

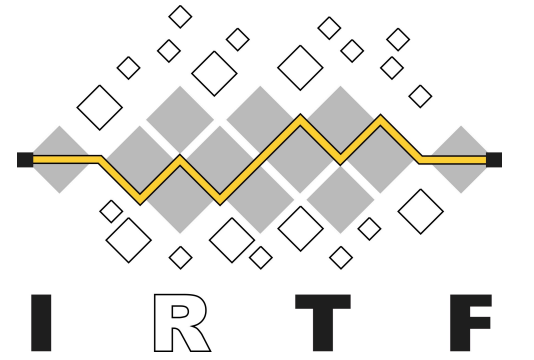
T2TRG: Thing-to-Thing Research Group

T2TRG Summary Meeting, December 12, 2022
Chairs: Carsten Bormann & Ari Keränen

Note Well

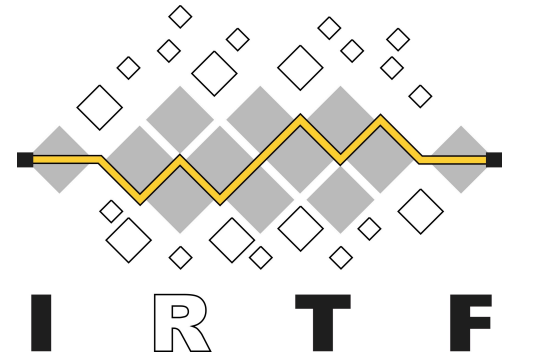
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- Be nice
- The IPR guidelines of the IETF apply:
see <http://irtf.org/ipr> for details.

Note Well – Privacy & Code of Conduct



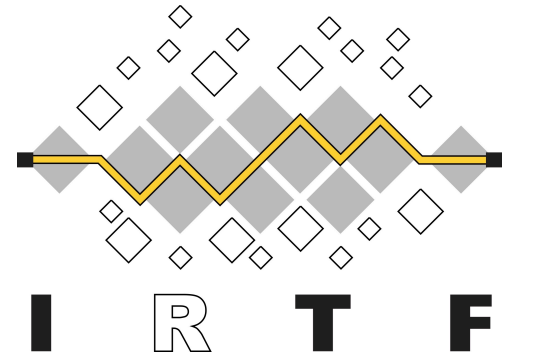
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Note Well – Intellectual Property



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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](#)

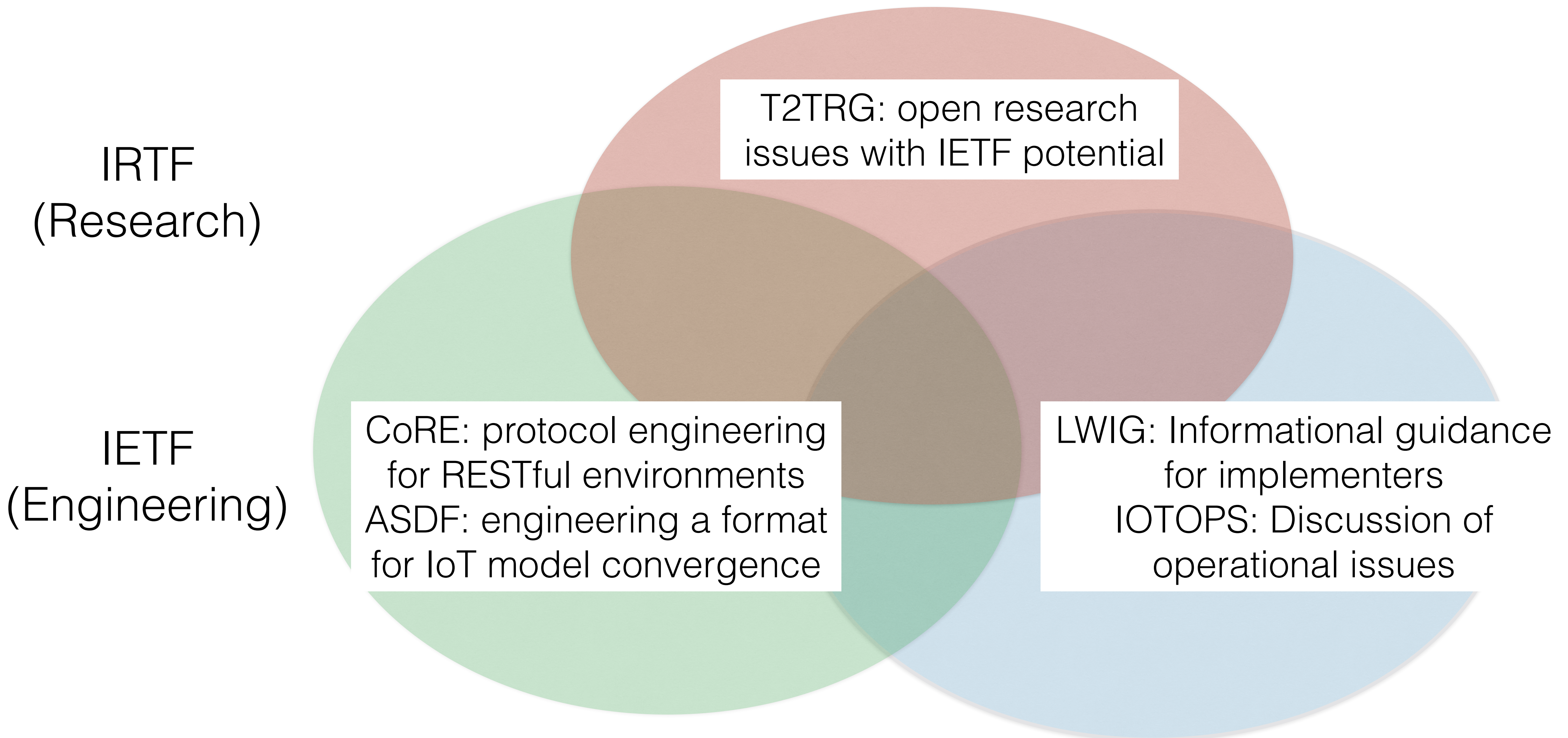
Administrivia (I)

- (Blue sheets maintained by meetecho)
- Note-takers: <https://notes.ietf.org/notes-ietf-interim-2022-t2trg-03-t2trg>
- Jabber (= Meetecho chat)
 - <xmpp:t2trg@jabber.ietf.org?join>
- Mailing List: t2trg@irtf.org — subscribe at:
<https://www.ietf.org/mailman/listinfo/t2trg>
- Repo: <https://github.com/t2trg/2022-12-summary>

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



Next meetings

- (Re)starting regular WISHI and SECCORE calls (~(bi-)monthly?)
- Summary meetings before/after IETF 116 & 117?
- Online meetings with other SDOs/alliances/open source communities?
- Further Work Meetings as needed?
- Physical meeting in 2023? F2F Fri before IETF 118 (Prague)?
- “Online co-locating” with academic conferences?

RG Doc Status

- Edge & IoT: RGLC & IRTF chair review done; IRSG review now
- RESTful Design for IoT: more PRs on the way
- Terminology and processes for initial security setup of IoT devices (was Secure IoT Bootstrapping): next slide

draft-irtf-t2trg-secure-bootstrapping

- New version –03
- Changes
 - Added initial beliefs/assumptions of the protocols
 - Added processes, i.e., steps for protocol completion
 - Added beliefs imparted, i.e., information configured
 - Added comparison of the different processes
- Reviews and feedback welcome

Agenda

Time (UTC)	Who	Subject	Docs
15:30	Chairs / draft authors	Intro, RG status, upcoming meetings and activities	t2trg-rest-iot t2trg-iot-edge t2trg-secure-bootstrapping
15:40	Göran Selander	SECCORE update	
15:50	John Mattsson	Amplification attacks using CoAP	mattsson-t2trg-amplification-attacks
16:05	Michael Richardson	Update on "A Taxonomy of operational security considerations for manufacturer installed keys and Trust Anchors"	richardson-t2trg-idevid-considerations
16:15	Michael Koster	OneDM and iotschema.org update	
16:25	Carsten Bormann	SDF update and status	
16:35	Jan Romann	Brief W3C WoT update, SDF/WoT conversion	
16:55	Ale Jarabo Peñas / Bin Xiao	Knowledge graphs for IoT Platform Digital Twins based on SDF	
17:25	Chairs	Wrap-up	
17:30	Chairs	end of meeting	