

RMCAT requirements

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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