



Subject: WAN Link Performance & Capacity Report

****Location:**** Hubli_Branch, Hubli
****Vendor:**** TCL
****Link Type:**** ILL
****Business Hours:**** 09:00–18:00
****Provisioned Speed:**** 10.0 Mbps

1. Usage Pattern Analysis

The 10 Mbps link is significantly underutilized, with an average use of only 1.7% of its capacity. Usage is concentrated during business hours as expected. However, the connection experiences infrequent but extreme usage spikes, with a recorded peak of 17.26 Mbps. This indicates highly bursty traffic behavior rather than sustained high demand.

2. Capacity Planning Recommendations

The link is heavily over-provisioned for current operational needs. Based on sustained usage (95th percentile: 0.63 Mbps), we propose rightsizing the circuit. The following provisioning targets are suggested:

- * ****Conservative:**** 0.8 Mbps
- * ****Balanced:**** 1 Mbps
- * ****Aggressive:**** 19 Mbps

We recommend adopting the ****Balanced**** strategy and reprovisioning the link to ****1 Mbps****.

3. Performance Risks & Bottlenecks

Despite low average use, the link faces definite congestion risks. Peak usage has exceeded the 10 Mbps provisioned capacity by over 70%, causing temporary performance degradation and potential packet loss during these brief periods. This confirms some applications are attempting to burst well beyond the circuit's limit.

Conclusion

The link should be downgraded to ****1 Mbps**** to align with actual usage and achieve significant cost savings, while continuing to monitor application performance during peak bursts.

Visual Insights

