Fujitsu's preparation document
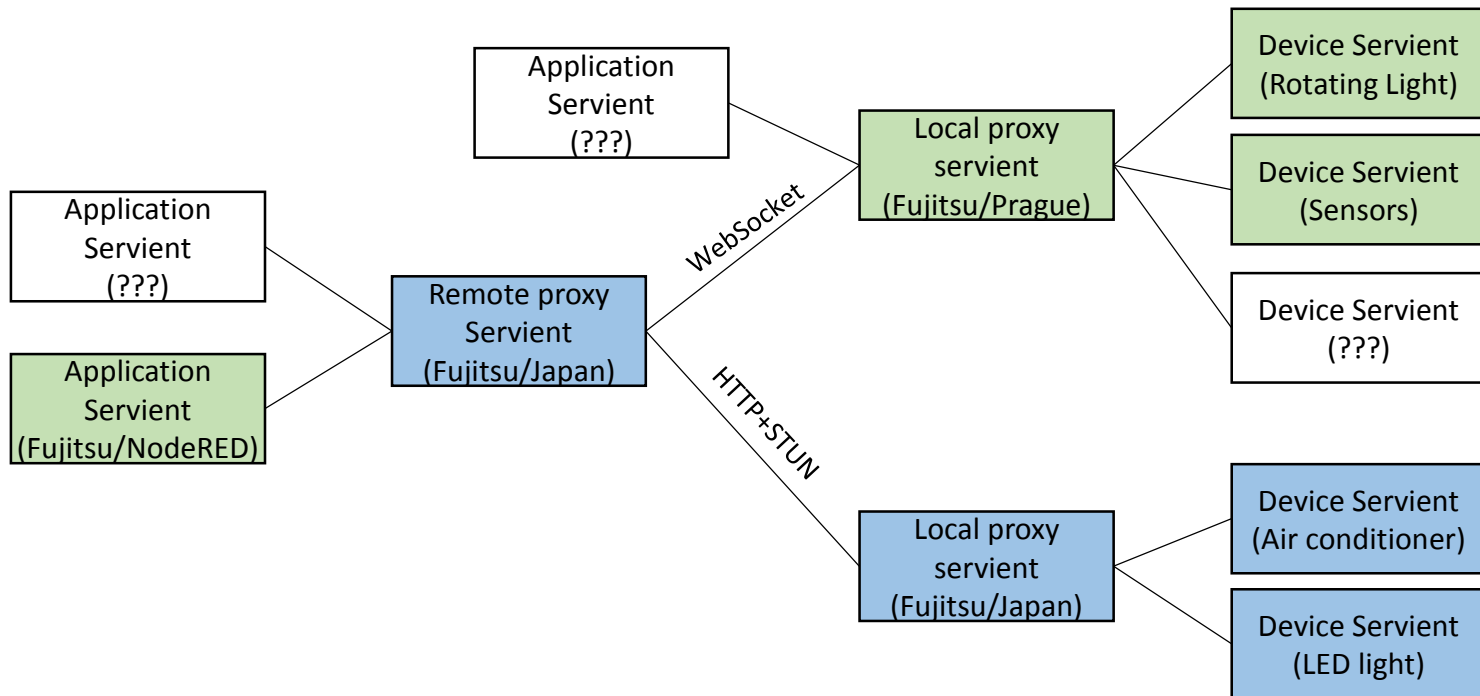
Feburary 28th, 2018

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Fujitsu's diagram for plugfest

- Fujitsu will provide 1 remote proxy and 2 local proxies for the plugfest.

- 1 local proxy is in Prague and another is in Japan. Devices participants bring will be connected to the local proxy in Prague.

- Applications can be connected to the Remote proxy or the local proxy on Prague.
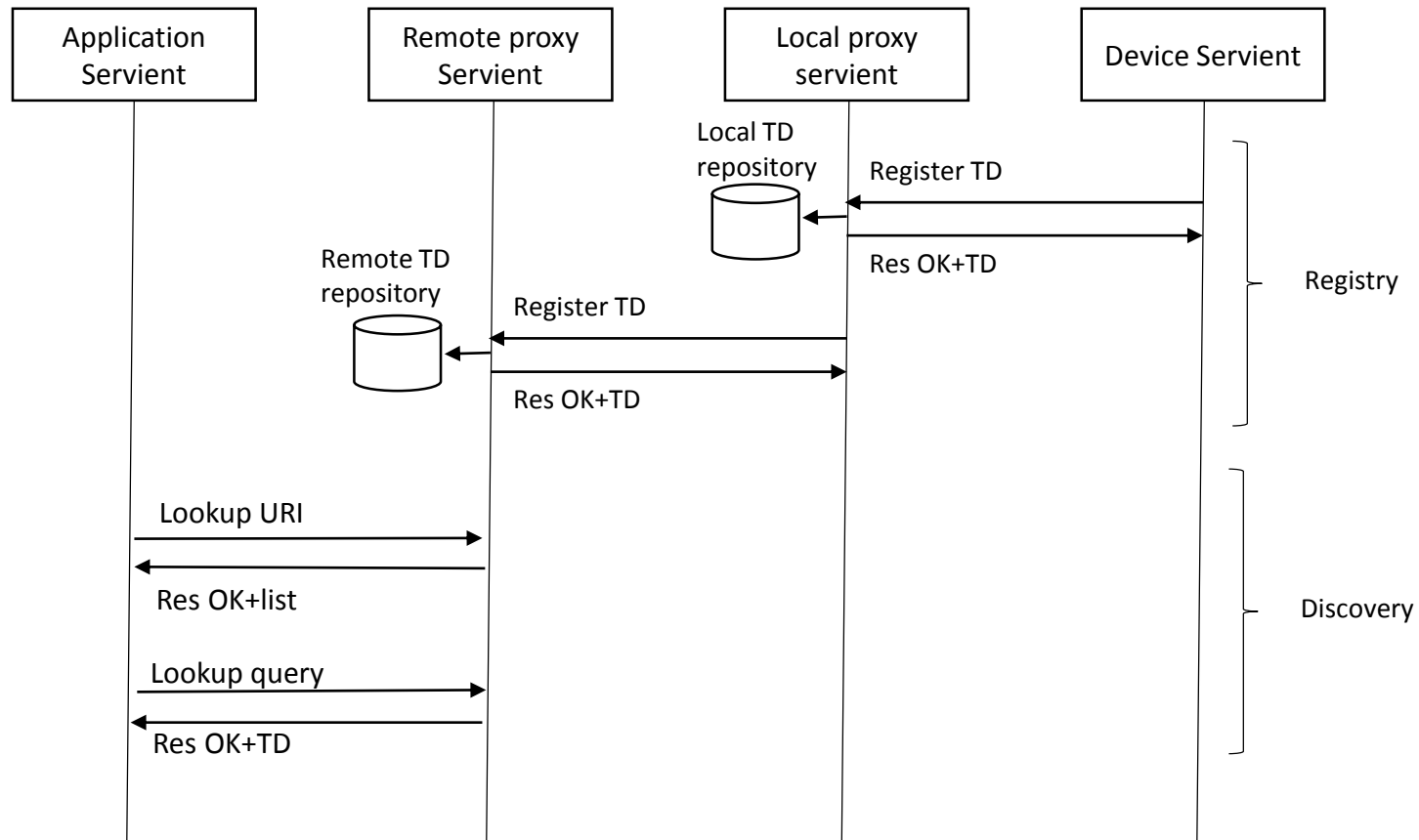
Example of TD for plugfest

```
{
  "@type"           : ["Thing"]
  ,"@context"          : [ "https://w3c.github.io/wot/w3c-wot-td-context.jsonld",
                   "https://w3c.github.io/wot/w3c-wot-common-context.jsonld" ]

  ,"name"            : "Fujitsu-RotaryBeaconLight"
  ,"base"           : "http://sspf.wot.fujitsu_demo.local:4000/Things/Fujitsu-RotaryBeaconLight/"
  ,"security"         : [{
                 "cat": "token:jwt",
                 "alg": "ES256",
                 "as": "https://plugfest.thingweb.io:8443/"
               }]
  ,"interaction":
   [
      {
        "@type"    : ["Property"]
              ,"name"     : "OperationStatus"
        ,"form"      : [ {
           "href" : "Property/OperationStatus",
           "mediaType": "text/plain"
        }]
        ,"writable"  : true
        ,"schema": { "type": "string" }
      }
   ]
}
```
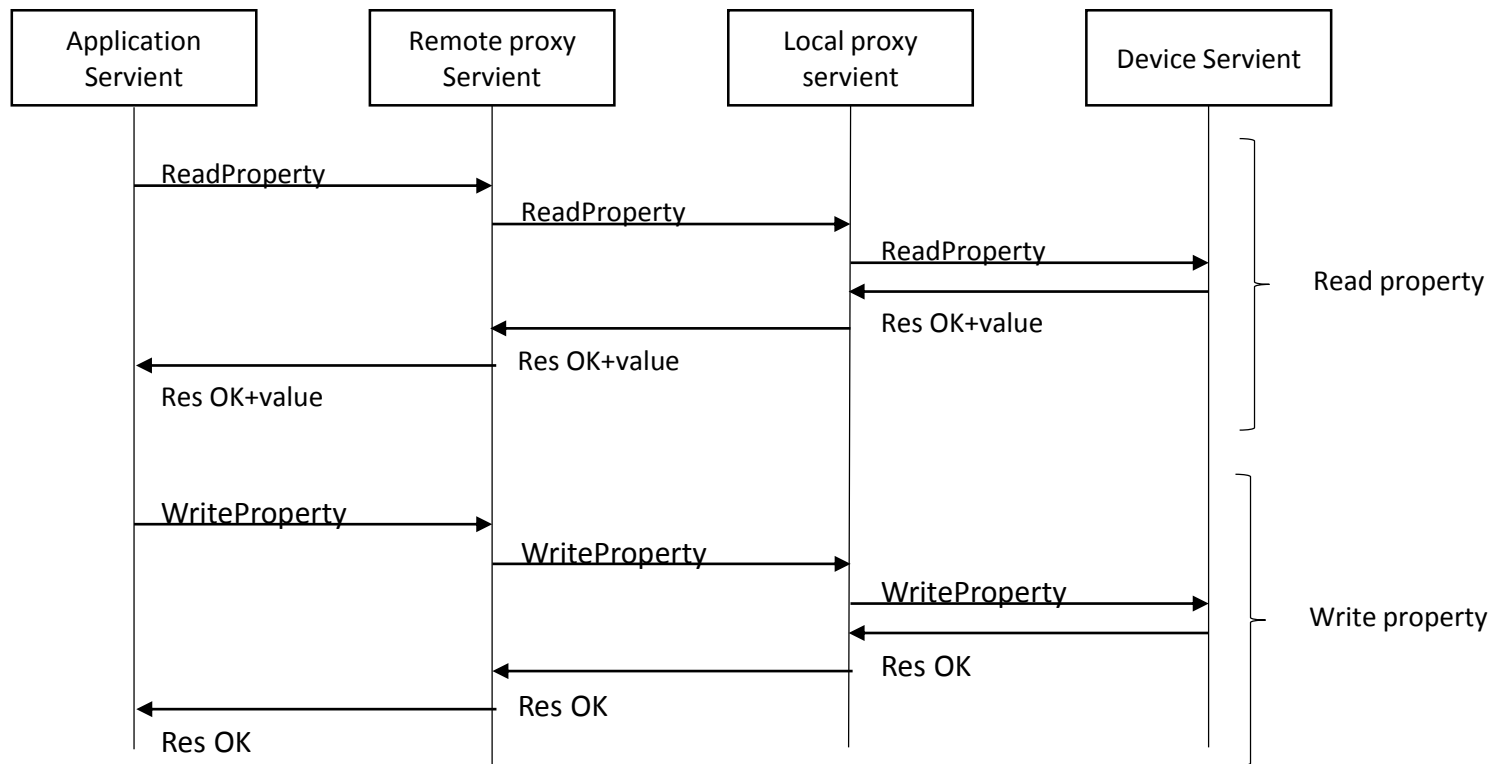
Registry and discovery of device

A device servient is registered to the local proxy servient and remote proxy servient. The proxy servient returned the TD with public uri. The proxy servients have TD repositories to store TDs registered from the other servients.

Read and Write Property

The application servient sends a request to read the value of the property of the device servient to the remote proxy servient. The remote and local proxy servient relay to this request to the device servient.

Event operation

The application servient sends a request to subscribe the property of the device servient to the remote proxy servient. The device servient keep to send the value of the specified property periodically.