

TITLE OF TUTORIAL: IEEE 802.15.4: Its Impact on Its Users

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ABSTRACT:

This tutorial will address some of the more major uses of 15.4, including (in no particular order):

- Logistics/Military: RSAE
- Logistics/Manufacturing: Boeing
- Industrial Process Control: Dust/Wireless HART - ADI
- Industrial Process Control: ISA100
- Energy: SmartGrid - FP&L/WISUN (since weâ€™re in Orlando?)
- Home/Retail: ZigBee
- Home/Retail: Nest
- Location awareness: Decawave

TITLE OF TUTORIAL: Use of 802.11 for 5G Millimeter Wave Systems

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ABSTRACT:

“5G” efforts are advancing full-steam:

- Back in September 2015, The ITU-R released the IMT Vision document – Framework and overall objectives of the future development of IMT for 2020 and beyond. Traditionally the release of the vision document marks the beginning of the next generation spectrum harmonization and standardization at international level.
- The regulators around the Globe are opening new Millimeter wave spectrum for 5G services. In July 2016, the FCC in the US freed 10.85 GHz of spectrum above 24 GHz which includes 3.85 GHz of licensed spectrum from 27.5-28.35 GHz and 37-40 GHz as well as 7 GHz of unlicensed spectrum from 64-71 GHz. In Europe, 26 GHz band (24.25 GHz – 27.5 GHz) is identified as a 5G “pioneer band” by Europe’s regulators.

This tutorial begins with a review of the recommendations made by the 802 EC Standing Committee back in July 2016 and propose to reconsider the recommendation. We discuss how 802.11 PHY/MAC can be leveraged to enable high-performance, cost-effective, and power-efficient 5G systems in the 24-40 GHz licensed millimeter wave spectrum, and be submitted as a candidate technology for IMT-2020 and beyond.

TITLE OF TUTORIAL: Local MAC Addresses in the IEEE 802 Overview and Architecture based on IEEE Std 802c

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ABSTRACT:

IEEE Std 802c was approved by the IEEE-SA Standards Board on 15 June 2017, amending the IEEE 802 Overview and Architecture to specify Local Medium Access Control (MAC) Address Usage. This slide set summarizes the changes and implications. It also summarizes a new revision, prepared in coordination with 802c, of the relevant tutorial of the IEEE Registration Authority (IEEE RA)..