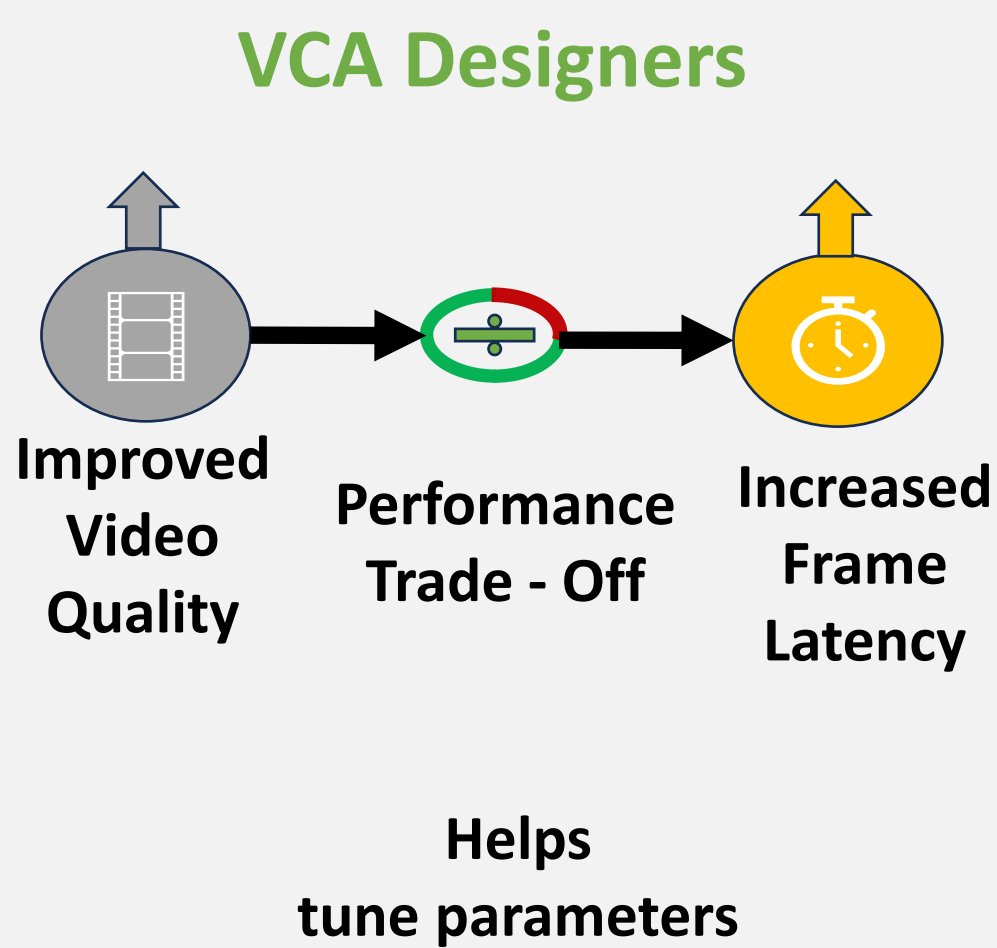
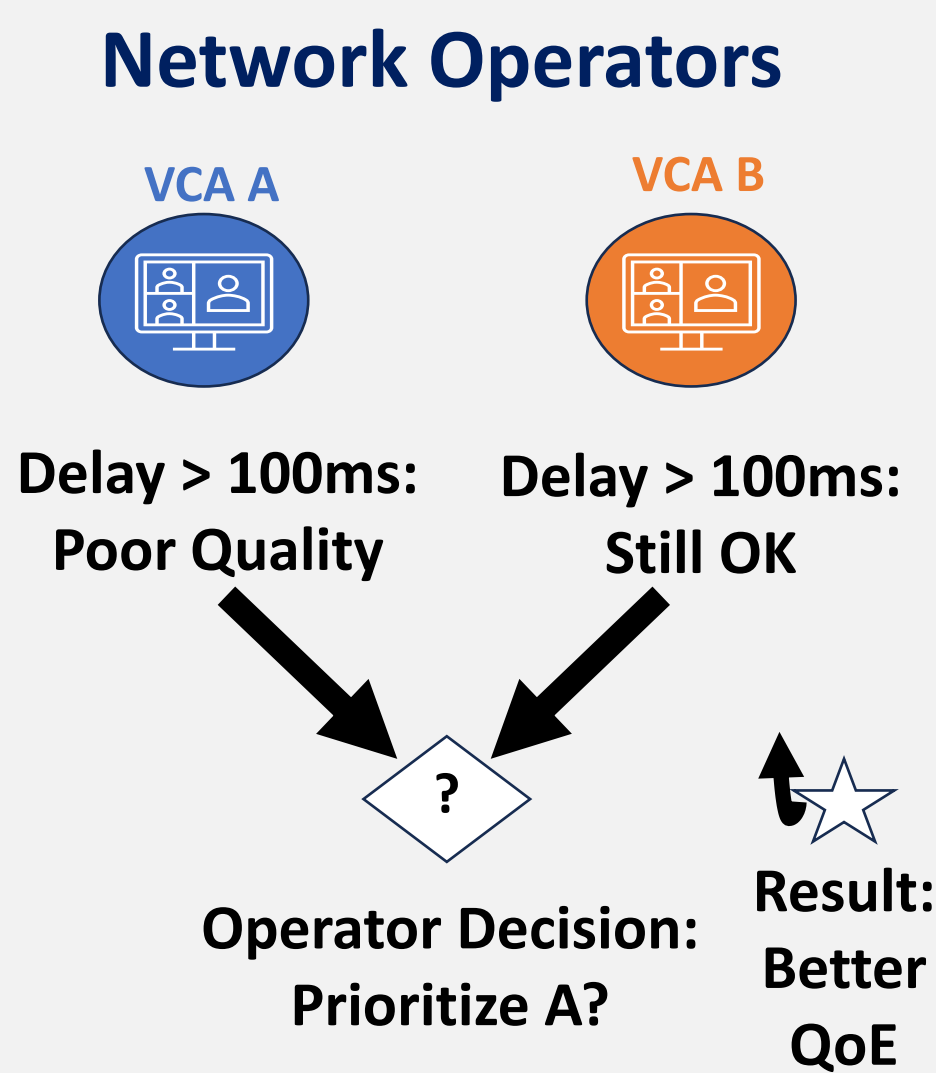


A Case for Modeling Video Conferencing Applications



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Why Model VCAs?

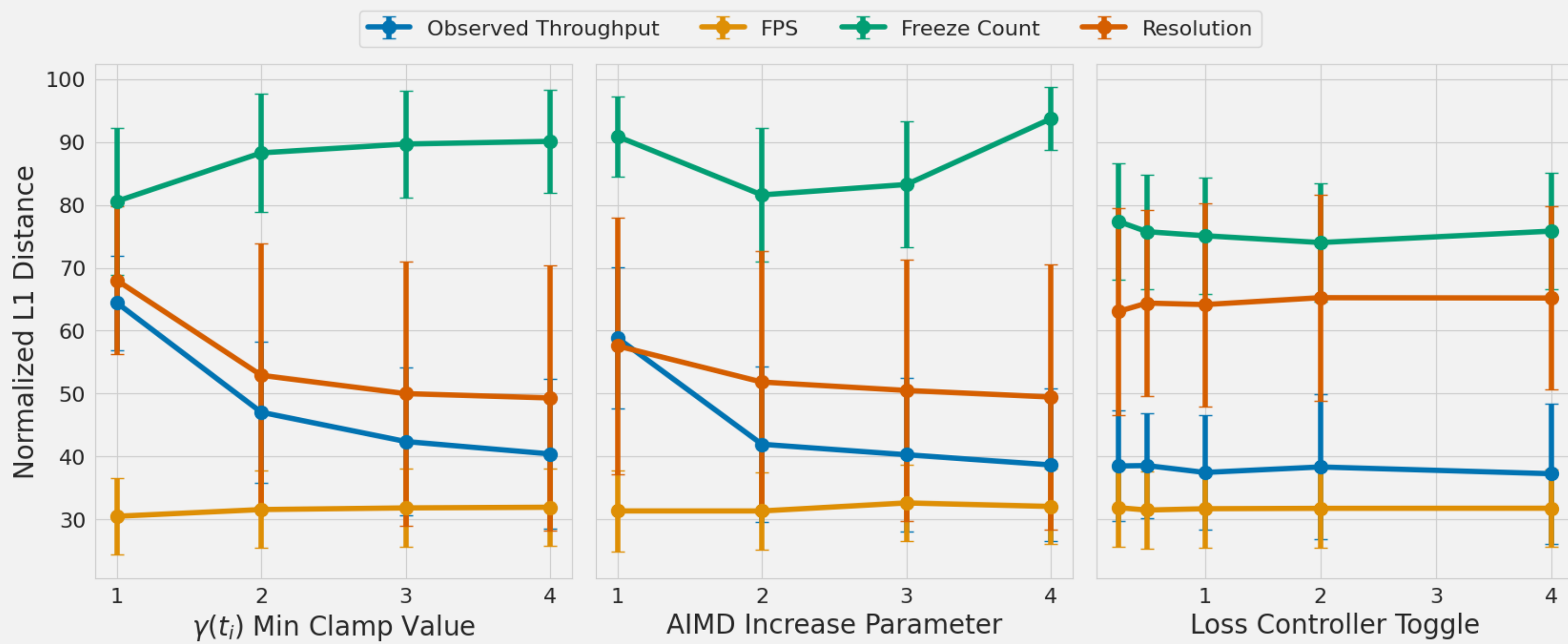


Challenges

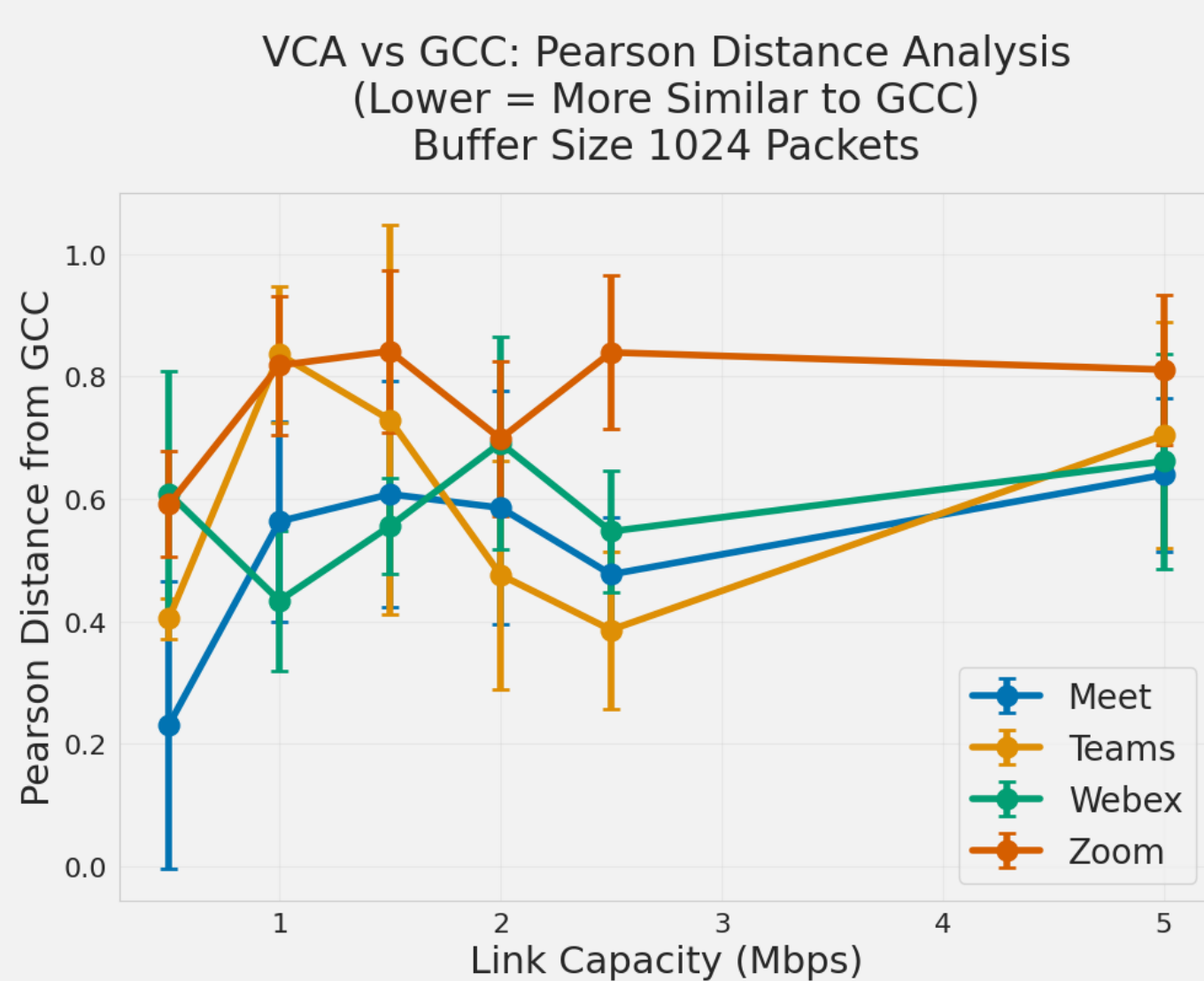
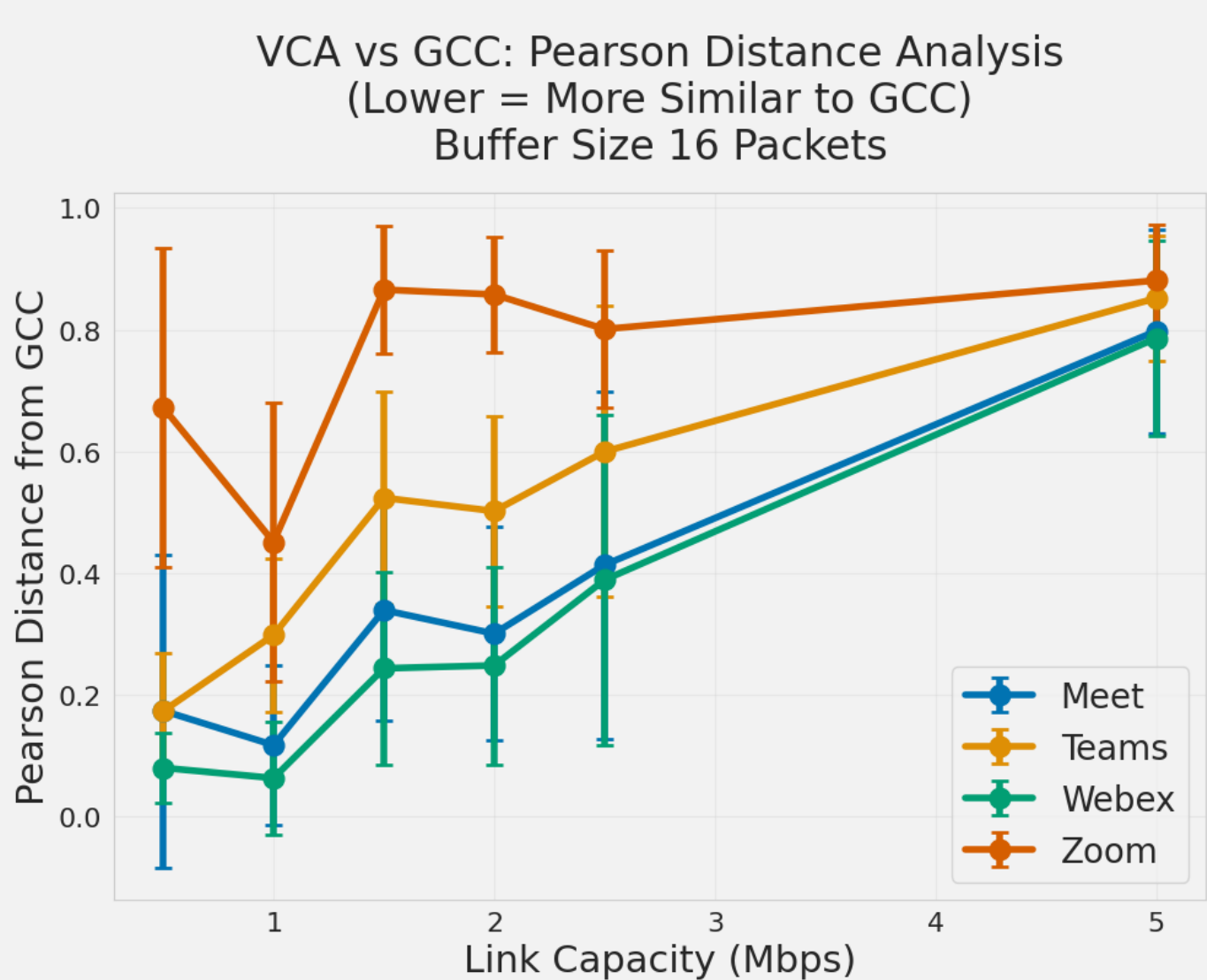
- Prior work has modeled VCAs based on Google Congestion Control (GCC) [1].
- VCAs were modeled considering GCC loss and delay controllers.
- However:
 - GCC has three controllers, with more than 100 dynamic and static parameters.
 - Some commercial VCAs significantly deviate from GCC.

GCC Parameters

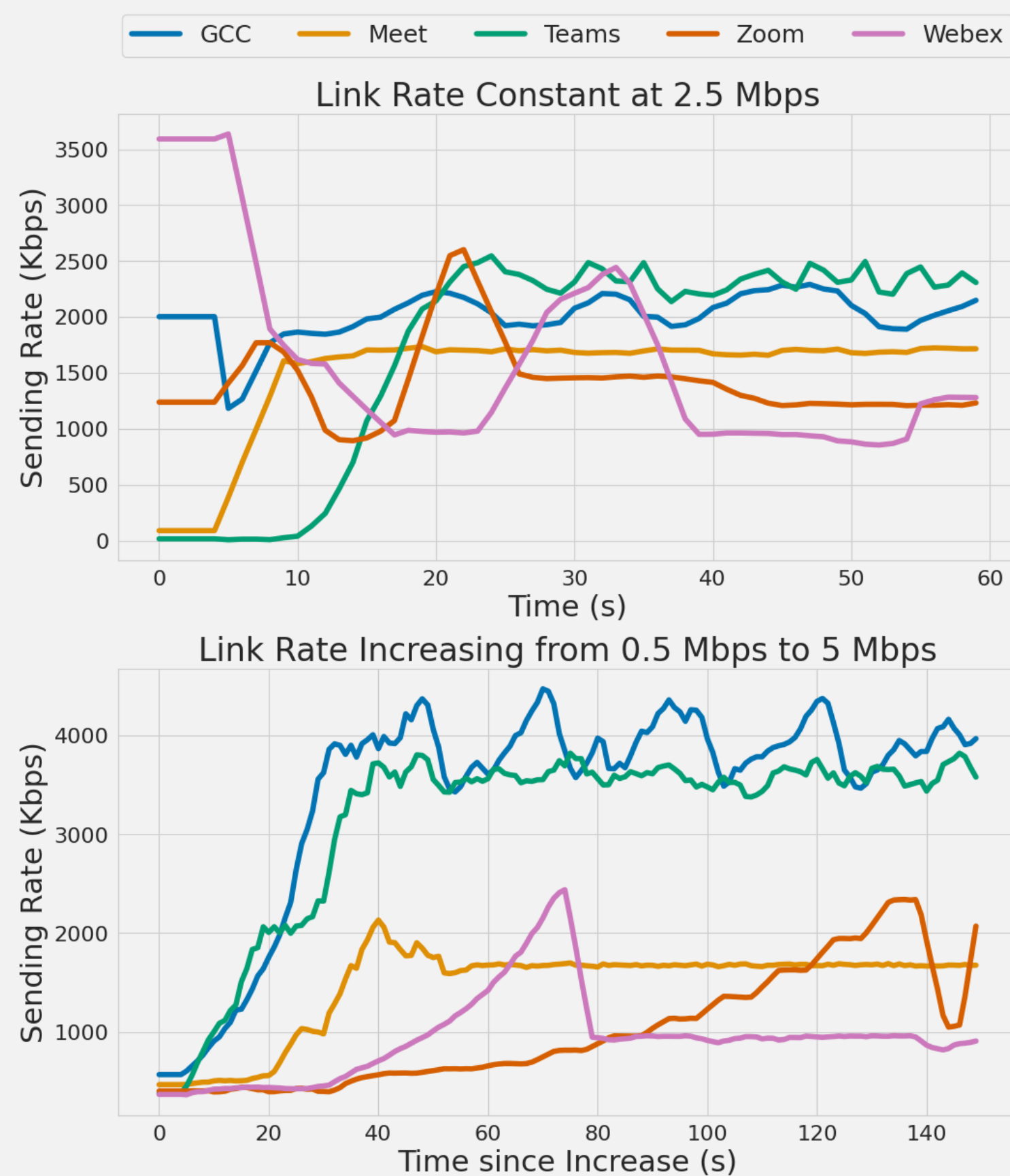
- BESS for varying network.
- WebRTC-internals for QoE.
- 2 delay controller parameters.
- 1 loss controller parameter.



How Close are Commercial VCAs to GCC?



Caveat: Different setups, e.g., commercial VCAs used an SFU whereas GCC was peer-to-peer.



Future Work

- Better understand GCC and find its most important static parameters.
- Model proprietary VCAs, possibly using parameterized GCC to model some of them.

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