

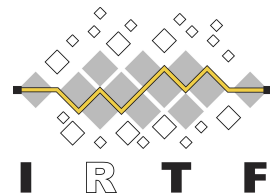
IETF 118

Quantum Internet Research Group

7 November 2023

This session is being recorded

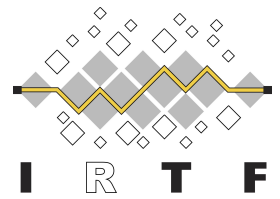
IETF 118
Prague



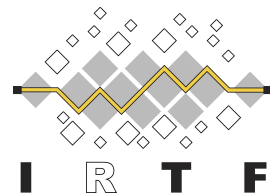
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Note Well – Audio and Video Recordings

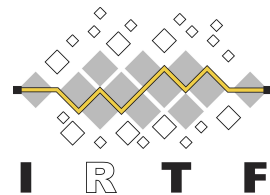


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- If you participate in person and choose not to wear a red “do-not-photograph” lanyard, then you consent to appear in such recordings, and if you speak at a microphone, appear on a panel, or carry out an official duty as a member of IRTF leadership then you consent to appearing in recordings of you at that time
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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](#)

IETF 118 Meeting Tips

This session is being recorded

In-person participants

- Make sure to sign into the session using the Meetecho (usually the “onsite tool” client) from the Datatracker agenda
- Use Meetecho to join the mic queue
- *Keep audio and video off if not using the onsite version*

Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session
- Use of a headset is strongly recommended

Tools

Use Meetecho "lite" link

Onsite tool

Onsite tool

panrg

Rodney Van Meter

00:23:36

Zulip needs your permission to enable desktop notifications.

panrg | 38 | <https://datatracker.ietf.org/rg/panrg/about/>

175

panrg ietf-118

Boris Khasanov
Yes, presenter's mic is quite low

Brian Trammell
better now?

Boris Khasanov
yes, thanks

Antoine Fressancourt
better, thanks

Today

21:13

21:13

21:14

21:14

USERS

- Rodney Van Meter
- Acee Lindem
- Ahmed Elhassany
- Alan Frindell
- Alejandro Sedeño
- Alex Chernyakhovskiy
- Alex Huang Feng
- Alison Becker
- Alissa Cooper
- Allison Mankin
- altanai
- Anders Kölligan
- Andrew Camppling
- Andrew Crawford
- Anthony Somerset

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panrg

Rodney Van Meter

00:00:42

Quantum Internet Research Group

QIRG

@IETF118 Prague

7 November 2023

Chair slides

Rodney Van Meter

Wojciech Kozlowski

Agenda

- Administrivia + RG Status + hybrid meeting issues (5 min)
- A multi-plane architecture for the Quantum Internet, inspired on the lessons learned from QKD deployments (20 min)
- DemoQuanDT: Controlling Quantum Key Distribution Networks (20 min)
- The difficulty of Quantum Cryptography in presence of packet losses (20 min)
- Quantum Internet Addressing (20 min)
- Towards the integration of 6G and the Quantum Internet (15 min)
- Quantum computing and communication integration in operational environment in view of current EuroQCS and EuroQCI activities (15 min)
- Rodney Van Meter pitch for shared work (5 min)

RG Status

- draft-irtf-qirg-quantum-internet-use-cases
 - In IESG review

Relevance of QKD to the QIRG

- Europe is building a Quantum Communications Infrastructure today (EuroQCI).
- At the physical layer, the technology is different, but at the control and management layers there does not need to be such a strict separation.
- Various parties are already looking into these potential synergies in Europe.



<https://petrus-euroqci.eu/>