



Statement on Uniform Channel Spreading

The Proxim radio configured as a master uses a two-step approach to select a random channel while taking into account the presence of radar and other signals already present in the band in that geographic area to achieve Uniform Channel Spreading automatically:

1. The radio allows fixed configuration of a blacklisted channel, in case that there is a known radar station at a specific frequency, such as a meteorological radar, which otherwise may lead to frequent interference and unnecessary outages due to radar detection. This feature may also be subject to local regulations.
2. The radio will perform a receive-only scan on every available channel for a period of 4 seconds per channel and the highest detected signal level or any detected radar presence is saved in a channel list.

This channel list is scanned for the channel(s) having the lowest signal level; any channels with radar detection are blacklisted and skipped. If more than one quiet channel is found with the same lowest signal level, then a random choice between these channels is made to select a quiet channel on which the CAC is performed, which results in the best uniform channel loading.

If no radar is found during CAC then the quiet channel is made operational, else this channel is blacklisted and the process is repeated.

No characteristics of any detected radar is recorded in the channel list, only the indication whether a positive radar detection was made or not.