Measurement and Analysis for Protocols

Research Group (maprg)

Prague, March 28, 2019

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Intellectual Property Rights (IPR)

The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules. This is a summary of these rules as they relate to IRTF research group discussions, mailing lists and Internet Drafts:

• If you include your own or your employer's IPR in a contribution to an IRTF research group, then you must file an IPR disclosure with the IETF.

• If you recognize your own or your employer's IPR in someone else's contribution and you are participating in the discussions in the research group relating to that contribution, then you must file an IPR disclosure with the IETF. Even if you are not participating in the discussion, the IRTF still requests that you file an IPR disclosure with the IETF.

• Finally, the IRTF requests that you file an IPR disclosure with the IETF if you recognize IPR owned by others in any IRTF contribution.

The IRTF expects that you file IPR disclosures in a timely manner, i.e., in a period measured in days or weeks, not months. The IRTF prefers that the most liberal licensing terms possible are available for IRTF Stream documents, see RFC 5743. You may file an IPR disclosure here: http://www.ietf.org/ipr/file-disclosure

See RFC 8179 (BCP 79) for definitions of "IPR" and "contribution" and for the detailed rules (substituting "IRTF" for "IETF").

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF 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.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- 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.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/ (Privacy Policy)

Administrivia

- Charter: https://datatracker.ietf.org/group/maprg/charter/
- Mailing List: maprg@irtf.org
  Subscriptions: https://www.irtf.org/mailman/listinfo/maprg
- Today's slides: https://datatracker.ietf.org/meeting/104/session/maprg/
- Etherpad note-taking: http://etherpad.tools.ietf.org/p/notes-ietf-104-maprg
- Remote participation
  Audio: http://mp3.conf.meetecho.com/ietf/ietf1044.m3u
  Meetecho: http://www.meetecho.com/ietf104/maprg
  Jabber: xmpp:maprg@jabber.ietf.org?join

Introduction & Overview

- We posted a Call for Contributions (CfC) on mailing list (January 28) and received ~10 proposed contributions; a couple were out of scope or didn't fit in this short meeting; 7 will be presented today.

  Thanks for the proposals!
  Please supply abstract with details on measurement results.
  We will continue to include "ads" for projects and works for which there wasn't time for presentation in the agenda.

- We also posted a Call for Participants/Projects IETF 104 Hackathon (January 28); two participants responded in advance and two more joined at the MAP project(s) table at the hackathon.

Agenda

10m **Intro & Overview, "MAP – Live" Hackathon Projects Report** *(chairs)*

5m *Heads-up talk:* **Micro-Dependability Measurements** *(Olav Kvittem)*

10m **Performance of Web Protocols over Satellite Links** *(Joerg Deutschmann)*

15m **DNS Observatory: Monitoring Global DNS Performance for Security** *(Paweł Foremski & Oliver Gasser)*

15m **EDNS Compliance Status of Resolvers** *(Jeisson Sánchez)*

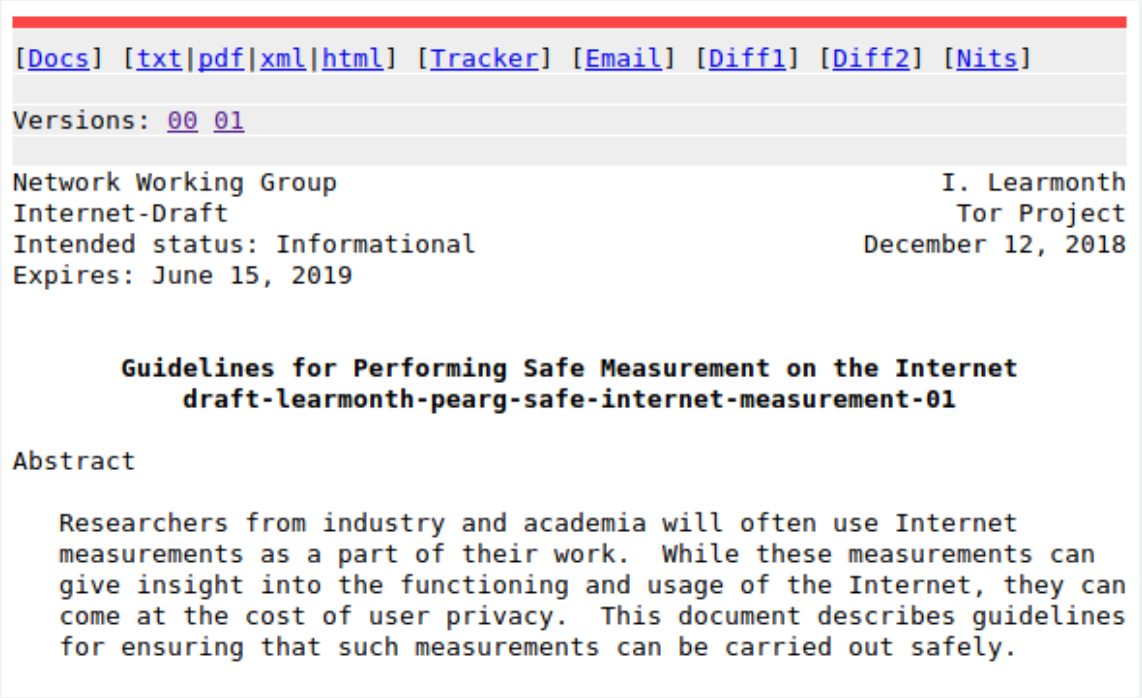
15m **FloodBox: a Tool for Measuring the Impach of IP DiffServ Code Point in the Internet** *(Runa Barik)*

10m **Native SCTP, DCCP, UDP-Lite and Home Gateway NATs** *(Runa Barik)*

Time permitting: **QUIC Connection Migration - Deployment and Results** *(Cherie Shi)*

draft-learmonth-pearg-safe-internet-measurement

- Summary of existing literature
- Collection of best practices
- Aimed at:
  - Academic researchers
  - Industry researchers
  - Telemetry/analytics developers
  - Protocol designers
- Comments welcome on PEARG mailing list
- Active issues on GitHub:
  - https://github.com/irl/draft-safe-internet-measurement



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Versions: 00 01

Network Working Group — I. Learmonth
Internet-Draft — Tor Project
Intended status: Informational — December 12, 2018
Expires: June 15, 2019

Guidelines for Performing Safe Measurement on the Internet
draft-learmonth-pearg-safe-internet-measurement-01

Abstract

Researchers from industry and academia will often use Internet measurements as a part of their work. While these measurements can give insight into the functioning and usage of the Internet, they can come at the cost of user privacy. This document describes guidelines for ensuring that such measurements can be carried out safely.

Towards line-rate, unsampled flow measurements using P4

- exploratory work on the feasibility of flow measurements on 40G/100G/400G links using programmable P4 switches
- main goal: accurate, flexible measurements in open-source fashion
- proof-of-concept implemented, promising first results

We are interested in:

- any other experiences with (stateful) P4 programming
- discussions about requirements / deployability of such a measurement system
- further explaining you what this is all about

Get in touch:

- either here in person, or via `luuk.hendriks@utwente.nl`

ANRW 2019

Applied Networking Research Workshop

The ACM, IRTF & ISOC Applied Networking Research Workshop 2019 (ANRW'19) is an academic workshop that provides a forum for researchers, vendors, network operators, and the Internet standards community to present and discuss emerging results in applied networking research. The workshop offers an opportunity for academics **to transition research back into IETF standards and protocols and to find inspiration from topics and open problems discussed at the IETF**. The workshop will consist of a mix of invited talks, submitted talks, and submitted short papers.

ANRW '19 particularly encourages the submission of results that could form the basis for future engineering work in the IETF, that could help better specify Internet protocols, that could change operational Internet practices, or that could influence further research and experimentation in the IRTF. ANRW '19 is sponsored by ACM SIGCOMM, and the Internet Research Task Force (IRTF).

'Parc de Dieppe' by Marc-Olivier Jodoin on Unsplash

The ANRW '19 takes place in Montreal, Quebec, Canada, the venue of the IETF-105 meeting , on Monday, July 22, 2019.

Important Dates

Paper submission deadline	May 10, 2019
Paper notification deadline	June 7, 2019
Camera-ready paper deadline	June 21, 2019

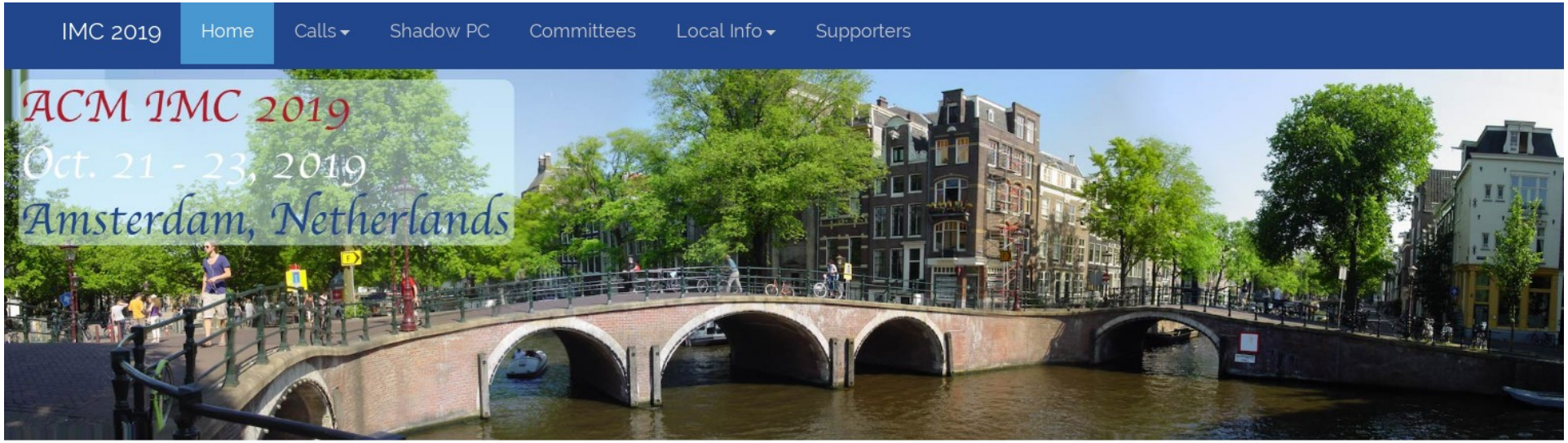
ACM SIGCOMM 2019 Workshop on the Evolution, performance, and Interoperability of QUIC (EPIQ 2019)

https://conferences.sigcomm.org/sigcomm/2019/workshop-epiq.html

The ACM SIGCOMM Workshop on the Evolution, Performance, and Interoperability of QUIC (EPIQ) seeks to foster the emerging QUIC community. We invite researchers from academia and industry as well as engineers to explore novel ideas and future directions of QUIC and its interaction with applications and networks.

Paper submission deadline: 15 April 2019

Chairs: Lars Eggert and Jörg Ott



ACM Internet Measurement Conference 2019

Call for papers

Important Dates

Paper registration (with abstract)	Monday **May 6, 2019** at 5PM PDT (UTC-7)
Paper submission	Monday **May 13, 2019** at 5PM PDT (UTC-7)

https://conferences.sigcomm.org/imc/2019/

https://conferences.sigcomm.org/imc/2019/shadow/

IMC 2019 Shadow PC

Background

To provide an educational experience by exposing students to a review process ACM IMC 2019 TPC would like to make submitted papers available to the shadow submitted papers and go through the reviewing process, ultimately arriving at a about the peer-review process and gain experience as a reviewer.

The shadow PC process is run on a different system and the shadow PC reviewe data such as relative rankings. Shadow PC reviewers will have to abide by the sa to, rules against discussing the papers outside of the PC context, or using in any reviews (i.e., external reviews) are not allowed for the shadow PC.

Shadow PC Chairs (contact: imc19shadowtpcchairs@lists.fu-berlin.de)

- Matthias Wählisch (Freie Universitat Berlin)
- Gareth Tyson (Queen Mary University of London)
- Eric Osterweil (George Mason University)

Important Dates

Deadline to apply for Shadow PC	May 1, 2019 (Midnight Pacific time)
Notification of acceptance	May 7, 2019
Shadow review deadline (1st round reviews)	June 15, 2019
Shadow review deadline (2nd round reviews)	July 15, 2019
Shadow online discussion period	July 15 - July 25, 2019
Shadow PC meeting (online)	July 26, 2019
Shadow PC meeting (in-person)	July 29, 2019