



WAN Link Performance & Sizing Report

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

1. Usage Pattern Analysis

The 10 Mbps link is significantly underutilized, with average usage consistently below 1% of its provisioned capacity. Traffic patterns are stable, showing a predictable and minor increase during business hours. For over 99.9% of the time, usage remains well under 50% of the available bandwidth. The data shows no growth trend; in fact, usage is slightly decreasing.

2. Capacity Planning Recommendations

The link is heavily over-provisioned. Based on sustained usage data, we recommend rightsizing the circuit to align with actual business needs and optimize operational costs.

* **Conservative:** 2 Mbps
* **Balanced (Recommended):** 1 Mbps
* **Aggressive:** 1 Mbps

A **1 Mbps** plan is the recommended target, as it would still provide more than double the capacity needed during 99% of operational time.

3. Performance Risks & Bottlenecks

The primary performance risk is from infrequent but intense traffic bursts. A peak of 12.55 Mbps was recorded, exceeding the 10 Mbps limit. While extremely rare (totaling 3 minutes), these events cause temporary packet loss and service degradation. This suggests an unmanaged process or application is creating brief but problematic network congestion.

Conclusion

This link is severely over-provisioned and should be downgraded to a **1 Mbps** plan to generate significant cost savings without impacting routine performance.

Visual Insights

