

Modularization of TF Work

W3C WoT Face-to-Face Meeting

Dusseldorf, Germany, July 2017

Architecture TF

- WG (delivery deadline 2018)
 - Firewall/NAT traversal
 - Cloud Servient federation
- IG (validation)
 - PlugFest scenarios
- IG (explorative)

Thing Description TF

- WG (delivery deadline 2018)
 - TD core model
 - JSON-LD serialization
- IG (validation)
 - JSON serialization
- IG (explorative)
 - Binary (CBOR/EXI) serialization
 - Serialization benchmark

Binding Templates TF

- WG (delivery deadline 2018)
 - Vocabulary proposals for TD TF (under “link”)
 - HTTP(S)
 - CoAP(S)
 - OCF (supersedes OCF liasion TF/call)
 - OneM2M
 - WebSockets
- IG (validation)
 - Vocabulary proposals for TD TF (under “link”)
 - OMA LWM2M
 - Discovery (backing Discovery API)
- IG (explorative)
 - MQTT
 - SSE
 - Local communication (System Things, file:///...); check browser APIs

Scripting API TF

- WG (delivery deadline 2018)
 - Scripting API (signatures)
 - Servient Architecture
 - Support for semantic annotations and other TD customization
- IG (validation)
 - ManagerThing (as check that API is sufficient)
 - SystemThings (as check that API is sufficient)
 - Open source libraries for design patterns
- IG (explorative)

Security TF

- WG (delivery deadline 2018)
 - Review Editor's Drafts / release candidates (provide guideline how to use building blocks, what to do, what not to do)
 - Draft security consideration sections (to ensure building blocks do not open up security & privacy issues)
 - Servient security architecture
- IG (validation)
 - Support “technical TFs” (e.g., by summarizing other specifications and their security implications)
- IG (explorative)
 - Identity mangement across platforms
 - Control mechanisms bridging across platforms

LD and Semantics TF

- WG (delivery deadline 2018)
- IG (validation)
 - Use Scripting API to create semantically enhanced Things
 - Discovery API (semantic queries in different scopes)
- IG (explorative) - CG
 - Semantic annotations
 - Information models
 - Recipes (automatic orchestration)

Liaisons

- Active
 - OCF → Protocol Binding TF
 - OneM2M: Need more input to
 - OPC Foundation
- Potential
 - OpenFog
 - Fairhair Alliance
 - OMA LWM2M → Northbound? GotAPI?
 - Mozilla Project Things
 - EchoNet
 - Amazon Greengrass / IoT
 - Google Things