



WAN Link Performance & Sizing Report

****Location:**** CAN-Tanishq store, Chennai
****Vendor:**** AIRTEL
****Link Type:**** ILL
****Provisioned Speed:**** 35.0 Mbps

1. Usage Pattern Analysis

The 35 Mbps link is significantly underutilized, with average usage at only 1.5% of its capacity. While demand doubles during business hours (10:00–18:00), it remains low overall. However, the connection experiences rare but extremely high bursts of traffic, with a recorded peak of 88.84 Mbps. This indicates an underlying application or device is causing intermittent, high-intensity data transfers.

2. Capacity Planning Recommendations

The link is heavily over-provisioned for its typical workload. Based on sustained usage (95th percentile at 2.28 Mbps), a much lower capacity is sufficient. We propose the following right-sizing options:

- * ****Conservative:**** 2.7 Mbps
- * ****Balanced:**** 3 Mbps
- * ****Aggressive:**** 98 Mbps

We suggest a ****Balanced**** provisioning target of ****3 Mbps**** to align cost with actual sustained demand.

3. Performance Risks & Bottlenecks

The primary risk is performance degradation from traffic bursts. The peak usage significantly exceeds the provisioned 35 Mbps, which will cause packet loss and service interruptions during these brief events. Although infrequent, these spikes create a bottleneck that impacts application stability.

Conclusion

The link is severely over-provisioned and should be downgraded to better match operational needs; we recommend a new provisioning target of ****3 Mbps****.

Visual Insights

