WAN Link Performance & Optimization Report

Location: KOLKATA-38-RO-EAST, KOLKATA
Vendor: TCL
Link Type: ILL
Business Hours: 09:00–18:00
Provisioned Speed: 100.0 Mbps

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1. Usage Pattern Analysis

The link is severely underutilized, with average usage at only 2% of its 100 Mbps capacity. While traffic is ten times higher during business hours, sustained usage remains low, with the 95th percentile at just 9.62 Mbps. An extremely high, anomalous peak of 1377.6 Mbps was recorded, which requires further investigation as it points to a measurement error or unusual burst activity.

2. Capacity Planning Recommendations

The current 100 Mbps circuit is significantly over-provisioned. Based on actual usage, we recommend a right-sizing initiative. The following provisioning targets are suggested:
* **Conservative:** 11.5 Mbps
* **Balanced (Recommended):** 14 Mbps
* **Aggressive:** 15.5 Mbps

Adopting the **Balanced** strategy and reprovisioning to **14 Mbps** will align costs with demonstrated need while providing sufficient headroom.

3. Performance Risks & Bottlenecks

The primary risk is not typical congestion but infrequent, extreme bursts. The recorded peak usage far exceeds the provisioned limit, indicating a potential data anomaly or misconfigured bursting capability that warrants a technical review. These short bursts account for the 29 minutes of high utilization.

Conclusion

This link is over-provisioned and should be downgraded to a recommended provisioning target of 14 Mbps.

Visual Insights

2 Hour Average Bandwidth Usage

Bandwidth Usage Distribution