

"Airsnitch" - Recommendations for Client Isolation

A recent paper titled "[AirSnitch: Demystifying and Breaking Client Isolation in Wi-Fi Networks](#)" published at the NDSS Symposium 2026 describes a set of mechanisms to bypass client isolation. These mechanisms do not attempt to break the security of Wi-Fi encryption.

We recommend that customers adhere to industry-standard best practices to isolate clients and use Cambium Networks Enterprise Wi-Fi features such as ePSK to mitigate such attacks. In particular

- Enable client isolation on untrusted networks (Available under WLAN -> Basic Settings -> Client Isolation). Set the client isolation mode to "Network Wide" to also prevent client - client communication between clients on different APs
- On shared networks using PSK authentication, use ePSK to assign each user a unique passphrase and VLAN, ensuring isolation between users.
- Use unique VLANs per SSID to segment traffic and do not share VLANs between trusted and untrusted networks
- Disable DGAF in Passport networks (Available under WLAN -> Passport -> Basic Settings -> DGAF). When this is done Cambium Networks Wi-Fi APs send a random GTK in the four-way handshake, FILS. Handshake, and FT and WNM sleep responses.
- Implement ACLs on routers to block communication from untrusted networks to any local networks. If your router allows "hairpin" routing between IP addresses in the same subnet, disable this.
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In addition, evaluate the following recommendations. These may not be appropriate in all networks due to client limitations or incompatibilities

- Use Enterprise authentication instead of PSKs where possible. Use WPA3 SAE instead of Open and WPA3 PSK security instead of WPA2/WPA3 PSK and WPA2 PSK.
- Enable 802.11w to prevent forgery of management frames
- Enable GTK per VLAN as described in the [user guide](#) under the heading "Configuring the Wireless LAN Groupwise Transient Key (GTK) per VLAN". Test this setting before deploying in

production as some IoT devices and older Wi-Fi devices experience connectivity issues when this is enabled.

- Enable dynamic ARP inspection as described in the [user guide](#) under the heading "Dynamic ARP Inspection"