ISP Bandwidth Report



WAN Link Performance & Sizing Report

- **Location:** Bhubaneswar CFA, Bhubaneswar
- **Vendor:** Bharat Sanchar Nigam Ltd
- **Link Type:** DBB
- **Business Hours:** 09:00-18:00
- **Provisioned Speed:** 50.0 Mbps

1. Usage Pattern Analysis

The 50 Mbps link is severely underutilized, with average usage at less than 1% of its total capacity. While traffic is five times higher during business hours (09:00-18:00), it remains consistently low. The primary anomaly is the presence of brief but extremely high-speed traffic bursts that far exceed the provisioned limit.

2. Capacity Planning Recommendations

The link is significantly over-provisioned for current needs. Sustained peak usage (95th percentile) is only 2.49 Mbps, suggesting a much smaller circuit would be more cost-effective. A data-driven provisioning strategy is as follows:

- **Conservative:** 3 Mbps
- **Balanced:** 4 Mbps
- **Aggressive:** 212 Mbps

We recommend the balanced approach, with an added buffer for future growth.

3. Performance Risks & Bottlenecks

The primary risk is not sustained congestion but sudden, intense traffic spikes. The observed peak of 193 Mbps on a 50 Mbps circuit creates a significant bottleneck, causing packet loss and temporary service degradation for all users during these moments.

Conclusion

We recommend downgrading this link to a new provisioned speed of **5 Mbps** to align costs with actual usage while proactively accommodating projected growth.

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Visual Insights



