

Security and the National Telecommunications Infrastructure

Panel Moderator: Dick Brackney, National Security Agency, Ft Meade MD

Panelists

Teresa Lunt, Defense Advance Research Project, Arlington VA
John Kimmins, Bellcore, Norristown, NJ
Bob McKosky, GTE Labs, Waltham MA

Panel Theme

The US telecommunications infrastructure is a very complex system of interconnected heterogeneous networks that include both wireline and wireless systems. Because of the vital services provided by this infrastructure, there is a need to protect it against a wide range of mishaps. Such mishaps include terrorist attacks, malicious code, natural disasters, unauthorized access to information and other incidents which can seriously disrupt the networks or reduce the confidence level of the information traversing or residing in the infrastructure. This Panel will explore several security related issues that are directly related to the telecommunications infrastructure and the challenges and opportunities they offer.

Panelists and Their Issues

Dick Brackney of the National Security Agency will chair the Panel. He will open the Panel by providing a brief overview of the national telecommunications infrastructure and the information security risks associated with it. In his discussion, he will emphasize the defensive information warfare perspective and DoD92s need to secure the telecommunications network services and the supporting infrastructure. He will also introduce

each of the Panelist and provide a short wrap up at the end of the Panel session.

John Kimmins of Bellcore will cover current telecommunications network security problems and how information warfare techniques can be used to cause various types of harm to the telecommunications infrastructure. He will also cover strategies for addressing existing telecommunications security problems and security vulnerabilities that are emerging with new telecommunications technologies and services such as broadband.

Teresa Lunt of DARPA will discuss the role of technologies such as audit and intrusion detection and how they can be used to address some of the security problems associated with the telecommunications infrastructure. In her presentation, she will talk about intrusion detection technologies that: can be applied to current and emerging networks, do not require massive amounts of data, can provide useable results from the analysis of incomplete data, and will provide an appropriate automated response

Bob McKosky of GTE Labs will discuss security problems and solutions associated with the wireless portion of the telecommunications infrastructure. His talk will focus on the current cellular environment and the safeguards which can be used to reduce some of the risks to an acceptable level.