



Network Performance & Capacity Report

- **Location:** TEAL2-MUDUGANAPALLI-branch, Hosur
- **Vendor:** BHARTI AIRTEL LIMITED
- **Link Type:** ILL
- **Business Hours:** 09:00–18:00
- **Provisioned Speed:** 150.0 Mbps

1. Usage Pattern Analysis

Overall link utilization is low, averaging just 10.8% of the 150 Mbps capacity. Usage is concentrated during business hours, with traffic patterns being very "bursty"—characterized by frequent, short-lived peaks rather than sustained high demand. A significant anomalous spike of over 1000 Mbps was recorded, which requires investigation as a potential misconfiguration or security event.

2. Capacity Planning Recommendations

The link is significantly over-provisioned for its typical workload. Based on sustained peak usage (95th percentile of 56.44 Mbps), we recommend rightsizing the circuit.

- **Conservative Target:** 70 Mbps
- **Balanced Target:** 85 Mbps
- **Recommended Speed:** 100 Mbps (Balanced target + 15% for future growth)

3. Performance Risks & Bottlenecks

Despite low average use, the link experienced nearly four hours of congestion (>90% capacity), which impacts user experience during peak bursts. The extreme peak usage far exceeds the provisioned speed, indicating a burstable rate configuration that could lead to unpredictable performance or billing if not managed.

Conclusion

The link is over-provisioned and can be downgraded from 150 Mbps to a more cost-effective 100 Mbps plan without risking performance.

Visual Insights

