



# Review of WRC-19 AMT Threats

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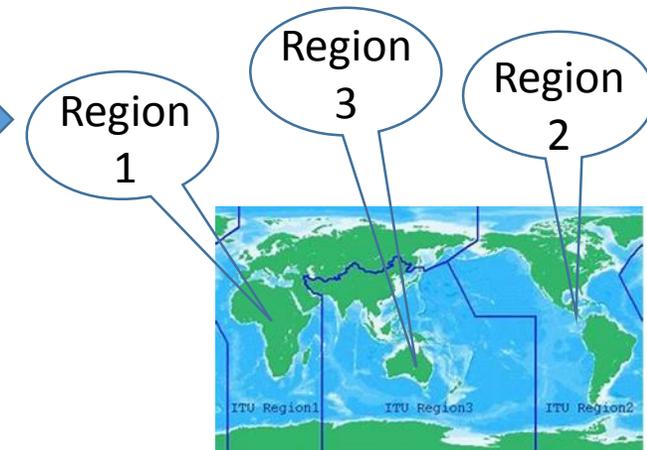
Presented at the

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# Why Worry?



- Members of the international telemetering community need to monitor the ever-increasing battle for spectrum
  - within their own countries
  - and within the International Telecommunication Union (ITU)
- Our silence on these issues could negatively affect our community.
- Many industry interests (like those for cell phones or broadband) have significant resources and large associations to push their agendas.
- Without the engagement of the entire AMT community, the risk of losing additional spectrum resources is increased.
- Affected ITU Region(s) are noted for each item 
- Information Sourced from;
  - <https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/cpm-19.aspx>



# Agenda Item 1.14; High Altitude Platforms

- This issue deals with additional spectrum allocations for high-altitude platforms (advocated by Facebook and Google); the 6 GHz band is one of a number of bands potentially affected.
- High-altitude platforms operating in this band could affect AMT operations in the upper C-Band (5925 MHz to 6700 MHz) as allocated at WRC-07.



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# Agenda item 1.16; 5 GHz RLAN Rules

- Agenda item 1.16 deals, among other things, with possible relaxation of the rules for wireless access system known as radio local area networks (“RLANs”) in the 5 GHz sub-band including 5150-5 250 MHz (an AMT Band for numerous administrations).
- These include a power increase and elimination of the indoor-only restriction.
- Efforts to relax the out-of-band emission (“OOBE”) limit for RLAN operations in this band could also affect the internationally harmonized AMT allocation at 5091-5150 MHz.



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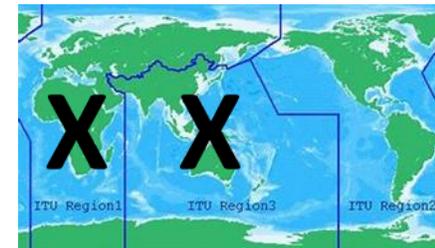
# Agenda Item 9.1.1; IMT Operations in Lower S-Band

- This agenda item considers compatibility issues between the terrestrial component of IMT (International Mobile Telecommunications) and the satellite component of IMT (as Dish Networks downlinks). It includes the frequency bands 1980-2010 MHz and 2170-2200 MHz. A number of administrations operate AMT system in the adjacent lower S-Band (2200-2300 MHz). The issue needs to be monitored to ensure there is no increase in interference with AMT systems operating in the adjacent band.



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# Agenda Item 9.1.2; IMT and BSS

- This agenda item is intended to ensure the compatibility of IMT and BSS (sound) in ITU Regions 1 and 3 with a specific focus on the protection of broadcast satellite reception against mobile broadband transmissions.
- Could affect L-Band AMT (1452-1492 MHz). Region 2 administrations conducting telemetry are protected (per Radio Regulation 5.343)
- AMT has no such protection in other Regions.



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# Agenda Item, proposed. New Protection

- Res. 418 (Rev. WRC-15)“invites the ITU Radiocommunication Sector to continue studying the conditions and arrangements [for AMT].”
- The French **delegation** is proposing to develop a new ITU recommendation specifying protection criteria for AMT systems operating in the frequency band 5150-5250 MHz under this resolution.
- The AMT community needs to monitor development of this recommendation to ensure that AMT, and in particular AMT Recommendation ITU-R M. 1459, are not impacted.



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# For more information

- ITU Website for WRC19 Conference Preparatory
  - <https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/cpm-19.aspx>
- ICTS Website for AMT Specifics
  - [www.telemetryspectrum.org](http://www.telemetryspectrum.org)
- ICTS Regional Coordinator for Regional/Country specifics

