



Secure Portable Media Usage and Storage

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Targeted Audience:

- Attendees of annual district attorneys conference with general interest in information security;
- Attorneys, legal support and IT staff who want to learn about secure media usage;
- Attorneys who want to expand their knowledge of electronic discovery and computer forensics.

CLE Goals:

To give a general introduction to electronic media, with emphasis on securing data on portable devices without modifying, altering or tampering the data stored. The presentation also discusses characteristics of electronic data, how electronic information is created, stored and retrieved, attacks on portable devices, and includes an analysis of storage media, devices and locations.

Duration: 60 minutes

Brief Description:

Rapid growth of technology applications and increasing connectivity and accessibility to the Internet is facilitating a significant increase in data theft and digital fraud. As a result the use of electronic media in every operation has led to an explosion of digital information (documents, emails, images, and videos, etc). Increasing prevalence of digital information on portable media and portable devices requires sophisticated tools to assist in securing data from accidental or intentional damage.

Outline of Tutorial Contents:

- ❖ Attacks on Portable Devices and Portable Media
 - Drive by Phishing and Pharming attacks
 - Passive and active wireless attacks
 - Man-in the middle attacks
- ❖ Secure Media Storage
 - Current portable media storage technologies
 - Introduction to Truecrypt, dm_crypt, Bitlocker, and Knox
- ❖ Data Storage and Media Sanitization
 - Media sanitization techniques and technologies
 - Digital information life cycle management

Instructors:

Srinivas Mukkamala

Srinivas Mukkamala, one of CAaNES' managing partners is a Senior Research Scientist with ICASA (the Institute for Complex Additive Systems Analysis, a statutory research division of New Mexico Tech performing work on information technology, information assurance, and analysis and protection of critical infrastructures as complex interdependent systems) and an adjunct faculty with the Computer Science department of New Mexico Tech.

Mukkamala has over 100 publications in the areas of information security, digital forensics, data mining, simulation and modeling, and bioinformatics. His current research interests are intrusion and threat analysis, risk management, vulnerability assessments, digital forensics, malware mitigation and prevention, machine learning, data mining, and information security.

Dr. Mukkamala received his M.S. and Ph.D. in Computer Science from New Mexico Tech and has been closely involved in the IA implementation projects, R&D programs, education and training since 2001. His current responsibility includes government and industry liaison, project management, and leading the New Mexico Cyber Strike Team to provide information and network security to ICASA customers.

Mark Fidel

Mark Fidel, one of CAaNES' managing partners is an attorney licensed to practice in New Mexico. His full-time job is as Executive Director of the Western States School of Banking.

Mark Fidel is a former litigator who founded Applied Records Management in 2004. ARM is a records management and litigation support consulting firm. He also has a minority interest in MVP Sport Systems, LLC, an Albuquerque, NM-based sports systems software developer.

Mark began his career selling commercial insurance, and then held a series of financial positions at the New Mexico Institute of Mining and Technology, including managing the payroll for over 1,000 full- and part-time employees and acting as the federal contracts compliance officer supervising the school's federal grant and contracts requirements. He worked for the Intel Corporation as a capital analyst in a small manufacturing division, where he worked closely with the engineering staff to develop solutions to manufacturing bottlenecks, and as a senior financial analyst specializing in fixed asset and expense accounting with responsibilities to Intel's worldwide accounting operations.

Mark was admitted to the New Mexico Bar in 2002 and became an associate at one of New Mexico's largest law firms, Modrall Sperlring, where he specialized in commercial litigation.

Mark holds a Bachelor of Arts and Economics degree with a major in Finance from New Mexico State University. He earned an Executive MBA from the University of New Mexico and his law degree from the University of Denver.