

## Understanding Citizens Broadband Radio Service

	Mobility	CBRS	WLAN
<b>FCC Assigned Name</b>	600, 700, Cellular, PCS, AWS, WCS, EBRS	CBRS	ISM, UNII-1, UNII-2, UNII-2e, UNII-3
<b>Frequency Band MHz</b>	600, 700, 850, 1900, 2100, 2300, 2600	3500	2400, 5500
<b>Standards Organization</b>	3GPP	CBRS Alliance, 3GPP	IEEE
<b>Specifications</b>	3GPP Rel 8 thru 14	3GPP Rel 13+	802.11, currently 'ax' or Wi-Fi 6
<b>Certifications</b>	By OEM and MNO	OnGo certified	Wi-Fi certified
<b>License Requirements</b>	MNO per FCC Auctions	MNO per FCC Auction (PAL 7 @ 10 MHz each), Enterprise per FCC 'registration' (GAA 8 @ 10 MHz each)	Unlicensed
<b>Previous Users</b>	Relocated to other Spectrum	Remain with 'protection' from interference via SAS	Remain, All users must accept interference
<b>Technologies</b>	LTE, TD-LTE; Transition to 5G-NR (3GPP Rel 15+)	TD-LTE; Transition to 5G-NR (3GPP Rel 15+)	Wi-Fi, LTE-LAA, ZigBee, UWB, DECT, proprietary, microwave ovens, etc.
<b>KPI Issues</b>	NA: deterministic control of all OTA functions	NA: deterministic control of all OTA functions	Latency, jitter, capacity, QoS, security/privacy, roaming/handoff/mobility, device driver SW
<b>Ownership</b>	MNO owned WWAN	MNO owned WWAN, MNO owned WLAN, Enterprise owned WWAN, or Enterprise owned WLAN (all permutations)	Enterprise owned WLAN
<b>Installation</b>	Certified/professional only	Certified/professional only	Self install allowed

As of July 2019, 3GPP has approved support for the 5G-NR air interface in the CBRS band, paving the way for mobile 5G deployments using CBRS. Abbreviations and Definitions are available at <https://www.wirelessinnovation.org/fcc-definitions>