



COMMSCOPE®

6 GHz Commercialization

WInnComm 2021

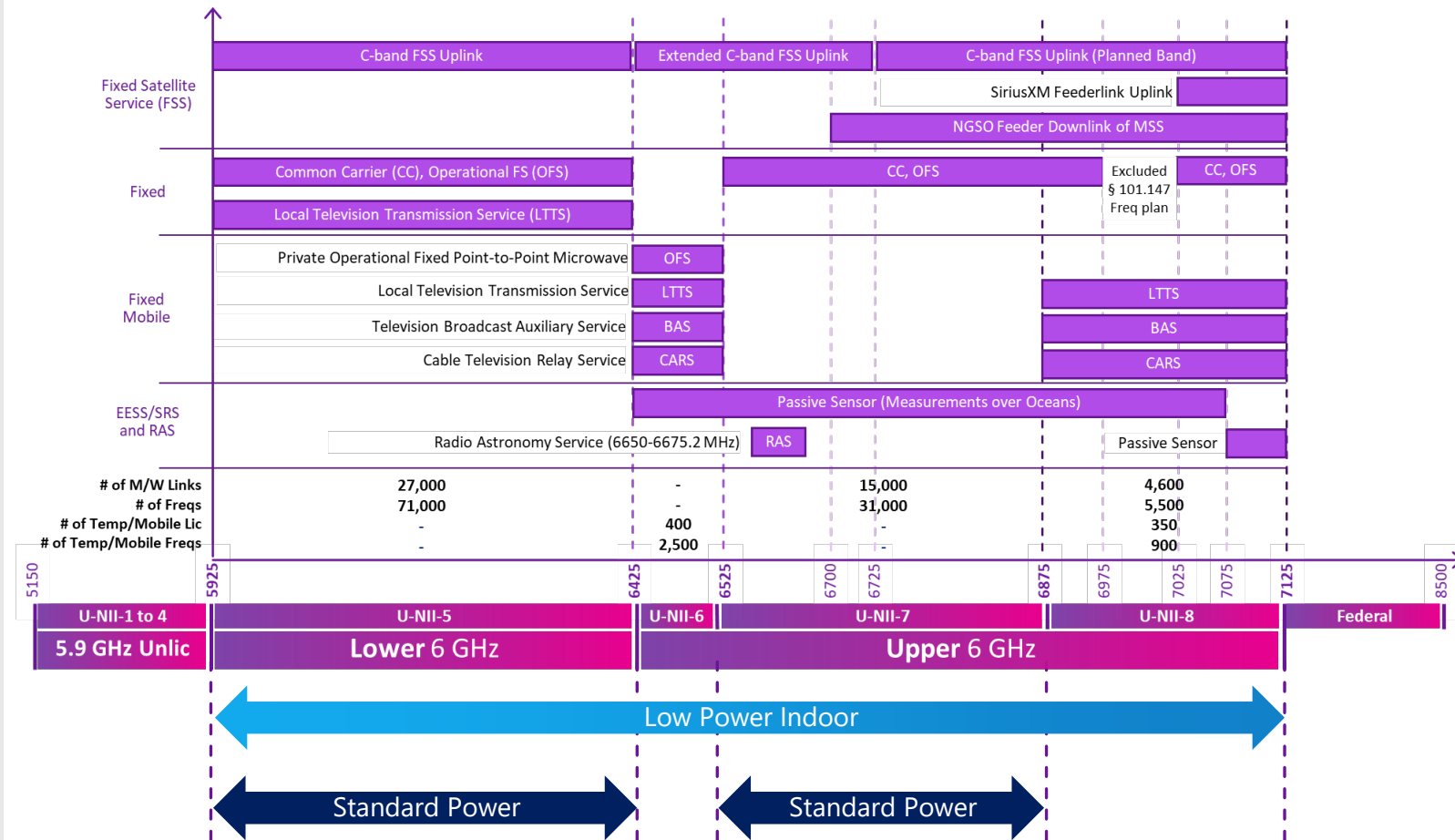
December 1, 2021

Background on the 6 GHz Bands

BACKGROUND/OVERVIEW

- FCC has opened the 6 GHz bands (5925-7125 MHz) for shared use by unlicensed devices in four segments:
 - U-NII-5 5925-6425 MHz (500 MHz)
 - U-NII-6 6425-6525 MHz (100 MHz)
 - U-NII-7 6525-6875 MHz (350 MHz)
 - U-NII-8 6875-7125 MHz (250 MHz)
- Two types of devices have been specified (so far):
 - Low Power Indoor (30 dBm / 5 dBm/MHz)
 - Standard Power (36 dBm / 23 dBm/MHz)
- Low Power Indoor devices can operate across the full 1200 MHz
- Standard Power devices can only operate in the U-NII-5 and -7 segments
- Standard Power devices must be controlled by an Automatic Frequency Coordination (AFC) system
- AFC System will be certified by the FCC

6 GHz Bands: Incumbent Use & U-NII Designations



Features



More, contiguous spectrum



Wider channels



Less interference

Benefits



Gigabit speeds



Extremely low latency



High capacity

Wi-Fi 6E brings Wi-Fi into 6 GHz

6 GHz Unlicensed Use Case Examples



Carrier Aggregation that can be quickly deployed



FWA



MDU Applications



Whole home gigabit coverage



Muni Wi-Fi



Factory and Warehouse IoT

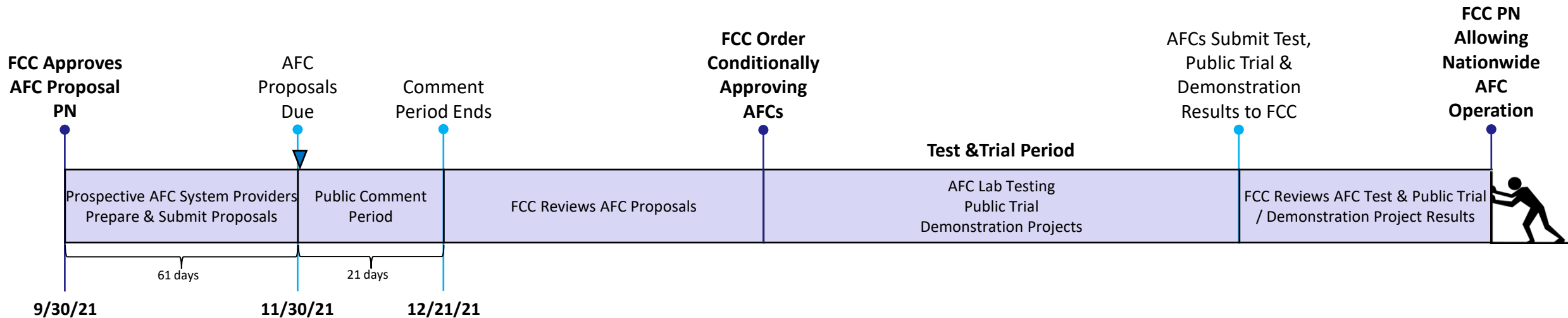


Multi-gigabit Wi-Fi venue capacity

AFC System Test & Certification Timeline

Key Steps for AFC System Certification

- Initial Public Notice
- Conditional AFC System Operator approval
- AFC System Testing / Public Trial / Demonstration Project
- AFC System Approval Allowing Nationwide Operation (Certification)



AFC System Proposals

14 total



Today's Panelists



Dave Wright, Head of Global Wireless Policy, *HPE*



Tim Harrington, Chairman of the Board and Cofounder, *UWB Alliance*



Stephen Rayment, VP Wireless Technologies, *Ericsson*