



**\*\*To\*\*:** Network Planning & Decision-Makers  
**\*\*From\*\*:** Bandwidth & Performance Analysis Team  
**\*\*Subject\*\*:** WAN Link Performance Report & Recommendation  
**\*\*Location\*\*:** Hoskote-CFA-branch, Bengaluru  
**\*\*Vendor\*\*:** RELIANCE JIO INFOCOMM LIMITED  
**\*\*Link Type\*\*:** ILL  
**\*\*Business Hours\*\*:** 09:00–18:00  
**\*\*Provisioned Speed\*\*:** 50.0 Mbps

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## ### \*\*1. Usage Pattern Analysis\*\*

The 50 Mbps link is significantly underutilized, with average usage at only 1.3% of its total capacity. Traffic patterns are predictable, peaking at 1.11 Mbps during business hours. While the link is stable, we observed a brief, anomalous burst of 357 Mbps, which is not representative of typical usage. Sustained hourly peaks consistently remain below 4 Mbps, indicating that daily operations do not strain the circuit.

## ### \*\*2. Capacity Planning Recommendations\*\*

This link is heavily over-provisioned. Based on a 95th percentile usage of 2.67 Mbps, a rightsizing strategy is recommended:

- \* **\*\*Conservative\*\*:** 3.2 Mbps
- \* **\*\*Balanced\*\*:** 4 Mbps
- \* **\*\*Aggressive\*\*:** 393 Mbps (Based on anomaly; not advised)

Considering the 13.3% monthly growth trend, a **\*\*5 Mbps\*\*** plan is the ideal balanced recommendation to accommodate future needs while realizing immediate cost savings.

## ### \*\*3. Performance Risks & Bottlenecks\*\*

There is currently no risk of network congestion or performance degradation due to traffic volume. The primary operational risk is financial inefficiency from maintaining an oversized circuit. The extreme peak usage anomaly, while brief, should be investigated to rule out equipment misconfiguration or unauthorized activity.

## ### \*\*Conclusion\*\*

This link is significantly over-provisioned and should be downgraded to a **\*\*5 Mbps\*\*** plan to align costs with actual usage while accommodating future growth.

## Visual Insights

