

Results and Issues of Burlingame Plugfest

December 6th, 2017

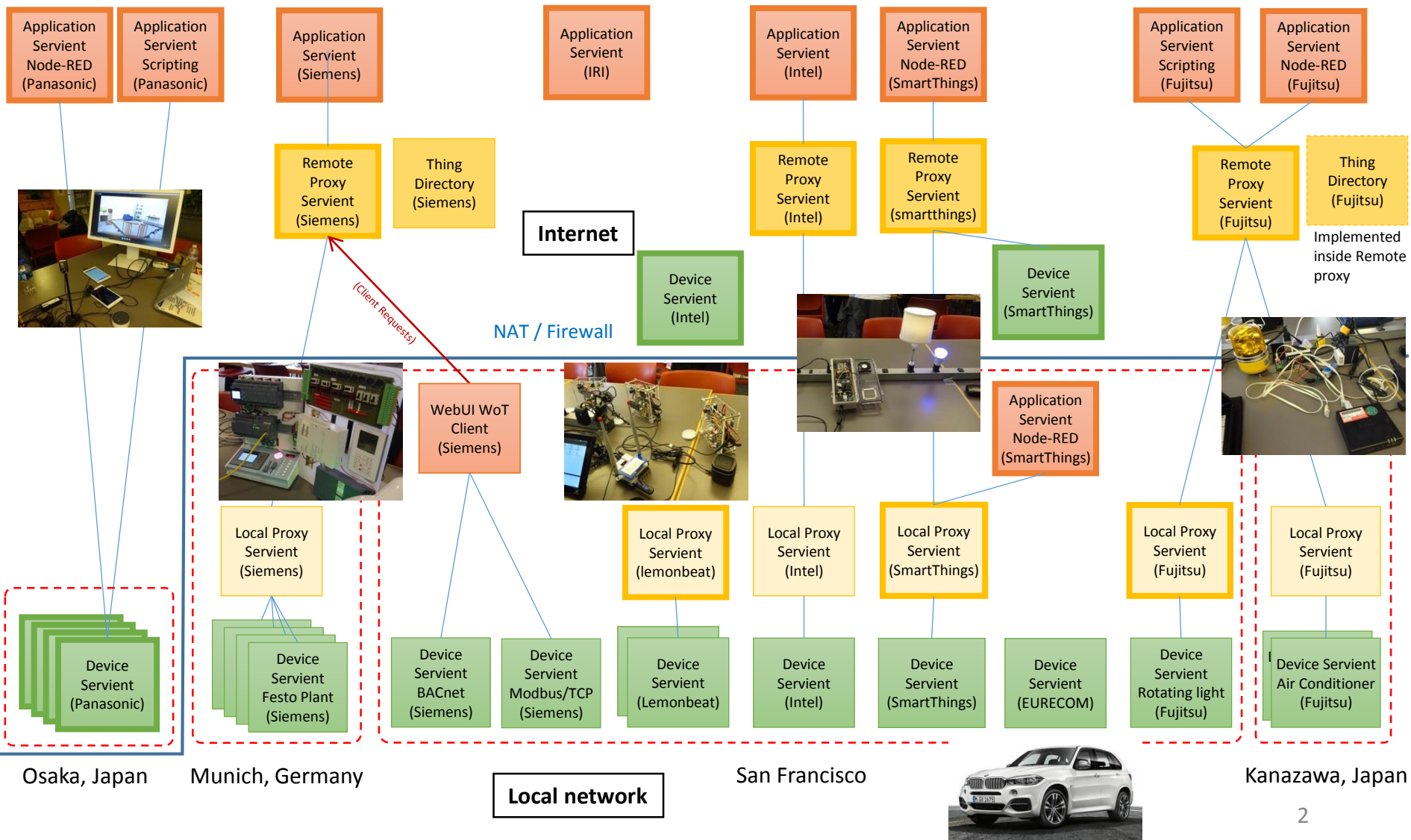
Ryuichi Matsukura

Fujitsu Laboratories Ltd. / Fujitsu Ltd.

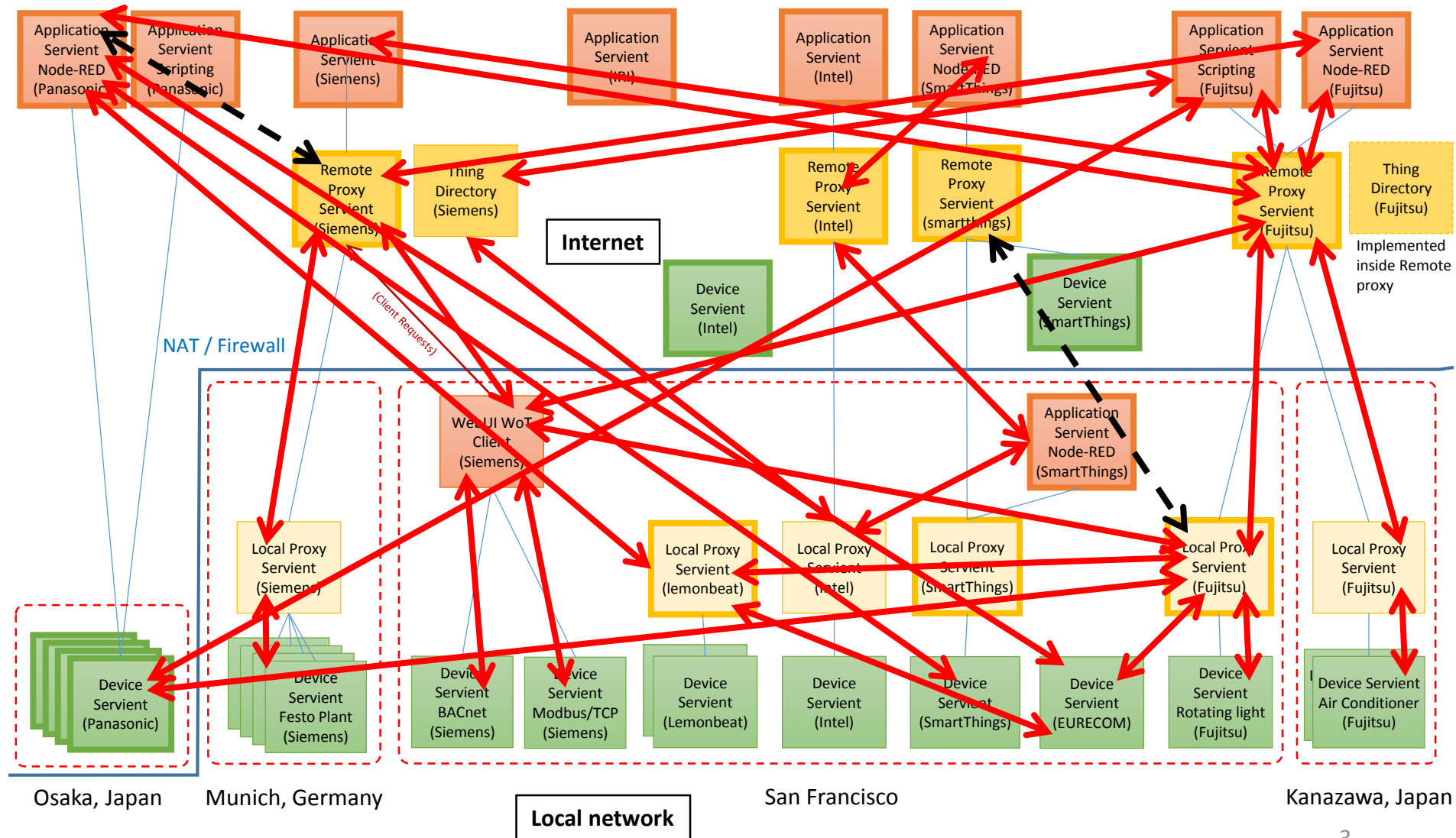
See TPAC2017 plugfest github

<https://github.com/w3c/wot/blob/master/plugfest/2017-burlingame/preparation.md>

Servients diagram on TPAC2017



TPAC2017 Plugfest results



Summary of achievements

- Proxy servients can help to set up a larger scale system
 - Proxy servients aggregate applications and devices to easily connect to each other.
- Connectivity and security
 - Some resolutions had been given for the local and the Internet connections including NAT / Firewall traversal.
- Many devices can connect using WoT framework
 - Sensors and actuators of house, building, factory and vehicle
 - ECHONET Lite, OCF, SmartThings, IPSO, BACnet, KNX, Lemonbeat, Modbus, EtherCAT, and VISS
- Applications are developed on Scripting API and Node-RED
 - Applications are connected to the proxies and the devices using external WoT Interface.

Issues for the next

- Inter-Servient Interface
 - Detailed specification is necessary for the plugfest participants
 - Some mismatches on the implementations: Action vs. Set, payload format, ...
- Architecture
 - 3 or 4 layer model should be specified to the architecture document
 - Some conflicts on definitions of proxy servients
- Connectivity and security
 - Interoperable firewall and NAT traversal patterns between remote/local proxies
 - Security consideration
- TD management
 - Thing directory
- Operations
 - Event
 - Action/Set to control the actuators

Action plans

- Plugfest call
 - Resume from the next Wednesday
- Plugfest guideline document
 - Detailed specification for the references
 - Part of them shall merge to WG documents, and others to notes or appendix.
 - Setup the document on IG repository