



Network Performance Report

- **Location:** Vijayawada CFA, Vijayawada
- **Vendor:** TATA COMMUNICATIONS LIMITED
- **Link Type:** Broadband
- **Business Hours:** 09:00–18:00
- **Provisioned Speed:** 100.0 Mbps

1. Usage Pattern Analysis

The 100 Mbps link is profoundly underutilized, with average usage below 1% of its capacity. While traffic is higher during business hours, it remains minimal at 1.43 Mbps. The data shows a single, momentary spike reaching 97.41 Mbps, but this is an anomaly. The typical sustained usage is much lower, with 95% of all traffic falling below 3.84 Mbps, indicating that high-demand events are extremely rare and brief.

2. Capacity Planning Recommendations

This link is significantly over-provisioned. Based on a 95th percentile analysis, a realistic provisioning strategy suggests:

- **Conservative:** 4.6 Mbps
- **Balanced:** 6 Mbps
- **Aggressive:** 107 Mbps

A balanced plan of 6 Mbps, with a 15% buffer for future growth (totaling 6.9 Mbps), is recommended to match actual requirements and optimize costs.

3. Performance Risks & Bottlenecks

There is no risk of network congestion or performance degradation. The circuit's capacity far exceeds the current and projected demand. The isolated peak usage event does not represent a sustained bottleneck risk, as confirmed by the link operating within its 'Excellent' SLA classification 100% of the time.

Conclusion

The link is severely over-provisioned and should be downgraded to a 10 Mbps plan to align with usage patterns, accommodate future growth, and realize significant cost savings.

Visual Insights

