WAN Link Performance & Capacity Report

Location: HSR-MEADOWS-005-branch, Bengaluru
Vendor: TCL
Link Type: MPLS
Business Hours: 09:00–18:00
Provisioned Speed: 4.0 Mbps

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1. Usage Pattern Analysis

Overall usage averages just 7% of the 4 Mbps capacity, with traffic concentrated during business hours. However, the link experiences frequent, intense bursts that saturate the connection. The 99th percentile usage is 4.14 Mbps, indicating the connection is regularly maxed out, causing performance degradation despite the low average utilization.

2. Capacity Planning Recommendations

The link is critically under-provisioned for peak demand. While a 95th percentile analysis suggests a 2.0 Mbps balanced target, this fails to account for the frequent congestion. Provisioning must be based on the 99th percentile to ensure acceptable performance.
- **Conservative:** 1.9 Mbps
- **Balanced:** 2.0 Mbps
- **Aggressive:** 154 Mbps

3. Performance Risks & Bottlenecks

A significant congestion risk exists, with the link operating above 90% capacity for over 73 hours during the analysis period. These recurring saturation events create a performance bottleneck, severely impacting real-time applications and user experience during peak business hours.

Conclusion

The link requires an immediate upgrade to mitigate performance risks; we recommend increasing the provisioned speed to 5 Mbps to accommodate current peaks and support near-term growth.

LinkEye

Visual Insights

2 Hour Average Bandwidth Usage

Bandwidth Usage Distribution