

Encrypted Network measurement

How to measure encrypted traffic

How to encrypt/improve measurements

Distributed measurements at endpoint?

- Operators lost credibility saying they need to see packets
- qlog is a rich logging format which can also be used for selective measurements at endpoints
 - How to share logging data?
 - When to measure?
- What are the incentives to share measurement data? What data to share?
- Encryption forces new measurement and management techniques which can be more explicitly/more accurate (but also more complex but at least there is a reason to do it)

Independent validation/research

- How much is encryption taking away from third-party/independent measurements?
- Not providing explicit ways to measure makes measurements just less accurate/less reliable
- However, there are no incentives to provide explicit measurements capabilities
- Each operator/entity is optimising their own parts of the network (in different ways) but it gets harder to an overall view. Is that even important?

Automation

- Collecting data is only the first step
- You also need to analyse the data and act on it
- Maybe automation is needed here? Is that taking off?
- Whenever something changes you also need to measure.