RSA Conference 2015 San Francisco | April 20-24 | Moscone Center

SESSION ID: MBS-F03

Mobile Security Shootout: Which Smartphones Are Up to the task?



Chester Wisniewski

Senior Security Advisor
Sophos Inc.

@chetwisniewski



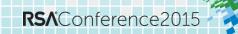


The landscape has settled









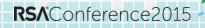


Is the market dictated by biases?

- Ask 10 techs, get 10 answers
- Android malware is scary
- Walled garden = safe & secure
- Fewer users means fewer attackers?

TRUTH







What are the questions?

- Safe from what?
- What are we protecting?
- Priorities
 - Data theft
 - Privacy
 - Productivity
 - Awareness and control

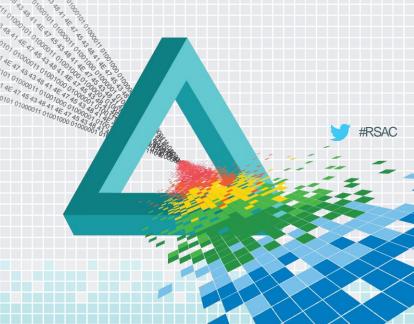




RS/Conference2015

San Francisco | April 20-24 | Moscone Center

The platforms



Android







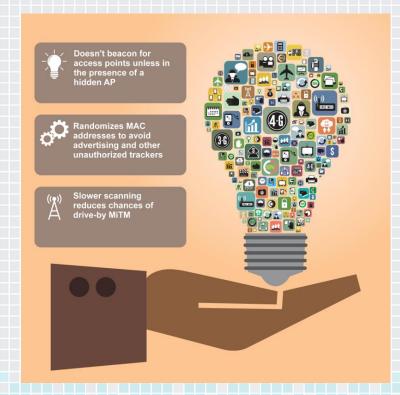
iOS



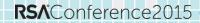












Windows Phone









RSA Conference 2015 San Francisco | April 20-24 | Moscone Center

Who is getting what from our mobiles?



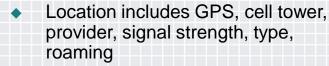
Apps







- One tap login
- Optional PIN



 Uploads photos without explicit permission





#RSAC



- Requires phone #
- Leaks email over HTTP
- Can hijack account over email
- Asks nicely for all permissions

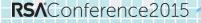




- Leaks MAC address over HTTP
- Communicates with two ad networks
- Leaks internal IP address, phone #, carrier







Apps

- Leaks MAC address
- No cert validation (now fixed)
- Password sent
- Sends model, carrier, memory, storage, WiFi, battery info



- Sends off phone # and birthdate and password
- Sends location, battery, CPU, time zone, memory and storage

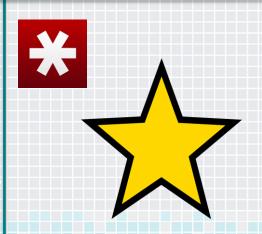
#RSAC

- No password reset verification
- Discloses if user or pw is wrong



Collects model, carrier. country





- All HTTPS
- No pinning
- No passwords transmitted
- No ads

SOPHOS

RSAConference2015



What can happen - The flashlight app











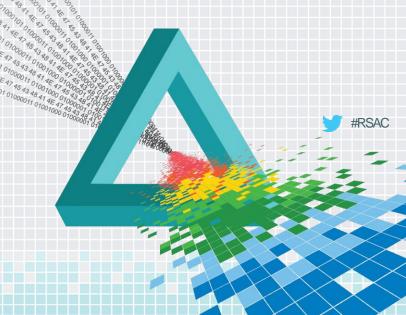
 You probably don't want this, which brings us to the tools that really matter. Control.





RSA Conference 2015 San Francisco | April 20-24 | Moscone Center

Taking action on what we've learned





ActiveSync to the rescue...?

Not all platforms are created equal











- Is BYOD worth it?
- What information will you allow to be accessed from mobile devices?
- Certificates, passcodes, WiFi, VPN, Camera
- Most importantly:
 Application control
- The cloud.















