

# BRIEF UPDATE ON 5.9 GHZ

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## Three documents approved at Nov 18, 2020 FCC Meeting

- First Report & Order (R&O) - allows unlicensed indoor devices in the lower 45 MHz immediately, and temporarily allows both DSRC and C-V2X in the upper 30 MHz.
- Further Notice of Proposed Rulemaking (FNPRM) – asking for industry feedback for key technical details of C-V2X only in upper 30 MHz, revised channel alignments, power and antenna specs, output levels, how to affect change in OBUs, temporary co-existence of DSRC and C-V2X, future bandwidth needs, and more.
- Order of Proposed Modification (OPM) - a procedure required to modify existing licenses in the band and set basic ground rules for new licenses during this transition period.

## Impacts on V2X communications

- Existing V2X devices have 1 year to vacate lower 45 MHz
- DSRC will be phased-out in favor of C-V2X – details and timeline to be worked in in future rulemaking
- FNPRM process will address issues including reimbursement and allocating new spectrum
- Impacts on V2X applications largely unknown – many were designed for DSRC operating in 7 channels, must now be re-envisioned for C-V2X operating in 1 channel

Fact sheet from NCHRP project 23-10 that summarizes the documents recently approved by the FCC and outlines key impacts for infrastructure owners and operators - <https://onlinepubs.trb.org/Onlinepubs/nchrp/docs/NCHRP23-10FCC5-9GHzRulemakingImpactstoStateDOTsDec2020.pdf>