



Mobile Security

George Bailey

Information Security

Ivy Tech Community College of Indiana



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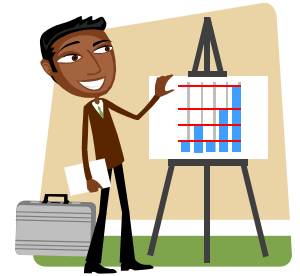
Mobile Devices



- Laptops
- Personal Digital Assistants
 - Palm, Pocket PC, PSP, Gumsticks
- Cell Phones & Smart Phones
- Small Scale Digital Devices
 - USB Flash Drives
 - Flash Media (Cameras, Phones, Gumsticks)
 - Micro Hard Drives
 - MP3 & Video Players



Statistics

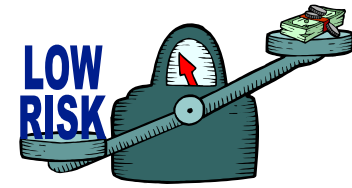


- **More than 600,000 laptop thefts occur annually, totaling an estimated \$720 million in hardware losses and \$5.4 billion in theft of proprietary information**
- **97% of stolen computers are never recovered**
- **Laptop theft has been attributed to 59% of computer attacks in government agencies, corporations, and universities during 2003**
- **Gartner estimates approximately 70% of all laptop thefts are internal**
- **The average word doc is 3 pages in length (25k-30k), 20GB Mobile Device can contain +750,000 documents**
- **99% of users of mobile devices that transfer or store data use no encryption**
- **One inch hard disks are expected to reach 100GB within 12 months**

Movie



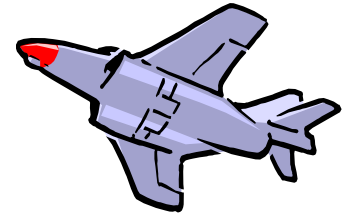
Risks to Mobile Devices



- Viruses, Trojans, and Worms
- Theft of the physical device itself
- Data theft
- Mobile code exploits
- Authentication exploits
- Wireless exploits
- Denial of service attacks
- TCP Session Hijacking



Counter Measures



- Install a firewall
- Disable all HotSync and ActiveSync features when not in use
- Ensure that password lock-out software is enabled to restrict the number of password guesses
- Do not store PDA passwords on desktop PCs unencrypted
- Install an anti-virus product
- Use two-factor authentication if possible
- Use a VPN when transmitting sensitive data
- Use of data encryption
- Do not use un-trusted Wi-Fi access points
- **Don't store sensitive data if you don't need it!**



Mobile Antivirus



- McAfee
 - <http://mobile.mcafee.com/>
- F-Secure
 - <http://www.f-secure.com/estore/avmobile.html>
- Trend Micro
 - <http://www.trendmicro.com/en/products/mobile/tmms/evaluate/overview.htm>
- Symantec
 - http://www.symantec.com/small_business/products/overview.jsp?pcid=is&pvid=sms40symb



Firewalls



- ZoneAlarm (Win)
 - <http://www.zonelabs.com/>
- Airscanner (PPC)
 - <http://airscanner.com/downloads/firewall/firewall.html>
- Bluefire Mobile Security (PPC, Palm, M5)
 - <http://www.bluefiresecurity.com/products.html>



Encryption Tools



- Keyring for PalmOS
 - <http://gnukeyring.sourceforge.net/>
- TrueCrypt (Win, Mac, Linux, removable media)
 - <http://www.truecrypt.org/>
- Private Disk (Win, removable media)
 - <http://www.dekart.com/>
- Pointsec (ALL)
 - <http://www.pointsec.com/products/smartphonepda/>



Password Vaults



- Strip (Palm)
 - <http://www.identicentric.com/products/strip/>
- Keepass (Win, removable media)
 - <http://keepass.sourceforge.net/>
- SplashID (Win, Palm, Mac, Symbian, RIM)
 - <http://www.splashdata.com/splashid/>

Questions

