



WAN Link Performance & Sizing Report

- **Location:** CPV-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 below 1% of its capacity. Usage doubles during business hours but remains very low overall. The key anomaly is the presence of infrequent but extremely high usage bursts that far exceed the link's provisioned speed. For 99.9% of the time, the link operates well within its capacity, indicating a mismatch between provisioned speed and typical demand.

2. Capacity Planning Recommendations

This circuit is heavily over-provisioned. Sustained usage, measured at the 95th percentile, is only 1.08 Mbps. A right-sizing strategy is recommended to align costs with actual requirements.

- **Provisioning Targets:** Conservative: 1.3 Mbps, **Balanced (Suggested): 2 Mbps**, Aggressive: 172 Mbps.

3. Performance Risks & Bottlenecks

The primary risk is not from consistent high traffic but from sudden, massive spikes. The observed peak usage of 156.53 Mbps dramatically exceeds the 35 Mbps limit. These bursts, while rare, will cause severe packet loss and application performance degradation when they occur.

Conclusion

We recommend downgrading this link to a **2 Mbps** plan to align with typical usage and achieve significant cost savings.

Visual Insights

