

RTP Media Stream Pause / Resume

draft-westerlund-avtext-rtp-stream-pause-03

draft-even-flow-control-to-zero-00

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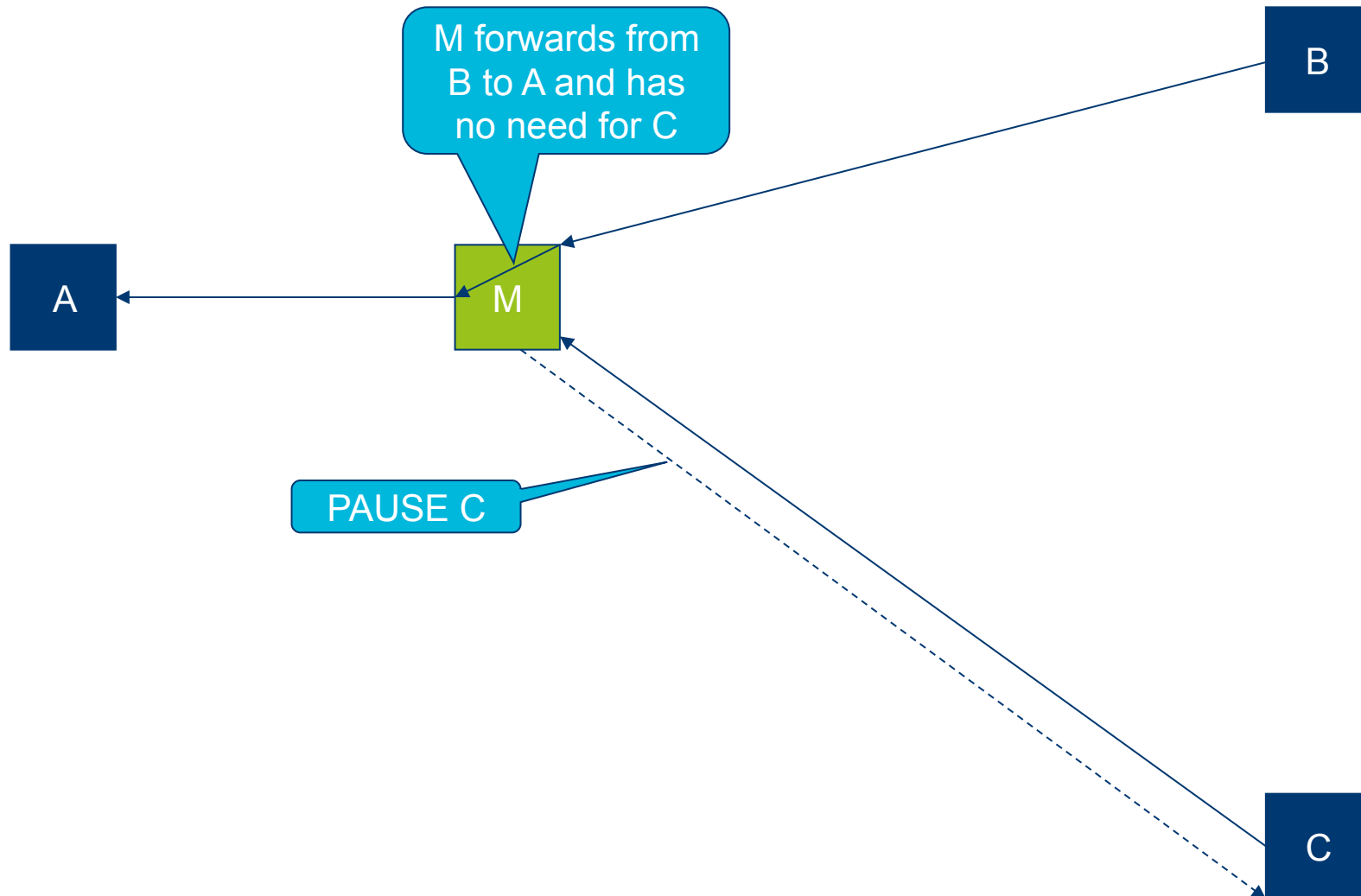
IPR Disclosure

- › For referred draft-westerlund-avtext-rtp-stream-pause
– <http://datatracker.ietf.org/ipr/1641/>
- › Unchanged since -00

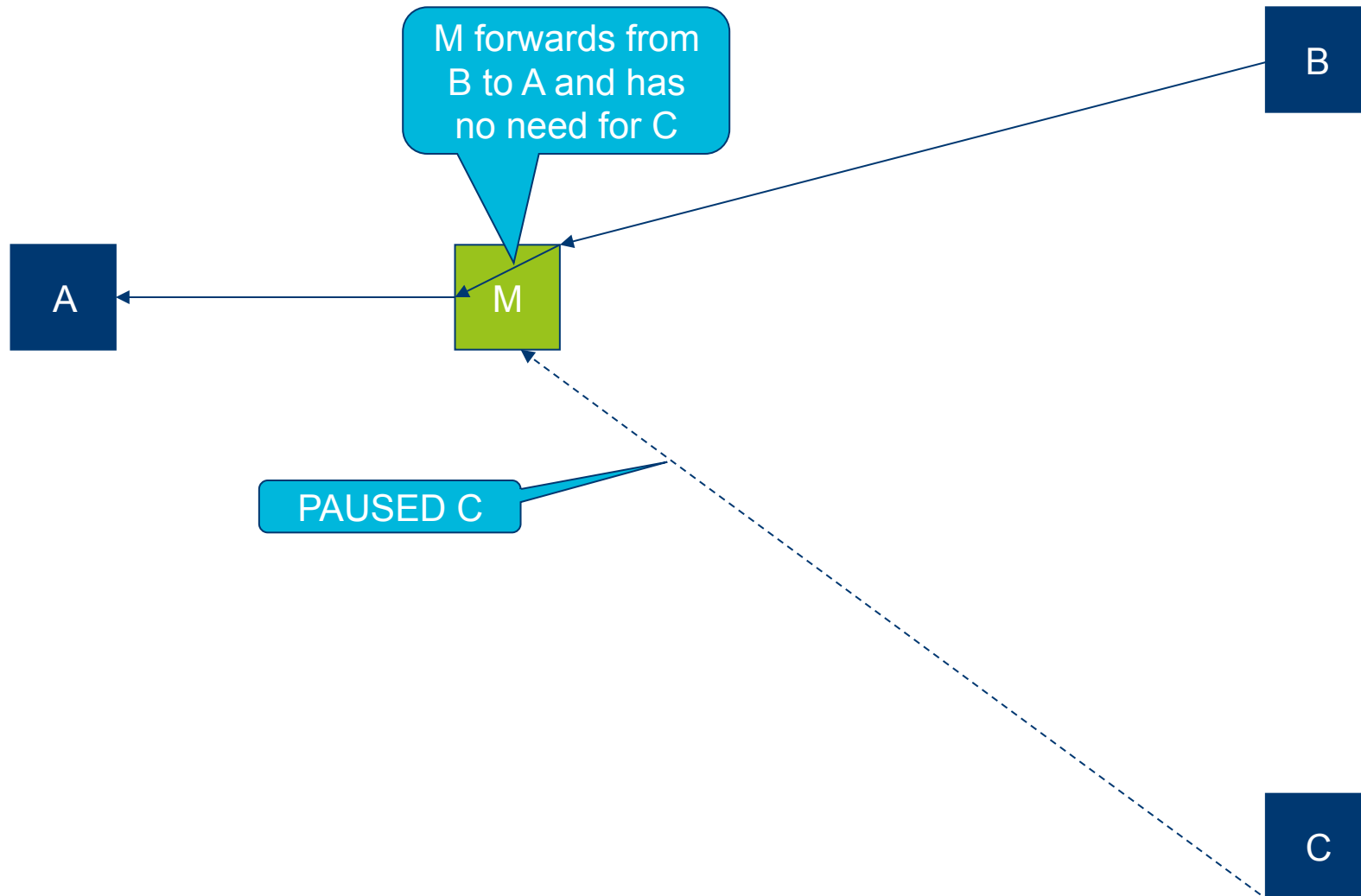
Presentation Goal

- › Brief recapitulation of the problem
- › Compare two proposed solutions on how to pause and resume RTP streams
- › WG consensus on way forward

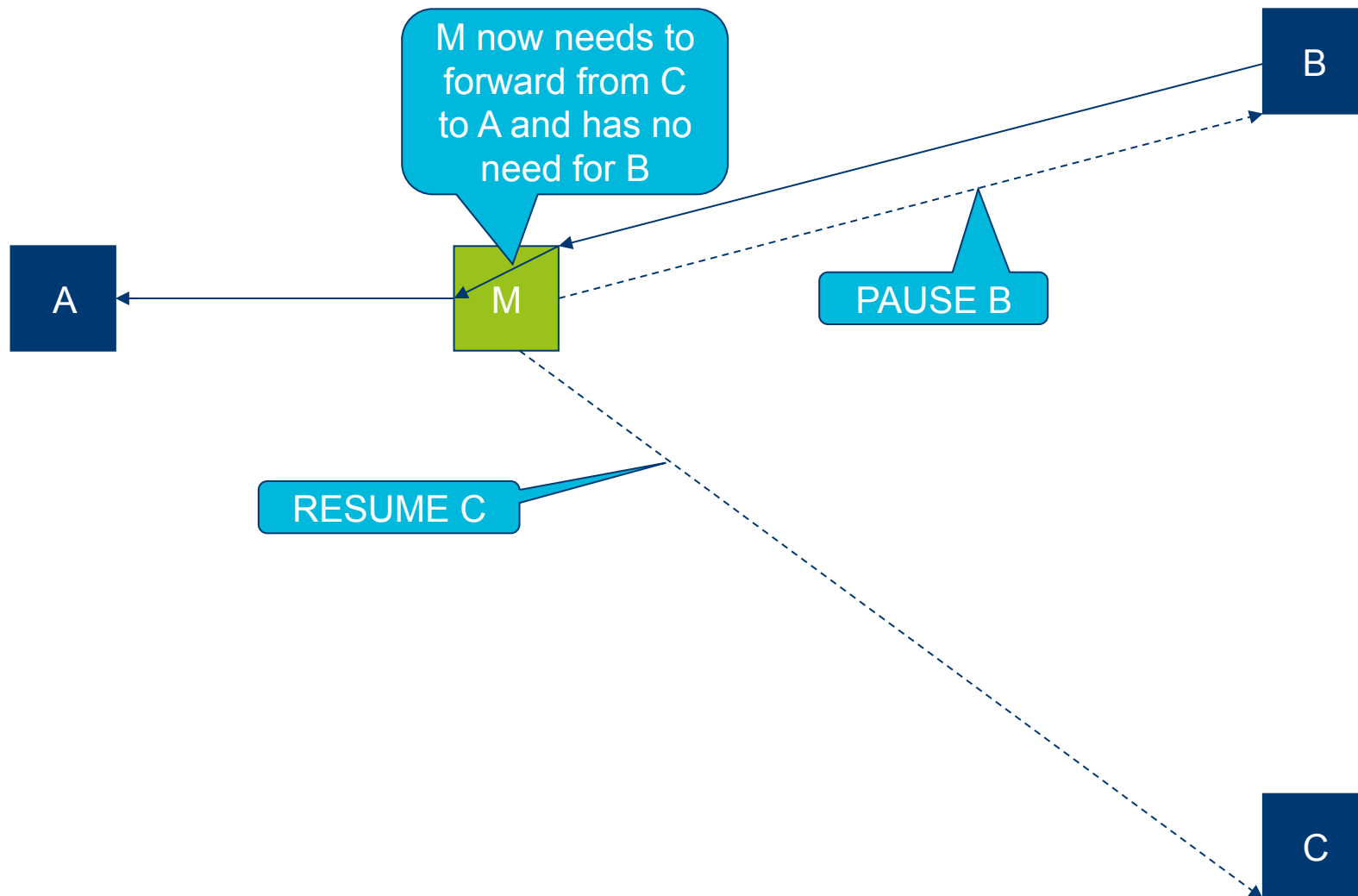
Pause Problem Overview (1)



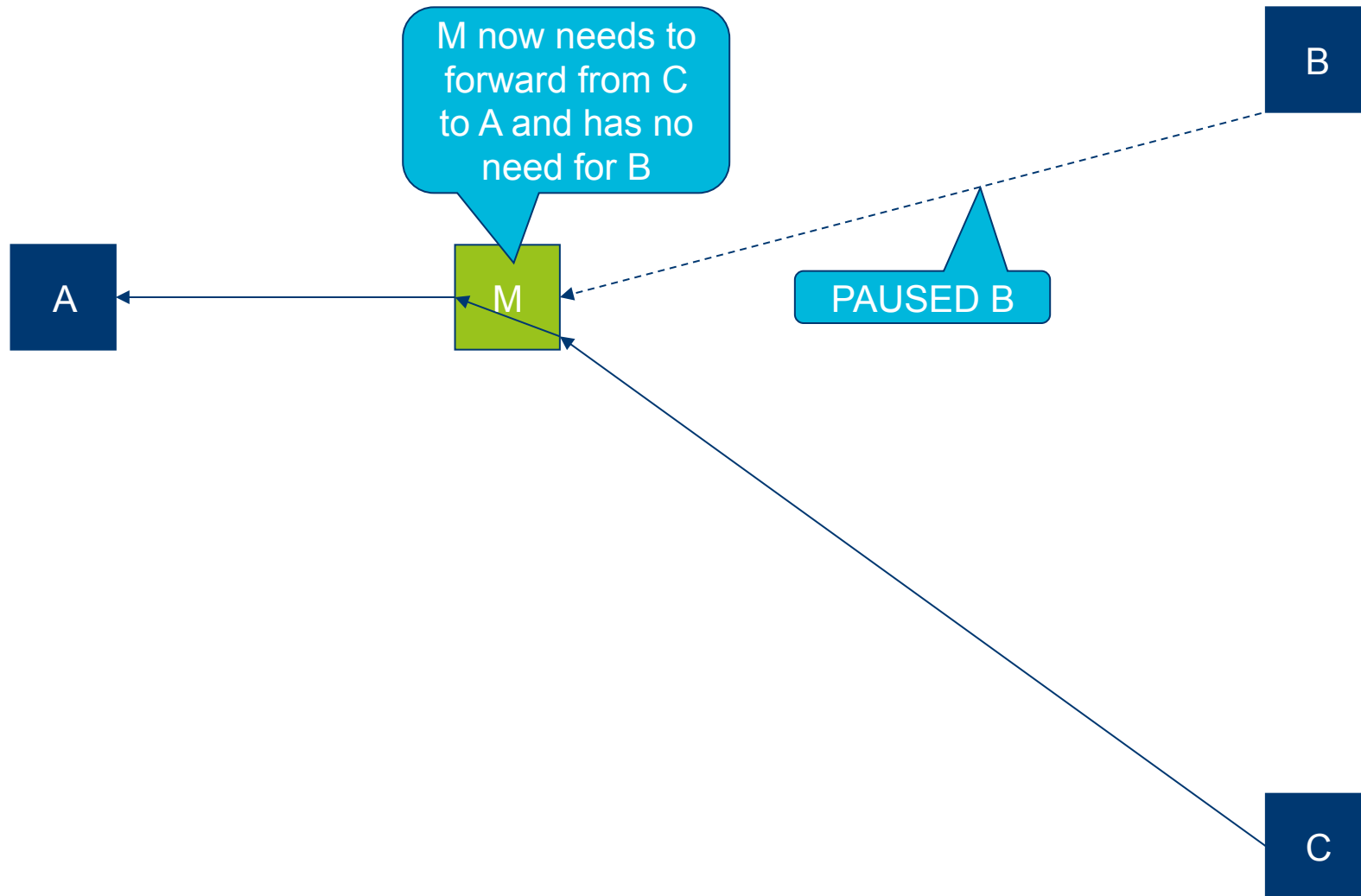
Pause Problem Overview (2)



Pause Problem Overview (3)



Pause Problem Overview (4)

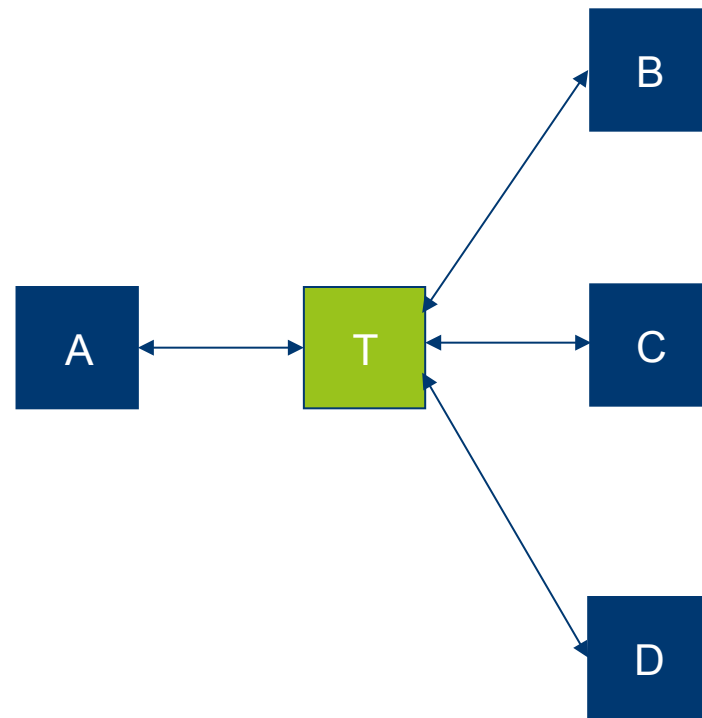


Solution Differences

- › **draft-westerlund-avtext-rtp-stream-pause-03**
- › PAUSE = PAUSE
 - Delayed
 - Can be refused
- › PAUSED = PAUSED
- › RESUME = RESUME
 - Immediate
 - Can be refused
- › REFUSE
 - Both for PAUSE and RESUME
- › Supported Topologies
 - Any
- › **draft-even-flow-control-to-zero-00**
- › PAUSE = TMMBR 0
 - Immediate
 - Cannot be refused
- › PAUSED = TMMBN 0
- › RESUME = TMMBR >0
 - Immediate
 - Can be refused
- › REFUSE
 - TMMBN 0 for RESUME
- › Supported Topologies
 - Point-to-point
 - Mixer

Determining Topology

- › Client A can't determine unilaterally that it is not in a point to point topology
 - Unicast used
 - RTCP with different CNAMEs does not reveal T's behavior
- › Commonly A's signalling peer will know how T behaves
 - Thus requires signalling
 - Must not enable TMMBR=0 with legacy lacking knowledge about behavior
- › Strict Requirements on TMMBR=0
 - Only used when verified with signalling peer
 - Signalling peer **MUST** know T's behavior



Choose Direction

- › Select between two possibilities
 - A. Single Solution based on new AVPF FB Messages
 - › draft-westerlund-avtext-rtp-stream-pause-03
 - B. TMMBR=0 with explicit signalling to negotiate safe to use AND a new AVPF FB messages to use when topology constraints are not met
- Combine:
 - › draft-westerlund-avtext-rtp-stream-pause-03
 - › draft-even-flow-control-to-zero-00
 - › Explicit signalling to determine when TMMBR=0 can be used

Way Forward

- › We will actively contribute in creating a draft detailing the chosen direction