



WAN Link Performance & Sizing Report

- **Location:** CSB-Tanishq Store, Kolkata
- **Vendor:** AIRTEL
- **Link Type:** 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 at just 1.62 Mbps (0.3% of capacity). While overall consumption is low, the connection experiences extremely brief but massive traffic spikes, with one peak reaching 1296.04 Mbps. As expected, usage is higher during business hours, but still remains minimal compared to the available bandwidth. The link is consistently stable, operating below 50% of its capacity 100% of the time, excluding momentary bursts.

2. Capacity Planning Recommendations

The link is severely over-provisioned for current, sustained operational needs. Based on typical peak usage (95th percentile of 6.25 Mbps), the circuit can be right-sized to reduce costs.

- **Conservative Sizing:** 7.5 Mbps
- **Balanced Sizing:** 9 Mbps
- **Aggressive Sizing:** 1426 Mbps

We recommend adopting the **Balanced** strategy and reprovisioning the link to **10 Mbps**.

3. Performance Risks & Bottlenecks

The primary performance risk is the anomalous peak usage that vastly exceeds the 500 Mbps provisioned speed. These intense bursts, though lasting only minutes, indicate a potential for packet loss and service degradation when they occur. While not causing sustained congestion, the source of these spikes (e.g., backups, large file transfers) should be investigated to understand their business impact.

Conclusion

The link should be downgraded to a 10 Mbps plan to align capacity with sustained usage and achieve significant cost savings.

Visual Insights

