Towards a social evolution by collaboration of human and things, we are developing fundamental technologies which enable IoT services and devices to connect dynamically and safely. The keys of the collaboration among different IoT services are flexible data interoperability, data protection (security) and scalability. Based on the international standard 'oneM2M', we are enhancing these functionalities as an IoT middleware.

Features

- We are working to establish primitive IoT functions as an IoT middleware and also to provide extensive functions. Those functions enable the middleware to:
  - control the usage of users' sensitive data according to their own policies,
  - connect and utilize various kinds of devices in various IoT services, and
  - exchange huge numbers of messages between IoT devices with scalability.

- Our middleware conforms to the international standard specification 'oneM2M' and achieves high interoperability with other IoT services.

Application Scenarios

- Our IoT middleware enables flexible, secure, and scalable collaboration among IoT services and devices regardless of the type of network service or the accommodated devices/sensors.

  - For example, an existing personal healthcare service can create new value through collaboration with other services such as:
    - Labor management for a company using personal health care data of its employees. This can be achieved safely with our sensitive data protection technique.
    - Dynamic car insurance fee determination based on the driver's personal health data and car driving data obtained from the car.