Wireless Systems Security

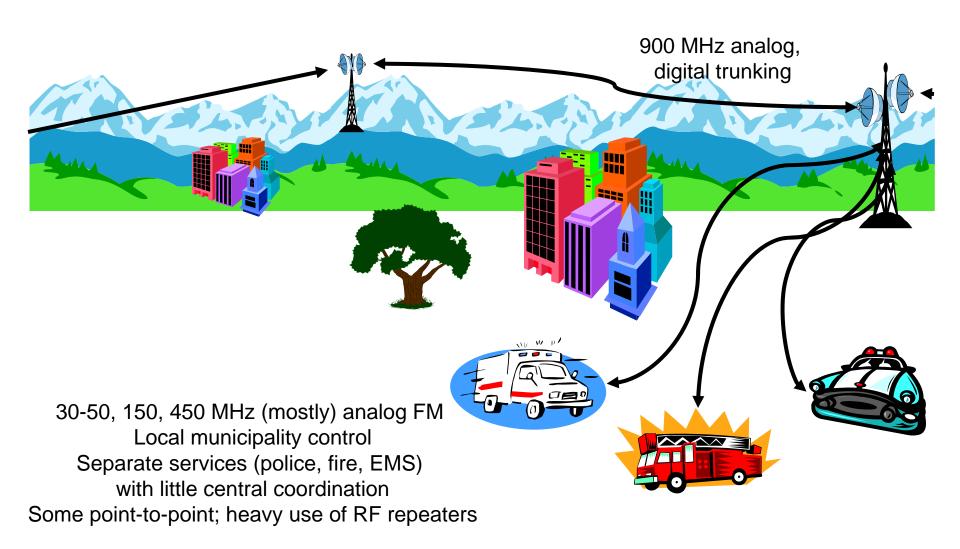
EE/NiS/TM-584-A/WS

Bruce McNair bmcnair@stevens.edu

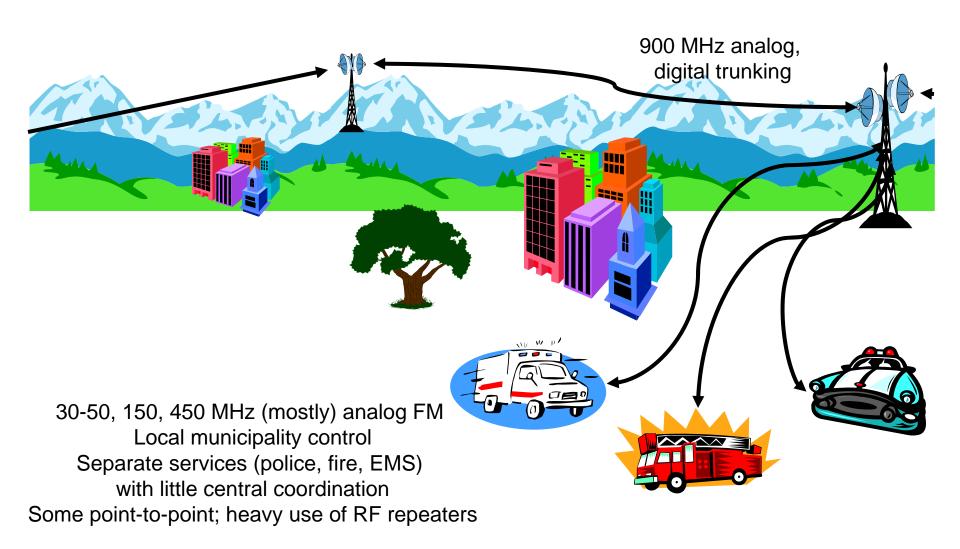
Week 6

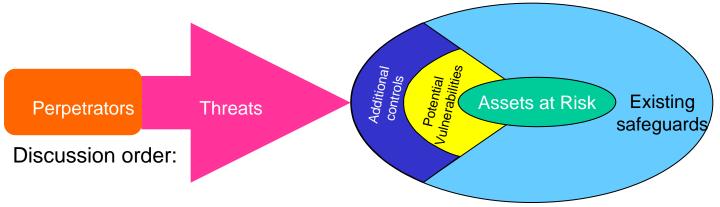
Case Study 2

Case 2 – Public Safety Wireless Networks

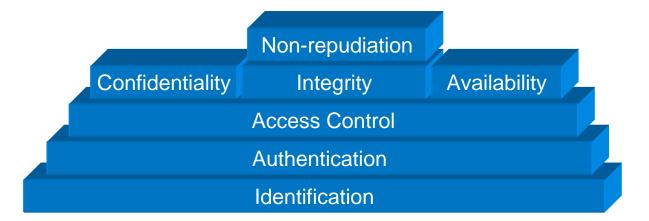


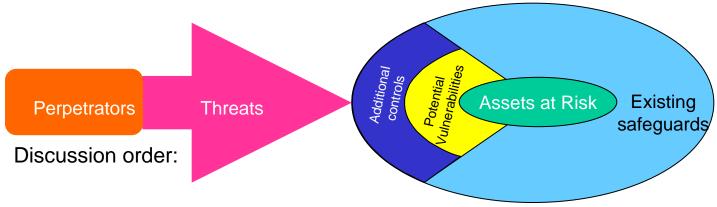
Case 2 – Public Safety Wireless Networks



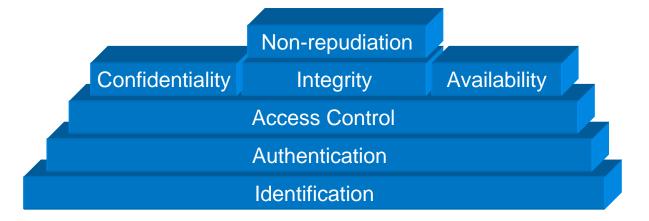


- Assets
- Perpetrators
- Threats
- Existing Safeguards
- Potential Vulnerabilities
- Additional Security Controls

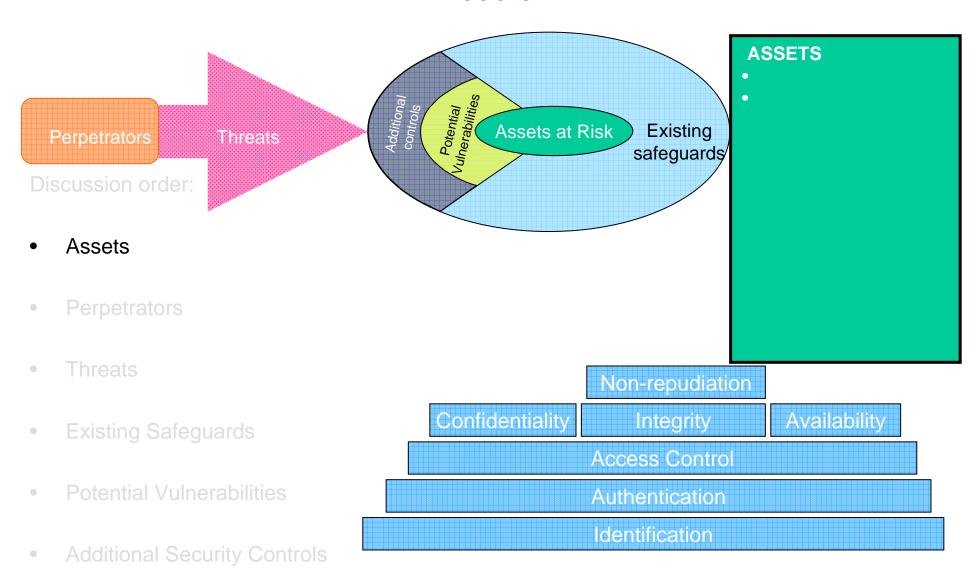




- Assets
- Perpetrators
- Threats
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- Potential Vulnerabilities
- Additional Security Controls

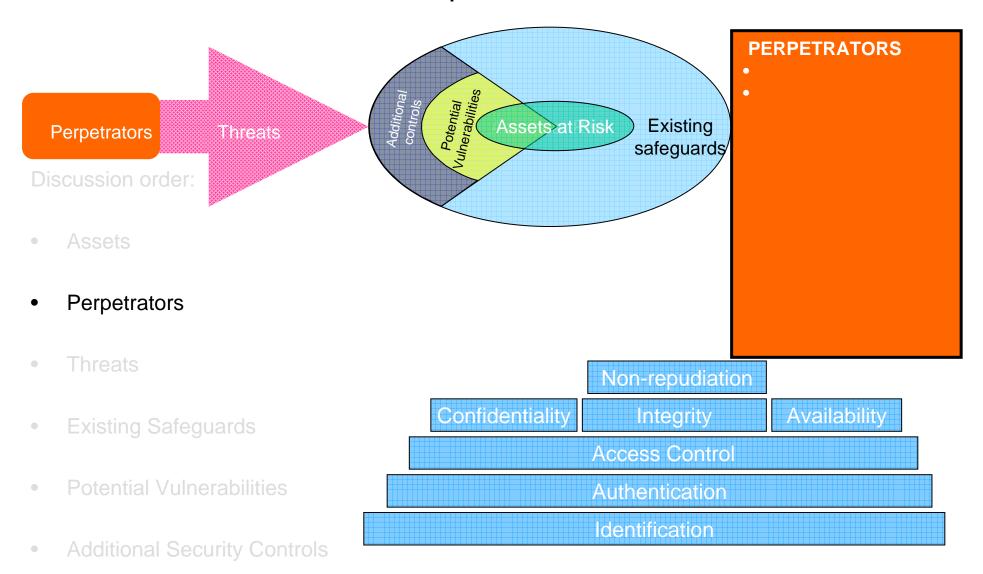


Assets



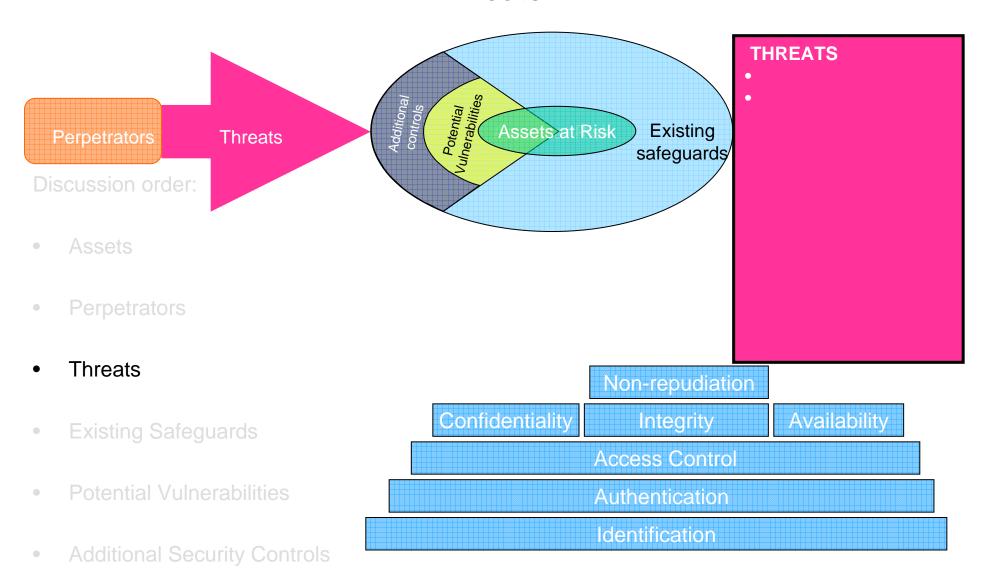


Perpetrators



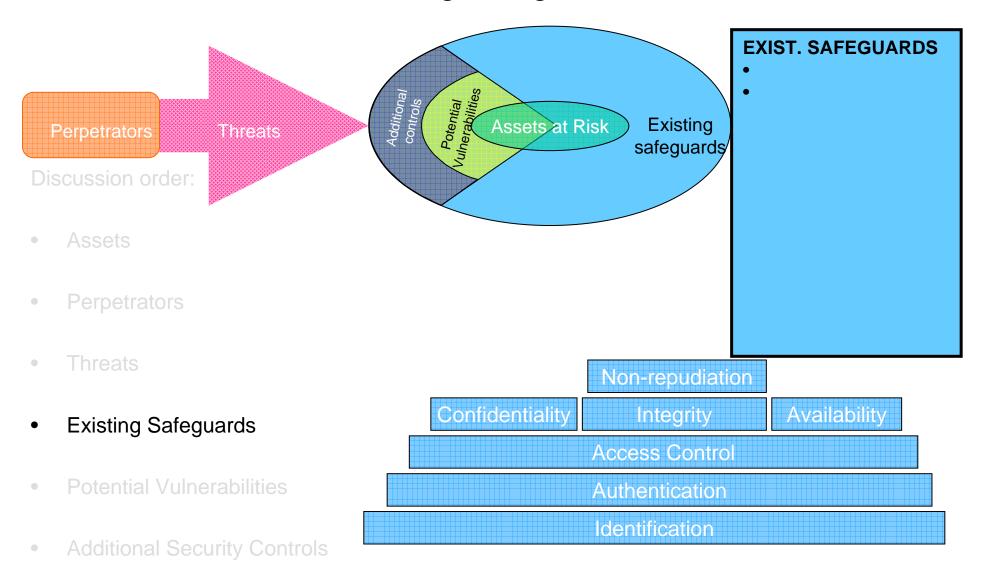


Threats



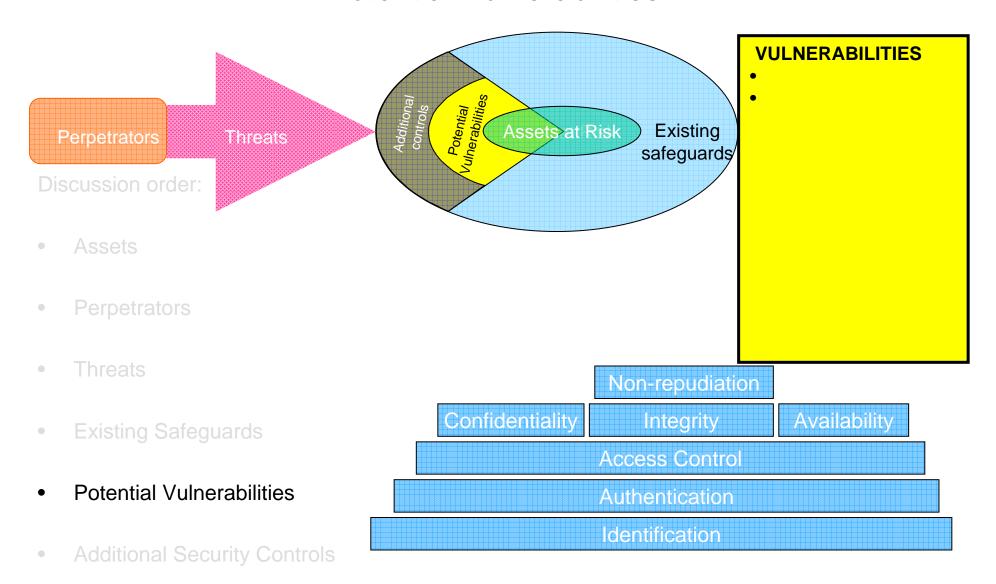


Existing Safeguards



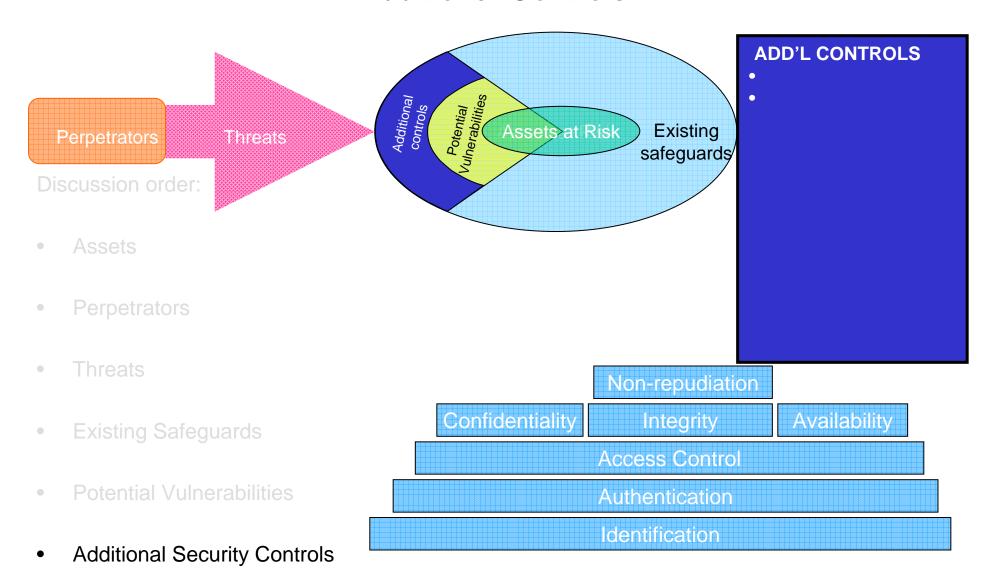


Potential Vulnerabilities

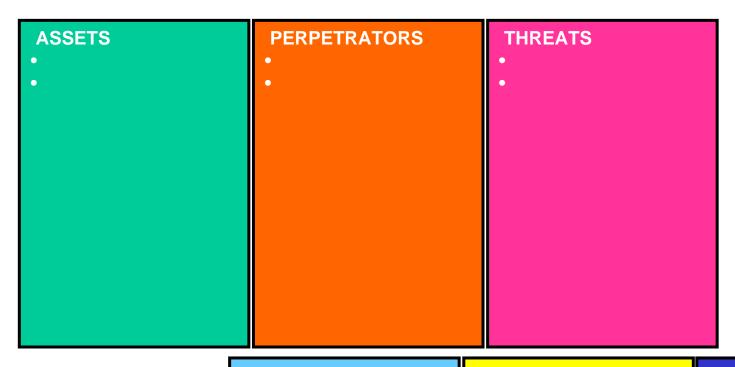


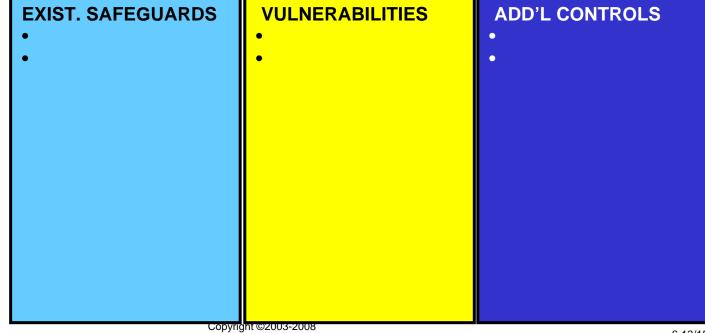


Additional Controls

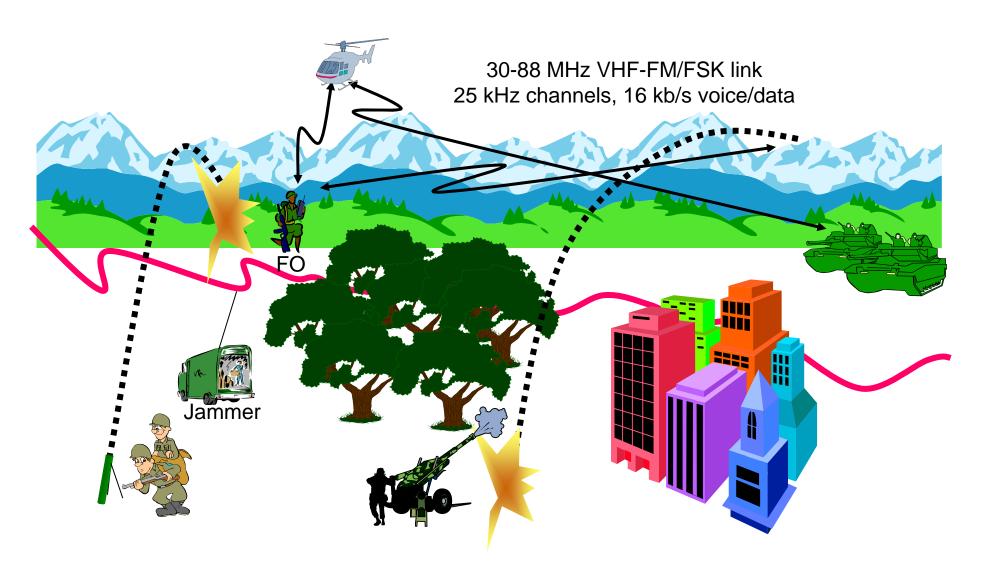








Case 3 – Military Tactical Radio Systems



Security Technical Paper Assignment

- Follow the instructions from Week 3, Paper 1 assignment, to access the IEEE Conference Proceedings database.
- Pick an article from the Proceedings of IEEE Symposium on Security and Privacy (from the last 5 years) that interests you
- Write a 3-5 page report on the paper. Report should include:
 - Citation of the paper you are using
 - Summary of fundamental ideas presented in the paper
 - Issues paper addresses and how they have been addressed in the past
 - Discussion of 1 or 2 core ideas of paper
 - Identification of any wireless-related issues brought up in the paper (there may not be any)
 - Potential applications of technology presented
 - Future opportunities created by the technology