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# Behavioral Authentication in Digitales-Amt-App

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**Archived.** This content is no longer updated.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.

**Source** https://technology2.a-sit.at/en/publications/behavioral-authentication-in-digitales-amt-app/

Biometric authentication has become one of the most widely used authentication methods, especially on smartphones and in the Digitales-Amt app. However, this mostly relies on physical biometric authentication such as fingerprints or face recognition. Although the security of physical biometric authentication is very high, it suffers from a major disadvantage. In case of a compromization of physical properties, an attacker can potentially use it multiple times for authentication.

Behavioral biometrics is an alternative to physical biometrics. Behavioral biometrics refers to behavior patterns that are specific to a user, e.g. the rhythm of the keystrokes on a keyboard, how a computer mouse is used or how users operate their touchscreen on smartphones.

The aim of this project was to evaluate how the Digitales-Amt app can be supplemented with a behavior-based authentication mechanism in order to potentially increase the security of the app. This project report provides a brief introduction to current developments in terms of behavior-based authentication mechanisms and presents a comparison of different methods that use different interaction signals from smartphones. In addition, further aspects such as the protection of the privacy of user data are highlighted.