network hardware allows customers in various fields to gain valuable occupancy information. The following industries can benefit from this solution:

- **Retail:** Manage daily occupancy in your stores to remain informed of a sudden influx of customers and log occupancy trends for historical analysis to support your planning.
- **Transit:** Track occupancy at your stations to understand when commuters use your network and receive alerts when your network sees a spike in passengers to help you deploy more resources to that area.
- **Airports:** Keep passengers moving by identifying crowds and dispatching resources necessary to keep your operations running smoothly.
- **Many more:** Any organization that wants to keep track of occupancy in an area for live monitoring and historical analysis can leverage this solution.



SUMMARY

Cambium Networks offers reliable high-speed infrastructure that supports AP occupancy tracking in large and small-scale deployments. Contact your local Distributor/Reseller to learn how Cambium Networks, together with Genetec, created a scalable occupancy solution that leverages existing infrastructure and ensures privacy.

To learn more about Cambium Networks Enterprise Wi-Fi and Switching solutions, please visit:

www.cambiumnetworks.com/wifi/