



## WAN Link Performance & Strategy Report

\*\*Location:\*\* Ludhiana CFA, Ludhiana

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

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

\*\*Business Hours:\*\* 09:00–18:00

\*\*Provisioned Speed:\*\* 10.0 Mbps

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### 1. Usage Pattern Analysis

The link is significantly underutilized, with average usage at just 1.1% of its 10 Mbps capacity. Traffic primarily occurs during business hours, but overall demand remains low. However, the analysis reveals highly irregular, short-duration traffic bursts. One anomalous peak was recorded at over 1100 Mbps, suggesting a potential measurement error or a misconfigured burstable rate from the vendor that far exceeds the contracted speed.

### 2. Capacity Planning Recommendations

The link is severely over-provisioned for sustained, day-to-day operations. For 99% of the time, usage remains below 1.5 Mbps. We recommend rightsizing the circuit to better match actual demand.

- \*\*Conservative:\*\* 5 Mbps
- \*\*Balanced (Recommended):\*\* 2 Mbps
- \*\*Aggressive:\*\* 1 Mbps

A 2 Mbps circuit would comfortably handle typical peak demand while delivering significant cost savings.

### 3. Performance Risks & Bottlenecks

The primary risk is the unpredictable, extreme traffic bursts. While infrequent, these bursts cause brief but severe congestion, exceeding 90% capacity for a total of 44 minutes. The peak usage exceeding 1100 Mbps requires immediate investigation with the vendor to understand its cause and prevent potential service disruption.

### Conclusion

This link should be downgraded to 2 Mbps after a mandatory investigation into the cause of the anomalous high-speed traffic bursts is completed.

## Visual Insights

