ISP Bandwidth Report



Bandwidth Performance & Capacity Report

- **Location:** Bhiwandi-OLD-CFA-146-branch, Bhiwandi
- **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 average usage at only 1.6% of its total capacity. While overall traffic is low, analysis reveals infrequent but extreme traffic bursts that far exceed the provisioned speed, occurring primarily during business hours. For 99% of the time, usage remains below 5.21 Mbps, confirming that the link is mostly idle.

2. Capacity Planning Recommendations

This circuit is heavily over-provisioned. Based on sustained usage patterns (95th percentile at 1.34 Mbps), a right-sized plan is needed. We propose the following options for reprovisioning:

- * **Conservative:** 2 Mbps
- * **Balanced (Recommended):** 5 Mbps
- * **Aggressive:** 10 Mbps

We recommend a balanced approach of **5 Mbps**, which safely covers 99% of all usage with room for growth.

3. Performance Risks & Bottlenecks

Despite low average use, the link experienced 79 minutes of congestion where usage exceeded 90% capacity. The primary risk stems from massive, short-lived traffic spikes (peaking at an anomalous 110.80 Mbps). These bursts saturate the connection and can cause application slowdowns, timeouts, and packet loss for users during those brief periods.

Conclusion

The link should be downgraded to **5 Mbps** to align capacity with actual demand, significantly reduce operational costs, and provide sufficient headroom for peak traffic.

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Visual Insights



