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Utilising an Android smartphone as a key store for Web Authentication

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 This content is no longer updated.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.

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Source https://technology2.a-sit.at/en/publications/utilising-an-android-smartphone-as-a-key-store-for-web-authentication/

This report shows how an Android smartphone can be used as a secure keystore for Web Authentication on the desktop. For this purpose, a secure channel is established between the smartphone and the computer. An application on the Android smartphone manages the creation and usage of the key material. When registering with a web service, the key material is created inside the secure hardware of the smartphone. As a result, the key material cannot be extracted even on compromised smartphones. The usage of the key material for authentication is confirmed by the user via biometric authentication.