



Subcommittee 3
Electromagnetic Compatibility Improvements

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Electromagnetic Compatibility Improvements Subcommittee Tasking by NTIA

- Background: As the spectral environment continues to become more congested and spectrum sharing becomes more common, the potential for adjacent channel interference scenarios remains a limiting factor in expanding access to spectrum. In particular, government radar bands increasingly are being identified for sharing with commercial or other government systems.
- Question: To increase the efficient use of the spectrum resource:
 - How can radar and other systems better co-exist in co-channel and non-co-channel relationships?
 - How should statistical risk-based analysis techniques in spectrum modeling analyses be used to characterize operational impact to federal systems?
 - What improvements in propagation modeling would increase the accuracy?
 - What role should NTIA play in ensuring the independent and timely analysis of these potential interference scenarios?
 - Other improvements suggested by CSMAC.

Status of Efforts

- Subcommittee has continued to meet monthly (generally first Thursday).
- Subcommittee had two briefings with NTIA to discuss Incumbent Informing Capability (IIC) program.
 - Series of questions asked by subcommittee to better understand IIC and how it would inform the subcommittee's work.
 - Expectation is that additional questions may be shared with NTIA.
 - Subcommittee will draft a summary of findings from this meeting and include as part of final report.
- Interview questions for federal agencies and contractors supporting aeronautical radar systems were finalized.
 - Draft questions were sent out and requested time to interview in March.
 - Subcommittee will make every effort to finalize interview times and will summarize any findings as part of the final report.
 - Subcommittee is compiling examples of EMC analyses that could be used to model aeronautical radar/commercial wireless coexistence.
 - Goal would be to provide these examples to federal agencies as well for their insight.
- Draft report is nearing completion.
 - A few missing areas expected to finish in March.
 - Report will be updated with interview findings, as necessary.
- Expectation is to begin discussion of actionable recommendations in March/April.

Questions?