RMCAT requirements

draft-jesup-rmcat-00

Randell Jesup

IETF 85 Atlanta
Base Requirements

- Low latency
  - As low as we can get
  - Avoid spikes in latency
  - Primary requirement
- “Fair”
  - Definition is vague
  - Not necessarily the same as 1xTCP flow
  - Avoid pushing competing flows into collapse
- Stable & low-delay with AQM (RED or CoDel)
Additional Requirements

- Merge all data available
  - Parallel flows
- No special network support
  - Don't assume ECN, etc
- Backchannel via RTCP and/or reverse streams
- Try to avoid “collapse” against long TCP flows
  - May need to switch modes
Startup

• Stream startup is tricky
• Need to quickly find a reasonable estimate of throughput available without inducing excess delay
• Classic slow-start may be too slow for expected applications
  • Video needs to send initial IDR
  • High attention on initial video period
Questions/Discussion