

Performance Modeling for RPRSG:

Traffic Models; Performance Metrics; Test Scenarios for comparison of ring operation schemes (Khaled Amer)

Scenarios:

{Node count; Span distance; Bitrate}

- Aggregation {Tier1 ISP; Tier2 ISP; MSO; Metro Customer; Pop};
- Mesh {Campus; Metro; WAN};
- Testing various aspects of ring functionality
- Fairness; congestion control; admission control; QoS

Traffic Characteristics:

- Packet {rate; packet size; destination, priority}
- {TCP;UDP}

Metrics:

- End to End Packet Delay
- Jitter
- Access Delay
- Link utilization;
- Global throughput / Goodput
- Packet Loss (ingress, egress and passing traffic on the ring)
- Fairness; congestion control; admission control; QoS