LinkEye

WAN Link Performance & Strategy Report

Location: KOLKATA-Lenslab-branch, KOLKATA
Vendor: TATA COMMUNICATIONS LIMITED
Link Type: ILL
Business Hours: 00:00–19:00
Provisioned Speed: 10.0 Mbps

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1. Usage Pattern Analysis

The 10 Mbps link is significantly underutilized, with average usage at only 2.2% of capacity. While overall usage is low, analysis shows traffic is concentrated during business hours. The primary anomaly is the presence of short, extreme traffic bursts. A peak was recorded at 39.45 Mbps, nearly four times the provisioned speed, indicating irregular, high-demand events.

2. Capacity Planning Recommendations

The link is heavily over-provisioned for current sustained demand. Based on the 95th percentile usage of 0.71 Mbps, we recommend rightsizing the circuit. The following options are available:
- **Conservative:** 0.9 Mbps
- **Balanced (Recommended):** 1 Mbps
- **Aggressive:** 43 Mbps

A balanced provisioning target of 1 Mbps is advised to align with typical peak needs while realizing significant cost savings.

3. Performance Risks & Bottlenecks

The key risk is service degradation during traffic bursts. Peak usage far exceeding the 10 Mbps circuit capacity indicates uncontrolled bursting, which can cause packet loss and high latency. The link was congested for a total of 59 minutes, impacting service reliability during those times.

Conclusion

The link should be downgraded to a 1 Mbps plan to optimize costs, with a parallel investigation into the cause of the excessive traffic bursts.

Visual Insights