



WAN Link Performance & Strategy Report

- **Location:** COIMBATORE-FACTORY-branch, COIMBATORE
- **Vendor:** TATA COMMUNICATIONS LIMITED
- **Link Type:** DBB
- **Business Hours:** 09:00–18:00
- **Provisioned Speed:** 100.0 Mbps

1. Usage Pattern Analysis

The 100 Mbps link is significantly underutilized, with average usage at only 1.4%. Consumption is primarily driven by business hours activity, which averages 2.6 Mbps. While overall usage is low and consistent, the link experiences infrequent but extremely high bursts of traffic. The monthly usage trend is increasing, but from a very low baseline.

2. Capacity Planning Recommendations

This link is severely over-provisioned. Based on sustained high usage patterns (95th percentile), a much smaller circuit is sufficient. A right-sizing strategy offers significant cost-saving opportunities:

- * **Conservative:** 6.6 Mbps
- * **Balanced:** 8 Mbps
- * **Aggressive:** 319 Mbps

We recommend adopting the **Balanced** strategy, provisioning the link at **10 Mbps** to account for future growth.

3. Performance Risks & Bottlenecks

Despite low average use, there is a risk of performance degradation. Data shows peak usage has spiked to 290 Mbps, far exceeding the 100 Mbps provisioned limit. These brief but intense bursts cause severe congestion, likely resulting in packet loss and application slowdowns for users during those moments.

Conclusion

This link should be downgraded to a **10 Mbps** plan to align with actual usage, reduce operational costs, and maintain performance.

Visual Insights

