



Network Performance & Strategy Report

****Location:**** GOR-Tanishq Store, Mumbai

****Vendor:**** BHARTI AIRTEL LIMITED

****Link Type:**** ILL

****Business Hours:**** 10:00–21:00

****Provisioned Speed:**** 35.0 Mbps

1. Usage Pattern Analysis

The 35 Mbps link is significantly underutilized, with average usage at only 1.1% of its total capacity. While traffic correctly aligns with business hours, analysis reveals extreme and infrequent traffic spikes, including a peak of 150.57 Mbps. This peak exceeds the provisioned speed by over 400%, indicating a potential data anomaly or an unmanaged application causing severe, short-lived bursts.

2. Capacity Planning Recommendations

The circuit is severely over-provisioned for current operational needs. Based on typical peak usage (95th percentile) of less than 1 Mbps, we recommend right-sizing the link. The provisioning options are:

* ****Conservative:**** 1.0 Mbps

* ****Balanced:**** 1.0 Mbps

* ****Aggressive:**** 166.0 Mbps (Based on the extreme anomaly)

We recommend a ****Balanced provisioning of 1.0 Mbps****.

3. Performance Risks & Bottlenecks

The primary performance risk is not general congestion but the anomalous high-impact bursts. While SLA compliance is excellent (99.92%), these extreme spikes, though rare, can momentarily degrade or disrupt critical services. The root cause of usage exceeding the physical line speed requires investigation.

Conclusion

The link should be downgraded to ****1.0 Mbps**** for immediate cost optimization, pending an investigation into the cause of the anomalous peak traffic.

Visual Insights

