



Eclipse Unified Identity

Background

The Unified Identity Protocol (UIP) is an implementation of Self Sovereign Identity (SSI) for people, organisations and things. The protocol is an implementation of the W3C proposed standards for Decentralized Identifiers (DID), Verifiable Credentials and other proposed decentralized identity standards. It is implemented using the IOTA Distributed Ledger Technology (DLT) as a neutral, open and decentralized network. The UIP core implementation is initially driven by the IOTA Foundation (IF).

[IOTA](#) is an open-source distributed ledger built with the Internet of Things in mind. It can be leveraged for a number of purposes, including feeless microtransactions and messaging with data integrity.

Scope

Eclipse Unified Identity is a toolkit for developers who want to work with decentralized identity. It provides high-level implementation, documentation, examples and more. The goal is to make adoption and integration of UIP as easy as possible.

- Development of the code for Eclipse Unified Identity
 - Develop decentralized marketplace frameworks, building blocks, API's and toolboxes which can easily be deployed, customized and extended.
 - Create tutorials and code samples
 - Develop tools and applications
- Educate and experiment through thought leadership reports
 - General whitepaper(s) to compliment code
 - Explore specific cases per industry
- Build and demonstrate interoperability with complementary technologies
- Contribute to the Development of the Unified Identity Protocol

Description

The Eclipse Unified Identity project consists of several components including a high-level implementation of the UIP core, examples and documentation. Any Self Sovereign Identity project can only become a success as code solutions become possible, alongside a strong effort for adoption. The toolkit lowers the barrier-to-entry and fosters adoption. An initial whitepaper about the subject of SSI and a Unified Identity solution can be found [here](#).

Why Here?

This project provides a quick entry point for developers exploring decentralized identity, and allows them to rapidly prototype concepts and business models. The governance framework and guidance of the Eclipse Foundation will help to ensure that development meets the requirements of the wider community. Equally, Eclipse Unified Identity will introduce a layer of digital trust to the existing Eclipse ecosystem.

Licenses

Apache, Version 2.0

Project Scheduling

An initial implementation of the UIP can be found here <https://github.com/iotaledger/identity.ts>, however this is considered an experimental implementation. Development of a Rust code base is in a planning phase and will be started soon, enabled by IOTA's Request for Comment process (see <https://github.com/iotaledger/protocol-rfcs>). Some extra details about the roadmap of UIP can be found on <https://roadmap.iota.org/digital-identity>.

The Eclipse Unified Identity project's components will be developed in parallel to the core protocol.

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