

# CSMAC WG 3 – Status Report

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June 11, 2013

# Key Subject Areas

Subject	Preliminary Findings	Key next steps
Interference from commercial mobile devices into satellite receivers.	Study completed, concludes there is a low risk of interference from aggregate LTE to SATOPS based on current assumptions	Development of text for final report  Development of recommendation capturing continued protection of satellite receivers
Interference from satellite earth terminals into commercial base station receivers.	Based on current analysis there will be zones around the satellite terminals where interference is above the acceptable level, mitigation methods can significantly reduce the zone to acceptable sizes.	Phase 2 of the study based on non-public information is under development by DoD.  Complete mitigation options report for inclusion in final report
Electronic Warfare (EW)	EW operations are acceptable under the current Non-Interference Basis to authorized services.	Completed

# Interference from commercial mobile devices into satellite receivers

- Status:
  - Based on the assumption that the band will be used for mobile device operations, the preliminary finding is that sharing is feasible.
  - Study completed, concludes there is a low risk of interference from aggregate LTE to SATOPS based on current assumptions
- Key Blockers:
  - Development of text for final report
- Key Discussion Points:
  - While the current assumptions leads to a conclusion of capability, some recommendations need development to ensure the systems remain compatible in the future as the mobile traffic grows.

# Interference from satellite earth terminals into commercial base station receivers

- Status:
  - Phase 1 of the study based on public information is complete and accepted by the working group. This study is already included in the draft final report. Results indicate mitigation methods can significantly reduce the size of the zone of interference (e.g. satellite earth terminal power control, taking account of realistic antenna patterns for earth terminal transmitters and base station receivers). The Department of Defense is still reviewing these potential mitigation techniques for viability, fiscal impact and operational suitability.
  - Phase 2 of the study is based on non-public information and is currently under development. Phase 2 will more accurately represent the satellite systems and provide a more accurate representation of interference.
- Key Blockers:
  - Amount of detail that can be released from Phase 2 studies and timing for completion of Phase 2 studies
  - Complete mitigation options report for inclusion in final report
- Key Discussion Points:
  - Methods to enhance direct interaction between commercial operators and satellite earth terminal operations so that operators can decide on the most appropriate mitigation methods that should be used.

# Electronic Warfare (EW)

- Status:
  - Completed
- Key Blockers:
  - None
- Key Discussion Points:
  - None