

ECN for UDP-based Protocols

- Defined ECN for RTP over UDP/IP in RFC 6679
 - Allows improved QoE for interactive multimedia – avoid packet loss, work with AQM to lower latency
 - Needed to support some IETF RMCAT proposals
- QUIC, SPUD, etc., could make use of similar mechanisms to enable ECN
- Initial measurement study in ACM IMC
 - Leverage public NTP pool to test usability of ECN with UDP – ECN-marked UDP packets generally traverse the wide-area network, but see evidence of middlebox interference on ~1% paths
 - <https://dx.doi.org/10.1145/2815675.2815716>
- Interested in working with measurement community to better understand ECN usability with UDP, and with IETF to raise awareness of utility of ECN with UDP-based transports

