



Access Delay Justification

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RPR classes

- Class A
 - BW: guaranteed
 - Delay: bounded
 - Jitter: bounded
- Class B
 - BW: guaranteed
 - Delay: bounded
 - Jitter: bounded
- Class C
 - BW: guaranteed
 - Delay: un-bounded?
 - Jitter: un-bounded?





Reality

- Class C service:
 - Over subscribed
 - Upstream advantage:
 - Defaults: allowed_rate = unreserved_rate
 - What is the higher protocol
 - applications?
 - TCP; window based flow control
 - Time out values?
 - Can it be blocked for ever?



Access Delay



- Why?
 - Single transit buffer design
 - A trigger for congestion
 - Lower bound:
 - not to trigger too quickly causes low utilization
 - Upper bound:
 - Still have to deliver the MAC layer peer to peer transport with acceptable behavior for the higher layer protocols