

Identifying Key Characteristics of Bands for Commercial Deployments and Applications Subcommittee

CSMAC Meeting

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Question

Key Data Characteristics: Develop a methodology to help assess federal bands for potential sharing, using key characteristics identified previously to assess industry desirability of a frequency band. This methodology will be considered and potentially incorporated into the interagency process to identify and prioritize bands for repurposing.

Key Characteristics Identified Previously:

- Propagation and coverage decrease
- Capacity
- Contiguity
- International harmonization
- Incumbency

Initial Framework

- **Low frequency bands (below 1 GHz)** – propagation and coverage is the key characteristic of the band. Finding enough bandwidth and contiguity will be challenging.
- **Medium low (1-3 GHz)** – propagation and coverage are good; there is likely an opportunity for larger bands for greater capacity with contiguity to existing commercial operations.
- **Medium (3-6 GHz)** – propagation and coverage are better than higher bands, but not as good as low and medium low bands. There may be opportunities for greater capacity.
- **Medium-high band and high band (>6 GHz)** - propagation and coverage are less of a concern and capacity becomes the most important trait.

Even within this framework, the relative priority of each characteristic is likely to vary based on industry and use case.