

WoT IG and WG Next Steps

WoT IG/WG F2F Meeting
Santa Clara, February, 2017

WoT Task Forces

- **WG**
 - **Architecture**
 - **Thing Description**
 - Type System (JSON Schema Extensions)
 - Hypermedia (Actions, error handling, ...)
 - **Scripting API**
 - **Binding Templates**
 - Security & Privacy
- **IG**
 - **Current Practices**
 - Testing (PlugFest scenarios)
 - Thing Lifecycle
 - Synchronization of Servients
 - Linked Data and Semantic Processing
 - Demonstrators

WG Architecture Task Force

- Has WG deliverable
- Editors
 - Kajimoto-san
 - Frank?
- Topics
 - Overall architecture (Thing, gateway, cloud)
 - Where to place Things and building blocks
 - Servient architecture
 - How to combine building blocks, what do they offer

WG Thing Description Task Force

- Has WG deliverable
- Editors
 - Sebastian
 - Taki
- Topics
 - Overall model
 - Prototype → graphical → RDF → serialization → ...
 - Framework to annotate vertical semantics
 - Type System (based on sub-team input)
 - Hypermedia (based on sub-team input)

WG Type System Team

- Sub-team to help TD
- Team
 - Daniel
 - Taki
 - Victor
 - Henry? (check Invited Expert status)
 - Gregg? (check Invited Expert status)
- Topics
 - JSON Schema extensions for semantics
 - Alignment with JSON-LD

WG Hypermedia Team

- Sub-team to help TD
- Team
 - Matthias
 - Henry? (check Invited Expert status)
 - ?
- Topics
 - Define model for complex Actions
 - Define error handling model
 - Align with Binding Templates

WG Scripting API Task Force

- Has WG deliverable
- Editors
 - Johannes
 - Zoltan
 - Nimura-san
- Topics
 - Language-independent API definition
 - Informational document on rationale
 - Ensure implementable in embedded runtimes and the Web browser
 - Part of the test suite

WG Binding Templates

- Has WG informal deliverable
- Editors
 - Matthias
 - Uday?
- Topics
 - Pull input from IG liaisons
 - Coordinate with TD Task Force

WG Security Task Force

- Needs to support other deliverables
- Lead
 - McCool (temp., Intel is checking for permanent lead, McAfee?)
 - Please make suggestions
- Topics
 - Outreach with good TF charter
 - Reach out to IETF sec area through I-Ds
 - Work with liaisons for platform security models

IG Current Practices

- Has IG deliverable
- Editors
 - Daniel
 - Matthias
- Topics
 - Document for implementers
 - Coordination of PlugFest

IG Testing Task Force

- Help WG with test suite
- Lead
 - Matthias (temp.)
 - McCool
- Topics
 - Prepare tests for PlugFest
 - Define “Test Thing” TD Template (to be backed by each implementation)
 - Create input for WG test suite

IG Thing Lifecycle Task Force

- Prepare proposal as input for WG
- Lead
 - Kajimoto-san
- Topics
 - Handle different lifecycle stages of Things
 - Thing Description Templates
 - Deriving more specific templates and actual TDs

IG “Synchronization” Task Force

- Prepare proposal as input for WG Architecture
- Find a descriptive name :)
- Lead
 - Matsukura-san
- Topics
 - Mechanisms for instantiating cloud mirrors
 - Mechanisms for synchronizing data
 - Prepare input for WG arch Task Force

IG Linked Data and Semantic Processing Task Force

- Lead
 - Dave (temp.)
 - Darko?
 - Danh? (wrap up Invited Expert procedure)
- Topics
 - Agree on charter

IG Demonstrators Task Force

- Lead
 - ?

WOT LIAISONS

OCF Liaison

- Joint meeting with OCF and T2TRG
 - Amsterdam, Netherlands, 6–10 March 2017
- Goals until next F2F
 - Demonstrate interop at PlugFest
(OIC if OCF spec is not published in time)
 - Compile input for TD Task Force
 - Compile input for Binding Templates Task Force

oneM2M Liaison

- Joint WebConf with oneM2M MAS WG (31 Aug2016)
 - Common interest identified on device modeling, semantics
- [Liaison](#) received from oneM2M (14 Nov 2016)
https://lists.w3.org/Archives/Public/public-wot-ig/2017Jan/att-0004/TP-2016-0294R01-LS_to_W3C_WoT.pdf
 - Latest update of oneM2M & proposing further collaboration
- oneM2M-W3C WoT Interworking created (Feb 2017)
- Goals until next F2F
 - Compile input for TD Task Force
 - Compile input for Binding Templates Task Force

OPC Foundation Liaison

- Presentation at OPC March meeting
 - Salzburg, Austria, 20–23 March 2017
- Goals until next F2F
 - Agree on strategy
 - Share example UA models
 - Roadmap for PlugFest contributions

Plattform Industrie 4.0 Liaison

- Negotiations for formal liaison
- Goals until next F2F
 - Define demonstrator
- Long term goals
 - Map W3C WoT to Asset Administration Shell
 - Bring PI4.0 demonstrator to PlugFest

IETF/T2TRG Liaison

- Next joint meeting
 - F2F July 2017, Düsseldorf, Germany
 - (also see T2TRG meeting with OCF in March 2017)
- Goals until next F2F
 - Harmonize hypermedia approach
 - Help with security Internet-Drafts

OpenFog Liaison

- Negotiations
- Goals
 - Make OpenFog aware of W3C WoT
 - Work on joint concept (deadline ~July 2017)

UPCOMING F2F MEETINGS

F2F Meeting May 2017, Osaka, Japan

- Hosted by Panasonic
- 15–19 May 2017
- 3 Months to work
- Todos
 - Populate wiki: Provide hotel list, collect topics, ...
 - Open registration (talk to Kaz about questionnaire)
 - Specify PlugFest requirements

F2F Meeting July 2017, Düsseldorf, Germany

- Hosted by RWE / Lemonbeat
- 9–13 July (+14 for T2TRG?)
- 2 months to work
- Todos
 - Arrange T2TRG co-location
 - Provide airport options for IETF goers

F2F Meeting November 2017, Burlingame, CA, USA

- At TPAC – might get new location
- 6–10 November 2017
- 4 months to work
- Todos
 - Request slots beginning of the week
 - PlugFest Preparation: Open space or room on Sunday (wired Ethernet uplink, power strips!)
 - PlugFest: Request full-day room or at least 3 hours on Wednesday
 - Plan observers/groups to meet (inbound + outbound)

F2F Meeting Feb/March? 2018, ?, ?

- Co-locate with security conference?
 - <https://www.internetsociety.org/events/ndss-symposium/ndss-symposium-2017> (San Diego)
- Co-locate with IETF?
 - **March 2018 - IETF 101**
 - March 18-23, 2018
Location: London, UK
Venue: Hilton Metropole
- Hosted by ?
 - Reach out to local companies
- Todos
 - Coordinate with IETF?
 - Organize academic conference workshop?

F2F Meeting May? 2018, ?, ?

- Co-locate with security conference
 - <http://www.ieee-security.org/TC/SP2017/index.html> (San Jose)
- Hosted by ?
- Look at calendars
- x months to work
- Todos
 - Organize academic conference workshop

F2F Meeting July 2018, ?, China?

- China?
- Hosted by Huawei? (→Yongjing)
- Look at calendars
 - IETF: July 22-27, 2018 (San Francisco)
- x months to work
- Todos

F2F Meeting Sep? 2018, ?, Aisa?

- At TPAC
- Look at calendars
 - IETF: November 4-9, 2018 (tbd)
- x months to work
- Todos

WG Roadmap

- 2017-02 (Santa Clara F2F)
 - Create GitHub repos
- 2017-05 (Osaka F2F)
 - Graphical and RDF model of TD
 - Editor's Drafts
 - RC for WoT Architecture First Public Working Draft (FPWD)
 - Start security review for WoT Architecture
- 2017-07 (Düsseldorf F2F)
 - Finish security review for WoT Arch. with Internet Drafts (“security concepts”) for internal security review and IETF outreach
 - Draft for test suite (Servient emulator with automatic checks)
 - Release First Public Working Draft (FPWD) of WoT Architecture
- 2017-11 (TPAC)
 - RCs for First Public Working Drafts
 - RC Implementations and Test Suite
 - Start security review
- 2018-03 (London? F2F)
 - Finish security review
 - Release First Public Working Drafts (FPWDs)
- 2018-05 (F2F at sec conf)
 - Aggressive testing / adverse security testing?
- 2018-07 (China? F2F)
- 2018-10
 - RCs for Candidate Recommendations
 - Start security review
- 2018-11 (TPAC)
 - Start release process
- 2018-12
 - Release Candidate Recommendations (CRs)