

# QoS for data channel

July 2015

V2



# Facts of Life Report from Transport Area

- Today, if you have Data Channels with different DSCP, they will need to be in different SCTP associations
  - SCTP may be extended in the future to support this in one associations
- If you change the DSCP used for a SCTP association, the congestion control needs to be restarted



# QoS for data channels

- We have two things that can impact which packets arrive first
  - When there are multiple data channels sending inside same SCTP Associations, the browser needs to decide in which order to send data when there is data available to send on from multiple channels
  - When the browser sends a data channel packet, it needs to decide what DSCP to use
- Question: How does this map to JavaScript API in a way that is **simple** for JS developers
- Proposal (From Justin):

The DataChannel.priority value is used to drive sequencing algorithm per draft

The DSCP for SCTP association is set using max priority of any Channel in on the SCTP association.

If a new channel is added/removed that changes this, the SCTP congestion control will restart

  - If you want more than just the best effort DSCP, use multiple PeerConnections