3650 MHz Band

TCB Workshop
April 13, 2016
Part 90Z – Contention Base Protocol (CBP)

- KDB Publication 552295

- §90.7 Contention-based protocol. A protocol that allows multiple users to share the same spectrum by defining the events that must occur when two or more transmitters attempt to simultaneously access the same channel and establishing rules by which a transmitter provides reasonable opportunities for other transmitters to operate. Such a protocol may consist of procedures for initiating new transmissions, procedures for determining the state of the channel (available or unavailable), and procedures for managing retransmissions in the event of a busy channel. Contention-based protocols shall fall into one of two categories:

  - **Unrestricted** (3650-3700 MHz) one which can avoid co-frequency interference with devices using all other types of contention-based protocols.
    - CBP must allow sharing of similar and different systems.

  - **Restricted** (3650-3675 MHz) one that does not qualify as unrestricted.
    - CBP must allow sharing of similar systems
Unrestricted (3650–3700 MHz)

- Any device designed to preclude others from using the spectrum will not be authorized.

- When implementing TD-LTE, need to be careful about the timing of frames, how much time is allowed for listening, and back-off time. These times are defined in fractions of seconds.

- Test report must show threshold detection test. This could be energy detection and must allow reasonable times for other systems to operate. Thresholds we have approved are -65 dBm and lower.

- We have approved devices that follow similar protocols and timings as Wi-Fi and WiMax.

- CBP description should include a simple, but clear and detailed timing diagram.
Part 96 – Citizen Broadband Radio Service Device (CBSD)

- Part 96 devices will not be certified until a SAS is approved.

- We are working on a measurement procedure KDB.

- Current devices under Part 90Z will be grandfathered and can continue to operate until the transition period is complete. Devices can be upgraded to comply with Part 96 requirements.

- DA 15-1426 (PN Released December 15, 2015) Commission seeks proposals for SAS administrators and ESC operators:
  - Started January 15, 2016
  - “First wave” ends April 15, 2016
Questions?