



## WAN Link Performance & Sizing Report

**\*\*Location:\*\*** Hyderabad AO, Hyderabad

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

**\*\*Link Type:\*\*** DBB

**\*\*Business Hours:\*\*** 09:00–18:00

**\*\*Provisioned Speed:\*\*** 300.0 Mbps

---

### 1. Usage Pattern Analysis

The 300 Mbps link is significantly underutilized, with an average usage of only 1.2% of its capacity. Traffic is concentrated during business hours, accounting for over 91% of total data transfer, while off-hour usage is minimal. The overall usage trend is stable, with no projected growth. The vast majority of the time (99.8%), the link operates under 50% capacity, indicating excellent performance and no sustained congestion.

### 2. Capacity Planning Recommendations

The link is heavily over-provisioned. Rightsizing based on the 95th percentile usage of 17.70 Mbps would align costs with actual demand. We recommend a balanced provisioning strategy:

- **\*\*Conservative:\*\*** 21.2 Mbps
- **\*\*Balanced (Recommended):\*\*** 27 Mbps
- **\*\*Aggressive:\*\*** 1577 Mbps (Note: Based on an anomalous peak, not for planning)

A revised capacity of **\*\*30 Mbps\*\*** is recommended, accommodating the balanced plan with a 15% buffer for future growth.

### 3. Performance Risks & Bottlenecks

While average use is low, the link experienced rare but extreme usage spikes, peaking at 1433.67 Mbps—nearly five times its provisioned limit. These anomalous bursts were very brief, totaling only 11 minutes above 90% capacity. While not currently impacting overall SLA compliance (99.93%), these events suggest irregular activity, such as large unscheduled data transfers, that should be investigated to ensure future network stability.

---

### Conclusion

The link should be downgraded to optimize costs; a new provisioning target of **\*\*30 Mbps\*\*** is recommended.

## Visual Insights

