

# How Ossified is the Protocol Stack?

Proposed Research Group (hopsrg)  
Yokohama, Nov 2, 2015

preliminary chairs:

Brian Trammell <[ietf@trammell.ch](mailto:ietf@trammell.ch)>

Mirja Kühlewind <[mirja.kuehlewind@tik.ee.ethz.ch](mailto:mirja.kuehlewind@tik.ee.ethz.ch)>

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# Administrativa

## **Proposed charter**

<https://datatracker.ietf.org/doc/charter-irtf-hopsrg/>

## **Mailing list**

[hops@ietf.org](mailto:hops@ietf.org) (inherited from Bar BoF in Dallas)

## **Today's slides**

<https://datatracker.ietf.org/meeting/94/materials.html#irtf>

## **Remote participation**

**Audio:** <http://ietf94streaming.dnsalias.net/ietf/ietf943.m3u>

**Meetecho:** <http://www.meetecho.com/ietf94/hopsrg>

# Renaming the (Proposed) RG

- Goal: Broaden/adjusting the scope
- Should we keep the same acronym?
- Any ideas?

# Data and Publication

- Much insight can be gained from data that cannot be published, attributed, or otherwise openly discussed.
- How open should the research group be?
  - Some meetings under different than Note Well rules (e.g. Chatham House)?
  - ...

# Agenda

**9:00** Intro & Overview (*chairs*)

## **Measurement Platforms**

**9:15** Overview of CAIDA Ark (*k claffy, CAIDA*)

## **Measurements**

**9:30** Comparing TCP and UDP(QUIC) packet reordering (*Ian Swett, Google*)

**9:25** Informing Protocol Design Through Crowdsourcing: the Case of Pervasive Encryption (*Anna Maria Mandalari, UC3M*)

**9:45** Analyzing the Impact of Middleboxes in the Upgrade Mechanism in HTTP2 (*Pedro Aranda, Telefonica*)

**10:00** Access Network Measurement Results (*Joachim Fabini, TU Vienna*)

**10:15** Results from wide testing of ECN by Apple (*Tommy Pauly, Apple*)

## **Measurement Tools and Methodology**

**10:30** Collaborative Research Proposal: an In-Band Traceroute Service (*Dave Plonka, Akamai*)

**10:45** A Middlebox Impairment Observatory (*Brian Trammell, ETH Zurich*)

# Future Work

- Do we need a facility to collect measurement data?
- Do we need a common data model to compare measurement data from different sources?
- Should we organize the next meeting outside of the IETF, e.g. research workshop co-located with measurement conference?