

T2TRG: Thing-to-Thing Research Group

W3C WoT: Web of Things

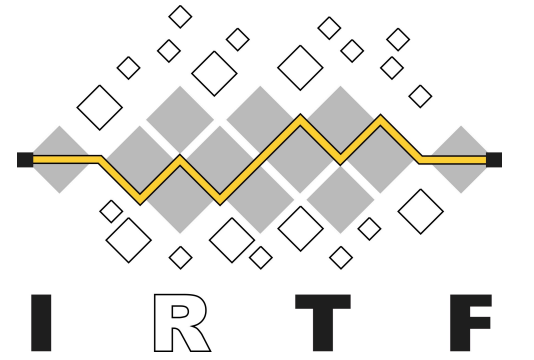
Workshop ahead of IETF 106, November 2019, Singapore, SG

Chairs: Carsten Bormann & Ari Keränen

Note Well

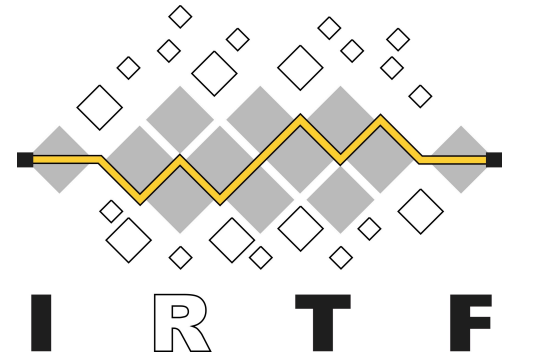
- You may be recorded
- The IPR guidelines of the IETF apply:
see <http://irtf.org/ipr> for details.

Note Well – Intellectual Property



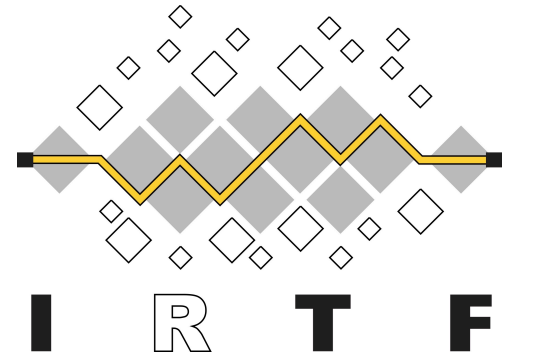
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- By participating in the IRTF, you agree to follow IRTF processes and policies:
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Note Well – Privacy & Code of Conduct



- 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/>
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- See RFC 7154 (Code of Conduct) and RFC 7776 (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)

- Pink Sheet
- Note-Takers
- **WebEx:**
<https://is.gd/t2trg201911webex>
- Mailing List: t2trg@irtf.org — subscribe at:
<https://www.ietf.org/mailman/listinfo/t2trg>
- Repo: <https://github.com/t2trg/2019-11-singapore>

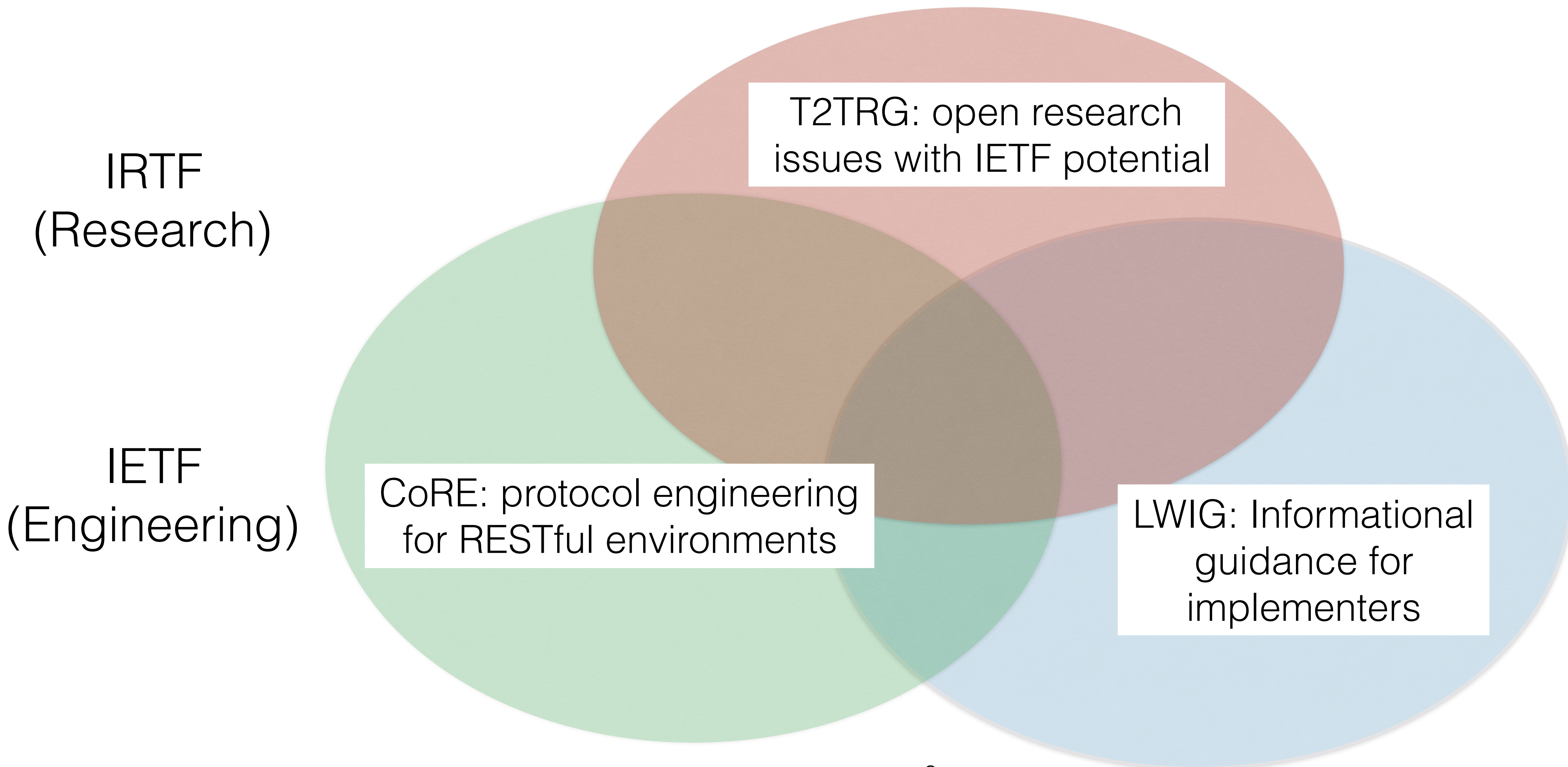
Administrivia (II)

- Coffee breaks ~10:00 and ~15:00
- Lunch break 12:00–13:00
- Room and catering sponsored by Intel: Thank you!
- (Self-paid) Workshop dinner near IETF hotel ~19:00

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



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

- Modeling data and interaction for IoT
- REST-based hypermedia for IoT
- Connectivity for IoT

On topic today

- In-network and edge computing for IoT
- Security for IoT
- Terminology