



Mobile & Security?

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Telenet for Business

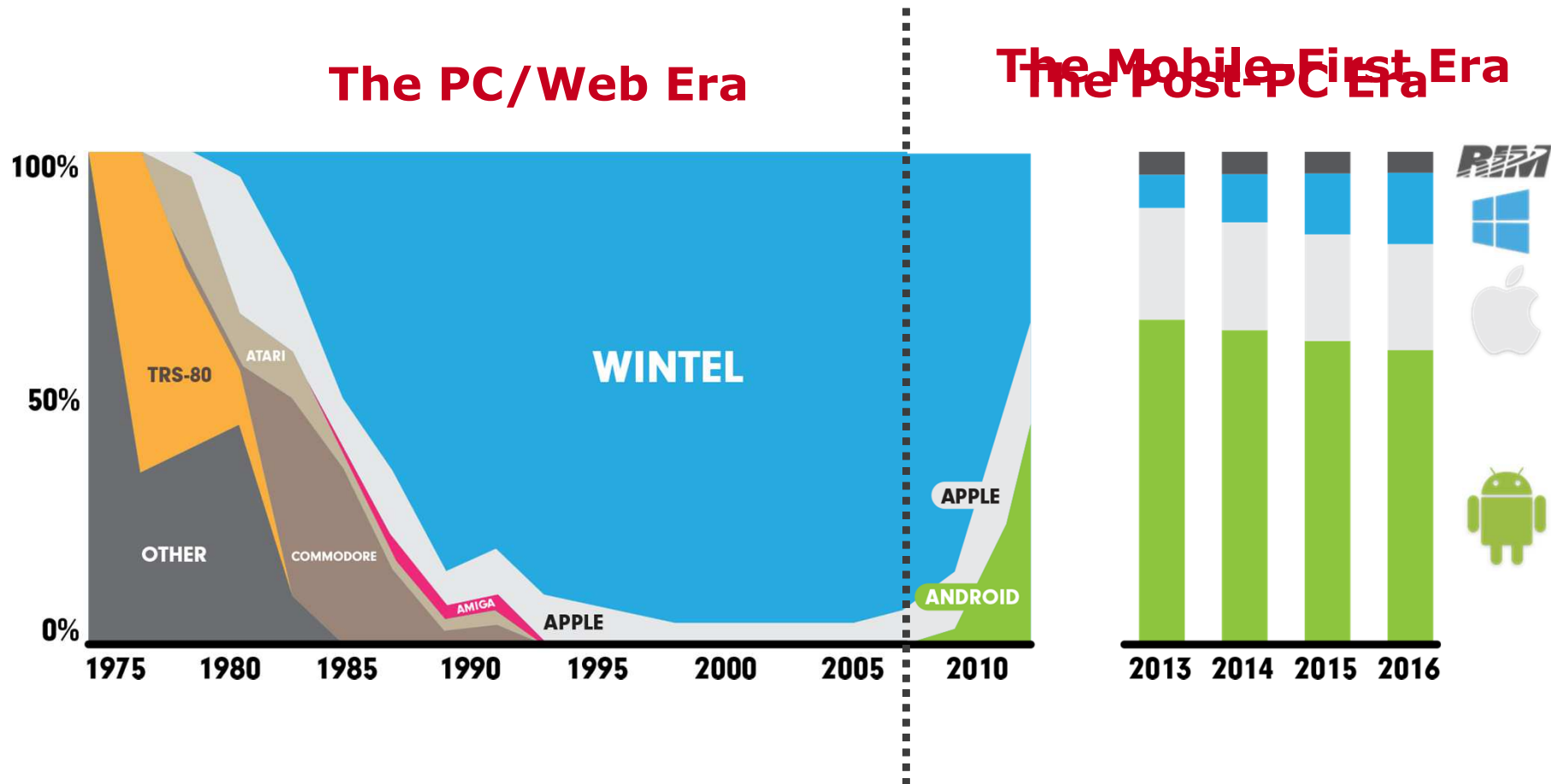
Agenda

- Mobile Trends
- Where to start?
- Risks and Threats
- Risk mitigation
- Conclusion

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The mobile era



"Apps Storm" VS "Security"



Looks suspicious?



Ready to accept unmanaged devices
on your network?

BYOD Trend

- Devices become cheaper and more powerful
- The Generation “Y”
- Company owned devices are sometimes old-fashioned
- Will you allow personal devices on your network ?
- What are the risks ?



Agenda

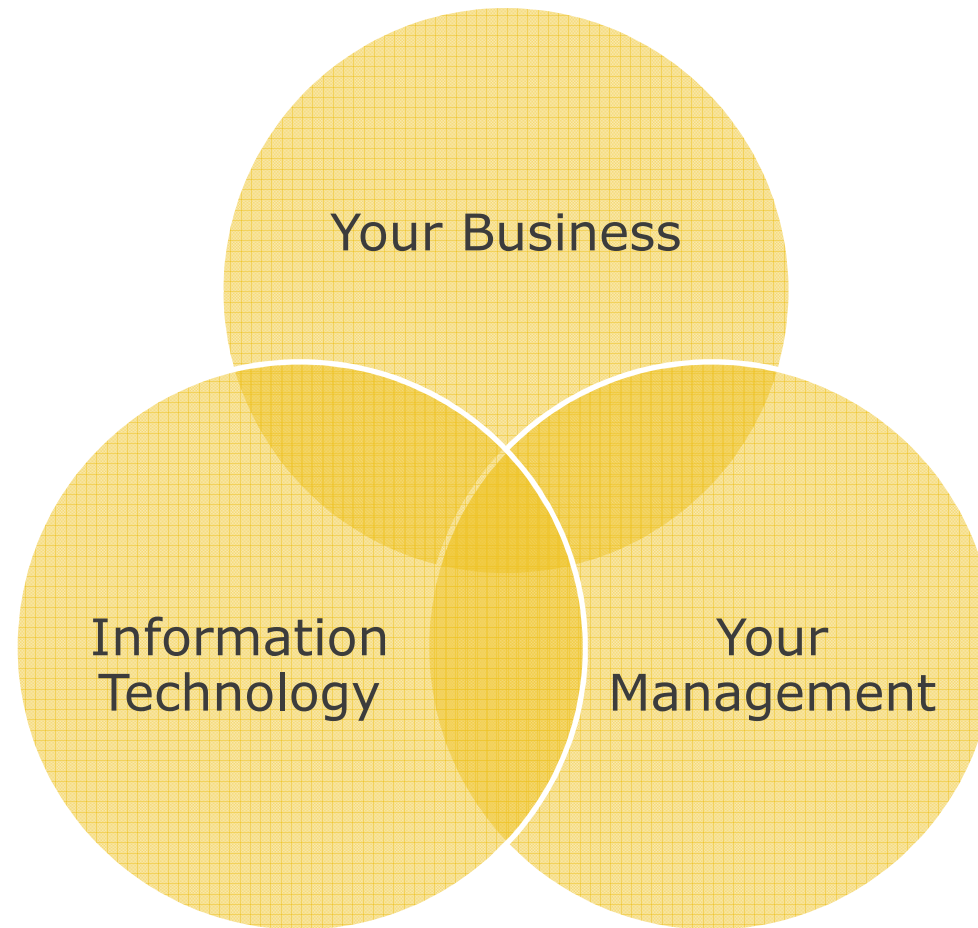
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Understand Enterprise Objectives

“If you don’t know where you are going, any road will get you there”

– *Lewis Carroll*

Start from your requirements



Create a Mobile Security Policy



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BYOD: Risks related to costs

- Brand disrepute by uncontrolled use of services/devices
- Increased variety and complexity
- Device loss
- Enabling infrastructure



Source: ENISA

Physical Risks



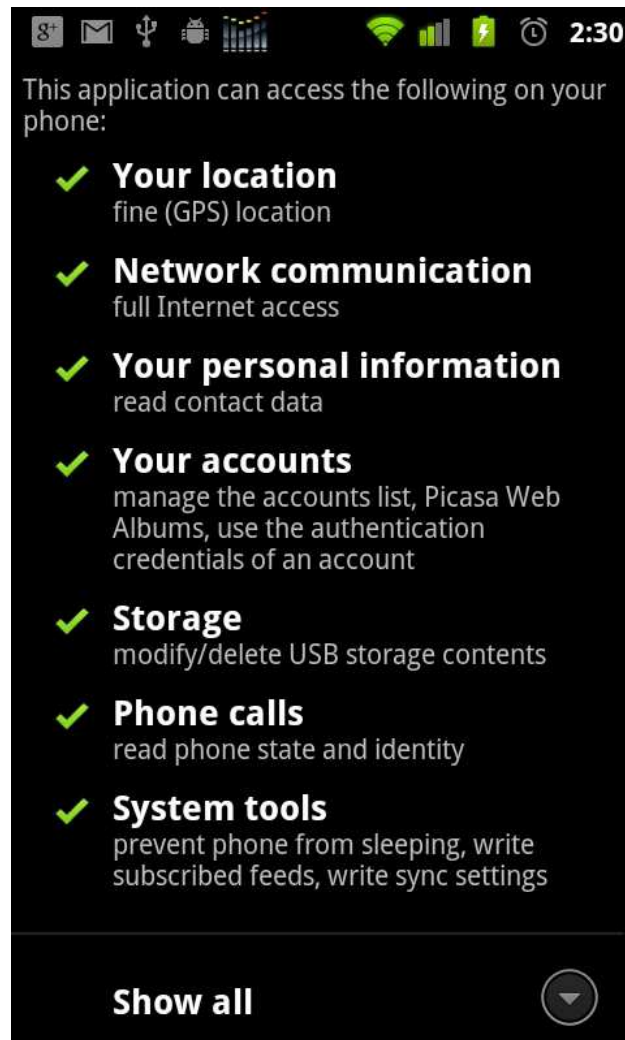
Increased variety and complexity



There is an app for that...

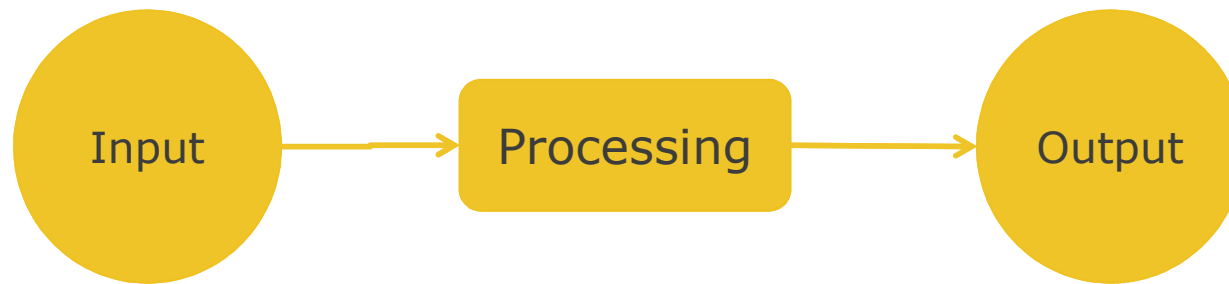
- To steal your data
- To steal your money (premium SMS services)
- To spy on you
- To evade regular controls

Accept or Decline?



Apps are programs

- Apps act like normal programs:



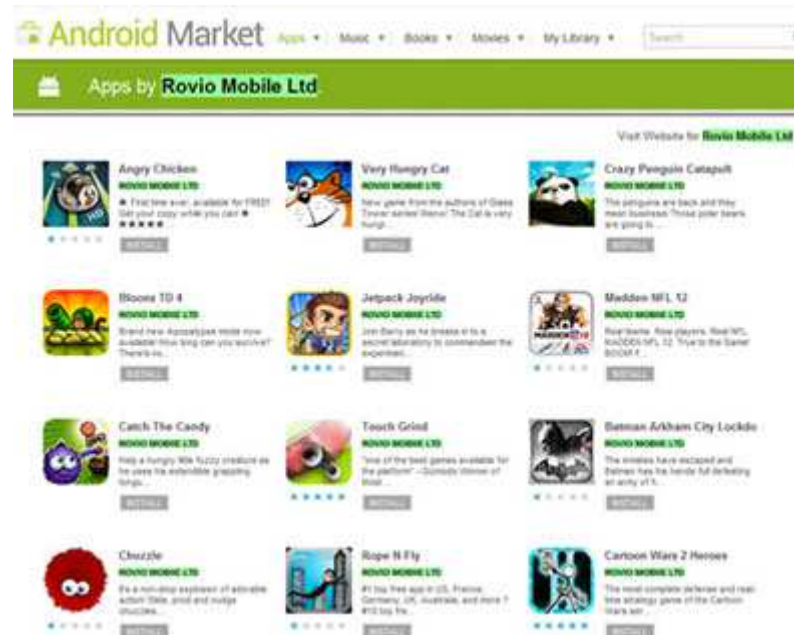
- They may have bugs
- They may be badly designed
- They may be altered (backdoors)

Apps are programs

- Apps must be developed using best practices with more focus on mobile devices specs like small keyboard not ideal to input passwords
- OWASP has a top-10 mobile risks⁽¹⁾ that must be reviewed

⁽¹⁾ https://www.owasp.org/index.php/OWASP_Mobile_Security_Project#tab=Top_Ten_Mobile_Risks

Malicious Marketplace – Social Engineering



BYOD: Risks related to Legal and Regulatory

- Governance & compliance controls of employee-owned devices
- Difficult enforcement of controls due to constantly changing context
- e-discovery limitation due to ownership & personal data

Source: ENISA

Privacy risks



BYOD: Risks related to data

- Device sharing can lead to unauthorized release of corporate info
- Enterprise network access by unknown users & unmanaged devices
- Application rich devices difficult to control
- Devices as targets of attacks

Source: ENISA

Risks related to data



OWASP Top 10 Mobile Risks

1. Weak Server Side Controls
2. Insecure Data Storage
3. Insufficient Transport Layer Protection
4. Unintended Data Leakage
5. Poor Authorization and Authentication
6. Broken Cryptography
7. Client Side Injection
8. Security Decisions Via Untrusted Inputs
9. Improper Session Handling
10. Lack of Binary Protections

Threats related to device



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Risk Mitigation

Governance Management

Legal
and HR
Management

Technical Management

Device Management

Application Management

User & Data Management

General Policy and Organisation

- Define appropriate usage (physical, data, application)
- Create “Awareness”
- Monitor, detect, report
- Collaborate with HR/ Legal

MDM?

“Mobile Device Management (MDM) software secures, monitors, manages and supports mobile devices deployed across mobile operators, service providers and enterprises.”

Mobile Device Management

- Do you need MDM?
- Microsoft Exchange includes ActiveSync for free
- Security Vendors propose some tools to handle and manage Mobile devices

Mobile Device Management

- Enforce policy compliance
- Inventory Management
- Software/ Application Management
- Authentication
- Encrypted data
- Encrypted communication



Mobile Device Management

- Remote wipe
- Physical protection
- Password enforcement
- Audit and Reporting
- Cost control (Geolocalization)
- Access Control



Mobile Device Management



Mobile Device Management

- Data segmentation
- Containerization
- Privacy protection
- Backup management
- Data Loss Prevention



MDS?

“Mobile Device Security(MDS)
concentrates on the security of
personal and business information
stored on smartphones.”

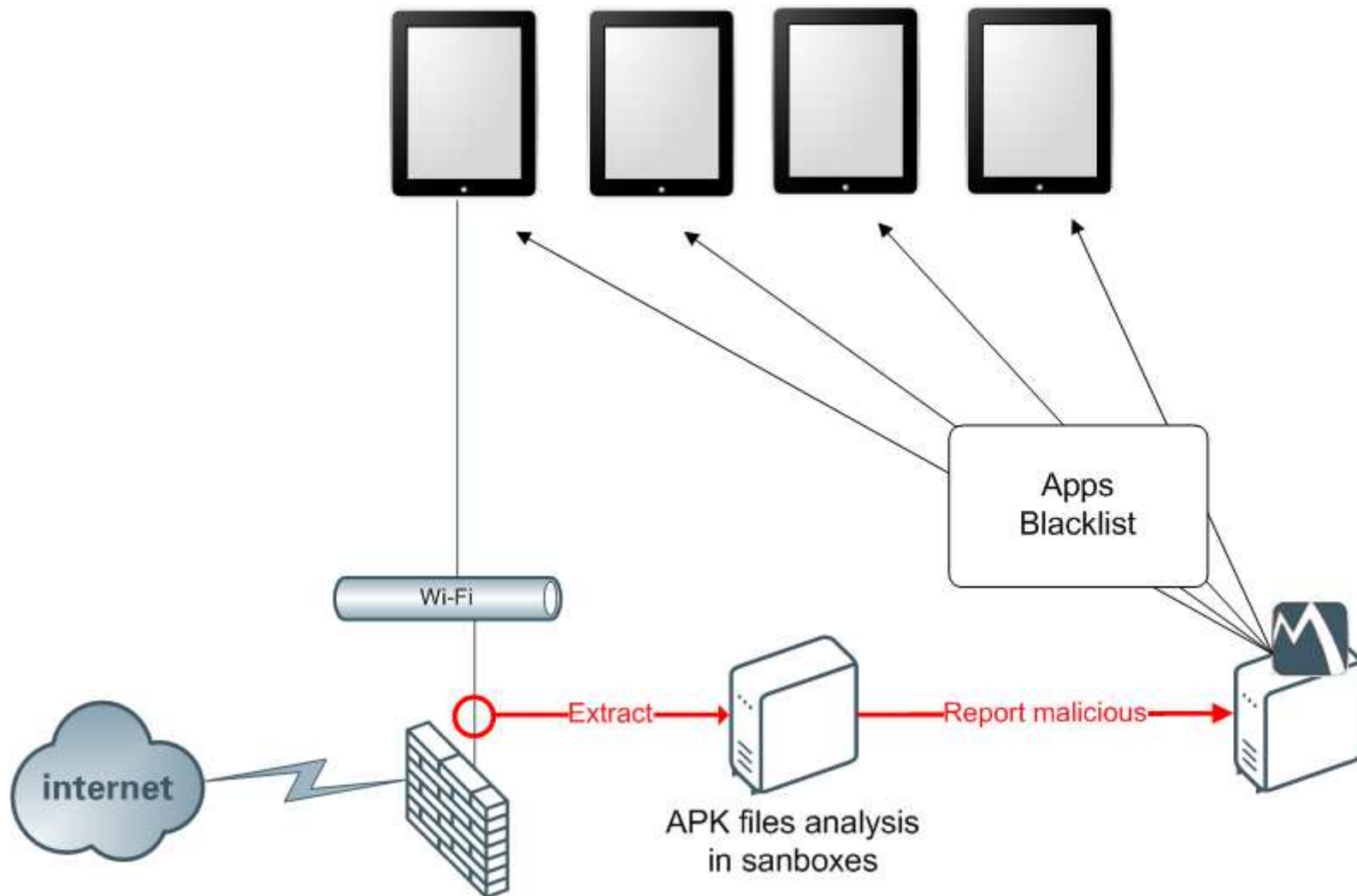
Mobile Device Security

- Focus on identity, data and availability protection using:
 - URL Filtering
 - Web Application Filtering
 - Malware detection: Check Traffic, Apps & SMS
 - Antivirus

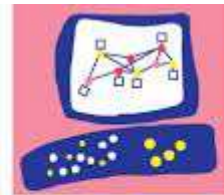
Unity Makes Strength

- Combine multiple technologies to efficiently protect mobile devices
- Use solutions which are “open” (API, logs)
- Think about “Lego” blocks
- Telenet might help you to build your solution

Unity Makes Strength



Solutions delivered by Telenet



Check Point
SOFTWARE TECHNOLOGIES LTD.

Conclusion

- Combination of MDM & MDS is ideal solution to cover most of mobile security related aspects
- Invite us to discuss your requirements and define together the best solution for your business

Let's have a drink!

