13 October 2020 Study · Mobile Security · Privacy & Crypto

Providing Smartphone Features on the Desktop

The full text is currently only available in the Deutsch version. A translation will follow.

Archived. This content is no longer updated. It remains available for reference.

Version 2020-10-10
Source https://technology2.a-sit.at/en/publications/providing-smartphone-features-on-the-desktop/

Current personal computing devices, such as smartphones, laptops, and traditional desktop computers, are geared towards different applications and use cases, but only complement each other to a limited extent. For example, there are only limited options for using sensors or cryptographic hardware present on modern smartphones on the desktop. Similarly, the trusted computing models pursued on both platforms also differ significantly from one another. The different accessibility for using these models on each platform and their general ease (or difficulty) of use also reflect this. This project produced a concept, which illustrates how sensors and trusted computing features of smartphones can also be made available on the desktop based on Google's Android platform. Combined with the wide availability of biometrics and cryptographic hardware on smartphones, this introduced opportunities to increase the security of traditional desktop workflows by coupling them with smartphones.