

CSMAC CBRS Subcommittee

July 18th, 2023

CBRS Subcommittee Members

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NTIA Question

1. What are general and specific lessons learned from the CBRS framework for commercial operations sharing with federal incumbents - both positive and negative?
2. How could the commercial-federal sharing in CBRS be improved?
3. What from this CBRS spectrum sharing experience should be considered for implementation in other bands/cases?
4. What from this CBRS spectrum sharing experience should be avoided in other bands/cases?

Schedule

- Kicked off subcommittee in January 2023
- Monthly meetings held since January
- 8 Interviews have been completed from a list of potential 47 entities and will continue into September
- Deliver final recommendations: December 2023

Observations so far

- The majority of the interviews have so far been with commercial users and federal users are scheduled for a later date. From a commercial standpoint, the following has been identified as opportunities to improve:
 - Updating the propagation model to include the use of clutter
 - Implementing an automated IIC solution to eliminate or reduce ESC whisper zones
 - Reducing complexity of aggregate interference protection
 - Reducing DPA Neighborhood sizes
 - Reducing heartbeat in non-DPA areas
 - Reducing DPA activation timer
 - Restrictive power limits imposed for a higher above ground CPEs
 - Reserving more spectrum than expected during federal events
 - Advanced notification of events is needed
- From a commercial standpoint, there are licensees and users who see a benefit in TDD synchronization and increased power. There is also an observation that in populated cities there is congestion in GAA and there needs to be better coexistence management
- The sharing process administered by the SASs is likely overly conservative, meaning that it provides more incumbent protection than necessary, resulting in commercial access being excessively restricted/interrupted.