



WAN Link Performance & Capacity Report

****Location:**** Kolkata-CFA-Branch, Kolkata
****Vendor:**** TATA COMMUNICATIONS LIMITED
****Link Type:**** Broadband
****Provisioned Speed:**** 100.0 Mbps
****Business Hours:**** 10:00–18:00

1. Usage Pattern Analysis

The 100 Mbps link is significantly underutilized, with average usage at only 1.5% of its capacity. Traffic follows a predictable pattern, with usage being five times higher during business hours. While general usage is very low, the data shows infrequent, high-intensity bursts. A recorded peak of over 2000 Mbps is an extreme anomaly, likely a data-collection error, as sustained traffic cannot exceed the physical line rate.

2. Capacity Planning Recommendations

The link is heavily over-provisioned. Rightsizing based on sustained peak usage (95th percentile of 5.93 Mbps) is recommended for cost optimization.

- ****Conservative Plan:**** 7.1 Mbps
- ****Balanced Plan:**** 9 Mbps
- ****Aggressive Plan:**** Not applicable due to anomalous peak data.

We recommend provisioning the link to a ****10 Mbps**** plan, which safely covers the balanced requirement and accounts for future growth.

3. Performance Risks & Bottlenecks

The primary performance characteristic is bursty traffic rather than sustained high volume. While there were 6 minutes of congestion recorded, this was linked to the anomalous usage spike and does not represent a recurring risk. The current 100 Mbps circuit completely mitigates any risk of performance bottlenecks.

Conclusion

The link is significantly over-provisioned; we recommend downgrading to a ****10 Mbps**** plan to align costs with actual usage patterns without impacting performance.

Visual Insights

