



Technical Guide

Dynamic Frequency Selection (DFS)

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What is dynamic frequency selection (DFS)?

Dynamic Frequency Selection (DFS) is a function of using 5 GHz Wi-Fi frequencies that are generally reserved for radar, such as military radar, satellite communication, and weather radar. The DFS channels vary from country to country. The main benefit to use DFS channels is to increase the number of Wi-Fi channels.

When a DFS channel is selected for an AP radio, the AP radio scans the channel to check for any radar signals before transmitting any frames in the DFS frequency. This process is called Channel Availability Check (CAC).

What is the user impact?

After you enable the DFS channel in the AP, it will detect the status of the channel.

1. When 5GHz is non-DFS channel > 5GHz can work.
2. When 5GHz is on the DFS channel> The AP will check the CAC by itself. During the check process, the 5GHz signal will not be able to connect. The process of CAC will take 1-10 minutes, and the specific time depends on the country and region.

Please note that 2.4GHz can still be used normally when checking channel availability, so users can use the 2.4GHz band first and wait for the 5GHz connection to resume.

Remarks

Please contact Edgecore' s Technical Support Team at ecwifi@edge-core.com for additional inquiries.