QoS Operational Yang Model


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Topics

- Motivation
- Model Overview
- Classifier Counters
- Named Counters
- Meter Counters
- Queue Counters
- Next Steps
Motivation

- A single draft for configuration and operation model is too big an effort
- Involved discussions to agree on each QoS counter
- Mechanism to present various QoS Counters for better Network Visibility
Model Overview

- Augmentation to Interface Model
- Per Classifier Statistics Vs Named Statistics
- Meter Statistics
- Queue Statistics
Classifier Statistics

Each Classifier in a Policy instance supports:

- Match Packets
- Match Bytes
- Average Rate of traffic
Named Statistics

- Like classifier statistics, supports packets count, bytes count and average rate
- Referred by statistics name
- It represents aggregated counters sharing the same statistics name
Meter Statistics

- Common meter statistics for one rate two color, two rate three color and one rate three color meters
- Counters are maintained for Confirm, Exceed and Violate (if applicable)
- Packets count, Byte count and Average Rate are maintained
Queue Statistics

- Per Queue Statistics
- Conform and Exceed Packets Count.
- Current, Average and Peak Queue Size
- Tail Drops
Next Steps

- Solicit inputs from IETF community