



## WAN Link Performance & Sizing Report

**\*\*Location:\*\*** AHMEDABAD-CFA-branch, Ahmedabad

**\*\*Vendor:\*\*** BHARAT SANCHAR NIGAM LTD

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

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

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

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### 1. Usage Pattern Analysis

The 10 Mbps link is significantly underutilized, with average usage at only 4.1% of its capacity. While traffic is predictably higher during business hours, overall utilization remains very low. However, the link experiences infrequent but extremely high traffic spikes, indicating anomalous activity rather than consistent workload. The usage trend is stable, with no organic growth.

### 2. Capacity Planning Recommendations

The link is substantially over-provisioned for routine operations. Based on sustained usage patterns (95th percentile at 1.89 Mbps), a rightsized circuit is recommended.

\* **\*\*Conservative:\*\*** 2.3 Mbps

\* **\*\*Balanced (Recommended):** 3 Mbps\*\*

\* **\*\*Aggressive:\*\*** 81 Mbps

We recommend reprovisioning the link to the **\*\*Balanced 3 Mbps\*\*** target.

### 3. Performance Risks & Bottlenecks

Despite low average use, the link poses a significant performance risk due to extreme traffic bursts. Peak usage has been recorded at 73.25 Mbps—over seven times the provisioned capacity. These events create severe, albeit temporary, congestion and will lead to service degradation and packet loss during the spikes.

### Conclusion

This link should be downgraded to a 3 Mbps circuit to align costs with typical usage, but an urgent investigation into the cause of the extreme traffic bursts is necessary.

## Visual Insights

