

3650 MHz Band

TCB Workshop
April 13, 2016



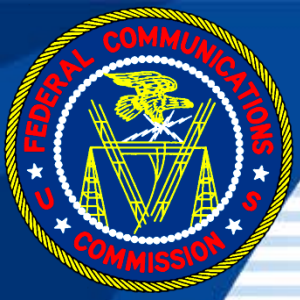
Part 90Z – Contention Base Protocol (CBP)

- 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



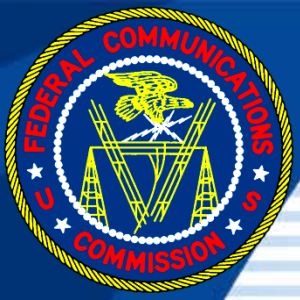
Unrestricted (3650–3700 MHz)

- 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?