



Driving Decentralized IAM

A Ubisecure and Remme partnership

Blockchain for ID management

U BLOCKCHAIN TECHNOLOGY WILL ENABLE US TO REGAIN CONTROL OF OUR IDENTITIES AND ENABLE US TO KEEP TRACK OF WHERE OUR DATA IS USED.

There are many technologies driving today's digital, connected world in both personal and business use cases. For example, every time you see "Log in with Facebook" or "Log in with Twitter" etc. on any website, or use login credentials issued by your employer, you're using Identity and Access Management (IAM) technologies in the background. IAM has become central to our online interactions but, like a lot of the infrastructure of the web, it is largely invisible to users.

Blockchain technology has been around for some time now and the technology's most well-known use-case is within the world of cryptocurrency (i.e. bitcoin), but its applications are far more diverse. Today, many companies are collaborating to launch some aspect of their infrastructure on blockchain and the ones that are leading in the forefront are banks, supply chain & automotive companies.

Both blockchain technology & IAM are evolving rapidly and no matter what the use-case is, enterprises face an increasingly complex and puzzling digital identity landscape, especially with a growing concern amongst identity owners that businesses know too much about them. Users today want to be able to reclaim control over their identities in a way that works for them. **Blockchain technology will enable us to regain control of our identities and enable us to keep track of where our data is used. This is where decentralized IAM comes into play.**

The goal of a decentralized IAM system is to have certain elements of the identity ownership, verification & authentication process handled by the user themselves through a series of digital workflows that leverage blockchain technology behind the scenes. In the context of enterprise however, working with an existing identity repository - one that's already connected with an enterprise user directory - makes more sense. In this design, the registration workflow will typically not only help create an identity within the enterprise's choice of IAM system, but will also create one within a distributed ledger during the same process. Once the identity is available, the user will then be able to use it to log on to various applications, including ones that are outside of the enterprise ecosystem.

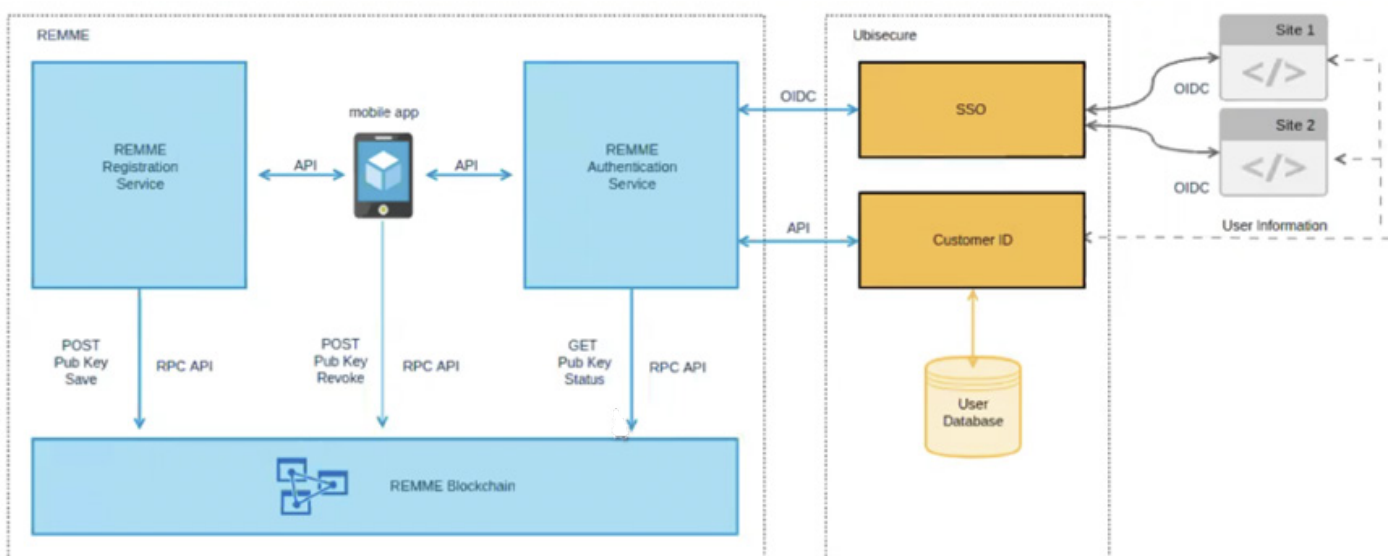
REMME & UBISECURE – TECHNOLOGY COLLABORATION

One such recent collaboration in the auto industry has been with Remme and Ubisecure’s “Digital Key” project for a large auto manufacturer. The goal for this auto manufacturer was to create a ‘google-suite’-like experience for its vehicle owners for them to seamlessly log on with a single, password-free, distributed identity across several web and mobile applications. They wanted an experience that their customers can use to not just logon to their services, but those offered by third parties as well. They wanted to be future-ready and have users be able to use this “Digital Key” to enable car sharing, electrical vehicle charging, parking and in-car services as well.

— KEY BENEFITS

- ↔ ID registered on blockchain
- ↔ Password-free
- ↔ Self-service identity recovery
- ↔ Multiple devices support

With an architecture that allowed the use of standardized components (OpenID Connect, OAuth), the goal was to make the service easily plug-into existing applications and services and make the whole design mobile friendly. Remme’s blockchain allowed the car owners to provision & register their “Digital Key” on their mobile device, to be used for logging on, whereas Ubisecure’s Customer IAM provided the much-needed identity plumbing to speak to the car company’s existing infrastructure. By delegating control of the “digital key” back to the users, the car company could focus more on providing seamless services to its customers and less on maintaining and managing their identities. By providing flexible self-service identity recovery and management along with multiple device support, the Digital ID project was seen as a true success in solving major challenges for the auto manufacturer.



- ↔ Remme blockchain provisions and registers the “Digital Key”
- ↔ Ubisecure Customer IAM provides the customer identity management functionality and connects the service to existing infrastructure

Blockchain as a technology has opened up a world of innovative opportunities for the automotive industry. OEMs could use blockchain technology as a platform to:

- ↔ Enhance their overall cybersecurity for vehicles.
- ↔ Strengthen identity management.
- ↔ Enable secure micropayments.
- ↔ Improve data validation.

Blockchain will add the levels of trust and security necessary for a self-driving future.

— FUTURE PERSPECTIVE

Use “Digital Key” to enable car sharing, electrical vehicle charging, parking and in-car services.

Remme & Ubisecure continue to collaborate on future-facing projects as experts in their own respective spaces. For more details about Remme & Ubisecure’s decentralized approach to new IAM projects, get in touch.



— ABOUT UBISECURE

Ubisecure provides feature rich customer identity management software and services. The company provides a powerful Identity Platform and Identity Cloud to connect customer and citizen digital identities with customer-facing applications. The platform consists of productised Customer Identity & Access (CIAM) middleware and API tooling to enable single digital identity benefits across multiple applications. Features include single sign-on (SSO), multifactor authentication (MFA), authorisation workflows, user identity management, and pre-established connections to dozens of third-party identity providers (social, mobile, and verified).

ubisecure.com



— ABOUT REMME

Founded in 2015, Remme is building the distributed Public Key Infrastructure protocol and PKI-enabled apps to address the challenges of Web 3.0. Remme Auth is a 2-click authentication solution that allows users to securely access a website without passwords. Instead, the solution uses Web Cryptography API and blockchain technology.

remme.io