

# Management Techniques in Encrypted Networks

IAB M-TEN Workshop

October 17-19 2022

# Goals

Explore the interaction between network management and traffic encryption

Initiate new work on collaborative approaches that promote security and user privacy while supporting operational requirements

# Questions

What are actionable network management requirements?

Who is willing to work on collaborative solutions?

What are the starting points for collaborative solutions?

# Schedule

Day 1: Where we are

*October 17*

*Chair: Tommy Pauly*

Day 2: Where we want to go

*October 18*

*Chair: Mallory Knodel*

Day 3: How we get there

*October 19*

*Chair: Wes Hardaker*

# Day 1: Where we are

October 17

## The state of network measurement and traffic classification

15m + 5m - Chase Jiang

*Towards Designing Robust and Efficient Classifiers for Encrypted Traffic in the Modern Internet*

15m + 5m - Qin Wu

*Network Management of Encrypted Traffic: Detect it don't decrypt it*

## The state of preventing traffic analysis

15m + 5m - Laurent Vanbever

*ditto: WAN Traffic Obfuscation at Line Rate*

## The state of users and privacy

15m + 5m - Mallory Knodel

*Guidelines for Performing Safe Measurement on the Internet*

## Discussion

# Day 2: Where we want to go

October 18

## Presentations

15m + 5m - Richard Barnes

*What's In It For Me? Revisiting the reasons people collaborate*

15m + 5m - Marcus Ihlar

*Relying on Relays: The future of secure communication*

15m + 5m - Michael Welzl

*The Sidecar: 'Opting in' to PEP Functions*

## Discussion

# Day 3: How we get there

October 19

## Presentations

15m + 5m - Michael Collins

*Improving Network Monitoring Through Contracts*

15m + 5m - Paul Grubbs

*Zero-Knowledge Middleboxes*

15m + 5m - Tommy Pauly

*Red Rover: A collaborative approach to content filtering*

## Discussion

## Workshop Wrap-up