

Measurement and Sensing in 5 GHz

Subcommittee Briefing
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SAS/Spectrum Database International Extension

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Study Question:

What are the strengths and weaknesses of measurement-based and sensor-based spectrum sharing methods, and how can the weaknesses be overcome? How can this spectrum sensing and spectrum monitoring data be analyzed to identify and address environmental trends pointing towards potential interference situations before harmful interference occurs? Specific bands of interest are U-NII-2B (5350-5470 MHz) and U-NII-4 (5850-5925 MHz).

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Study approach

Identify key measurement and sensor based approaches that have been deployed, or are being considered for deployment. For those that have been deployed, analyze the effectiveness that have been achieved and the issues that have been raised.

Based on this initial investigation, establish recommendations for consideration by the NTIA as to the optimal current solution and areas for further research and potential future implementation. This would be accompanied by an indication of the strengths and potential weaknesses of the identified recommendations.