

Performance Issues and Requirements

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Requirement Perspective

✍ Customer wants

✍ QoS

✍ BW

✍ Delay&Jitter

✍ Loss

✍ Reliability

✍ Low Cost

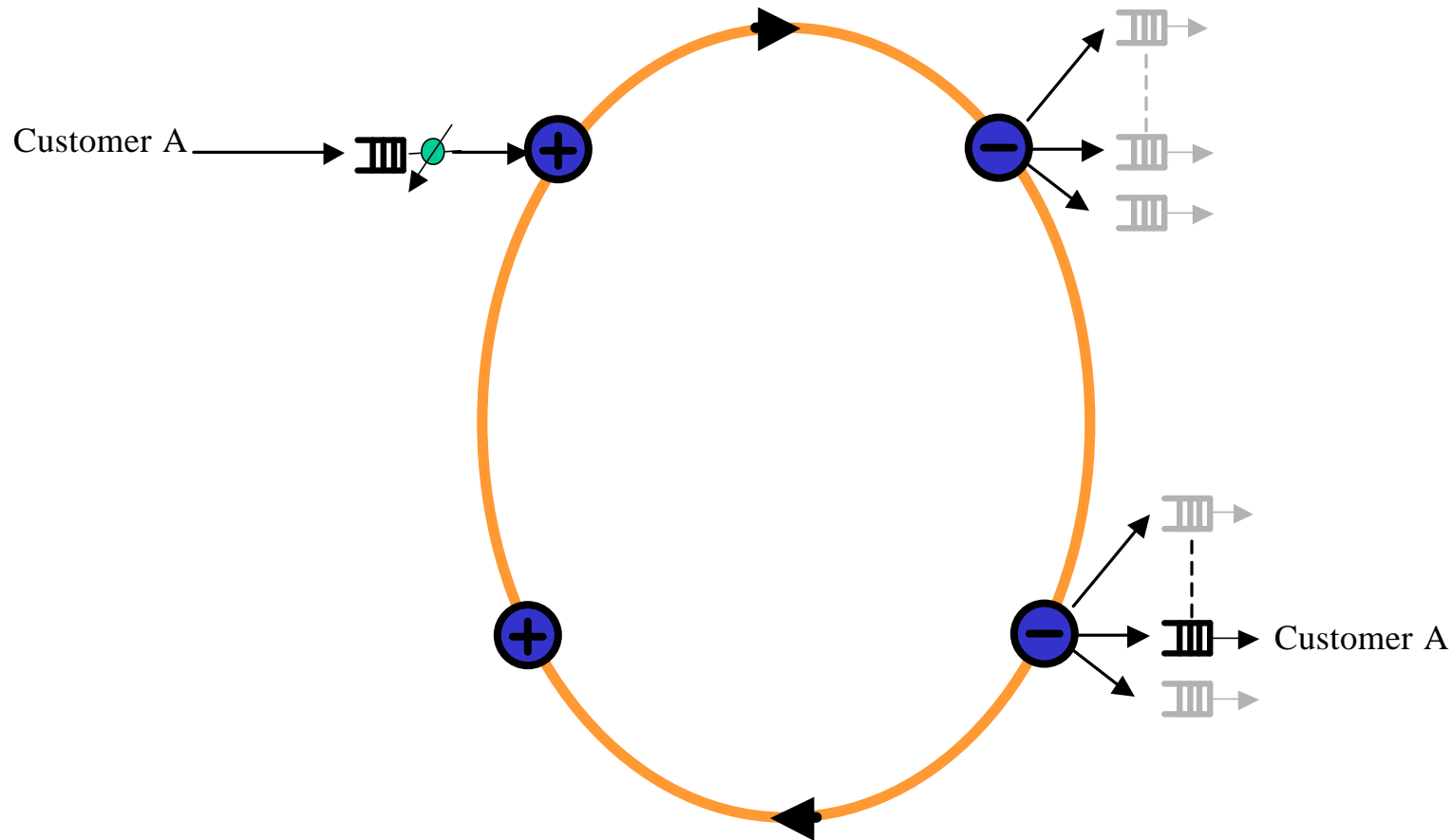
✍ Network Operator's interested in

✍ ROI

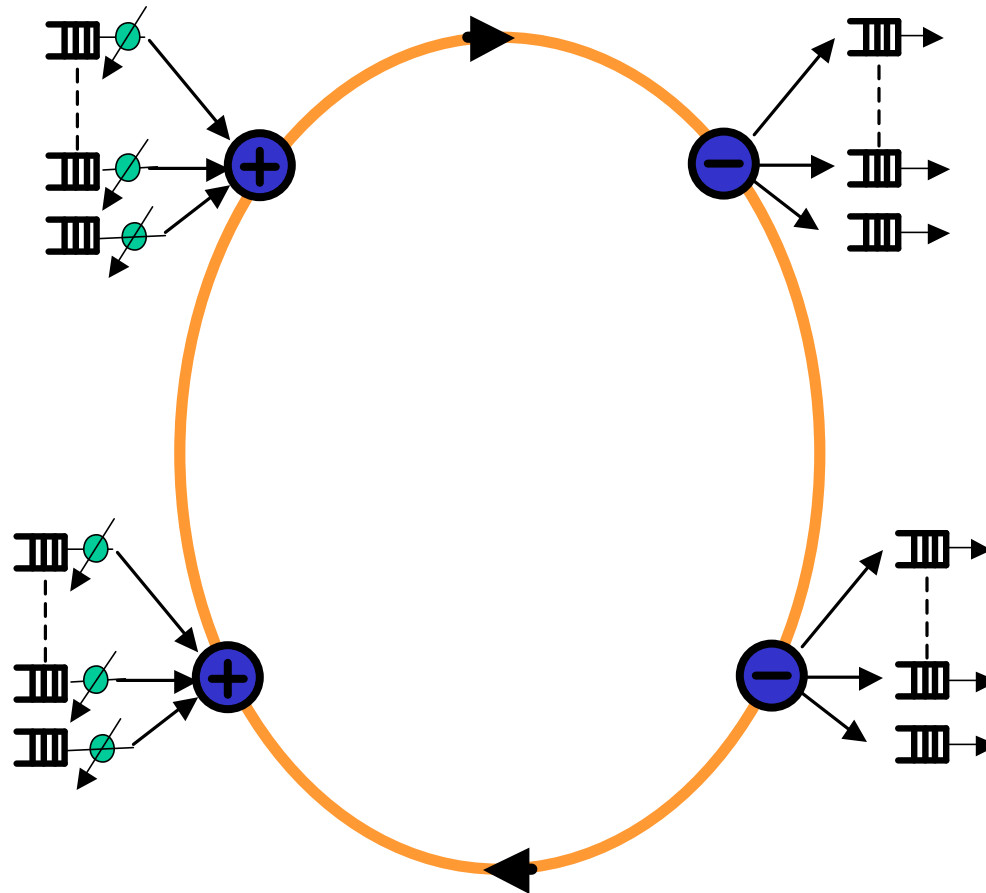
✍ SLA support (service differentiation)

✍ Efficiency

Customer's Expectations: having the ring by himself

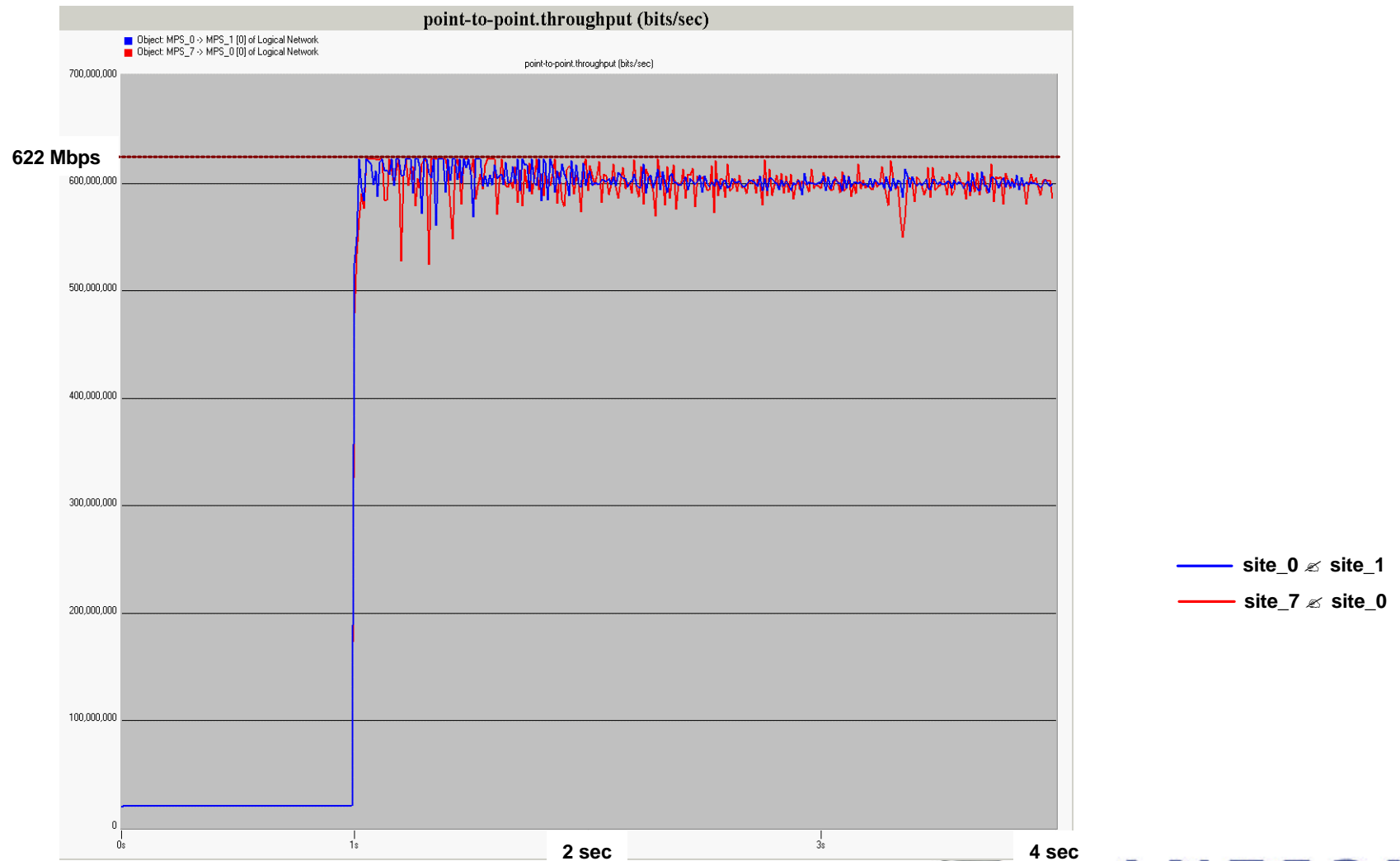


Network Operator's Expectations: pack as many customers



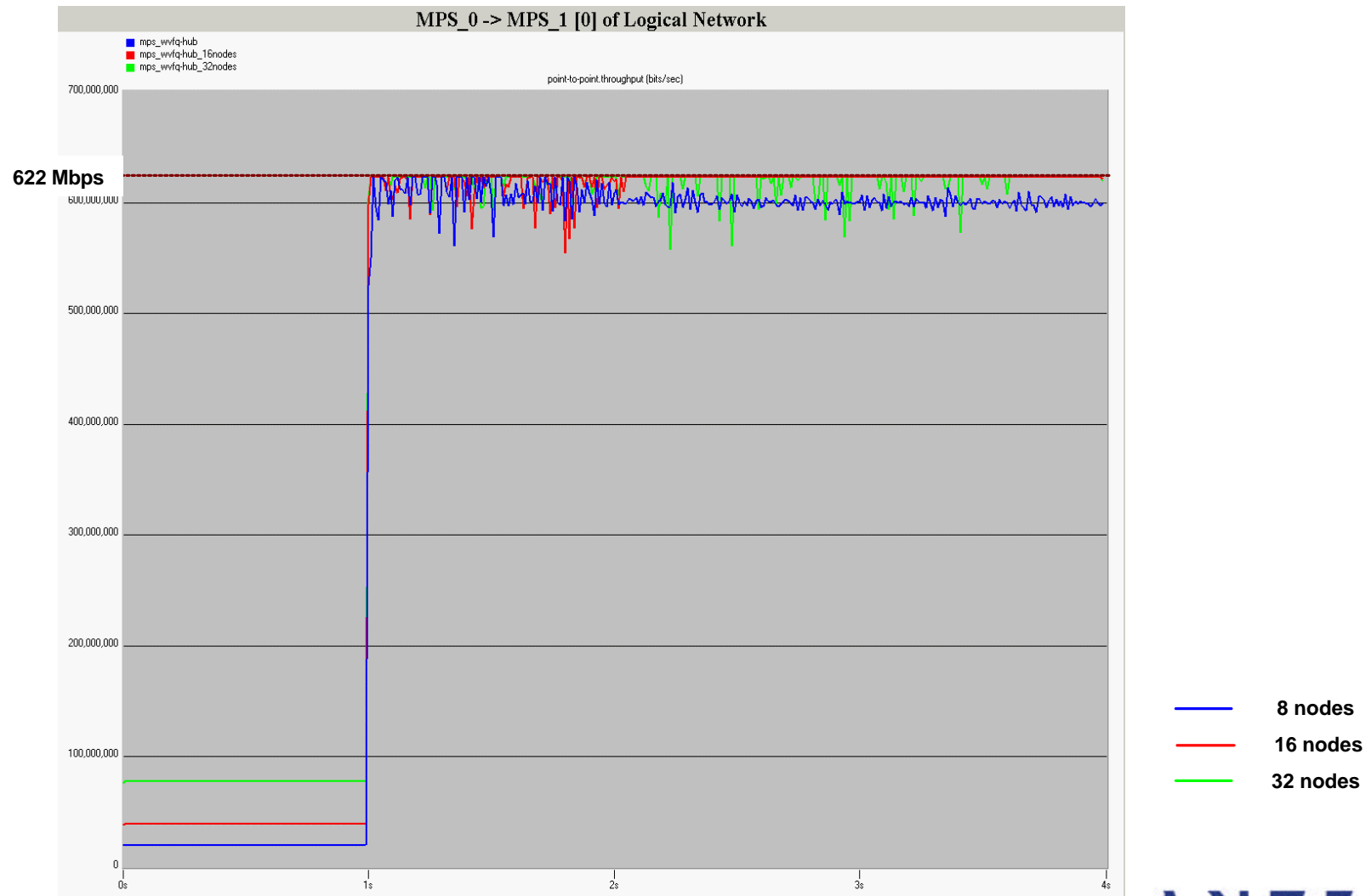
Low throughput

Lantern's Simulation Results



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Lantern's Proposal Simulation Results



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LANTERN
COMMUNICATIONS

RPR MAC Requirements

✍️ MAC must support QoS

- ✍️ BW guarantee
- ✍️ Fair and efficient BW allocation
- ✍️ Low delay and jitter
- ✍️ Fast and efficient fault protection mechanism

✍️ MAC must ensure high ring throughput

- ✍️ High-speed
- ✍️ Maximum spatial reuse
- ✍️ High Link Utilization