



Citizens Broadband Radio Service Devices



CBSD

- Change in how CBDs can be filled
 - Category A/B allowed under one FCC ID
 - Previously separate FCC IDs required for Cat A/B
 - Burden on manufacturers who have identical HW within devices and only difference would be in SW or ANT gain.
 - Allow for more flexibility in filing for industry
 - Dependent on CPIs providing accurate information at time of install
- Removing Part 96 devices (CBD/CBE) from PAG list



CBSD

- 1) FCC device certification allows a common FCC-ID to be shared among multiple CBSDs configured with the same power amplifier (PA) but with different antennas including those that fall under Cat A and Cat B classification.
 - The EAS database shows the maximum EIRP for all antenna combinations.
 - So, if a CBSD certification shows a max EIRP higher than 30dBm it means the CBSD has at least one Cat B configuration and should be always installed by CPI even if it uses a lower gain antenna.
 - If a CBSD certification shows a max EIRP of less than or equal to 30dBm the CBSD can be registered as Cat A.



CBSD

- 2) A SAS should only accept a self-registration from CBSD, i.e. without a CPI, for indoors or less than 6-meter antenna height outdoors deployment if it can verify that:
 - CBSD is Cat A and capable of geo-location meeting part 96.39 rules as verified during device certification.
 - This verification should be consistent and follow a process defined by industry forum, e.g. Winn Forum or CBRS Alliance.



CBSD

- 3) In all cases involving CPI, the maximum EIRP of the CBSD and hence it's A/B category should be verified by the CPI.
 - The calculation of max EIRP of the CBSD by the CPI should be based on maximum, non-adjusted, conducted power of the PA as used for OOB testing in the certification of the CBSD's as well as the antenna gains and cables/splitters losses used in the deployment.
 - If CPI verifies that the maximum EIRP is at or below 30dBm, the CBSD may be treated as Cat A and be deployed indoors.
 - Note that this includes scenarios where a certified Cat B CBSD is used with lower gain antenna as Cat A indoors or a certified Cat B/Proxy system is used in a passive DAS deployment where each antenna is transmitting at 30dBm or lower.