IOWN INTEGRAL

NTT R&D FORUM 2024

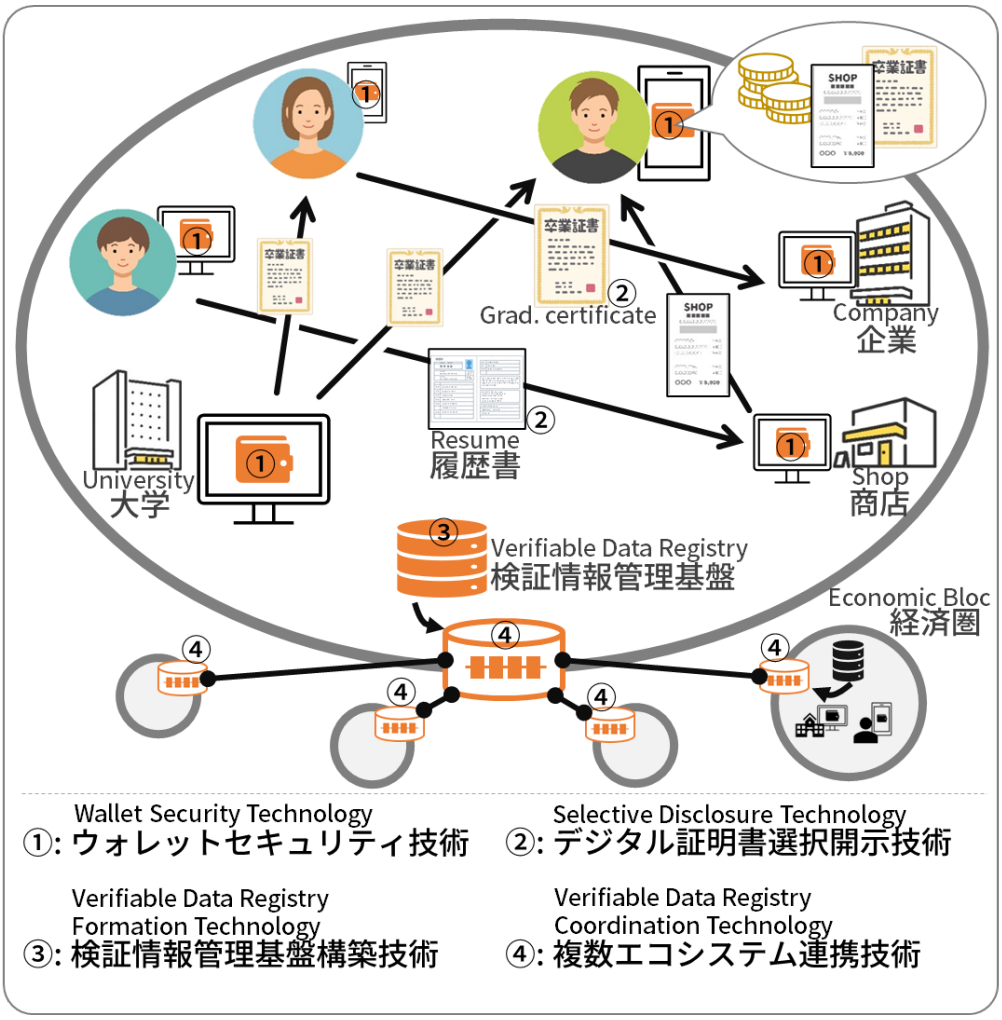
RESEARCH

γ04-01

Trusted credentials formation technologies

We ensure the trust of humans, AIs, things, and data

#Customer Experience Value Creation #Productivity Improvement



///Technical Issue

Security-aware technology and design are required to implement a mechanism to corroborate digital data with digital certificates in a wide range of use cases.

///Research Goal

We use Verifiable Credentials(VCs) to ensure the trust of humans, AIs, things, and data and to realize a reliable society.

---Technology

- Wallet Security Technology
- Selective disclosure technology for verifiable credentials using attribute-based encryption
- Verifiable data registry formation technology
- Verifiable data registry coordination technology

---Novelty

- Security enhancements of the market's Multi-Party Computation(MPC) Wallet
- NTT's proprietary library of attribute-based encryption and the world's first application for VCs
- Trust judgment based on the reputation of VCs
- Unique tamper detection method

---Applicable Business

We will pursue the potential of VCs as a basic format for digital certificates in a wide range of fields, such as telecommunications, education, entertainment, supply chain, etc. We will apply the NTT technology to the Verifiable Data Registry as a basic infrastructure for utilizing Verifiable Credentials. (by the end of FY2025)

Related Exhibition=γ10-10 Exhibitors= NIPPON TELEGRAPH AND TELEPHONE CORPORATION / NTT Digital, Inc.

Contact URL