

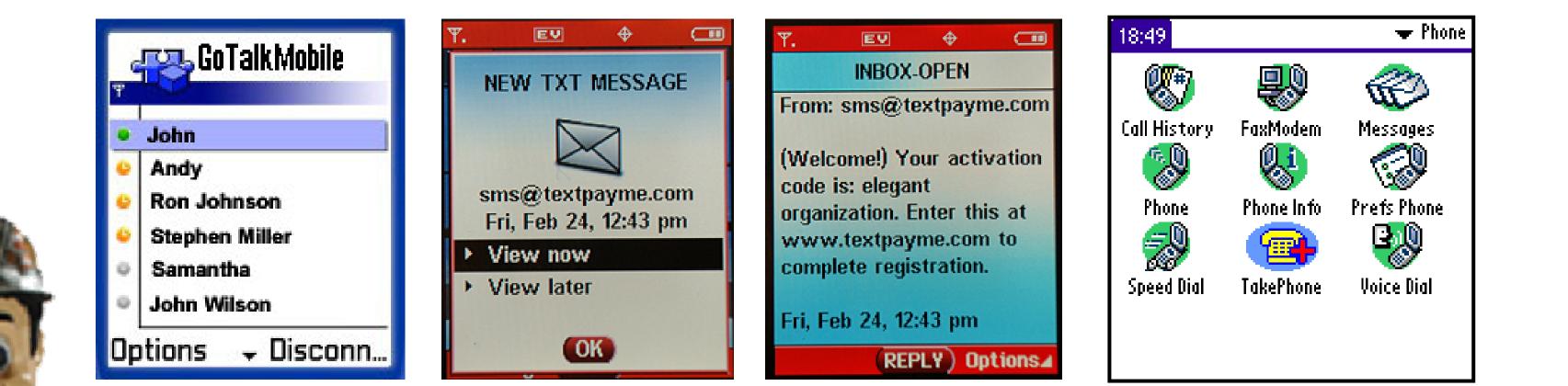
- FREEAK - Forensic Rapid Evidence Extraction Analysis Kit - Richard Mislan

the center for education and research in information assurance and security



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Almost daily cell phones are seized at crime scenes as potential evidence. Every day, thousands of cell phones cross our borders as international visitors come and go through our countries ports of entry. And every day, corporate secrets are being stolen with cell phone cameras. Cell phones have become an integral component of crime scene investigations.

In the U.S.:

200 Million Cell Phone Users, 850 Different Cell Phones Available, **30 Different Cell Phone Manufacturers, At Least 6 Cell Phone Service Providers**

FREEAK Objectives:

Objective #1: Establish a hierarchical knowledgebase of all information regarding the various personal communication devices, their technical specifications and images, and the forensicallysound techniques for acquiring and analyzing these devices.

•First technological intervention providing first responders with an easily-usable tool for infield Fast Forensics Triage of Cell Phones.

•Truly functional forensics tool that will combine the utility of previous forensic instrumentation, state-of-the-art technical information and imagery, and an intelligent guidance system providing for the immediate acquisition and analysis of evidentiary information from personal communication

Objective #2: Develop the guidance system application for the information from Objective #1 to facilitate the first responders' immediate acquisition and analysis of personal communication devices.

Objective #3: Develop a link analysis backbone system to provide for an intelligent decision making system based on the recovered information found on these personal communication devices.



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devices.

•Unique system for porting most common cell phone information (Contacts, Call History, Text Messages) to a backend database for intelligent data-mining of obvious and nonobvious relationships

•Significant benefit to law enforcement and military justice officials, as well as those



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