Usable Logging as a Security Response to Physical Attacks on Mobile Devices

Motivation

Intrusions by people close to a mobile device owner are prevalent

They can have damaging consequences

Authentication barriers are not effective to these attackers

Approach

Provide logs of action to the owner of a smartphone

Logs should be human-readable and usable

Prototype: gathers data of usage (events and tree views) on Android and parses into a human-readable sequence of actions

Future

Evaluate intrusion detection from human-readable logs in a comparative study with other approaches of logging (e.g., MyActivity, low-level logs)