

**Go Mobile, Stay Secure™**

**F-SECURE®**



**Matias Impivaara**

Marketing Manager, Handheld Security  
F-Secure Corporation

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# The Need

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## People

- Like to stay in touch
- Value freedom and openness
- Demand customized solutions and privacy
- Expect latest technology
- Want to enjoy themselves
- Don't want to become technology and security experts





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# Technology Develops...

**Yesterday**

**2 G**



**SMS, WAP,  
HSCSD, i-Mode...**

**Today**

**2.5 G**




**MMS, GPRS,  
Bluetooth...**

**Tomorrow**

**3 G**



**WCDMA, SIP,  
IPv6, MExE...**

The logo for F-SECURE, featuring the text "F-SECURE" in a bold, black, sans-serif font with a registered trademark symbol. Below the text is a stylized graphic consisting of a large, dark blue triangle pointing downwards, with a smaller, lighter blue triangle nested inside it, creating a sense of depth and security. The background of the slide is a blurred image of a globe with grid lines, suggesting a global or networked environment.

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## ...but the Security Needs Are the Same

- Channel Security
  - Confidentiality (limited to the authorised persons)
  - Integrity (not altered, entire and undiminished)
  - Authentication (the origin or author unquestionable)
- Content Security
  - Integrity (functional and uncontaminated)
  - Availability (suitable or ready for use, accessible)
  - Privacy (accessible only to the persons concerned)

Protection is needed for both the  
infrastructure and the terminals!



## Data Security Is Critical in Many Mobile Solutions

"The use of PDA devices offers clear benefits for us, but it also exposes us to evident new security risks. Confidentiality of information is critical for our operations and we simply cannot afford compromising security."

- Anders Nordlander, IT-Security Manager, Swedish National Social Insurance Board

The F-Secure logo is located in the top left corner. It features the text "F-SECURE" in a bold, black, sans-serif font, with a registered trademark symbol (®) to its upper right. Below the text is a stylized shield emblem. The shield is composed of several overlapping geometric shapes: a large black triangle pointing downwards, a smaller purple triangle pointing upwards, and a light blue triangle pointing to the right. The background of the slide is a blurred image of a globe with latitude and longitude lines.

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## Standard Device Security Is Not Enough

- Security needs vary, some people find security confusing or annoying
- Manufacturers balance the device features to meet the needs of both business users and consumers
- Security software is usually not a core competence of the manufacturers
- There will always be a need for additional security in business use



# The Challenge



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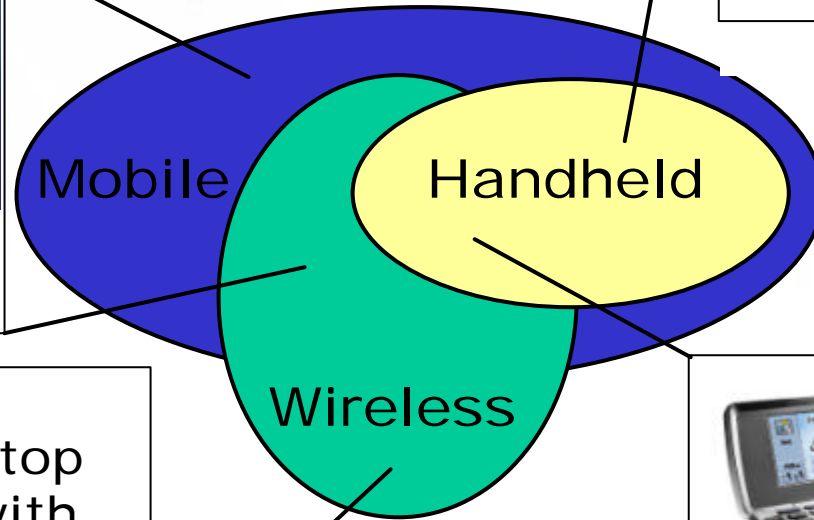
# Complex Corporate Security




Standard PDA



Laptop with wireless access



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## Wireless Connections as a Security Challenge

- A wireless connection alone does not change the nature of the device much
- Encryption is always needed to ensure secure wireless communications
- All today's wireless communications standards include some protection
- The protection level is sometimes questionable



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## Mobility as a Security Challenge

- Corporate devices move constantly across the corporate boundaries
- When devices move, also confidential information moves
- Many office workers already carry on their own several mobile devices
- Traditional security applications, such as the corporate firewall, cannot protect the mobile devices

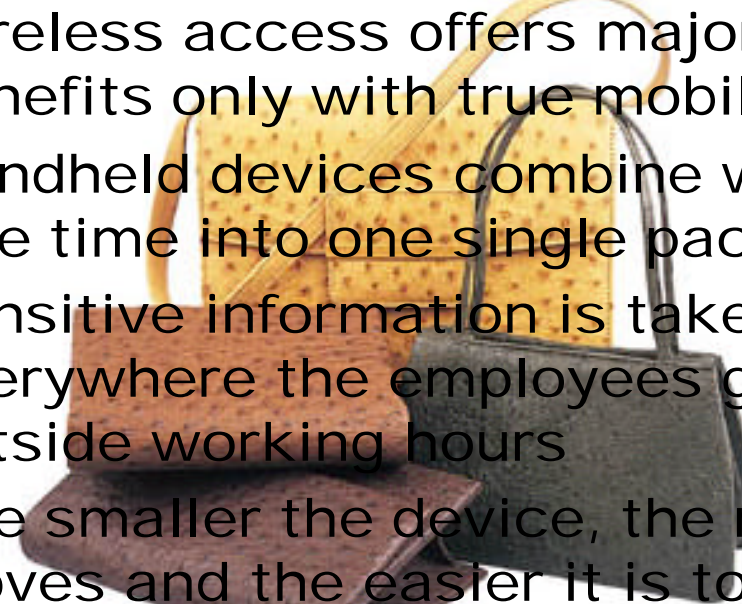




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## Small Size of Device as a Security Challenge

- Wireless access offers major business benefits only with true mobility
  - Handheld devices combine work and free time into one single package
  - Sensitive information is taken everywhere the employees go, also outside working hours
  - The smaller the device, the more it moves and the easier it is to lose
- 
- A photograph of a yellow handbag with a black handle and a black handbag with a silver handle. A brown wallet is placed on top of the black handbag. The background is a soft, out-of-focus light blue and white.





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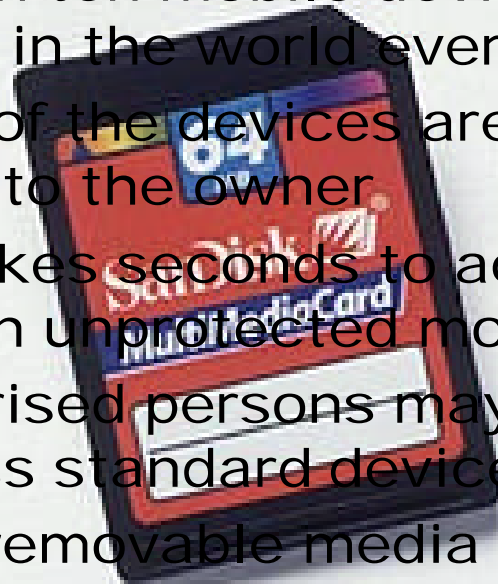


## The Threat



## Unwanted Disclosure of Stored Information

- More than ten mobile devices are lost or stolen in the world every minute
- Majority of the devices are never returned to the owner
- It only takes seconds to access the data in an unprotected mobile device
- Unauthorised persons may have tools to by-pass standard device locks
- Data on removable media can be accessed with any compatible device

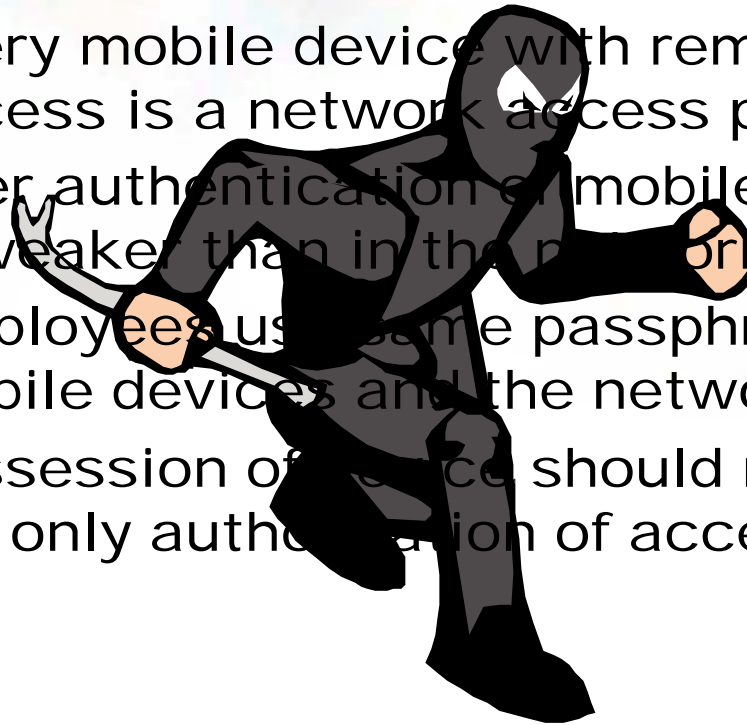


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## Unauthorized Access to Corporate Networks

- Every mobile device with remote access is a network access point
- User authentication of mobile devices is weaker than in the network
- Employees use same passphrases for mobile devices and the network
- Possession of device should never be the only authentication of access

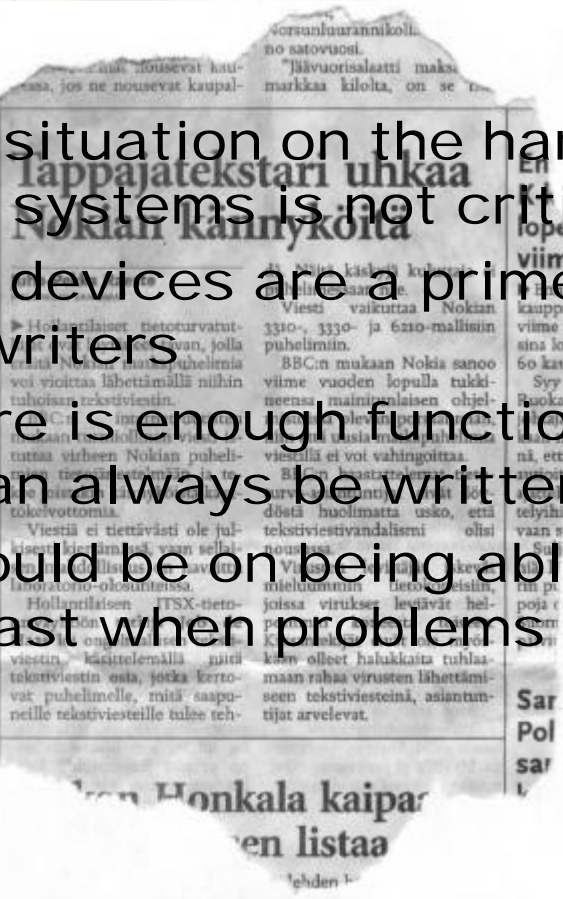




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## Viruses and Other Harmful Content

- The virus situation on the handheld operating systems is not critical
- Handheld devices are a prime target for virus writers
- When there is enough functionality, viruses can always be written
- Focus should be on being able to respond fast when problems occur







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# The Solution

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## Product Requirements

- On-device
  - to protect the handheld devices in all situations
- Automated
  - easy to install, update and manage
- Invisible
  - optimized for the wireless platforms to guarantee the fastest possible functionality
  - no need for user intervention in normal use
- Trustworthy
  - strong encryption algorithms and continuous and fast anti-virus updates
- On the market
  - tested commercial products with full support



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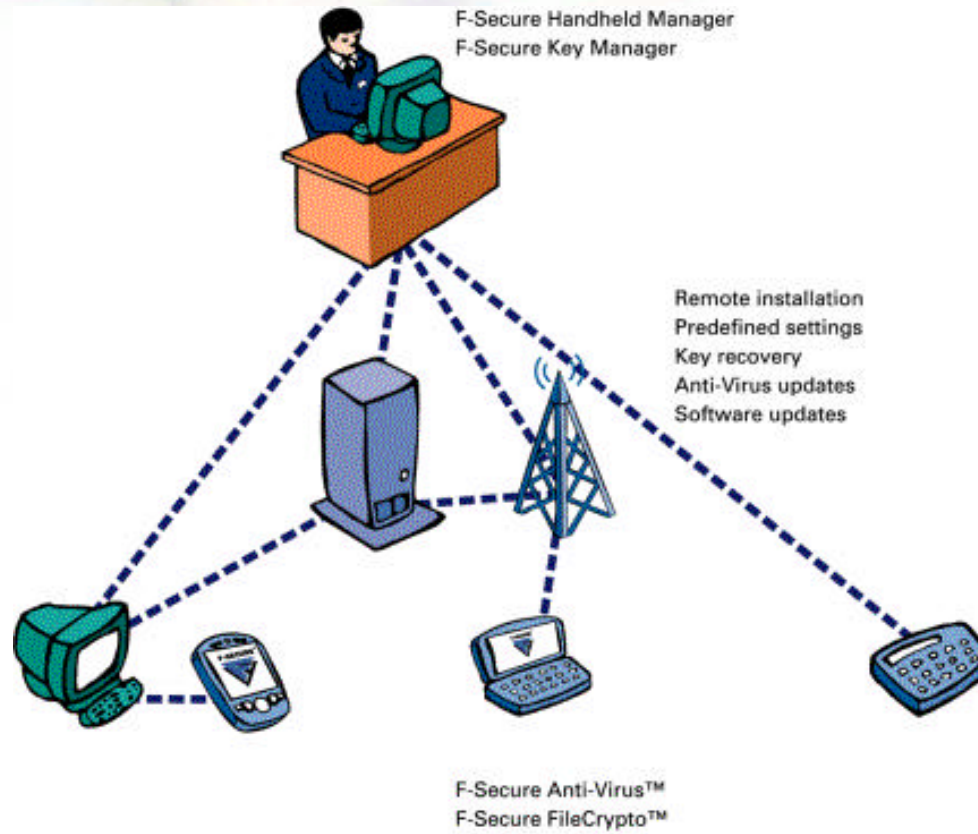
## The Complete Package

- Reliable and tested products
- Integrated systems and interoperability
- Covering all platforms and all devices
- Best available functionality
- Easy management
- Full update service and technical support

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# Management Is Key







## Potential Business Models

- Licence agreements with hardware vendors
- Subcontracting and OEM deals
- Direct enterprise sales
- Service provider cooperation
- Sales through partners
- Internet sales

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## Summary

- People value freedom and privacy
- Mobility is a security challenge
- Even the best built-in security is too weak for demanding business use
- Content encryption is needed today
- Security applications should be installed on all mobile devices
- Good products are automatic, invisible and easy to manage
- Market demands complete solutions