



## WAN Link Performance & Sizing Report

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

**\*\*Vendor:\*\*** BHARTI AIRTEL LIMITED

**\*\*Link Type:\*\*** ILL

**\*\*Business Hours:\*\*** 10:00–18:00

**\*\*Provisioned Speed:\*\*** 35.0 Mbps

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### 1. Usage Pattern Analysis

The 35 Mbps link is significantly underutilized, with average usage at only 7% of its provisioned capacity. Traffic is 2.7 times higher during business hours, which aligns with expected operational patterns. The data shows highly bursty traffic, including an anomalous peak of nearly 1500 Mbps, which is likely a reporting error. Excluding this outlier, typical sustained usage remains low, with usage rarely exceeding 70% of capacity.

### 2. Capacity Planning Recommendations

The link is heavily over-provisioned. Based on a sustained usage (95th percentile) of 6.92 Mbps, we recommend right-sizing the circuit to reduce costs.

- **\*\*Conservative:\*\*** 8.3 Mbps
- **\*\*Balanced:\*\*** 10 Mbps
- **\*\*Aggressive:\*\*** 1649 Mbps (Note: This is skewed by the data anomaly)

The **\*\*Balanced plan of 10 Mbps\*\*** is recommended, as it comfortably covers daily peak averages (8.55 Mbps).

### 3. Performance Risks & Bottlenecks

The primary risk is financial inefficiency, not performance. While traffic is bursty and has exceeded 90% capacity for 156 minutes, the link remains stable 99.78% of the time. The extreme peak data point does not represent a realistic congestion threat and should be investigated as a potential monitoring glitch.

### Conclusion

The link should be downgraded to optimize costs; a new provisioning target of **\*\*10 Mbps\*\*** is recommended.

## Visual Insights

