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Working towards functional OIDCfed

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The way we, in Research and Education, do identity federation - especially in collaborations - diers from the standard' use case that companies have. After all, in contrary to one identity provider to many services, we want many sources of identity linked to many services. For many years, SAML has successfully been coerced into adapting to this model, but the times are changing, and OpenID Connect (OIDC) and OAuth are starting to enjoy the support of IT companies - more so than SAML does.

With the years of experience SAML has brought us, we as a community are able to implement federations in a way that should prevent issues we have encountered before. This is done in the OIDCfed specication, lead by Roland Hedberg.

To contribute to this process, we have during the past two years, black-box tested the OIDCfed reference implementation written in Python, and leveraged these experiences to create a secondary (HSM supporting) full implementation of aTrust Anchor'/Metadata Signing Service (MDSS) - based solely on the on the specication, especially focusing on ease-of-use and maintainability.

At the time of writing this abstract, we are working towards a library that supports identity sources and services in their usage of the new specication. This library too, is going to be a 100% compliant, full implementation of the relevant parts of the specication, based on sustainable technology.

In this talk, we would like to share our experiences working on the OIDCfed specication and implementations, and explore the needs of the community with regards to using this new standard.

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