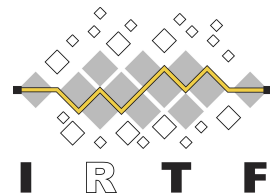


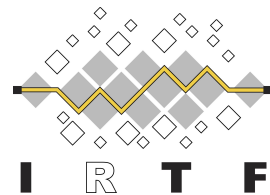
Note Well – Intellectual Property

- The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules.
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 - 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
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 - Definitive information is in RFC 5378 (Copyright) and [RFC 8179](#) (Patents, Participation), substituting IRTF for IETF, and at <https://irtf.org/policies/ipr>



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- 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 [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](#)

Quantum Internet Research Group

QIRG

@IETF109 Online

16 November 2020

Chair slides

Rodney Van Meter

Wojciech Kozlowski

Agenda

- Administrivia + RG Status (10 min)
- Measurement Device Independent (MDI) Quantum Key Distribution (QKD) and the Quantum Internet (20 min)
Joshua A. Slater
- draft-irtf-qirg-quantum-internet-use-cases (15-20 min)
Chonggang Wang
- draft-irtf-qirg-principles (15-20 min)
Wojciech Kozlowski
- Open Floor (30 min)

QIRG Blog Post

- In July, the Department of Energy in the USA announced America's Blueprint for the Quantum Internet
- <https://www.energy.gov/articles/quantum-internet-future-here>
- Wojtek and Rod wrote a short blog post in the IETF blog to promote the QIRG activities
- <https://www.ietf.org/blog/quantum-internet/>

31 Aug 2020

The Internet Research Task Force (IRTF) Open Meeting at the IETF 101 in London had a rather curious point on the agenda: "Vision for a QIRG: Quantum Internet Research Group". With the hype around quantum computing growing every year, it was only natural that some people would start asking whether the Internet could also benefit from the quantum revolution.



And thus, that Open Meeting has resulted in the formation of the [Quantum Internet Research Group](#) (QIRG) in the IRTF. Following an evaluation

Document Status

- draft-irtf-qirg-principles
 - Ready for RG last call
- draft-irtf-qirg-quantum-internet-use-cases
 - Almost ready for RG last call
- Three expired drafts (but people keep asking about them)
 - draft-van-meter-qirg-quantum-connection-setup
 - draft-dahlberg-ii-quantum
 - draft-kaws-qirg-advent

QIRG Next Steps

- Focus on education, mostly through seminars from researchers on up-to-date subjects and topics (e.g. upcoming “MDI-QKD and the Quantum Internet”)
- Will potentially shift to fewer IETF meetings in favour of virtual interims focussed seminars and discussions
- Internet-Draft/RFC work can keep going, will still meet at IETF meetings