

# TSVAREA@IETF104

Spencer Dawkins, Mirja Kühlewind, and Magnus Westerlund



# 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.

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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)



**I E T F**



# Agenda - Tuesday Afternoon session I

- Administrivia - ADs - 10 min  
Note Well and Agenda Bash  
State of the Area and Other News
- Handling of Co-affiliation of ADs - Magnus and Mirja - 15 minutes
- Transport Talks
  - MASQUE, obfuscating networking applications behind an HTTPS web server - David Schinazi - 15 minutes
  - Logging, tooling and debugging for modern network protocols - Robin Marx - 30 min
  - QUIC tracing at Google - Victor Vasiliev - 30 min
  - Quic logging and in-network measurements - Jari Arkko - 5 minutes
- Open Mike - ADs - balance of time  
Please tell us anything we need to know, especially to do better in the future  
**(Hint: this is your last chance to blame the outgoing AD!)**

Please welcome  
Magnus Westerlund,  
incoming TSV AD!



# TSV Area Review Team (TSVART) UPDATE

Thank you for serving, **and for providing reviews since IETF 103**

Allison Mankin

Bernard Aboba

Olivier Bonaventure (new!)

David Black

Wes Eddy

Gorry Fairhurst (new!)

Jana Iyengar

Jörg Ott

Tommy Pauly (new!)

Colin Perkins

Michael Scharf

Martin Stimerling

Joe Touch

Brian Trammell

Michael Tüxen

Magnus Westerlund

Nishida Yoshifumi

***Thanks! These reviews really help the ADs***

***We are still recruiting additional reviewers.***

***If you'd like to help, please tell Magnus and Mirja***

Triage team - Wes Eddy, and Martin Stimerling (***we'd like to replace Magnus!***)

# Current TSV Working Groups

See <https://datatracker.ietf.org/group/all-status/> for status information!

- **ALTO** - Mirja
- **DTN** - Magnus
- **IPPM** - Mirja
- **MPTCP** - Mirja
- **NFSv4** - Magnus
- **QUIC** - Magnus
- **RMCAT** - Mirja
- **TAPS** - Magnus
- **TCPINC** - Mirja
- **TCPM** - Mirja
- **TRAM** - Magnus
- **TSVWG** - Magnus

# TSV Documents since the last IETF meeting

## Approved

draft-ietf-rmcat-eval-test-09

draft-ietf-tsvwg-fecframe-ext-08

## RFC Editor Queue

draft-ietf-nfsv4-mv0-trunking-update-05

draft-ietf-rmcat-video-traffic-model-07

draft-ietf-tram-stunbis-21

draft-ietf-tsvwg-le-phb-10

## RFCs Published

RFC 8468 (was draft-ietf-ippm-2330-ipv6)

RFC 8511 (was draft-ietf-tcpm-alternativebackoff-ecn)

RFC 8540 (was draft-ietf-tsvwg-rfc4960-errata)

RFC 8545 (was draft-ietf-ippm-port-twamp-test)

# Using HTTP/2 as Transport

- **Using HTTP/2 as a Transport for Arbitrary Bytestreams**  
was discussed in TSVWG earlier today.
  - <https://tools.ietf.org/html/draft-kinnear-httpbis-http2-transport-01>
- Related to later Topic



# Other related talks

- Measurement and Analysis for Protocols Research Group (maprg)
    - **Performance of web protocols over satellite links** - Joerg Deutschmann
    - **QUIC Connection Migration - deployment and results** - Cherie Shi
    - **Native SCTP, DCCP, UDP-Lite and Home Gateway NATs** - Runa Barik
    - **FloodBox: A tool for Measuring the Impact of IP DiffServ Code Point in the Internet** - Runa Barik
- **Thursday** Morning session II 10:50-12:20 - room: Congress Hall 2

# HotRFC conversations relevant to Transport Area

- 5. Fast Congestion Response for Data Center - Roni Even
- 7. Multipath transmission for UDP or IP - Markus Amend
- 8. Performance Implications of PATH Characteristics (PIPC) - Spencer Dawkins
- 9. Localized Optimizations On Path Segment (LOOPS) - Yizhou Li  
Carsten Bormann
- 10. Hyperscale HPC and RDMA - Paul Congdon
- 15. Technology Deep Dive on Modern Router Design - Alvaro Retana  
Karen O'Donahue  
Spencer Dawkins

***<https://datatracker.ietf.org/meeting/104/materials/agenda-104-hotrfc>***

# Will transport innovation break the Internet?

- Shipping transport as part of application bypasses the gatekeepers
  - Imagine apps + service competing for “best” transport
- Whether the Internet will break is debatable
  - Taking a lot of abuse already, still working
  - But there could still be breakage
- In any case, can we make the Internet more resilient?
  - Deploy AQM? Which AQM?
- Discussion on ICCRG mailing list
  - <https://www.irtf.org/mailman/listinfo/iccrgr>

# Conflict of Interest Handling

# Mirja and Magnus are now both Ericsson employees

This increases the risk for conflict of interest situations!

- In situations where there are a potential conflict of interest, we will hand-over to an AD from another area, such as:
  - IPR issues involving Ericsson IPR or employees
  - AD sponsoring documents with Ericsson authors
  - Where AD is required to do a consensus call for a contentious issue involving Ericsson
  - If all WG chairs are Ericsson in a WG
  - In case of complaints on a WG chair that is Ericsson
- A situation which we don't expect to normally be an issue:
  - Some author is Ericsson on a WG consensus document
    - If there are specific contentious issues with document

# Why we are in this situation

- Magnus was only TSV AD candidate
- When it was likely that Ericsson would hire Mirja it was December
- If there had been other good AD candidates at that time Magnus could have dropped out
- Mirja's hiring wasn't final until just before the Nomcom announcement
- Magnus Conclusion:
  - If you had run we could have avoided the situation
  - Please don't hesitate to run against other people
  - Give Nomcom a choice, there might be reasons you don't know about
  - I could have needed to drop out for family reasons

# Future TSV AD candidates

- Mirja's term ends in March 2020
- Magnus plans to do one term (2 years), and that term ends in March 2021
- Nomcom typically asks for nominees in August
- This is your chance
  - Run this year
  - If you don't run this year, run next year



*If you have questions about what it means to be AD please ask us!*

# Transport Topics



# Topic: MASQUE, obfuscating networking applications behind an HTTPS web server

<https://tools.ietf.org/html/draft-schinazi-masque-00>

*Presenter: David Schinazi*  
*15 minutes*

Topic: Logging, tooling and debugging  
for modern network protocols

*Presenter: Robin Marx*

*20 minutes + 10 minutes for Q&A*

Topic: QUIC tracing at Google

*Presenter: Victor Vasiliev*

*20 minutes + 10 minutes for Q&A*

# Topic: Quic logging and in-network measurements

*Presenter: Jari Arkko*  
*5 minutes*

# Open Mike

*What does TSV need to know?*

*What does TSV need to do differently?*