

## WAN Link Performance & Sizing Report

**\*\*Location:\*\*** GOR-Tanishq Store, Mumbai

**\*\*Vendor/Link:\*\*** AIRTEL DBB (500 Mbps)

**\*\*Business Hours:\*\*** 10:00–21:00

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### 1. Usage Pattern Analysis

The 500 Mbps link is significantly underutilized. Average usage is only 1.53 Mbps (0.3% of capacity), with 95% of all usage falling below 6 Mbps. While traffic is higher during business hours, utilization remains extremely low. An isolated and anomalous peak of 875 Mbps was recorded, but this behavior is not representative of typical daily operations.

### 2. Capacity Planning Recommendations

The link is heavily over-provisioned for current and projected needs. Based on sustained 95th percentile usage, a rightsized plan is recommended.

- **\*\*Conservative:\*\*** 7.1 Mbps
- **\*\*Balanced:\*\*** 9 Mbps
- **\*\*Aggressive:\*\*** 962 Mbps

A balanced provisioning speed of **\*\*10 Mbps\*\*** is recommended, which covers peak operational needs and includes a buffer for future growth.

### 3. Performance Risks & Bottlenecks

Sustained congestion is not a risk. However, the one-time traffic burst to 875 Mbps (175% of capacity) indicates a potential unmanaged process or configuration issue. While infrequent, such bursts can cause packet loss. This anomaly should be investigated, but it does not justify the current link capacity.

### Conclusion

The link should be downgraded from 500 Mbps to a **\*\*10 Mbps\*\*** plan to align capacity with actual business requirements and achieve substantial cost optimization.

## Visual Insights

