ISP Bandwidth Report



- **To:** Senior Network Planners
- **From:** Network Performance Analysis Team
- **Subject:** WAN Link Performance Report & Recommendation
- **Location:** CSK Tanishq store, Kolkata
- **Vendor / Link Type: ** AIRTEL / DBB
- **Business Hours:** 09:00-18:00
- **Provisioned Speed:** 500.0 Mbps

1. Usage Pattern Analysis

The 500 Mbps link is significantly underutilized, with average usage below 1% of its total capacity. While traffic is higher during business hours, absolute usage remains very low. The data reveals a single, isolated one-minute peak that consumed 95% of the bandwidth (474 Mbps). This indicates a rare, high-volume data burst, such as a large file transfer or backup, rather than consistent high demand. For 99% of the time, usage remains below 8.22 Mbps.

2. Capacity Planning Recommendations

The link is heavily over-provisioned for its demonstrated needs, leading to unnecessary operational costs. Based on sustained usage patterns, we recommend right-sizing the circuit.

- * **Conservative Plan:** 2.7 Mbps
- * **Balanced Plan:** 3 Mbps
- * **Aggressive Plan:** 522 Mbps (Retain for rare peaks)

We suggest adopting the **Balanced 3 Mbps** plan, which comfortably covers all typical usage with a buffer for growth.

3. Performance Risks & Bottlenecks

There is no current risk of network congestion or performance degradation. The brief high-usage spike did not exceed the provisioned limit. The primary risk associated with this link is financial inefficiency due to the severe mismatch between provisioned capacity and actual consumption.

Conclusion

The link should be downgraded to a 3-5 Mbps plan to align capacity with actual usage, which will generate significant cost savings while still accommodating typical demand.

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Visual Insights



