



## WAN Link Performance & Strategy Report

**\*\*Location:\*\*** HSR-MEADOWS-005-branch, Bengaluru  
**\*\*Vendor:\*\*** AIRFIBER NETWORKS PVT LTD  
**\*\*Link Type:\*\*** DBB  
**\*\*Business Hours:\*\*** 09:00–18:00  
**\*\*Provisioned Speed:\*\*** 100.0 Mbps

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### 1. Usage Pattern Analysis

The link is significantly underutilized, with average usage at just 1.16 Mbps (1.2% of capacity). Traffic primarily occurs during business hours, but even then, the sustained peak average is only 7.34 Mbps. For 99.97% of the time, usage remains below 50% of the provisioned speed. However, analysis reveals extremely rare but massive traffic spikes, one of which reached 411.98 Mbps.

### 2. Capacity Planning Recommendations

The current 100 Mbps link is heavily over-provisioned for regular operational needs. Based on sustained usage, where the connection is below 4.59 Mbps for 95% of the time, a significant downgrade is warranted.

\* **\*\*Conservative:\*\*** 5.5 Mbps  
\* **\*\*Balanced:\*\*** 7.0 Mbps  
\* **\*\*Aggressive (to cover rare peaks):\*\*** 453.0 Mbps

We recommend the **\*\*Balanced\*\*** strategy, provisioning for future growth at **\*\*8.0 Mbps\*\***.

### 3. Performance Risks & Bottlenecks

While daily performance is excellent, the link experiences brief, anomalous bursts that dramatically exceed the 100 Mbps capacity. These events, though occurring less than 0.02% of the time, create a risk of severe congestion and packet loss, impacting applications during these short intervals.

### Conclusion

The link should be downgraded to **\*\*8.0 Mbps\*\*** to align costs with typical usage, while an investigation into the cause of the extreme traffic spikes is advised.

## Visual Insights

