The Internet of Things (IoT) enables physical devices to provide rich and convenient services by cooperating with clouds storing users’ personal data. We demonstrate a new FIDO* based authentication technology for cooperation between devices and clouds. This technology simultaneously accomplishes high security, user-friendliness, and high-level ID-proofing in an IoT enabled world.

**Features**

- Improving convenience of users and verifying users’ identity with consideration given to privacy on the basis of FIDO, which is standard authentication technology using biometrics information.
- Service providers can utilize users’ personal identity information at an appropriate level using the highly reliable users' personal identity information owned by a network operator.
- Improving convenience of users and reducing service providers’ running cost by sharing authentication keys in things based by confirming the owners of things.

**Application Scenarios**

- For end users: customized services that distinguish family members by using smart home appliances shared by family members.
- For end users: online health management services through the use of wearable devices for healthcare.
- For service providers: development of online authentication business through an authentication service that adds a function for verifying users' identity to FIDO.

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* FIDO Alliance (Fast ID Online Alliance): An organization that develops technical specifications to define open, scalable, interoperable online authentication technologies, and that operates industry programs to help ensure successful worldwide adoption of the specifications. Alliance members include OTTs, vendors, system integrators, government organizations, and network operators.

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