

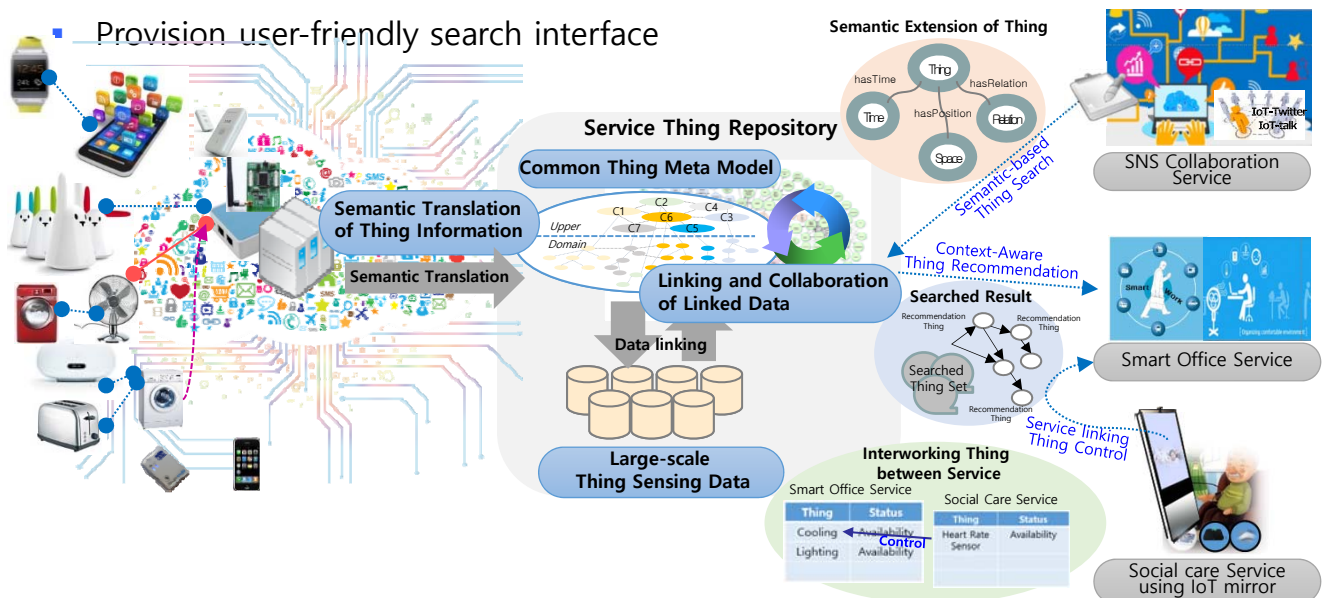


# Semantic IoT System Technology



## System Definition

- Provision of functions that can easily link and control various things
- Provision of functions that can search in context-based and manage large-scale IoT data
- Provision user-friendly search interface



Web-based Thing Connectivity

Intellectual Thing Search and Recommendation

Linking with heterogeneous Service

## System Features

- Provision of a CoAP, MQTT, HTTP Protocol and Java, C++ programming interface
- Change easily DBMS by common DB interface (MongoDB, HBase, SQLite Support)
- Proxy supporting collaboration an IoT device with web service.
- SW system capable of embedding in various form of IoT Devices(Gateway, Network Server etc)
- Large-scale semantic based thing repository(Collection· Translation· Inference · Store· Query)
- Semantic-based Thing Search and Control(e.g., "Currently, what is an available thing near me?")