



****To:**** Senior Network Planners & Decision-Makers
****Subject:**** WAN Link Performance & Sizing Report: Hoskote-CFA-branch

****Location:**** Hoskote-CFA-branch, Bengaluru
****Vendor:**** AIRTEL
****Link Type:**** Internet Leased Line (ILL)
****Provisioned Speed:**** 20.0 Mbps

1. Usage Pattern Analysis

The link is significantly underutilized, with average usage at only 5.3% of its 20 Mbps capacity. While general traffic is low, the connection experiences extreme, short-lived bursts, with one peak recorded at 500 Mbps. For over 99% of the time, usage remains well below capacity, with predictable increases during business hours (09:00–18:00).

2. Capacity Planning Recommendations

The current 20 Mbps circuit is heavily over-provisioned for the typical workload. Based on sustained 95th percentile usage of 3.80 Mbps, we advise right-sizing the connection.

* ****Conservative:**** 4.6 Mbps
* ****Balanced:**** 6 Mbps
* ****Aggressive:**** 550 Mbps (Not Recommended)
We recommend adopting the ****Balanced 6 Mbps**** plan.

3. Performance Risks & Bottlenecks

The primary risk is severe, intermittent congestion. The anomalous peak usage of 500 Mbps is 25 times the provisioned speed, which causes significant packet loss and service disruption during these events. The cause of these extreme bursts requires immediate investigation.

Conclusion

We recommend downgrading this link to a ****6 Mbps**** plan for immediate cost savings and investigating the source of the anomalous peak traffic to mitigate performance risk.

Visual Insights

