



Network Performance & Capacity Report

****Location:**** Hubli_Branch, Hubli
****Vendor:**** BHARTI AIRTEL LIMITED
****Link Type:**** ILL
****Business Hours:**** 09:00–18:00
****Provisioned Speed:**** 20.0 Mbps

1. Usage Pattern Analysis

The 20 Mbps link is significantly underutilized, with an average usage of only 1.6% of its total capacity. Consumption follows a predictable pattern, concentrated within business hours. While general use is low, the link experiences very brief but intense traffic bursts that cause temporary saturation. The recorded peak of 567.68 Mbps is an anomaly, likely due to a monitoring data error, as it exceeds the physical limit of the circuit.

2. Capacity Planning Recommendations

The link is heavily over-provisioned for current sustained demand. Based on the 95th percentile usage of 1.43 Mbps, we recommend rightsizing the circuit.

- ****Conservative:**** 1.7 Mbps
- ****Balanced:**** 2 Mbps
- ****Aggressive:**** 624 Mbps (Invalidated by data anomaly)

A ****Balanced 2 Mbps**** plan is recommended to align capacity with demonstrated need while ensuring a performance buffer.

3. Performance Risks & Bottlenecks

The primary performance risk is intermittent congestion. Despite being idle 99% of the time, the link experiences short spikes of high-volume, bursty traffic that exceed 90% of its capacity. These moments can temporarily degrade application performance for all users.

Conclusion

The link should be downgraded to a ****2 Mbps**** plan to align with operational requirements and achieve immediate cost savings.

Visual Insights

