



## WAN Link Performance Report

- **Location:** TEAL2-MUDUGANAPALLI-branch, Hosur
- **Vendor:** AIRFIBER
- **Link Type:** ILL
- **Business Hours:** 09:00–18:00
- **Provisioned Speed:** 200.0 Mbps

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### 1. Usage Pattern Analysis

The 200 Mbps link is significantly underutilized, with average usage at only 2.1% of its total capacity. While traffic correctly peaks during business hours, sustained usage remains low. An anomalous peak of 1085.52 Mbps was recorded, indicating extreme but very brief burst traffic. This behavior is an outlier, as typical usage, even at the 99th percentile, is only 25.75 Mbps.

### 2. Capacity Planning Recommendations

The link is heavily over-provisioned. Based on sustained usage patterns (95th percentile at 12.29 Mbps), a significant downgrade is recommended to align costs with actual needs.

- **Conservative:** 15 Mbps
- **Balanced:** 18 Mbps
- **Aggressive:** Not recommended due to anomalous peak data.

We advise provisioning the link to **20 Mbps**, accommodating the balanced strategy plus a 15% buffer for growth.

### 3. Performance Risks & Bottlenecks

The primary risk is the extreme burst traffic, which spikes to over 500% of the provisioned capacity. While infrequent, these events can cause packet loss and degrade application performance. The source of this traffic should be investigated to ensure network stability and prevent unexpected service degradation.

### Conclusion

The link is over-provisioned and should be downgraded to a 20 Mbps plan to achieve significant cost savings, pending an investigation into the source of the anomalous peak traffic.

## Visual Insights

