ISP Bandwidth Report



Network Performance & Capacity Report

- **Location:** Silguri CFA, Silguri
- **Vendor:** TATA COMMUNICATIONS LIMITED
- **Link Type:** ILL
- **Business Hours:** 09:00-18:00
- **Provisioned Speed:** 10.0 Mbps

1. Usage Pattern Analysis

The link is significantly underutilized, with average usage at only 4.2% of its provisioned capacity. Traffic follows a standard business pattern, with usage nearly nine times higher during business hours. However, the link experiences extremely brief but intense bursts of traffic, with a recorded peak far exceeding the allocated 10 Mbps. This indicates a "bursty" traffic profile where the connection is mostly idle but faces sudden, high-demand spikes.

2. Capacity Planning Recommendations

The current 10 Mbps circuit is heavily over-provisioned for sustained usage patterns. The 95th percentile of usage is only 2.13 Mbps, and the average daily one-hour peak is 2.86 Mbps. Based on this data, we recommend rightsizing the link.

- **Conservative: ** 2.6 Mbps
- **Balanced (Recommended):** 3 Mbps
- **Aggressive:** 148 Mbps (Not Recommended; based on an anomalous peak)

A 3 Mbps plan would sufficiently handle typical peak loads while optimizing costs.

3. Performance Risks & Bottlenecks

The primary performance risk is intermittent congestion caused by high-intensity bursts. Despite high overall SLA compliance, the link experienced 492 minutes of congestion (usage over 90%), impacting performance during those periods. The recorded peak of 134.47 Mbps demonstrates that while the link can burst, these events create temporary bottlenecks and risk packet loss.

Conclusion

The link is over-provisioned and should be downgraded to 3 Mbps to align with operational needs and reduce costs.

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Visual Insights



