



WAN Link Performance & Sizing Report

Location: Hyderabad AO, Hyderabad

Vendor: ACT

Link Type: ILL

Business Hours: 09:00–18:00

Provisioned Speed: 20.0 Mbps

1. Usage Pattern Analysis

This link is significantly underutilized, with average use below 2% of its 20 Mbps capacity. Traffic is concentrated during business hours. However, the link exhibits highly irregular behavior, characterized by extremely short but intense traffic bursts. One peak was recorded at an anomalous 1693 Mbps, likely a monitoring error, though visual data confirms bursts periodically exceed the provisioned 20 Mbps limit.

2. Capacity Planning Recommendations

The link is heavily over-provisioned for typical, sustained workloads. Based on actual usage patterns, we recommend right-sizing the circuit.

* **Conservative:** 10 Mbps

* **Balanced (Recommended): 10 Mbps**

* **Aggressive:** 5 Mbps

A 10 Mbps circuit would provide substantial cost savings while comfortably handling 99% of all traffic, including sustained daily peaks.

3. Performance Risks & Bottlenecks

The primary risk is performance degradation due to bursty traffic. Despite low average usage, these intense bursts create congestion, leading to packet loss and poor application response. Data shows the 90% capacity threshold was breached for 103 minutes, confirming these incidents impact service quality. The current 20 Mbps link is insufficient to handle these brief, high-demand periods.

Conclusion

The link should be downgraded to a 10 Mbps plan to align costs with realistic peak usage while mitigating performance risks from traffic bursts.

Visual Insights

