

PB173 Domain specific development: side-channel analysis



Charger demonstration

Łukasz Chmielewski
chmiel@fi.muni.cz,

Milan Šorf
xsorf@fi.muni.cz



JuiceCasting

JuiceCaster: Towards automatic juice filming attacks on smartphones

Weizhi Meng*, Wang Hao Lee, S.R. Murali, S.P.T. Krishnan

Infocomm Security Department, Institute for Infocomm Research, Singapore

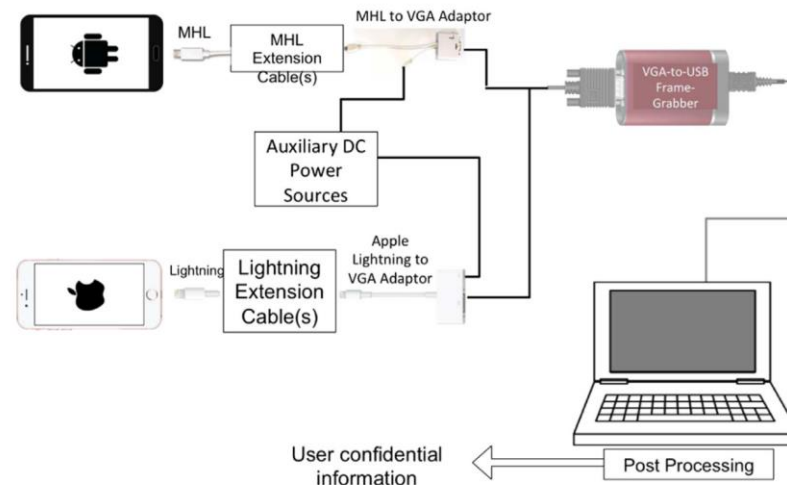


Fig. 2. The high-level architecture of our (automatic) juice filming attacks.

Charging Risks

- Charging smartphones in public spaces is a regular occurrence - airports, cafes, libraries...
- Public charging stations pose a security threat
- Apart from installing malware, undetectable spying is possible

Mobile High-Definition Link

- Released June 2010
- “Industry standard for connecting smartphones to TVs, projectors etc.
- Similar appearance to regular cables

JuiceCasting

- Class of attacks abusing the MHL standard to spy on charging smartphones
- Undetectable
- Secure charging technologies - USB condoms, cables with no data lines...

Demonstration time