

T2TRG: Thing-to-Thing Research Group W3C WoT: Web of Things

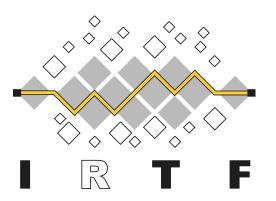
Workshop originally planned for Helsinki, FI, June 2020

T2TRG Chairs: Carsten Bormann & Ari Keränen W3C WoT Chairs: Michael McCool, Sebastian Käbisch

Note Well

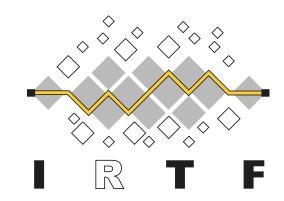
- You may be recorded
- We are nice, accommodating, and professional
- The IPR guidelines of the IETF apply: see http://irtf.org/ipr for details.

Note Well – Intellectual Property



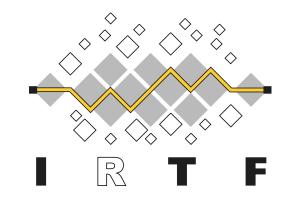
- The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules
- By participating in the IRTF, you agree to follow IRTF processes and policies:
 - If you are aware that any IRTF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion
 - The IRTF expects that you file such IPR disclosures in a timely manner in a period measured in days or weeks, not months
 - The IRTF prefers that the most liberal licensing terms possible are made available for IRTF Stream documents – see RFC 5743
 - Definitive information is in <u>RFC 5378</u> (Copyright) and <u>RFC 8179</u> (Patents, Participation), substituting IRTF for IETF, and at https://irtf.org/policies/ipr

Note Well – Privacy & Code of Conduct



- As a participant in, or attendee to, any IRTF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public
- Personal information that you provide to IRTF will be handled in accordance with the Privacy Policy at https://www.ietf.org/privacy-policy/
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this
- See <u>RFC 7154</u> (Code of Conduct) and <u>RFC 7776</u> (Anti-Harassment Procedures), which also apply to IRTF

Goals of the IRTF



- The Internet Research Task Force (IRTF) focuses on longer term research issues related to the Internet while the parallel organisation, the IETF, focuses on shorter term issues of engineering and standards making
- The IRTF conducts research; it is not a standards development organisation
- While the IRTF can publish informational or experimental documents in the RFC series, its primary goal is to promote development of research collaboration and teamwork in exploring research issues related to Internet protocols, applications, architecture, and technology
- See "An IRTF Primer for IETF Participants" RFC 7418

Administrivia (I)

- Blue Sheet, Note-Takers:
 https://is.gd/t2trg202006notes
- WebEx: https://is.gd/t2trg202006webex
- Mailing List: <u>t2trg@irtf.org</u> subscribe at: <u>https://www.ietf.org/mailman/listinfo/t2trg</u>
- Repo: https://github.com/t2trg/2020-06-helsinki

Administrivia (II)

- Halfway break ~1320Z..1340Z
- 1200Z–1500Z = (sorry): 0500–0800 PDT, 1400–1700 CEST, 2100–2400 JST

T2TRG scope & goals

- Open research issues in turning a true "Internet of Things" into reality
 - Internet where low-resource nodes ("things", "constrained nodes") can communicate among themselves and with the wider Internet
- Focus on issues with opportunities for IETF standardization
 - Start at the IP adaptation layer
 - End at the application layer with architectures and APIs for communicating and making data and management functions, including security

IRTF and IETF

IRTF (Research) T2TRG: open research issues with IETF potential

IETF
(Engineering)

CoRE: protocol engineering for RESTful environments

LWIG: Informational guidance for implementers

Work on IoT Semantic/Hypermedia Interoperability (WISHI): topics

- Modeling data and interaction for IoT
- REST-based hypermedia for IoT
- Connectivity for IoT
- In-network and edge computing for IoT
- Security for IoT
- Terminology

On topic today

T2TRG and W3C WoT

- One of the goals for T2TRG: facilitate coordination and collaboration between IETF/IRTF and other IoT related organizations
- Long history of common activities with W3C WoT
 - Face-to-face and online meetings
 - Technology development and exploration
 - Tool sharing, common hackathons

Time (UTC)	Subject	Who
1200Z	Welcome, Logistics	Chairs
1210Z	WoT Update	
	Use Case Process and Overview	Michael Lagally
1220Z	Lifecycle	Michael Lagally
	Discussion	
1250Z	WoT Discovery	Michael McCool
	Discussion	
1320Z	Break	
1340Z	WoT PoC Progress	
	Retail	Michael McCool/David Ezell
	Smart City	Michael McCool/Jennifer Lin
1400Z	OneDM/TD Integration	Michael Koster/ Sebastian Käbisch
	TD Templates; Modularity	
	Discussion	
1430Z	Hypermedia Controls in TDs and beyond (+ impact on RESTful design)	Victor Charpenay/Ege Korkan
	Actions and Events, Handling URLs	
	Discussion	
1500Z	Wrapup, end of meeting	Chairs