

Diameter Per-Flow Max Bitrates

draft-bertz-dime-perflowmbr-00

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Per-Flow Max Bit Rate

- Defines 'per flow' (IP flow or 5 tuple) Maximum Bit Rate for Downlink / Uplink
- Not intended to
 - Be an Application Level, e.g. 3GPP Application & Detection Control (ADC) Rule
 - Conflict with Multi-path protocols
 - Be an answer to Application Detection & Control (work above IPFilterRules and Filter-Rules)
- Example Usage
 - Limit per-flow to 1.2 Mbps will limit single segment delivery of video to sub 720p
 - Limit per-flow to 1.2 Mbps but provide an Aggregate Max Bitrate to 20 Mbps
 - Allows no single flow to dominate aggregate links

Why? & Feedback

Why?

- In many delivery systems (esp. video) we can use a simple IP flow max bit rate to achieve what many do at higher levels
- Using multi-path (parallelism) is not an issue for many as it moves goodput closer to throughput (yes, we are picking on TCP)
- This is one of many levers Operators use in production systems but we can't signal it over Diameter

Feedback

- Dave Dolson provided feedback (thank you!) to improve the spec

Next Steps

- Call for WG Adoption

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