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Zero-Knowledger Proof in Self-Sovereign Identity

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This article provides an overview of the currently existing technologies in the field of Self-Sovereign Identity. Special attention is paid to the zero-knowledge proof and how it can be used in distributed ledgers technologies. The work shows how to make a new user anonymous, but at the same time provide him with all the features without decreasing the level of trust to him. It will be the same as if he was fully known to the system. Particular attention is paid to the ability of users to provide access to each other's resources without losing security. The algorithms of how it is done is presented.

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