



Network Performance & Capacity Report

****Location:**** Lucknow-CFA, Lucknow
****Vendor:**** Beam Telecom Pvt Ltd
****Link Type:**** DBB
****Provisioned Speed:**** 50.0 Mbps
****Business Hours:**** 09:00–06:00

1. Usage Pattern Analysis

The 50 Mbps link is severely underutilized, with an average usage of only 0.25 Mbps (0.5% of capacity). While traffic is higher during business hours, it remains minimal. The key anomaly is the link's highly bursty nature, demonstrated by an isolated peak usage of 100 Mbps—double the provisioned speed. Otherwise, sustained usage is consistently low.

2. Capacity Planning Recommendations

The link is significantly over-provisioned. Based on the 95th percentile usage of 1.09 Mbps, a major downgrade is advised. The recommended provisioning tiers are:

- * ****Conservative:**** 1.3 Mbps
- * ****Balanced:**** 2 Mbps
- * ****Aggressive:**** 110 Mbps

We strongly recommend adopting the ****Balanced**** strategy and right-sizing the link to ****2 Mbps****.

3. Performance Risks & Bottlenecks

There is no risk of sustained congestion. However, the observed peak usage of 100 Mbps indicates that critical applications can create extreme, short-lived traffic bursts. While the provider currently allows this, any future policy enforcement capping traffic at 50 Mbps would cause severe packet loss and application failure during these bursts.

Conclusion

The link is heavily over-provisioned and should be downgraded to a revised capacity of ****2 Mbps**** to align costs with actual usage.

Visual Insights

