

The PKF logo is displayed in a large, white, stylized font. The letters are bold and blocky, with the 'P' and 'K' being particularly prominent. The logo is centered within a white rectangular border.

PKF

Accountants &
business advisers

PKF David Strachan & Tayler

SECURING MOBILE DEVICES

SCOPE

- Windows Centric (knowledge, dominance, Linux secure)
- IT Security Policies
- Laptops
- PDAs
- SmartPhones
- Memory Sticks
- Out of scope – Wireless, Linux

IT SECURITY POLICIES

- Accidentally excluded
- Difficulty of applying
- Power users override
- Disposal
- Private vs Corporate
- Remote Use

What's so special about laptops?

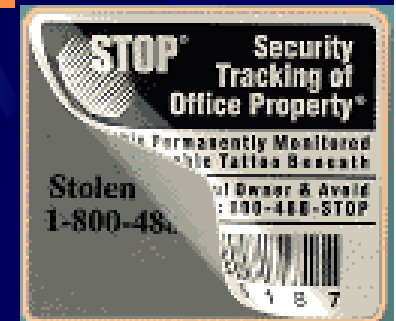
- High value
- Portable
- Limited lifespan –
 - Disposal policy
 - O/S version
- Corporate policies
- Power Users – data value vs equip

Whats so special about PDA's / SmartPhones

- Highly mobile
- High risk of theft
- New technology
- Totally ignored in IT policies
- Disposal policy
- Targeted by professional criminals

Secure Laptops *Basics*

- Choose a secure operating system and lock it down
- Enable a strong BIOS password
- Asset Tag or Engrave the laptop
- Register the laptop with the manufacturer



Secure Laptops

Physical 1

- Get a cable lock and use it
- Use a docking station
- Lock up your PCMCIA cards

Secure Laptops

Physical 2

- Consider other devices
 - Biometric / Smart Cards
 - Alarms
 - Storage Cabinets
 - USB Security



Secure Laptops

Logical 1

- Use the NTFS file system
- Rename the Administrator Account
- Consider creating a dummy Administrator account
- Prevent the last logged-in user name from being displayed
- Group policies - screen saver and login

Secure Laptops

Logical 2

- Use a personal firewall on your laptop
- Use tracking software
- Disable the Guest Account **vs** Leave a dummy account , with internet access

Secure Laptops

Logical 3

- Disable the Infrared Port
- Backup your data before you leave
- Consider using offline storage for transporting sensitive documents
- OS Updates ??
- Forensics

Secure Laptops

Encryption

- Encryption depends on OS
 - XP Pro
 - XP Home
 - W2K
- Enable EFS (Encrypting File System)
 - Cmd - **cipher** /?
 - Backups / recovery
- PGP (depends on OS)

Secure Laptops *Behaviour 1*

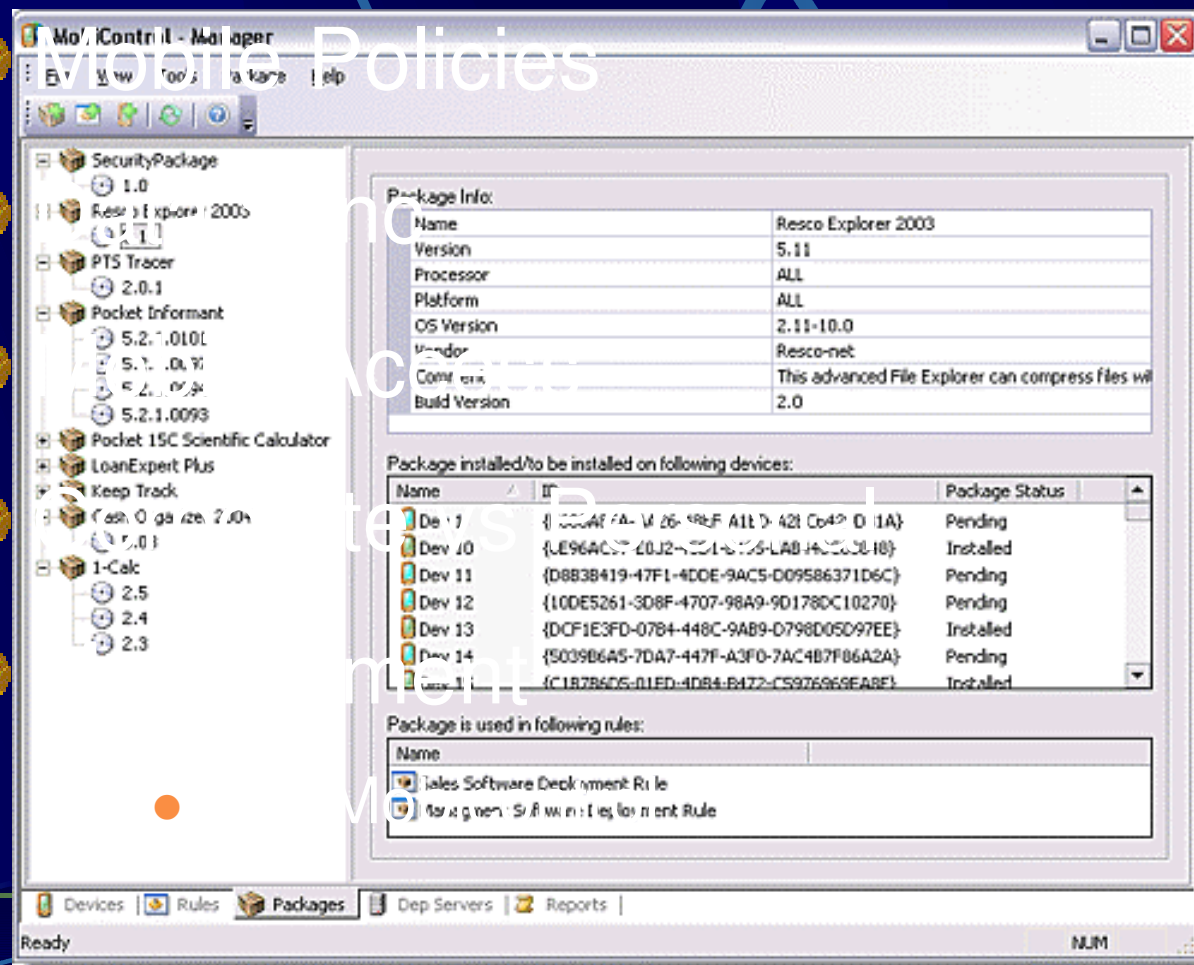
- No place is safe
- Use a non descript carrying case
- Beware of payphones...
- When traveling by air....
- When traveling by car...

Secure Laptops

Behaviour 2

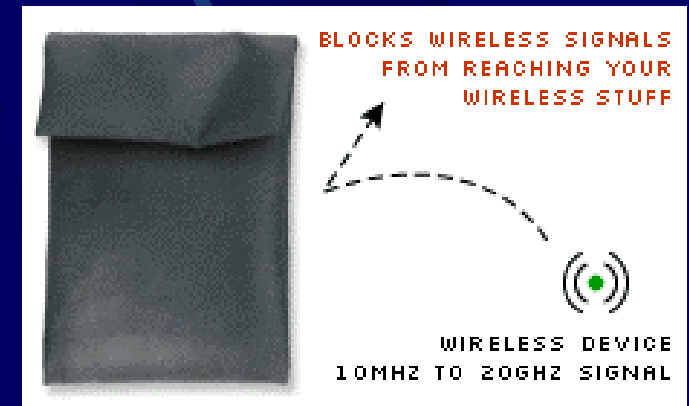
- While staying in a hotel...
- When attending conventions and conferences...
- Make security a habit

Secure PDA's Basics



Secure PDA's *Physical*

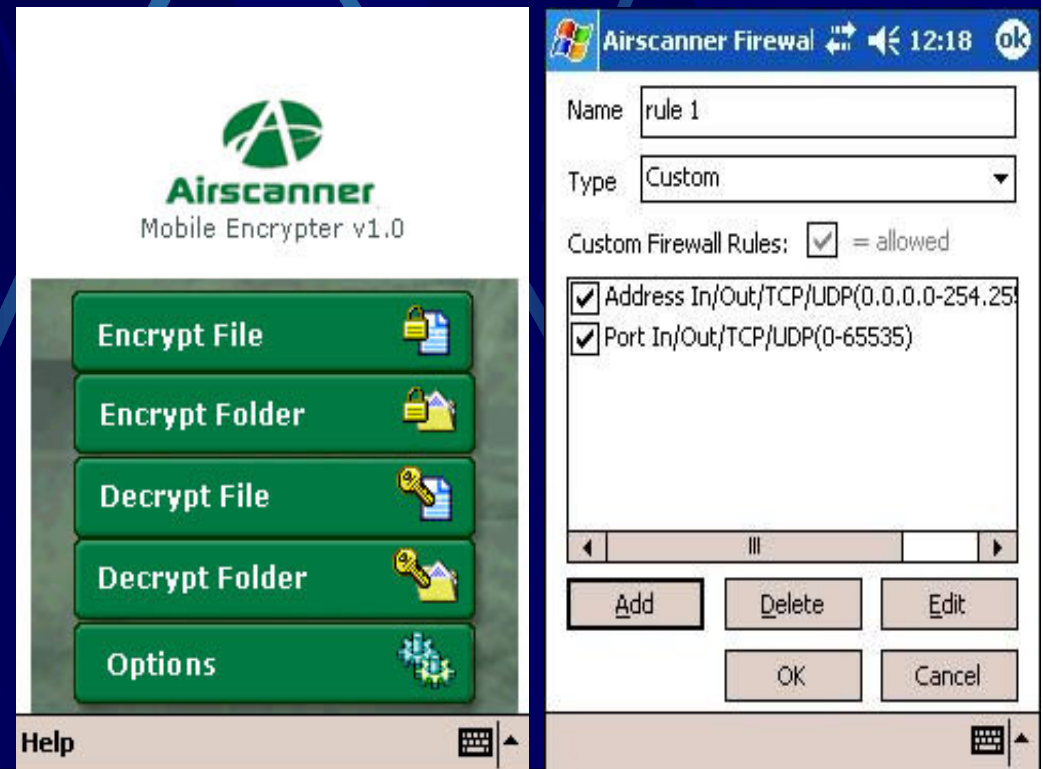
- Electronic Shielding Device
 - Mobile Cloak
- Finger prints
- Smart cards



Secure PDA's

Logical 1

- Remote destruction and disabling
 - Stolen
 - Lost
- Storage cards
- Firewall / VPN
- OS Updates
- PIN
- Bit Wiping
- Forensics



Secure PDA's

Logical 2

- Airscanner Mobile Antivirus Pro (Pocket PC)
- PocketLock
- Airscanner Mobile Firewall (Pocket PC)
- Airscanner Mobile Encrypter (Pocket PC)
- Airscanner Mobile antivirus (Smartphone)
- Sprite Backup Standard
- Sprite Backup Premium
- eWallet for Windows Mobile Pocket PC
- eWallet for Windows Mobile Smartphone
- SecretAgent Mobile for Pocket PC 2003
- Spb Kiosk Explorer for Pocket PC
- Spb Kiosk Engine for Pocket PC
- SOTI Pocket Controller-Professional
- SOTI Pocket Controller-Enterprise (4 Device License)
- SafeGuard

Secure Memory Sticks

- Policy Driven
- Usefulness
- Forensics
- Use Secure Devices – ie.
 - CryptoStick
 - Bio Drive
 - Cruzer Profile Biometric



Disposal vs Destruction

- Cellphones
 - http://www.wirelessrecycling.com/home/data_eraser/default.asp
 - [See attached pdf](#)
- Laptops – removal of data prior to disposal
 - <http://www.webroot.com/>
 - [Eraser 5.3 \(free\) www.tolvanen.com/eraser](http://www.tolvanen.com/eraser)
 - [Boot and Nuke \(free\) http://dban.sourceforge.net/](http://dban.sourceforge.net/)
- Smart Phones
- Forensics

FUTURE

- SA is behind states in laptop tracking
- NGSCB
- Increased use of PDA's
- Smartphones as wallets / network access devices

Credits 1

- www.labmice.net
- www.secureit-usa.com
- www.geekzone.com
- www.bluefiresecurity.com
- www.soti.net
- www.mobilecloak.com
- www.pointsec.com
- www.cert.org
- www.pcworld.com
- www.kanguru.com

Credits 2

- <http://www.cisco.com/VPN> gateways for PDA VPN
 - <http://www.freewarepalm.com/Data> encryption
 - <http://www.certicom.com/VPN> clients for PDAs
- <http://www.mobilecloak.com/Electromagnetic> shielding bag
- www.dentonsoftware.com/Secure databases and authentication solutions
 - www.f-secure.com/Anti-virus, encryption, authentication solutions
- www.asolutions.com/Hotsync security and IrDa port security, database security, password enforcement, bit wiping
 - www.pointsec.com/Encryption and authentication solutions
 - www.paraben-forensics.com/PDA forensics tools
- www.trustdigital.com/Password protection, hotsync protection, data encryption, bit wiping, VPN client