WAN Link Performance & Sizing Report

* **Location:** TCLRON-RO-DELHI, Delhi
* **Vendor:** BHARTI AIRTEL LIMITED
* **Link Type:** Broadband
* **Business Hours:** 09:00–18:00
* **Provisioned Speed:** 600.0 Mbps

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1. Usage Pattern Analysis

The link is severely underutilized. Business hour usage averages just 16.15 Mbps, a fraction of the 600 Mbps provisioned capacity. While sustained usage is consistently low, an extreme peak of 5,817 Mbps was recorded. This significant anomaly suggests a potential monitoring error or an unmanaged data burst that requires further investigation.

2. Capacity Planning Recommendations

This circuit is significantly over-provisioned, presenting a clear opportunity for cost optimization. Based on sustained usage patterns (95th percentile at 35 Mbps), we recommend right-sizing. A tiered strategy includes:
* **Conservative:** 42 Mbps
* **Balanced:** 52 Mbps
* **Aggressive (with growth):** 60 Mbps

We recommend adopting the **Balanced 52 Mbps** plan.

3. Performance Risks & Bottlenecks

The primary risk identified is the anomalous peak usage, which exceeds the provisioned limit by nearly tenfold. If this represents a real traffic event, it indicates a severe, unmanaged process that could cause major service disruption. Otherwise, there is no evidence of regular congestion, with the link performing excellently 99.98% of the time.

Conclusion

The link should be downgraded to a **52 Mbps** plan to align service costs with actual utilization without impacting performance.

Visual Insights

2 Hour Average Bandwidth Usage

Bandwidth Usage Distribution