



Network Performance & Capacity Report

****Location:**** GUWAHATI-CFA-branch, Guwhati

****Vendor:**** BHARAT SANCHAR NIGAM LTD

****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 an average usage of only 0.50 Mbps (0.5% of capacity). Traffic aligns with standard business operations, peaking at an average of 1.10 Mbps during business hours. While the link is stable, we observed a single, momentary burst that reached 339 Mbps. This is an anomaly and does not reflect typical, sustained usage, which remains consistently low.

2. Capacity Planning Recommendations

The link is heavily over-provisioned for current needs. Based on the 95th percentile usage of 2.44 Mbps, we recommend rightsizing the circuit.

* ****Conservative:**** 2.9 Mbps

* ****Balanced:**** 4.0 Mbps

* ****Aggressive:**** 373 Mbps

A ****4.0 Mbps**** plan is the recommended target to meet current demand with sufficient headroom for growth.

3. Performance Risks & Bottlenecks

There is no risk of network congestion. The isolated peak usage event, while exceeding the provisioned speed, indicates the circuit can handle brief, high-intensity bursts without issue. Sustained performance remains excellent, with 100% of usage falling well below critical capacity thresholds. The primary risk is financial inefficiency due to over-provisioning.

Conclusion

This link should be downgraded to a 10 Mbps plan to align with actual usage and realize significant cost savings.

Visual Insights

