The Enemy Within Security in the Mobile World Mobile Trends to be Aware of Fort Wayne Chapter IIA

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Fort Wayne Chapter IIA 10/28/14



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Learning Objectives

- Learn why mobile intelligence is important
- Be able to identify security trends and risks in mobile computing technologies at the consumer and corporate levels
- Learn various tips to protect your data



- There is not enough time to discuss all issues in mobile information technology security, therefore it is not a deep dive and should be understandable by all
- Leading trends and issues (not all inclusive)
- Dialog not lecture (questions welcomed)

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About Us

- C² Information Technology Advisors serves growing companies, generally in the middle tier, where Information Technology may not be their core business. These companies have a significant investment in their technology infrastructure, may not employ a full time CIO, but recognizes the importance Information Technology plays in achieving their goals.
- C² Information Technology Advisors is focused on the strategic decision making process
- Our mission will be to help our partners achieve their vision through people optimizing technology

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The Saying Goes

Keep Your Friends Close...

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The Saying Goes



Where Are Your Mobile Devices?

- Take out your mobile devices and place them in front of you
- ALL OF THEM!

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Where Are Your Mobile Devices?

- In your pocketbook or purse
- In your pocket
- Over your heart
- Caressing your backside

Sleeping with you each night

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MOBILE, STUDIES

79% Of People 18-44 Have Their Smartphones With Them 22 Hours A Day [STUDY]

By Allison Stadd on April 2, 2013 12:00 PM



Quick: what's the first thing you do when you wake up?

Yawn? Hit the snooze button? Go to the bathroom? Brush your teeth?

If you're like 80% of 18-44-year-olds, the answer is "check my smartphone."

A new IDC Research report, conducted online with data from 7,446 Android and iPhone users ages 18 to 44 during a week in March, reveals some eye-opening mobile social media intel.

Facebook sponsored the report, so our sister site AllFacebook.com has the story from that angle, if you're interested.

But here's the lowdown from a less Facebook-specific perspective:

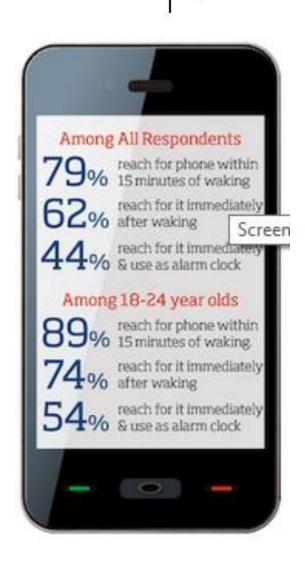
49% of the entire U.S. population uses a smartphone. By 2017, the percent of smartphone users is expected to reach 68%.

Source: http://www.mediabistro.com/alltwitter/smartphones_b39001

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Mobile Trends

- 79% Of People 18–44
 Have Their Smartphones
 With Them 22 Hours A
 Day
- 79% Of All Respondents Reach for the Phone Within 15 minutes of Waking

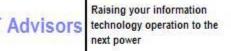


What is a Mobile Device?

- A mobile device, which is also referred to as a handheld, handheld device or handheld computer, is a <u>pint-sized</u> computing device. Mobile devices usually come with a touch or nontouch display screen and sometimes, even a mini keyboard. <u>http://mobiledevices.about.com/</u>
- a portable, wireless computing device that is small enough to be used while held in the hand; a hand-held <u>http://dictionary.reference.com/</u>

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What is a Mobile Device?

• Really?!

- a wireless computing device designed to be moved frequently. Mobile devices usually come with an interface (touch or non-touch), display screen, and sometimes, even a mini keyboard and it uses a communication protocol (usually TCP/IP) to communicate through the internet to other computing devices or services
- source: C² IT Advisors

What is a Mobile Device?



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What's Your Mobile Device?

List the different ways you use your mobile device

What's Your Mobile Device?

- Phone
- Camera / Scanner
- GPS / Map
- Wallet*
- Books / Reader
- Music player
- Address book
- POS register
- Physician / health monitor

 Appointment book /Calendar

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- Alarm clock
- Passkey
- Video and audio recorder
- Calculator
- Game console
- Remote car starter
- Security system

Trend – Push Notification w/GPS





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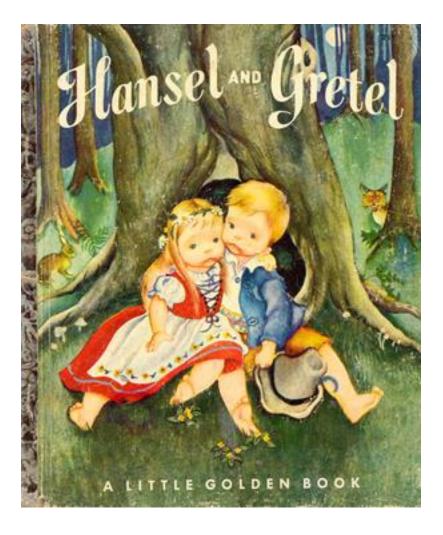
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Trend – Privacy

- The Hansel & Gretel effect
- Tracking
- Data Brokering



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Trend – Privacy



Trend - Mobile Threats

- Viruses
- Social Engineer (email and text)
- MITM Man In The Middle (Transport)
- MITB Man In The Browser
- Smarter hackers (selective, trickier)
- Gullibility and Greed
- Personal Impatience
- Free economy
- Bad Apps

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Trend – Mobile Threats





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Trend – Speed

Leapfrog Technologies





Trend – Mobile Commerce

NFC – Near Field Communications

Google Wallet and Coin



Trend – Mobile Commerce

- NFC Near Field Communications
- Google Wallet
- Onlycoin
- iPay



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Trend – Cloud







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Trend – Wi–fi

- We have a strong desire to be connected.
- Maybe too strong!

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Trend – Wi–fi



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Trend - Managed Security

- The Black Phone
- BYOD getting stronger
- MDM Mobile Device Management
 - Define
 - Restrict
 - Monitor
 - Wipe

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Trend - Policies and Legal

- Slow to catch up
- No "one size fits all"
- Getting tighter
- The right to be forgotten



Trends – Audit

- It is getting harder
 - 3rd and 4th party agreements
 - Co-mingled data
 - Consumerization of IT
- Must stay current with trends to be effective

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Trend – Harden Networks

- Responding to increasing threats
- Responding to potential government intervention
- Responding to increasing regulations
- More secured links (SSL) and encryption
- Stronger firewalls, virus and spam protection
- Patch management
- Virtual Desktop and remote services
- Multi-factor authentication

Tips

Change you mindset about security

- Once posted never gone
- We are constantly being hacked
- We are constantly being tracked
- Complex password protect everything you can
- Skip the "remember my password" options
- Change your passwords often



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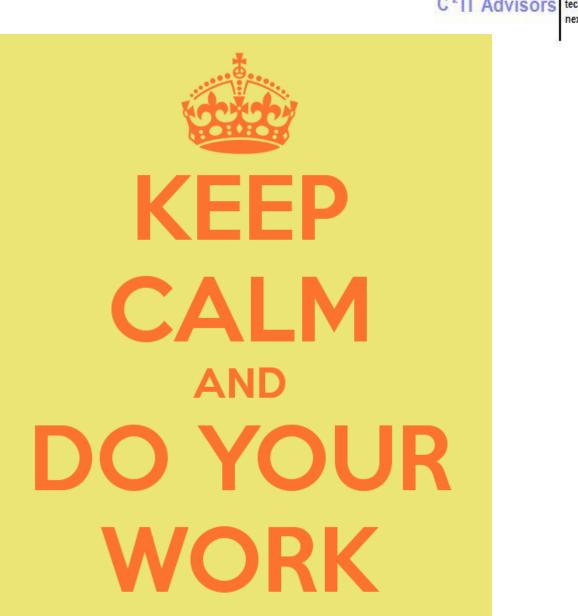
Tips

- Drop off the grid
 - Unplug the batteries / Faraday case / cover your camera
- Stay current on security breaches and trends
 - Listen to the media reports
 - Follow security releases
 - Develop a security aware model
- Use certified eDispoal
- Read the fine print EULA



Tips

- Consider what is truly needed in the cloud
- Check the logs / statements / reports regularly
- Personal hotshot
- Use 110V
- Improve contract review (3rd and 4th party)
- Leverage Mobile Data Management tools





About Your Speaker

- Clifford Clarke, CEO C² IT Advisors
- MBA, PMP, CISM, CGEIT, CRISC
- Serial Entrepreneur
- Experiences in small organizations and Fortune 100 companies
- Work with local, national, and international organizations



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