



Bachelorarbeit / Masterarbeit

Digital Identity Management in the Public Sector

Numerous situations in everyday life require proofs of identity attributes, such as date of birth, insurance status, or citizenship. As a result, identity management plays a vital role in our society. Due to the ongoing digitalization, a shift of identity management to the digital realm becomes increasingly important. Examples include proving the possession of a valid driving license to access vehicle sharing schemes or giving details on the one's registered place of residence. However, there is no agreed-upon standard for digital identity management, leading to the emergence of several competing approaches. Public institutions, such as governmental agencies or universities, are among the most important providers of identity documents. As a result, the public sector suffers particularly under the lack of an interoperable digital identity management standard, hindering the digitization of their services.

The goal of this thesis is to review the research on digital identity management in the public sector and to structure existing approaches. A focus could be laid on new approaches, such as self-sovereign identity management (SSI). For a master's thesis, adding an empirical component, e.g. through expert interviews, might be necessary. The exact focus will be determined in an initial meeting with the supervisor. This thesis should be written in English.

Empfohlene Einstiegsliteratur:

- Clauß, S., & Köhntopp, M. (2001). Identity management and its support of multilateral security. *Computer Networks*, 37 (2), 205-219.
- Mühle, A., Grüner, A., Gayvoronskaya, T., & Meinel, C. (2018). A survey on essential components of a self-sovereign identity. *Computer Science Review*, 30, 80-86.
- Webster, J., & Watson, R. T. (2002). Analyzing the past to prepare for the future: Writing a literature review. *MIS Quarterly*, xiii-xxiii.

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