

# Aerohive® Private Client Groups

**Aerohive Private Client Groups (PCG) is the industry's first Room Area Network (RAN) solution, with the capability to manage and control network services based on micro-location. PCG is perfect for Multi-Dwelling Unit (MDU) environments such as hotels, care facilities and student accommodation.**

## Summary

For many years, MDU environments have struggled to effectively manage and secure their network. It is a fundamental requirement of an MDU to provide a secure, isolated network environment for each user and their associated room. The traditional approach is for each room to have a unique SSID and VLAN. This setup results in substantial overhead, ultimately degrading network performance and user experience. It also fails to provide an environment in which a user can roam to other rooms and access points while remaining connected to their personal network.

Aerohive's PCG solves these problems by providing secure, isolated, per-room networks while operating across a single SSID and VLAN. Network containerization is delivered with micro-location-based PPSKs, with secure end-to-end AES encryption, device-agnostic authentication and granular identity-driven security. To address the issues of mobility, cross-AP roaming is achieved with no drop in client connectivity, thanks to intelligent hand-off mechanisms and Aerohive's Network Extension Protocol (ANXP).

## Key Benefits

### Micro-segmentation and user isolation

PCG facilitates Room Area Networks based on micro-location, enabling a user to operate within a secure and private environment. The user can access everything within their personal RAN while being isolated from other RANs and network traffic.

### Industry-leading authentication and security

PCG benefits from Aerohive's innovative and mature Private Pre-Shared Key (PPSK) technology, providing secure end-to-end AES encryption, device-agnostic authentication and granular identity-driven security.

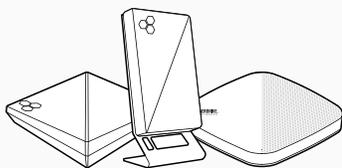
### Reduced overhead, increased performance

Operating across a single SSID and VLAN means network segregation is achieved without compromising performance with unnecessary airtime utilization and management traffic.

### Seamless connectivity and roaming

Users can roam across site while remaining connected to their RAN. A consistent connection is maintained thanks to intelligent hand-off mechanisms and Aerohive's Network Extension Protocol (ANXP).

## Components of Aerohive Private Client Groups (PCG)



### Aerohive Access Points

Any Aerohive 802.11ac or later AP supports Aerohive PCG.



### HiveManager™ Select Management

HiveManager Select facilitates the management of Aerohive APs, PPSKs, and PCGs.

