



WAN Link Performance & Strategy Report

- **Location**: PUNE CFA, PUNE
- **Vendor**: JIO
- **Link Type**: ILL
- **Business Hours**: 09:00–18:00
- **Provisioned Speed**: 10.0 Mbps

1. Usage Pattern Analysis

The link is significantly underutilized, with average usage at only 3.1% of its 10 Mbps capacity. While traffic is ten times higher during business hours, it remains low overall. The key finding is the presence of rare but extremely high traffic bursts (peaking at 582.80 Mbps), which are anomalies and not representative of normal operations. The usage trend is stable with no projected growth.

2. Capacity Planning Recommendations

This circuit is heavily over-provisioned for its current, sustained demand. Based on a 95th percentile usage of 1.64 Mbps, we recommend right-sizing the link.

- **Conservative**: 2.0 Mbps
- **Balanced (Recommended)**: 2.0 Mbps
- **Aggressive**: 641 Mbps

A 2 Mbps balanced plan is sufficient for current operational needs.

3. Performance Risks & Bottlenecks

Despite low average use, the link experienced 170 minutes of congestion (over 90% capacity). The primary performance risk stems from the anomalous, high-volume bursts that temporarily saturate the connection, likely causing packet loss. These events, while infrequent (0.20% of the time), are the sole cause of performance degradation.

Conclusion

The link should be downgraded to a 2 Mbps circuit to align with actual usage, generating significant cost savings while maintaining performance.

Visual Insights

