



****To**:** Senior Network Planners
****From**:** Network Performance Analysis Team
****Subject**:** WAN Link Performance & Optimization Report

****Location**:** HYDERABAD-SmartLAB-Wearables, HYDERABAD
****Vendor**:** BEAM TELECOM PVT LTD
****Link Type**:** ILL
****Business Hours**:** 09:00–18:00
****Provisioned Speed**:** 200.0 Mbps

****Usage Pattern Analysis****

This link is profoundly underutilized. Average usage is less than 1% of the provisioned capacity, peaking at only 2.61 Mbps during business hours. The overall usage trend is stable with no growth, indicating that current demand is consistently low. While general usage is predictable, the link experienced a brief, anomalous traffic burst that far exceeded normal patterns.

****Capacity Planning Recommendations****

The 200 Mbps circuit is significantly over-provisioned. Based on sustained usage patterns, where 95% of demand is below 6.40 Mbps, a major downgrade is warranted.

* ****Conservative Plan**:** 7.7 Mbps
* ****Balanced Plan**:** 10 Mbps
* ****Aggressive Plan**:** 363 Mbps

We strongly recommend rightsizing this link to the ****Balanced Plan of 10 Mbps****. This aligns capacity with actual demand while maintaining a sufficient buffer.

****Performance Risks & Bottlenecks****

There is no risk of sustained congestion. However, a one-time peak of 330 Mbps was recorded, exceeding the provisioned capacity by 165%. This indicates a non-standard event, such as a large data transfer or a device misconfiguration, that should be investigated to prevent future unpredictable spikes.

****Conclusion****

The link should be downgraded to ****10 Mbps**** to eliminate unnecessary operational costs while safely meeting all current and projected business needs.

Visual Insights

