



****Location:**** Madurai_Branch, Madurai
****Vendor:**** BHARTI AIRTEL LIMITED
****Link Type:**** DBB
****Business Hours:**** 09:00–18:00
****Provisioned Speed:**** 100.0 Mbps

1. Usage Pattern Analysis

The link is extremely underutilized, with average usage at only 0.4% of its 100 Mbps capacity. Traffic follows a typical business pattern, concentrated between 09:00–18:00. The connection experiences infrequent but extremely high-speed bursts, including an anomalous peak recorded at 509.60 Mbps, which suggests irregular, non-sustained data transfers rather than consistent high demand.

2. Capacity Planning Recommendations

This 100 Mbps circuit is significantly over-provisioned for current needs. Sustained usage, measured by the 95th percentile, is only 1.53 Mbps. We recommend rightsizing the circuit based on the following data-driven options:

- ****Conservative:**** 1.8 Mbps
- ****Balanced:**** 2 Mbps
- ****Aggressive:**** 561 Mbps

The recommended provisioning target is the ****Balanced 2 Mbps**** plan.

3. Performance Risks & Bottlenecks

The primary risk is financial inefficiency, not network congestion. While the link experienced 60 minutes above 90% capacity, these events were rare. The recorded peak usage of 509.60 Mbps far exceeds the provisioned speed and requires investigation, as it may indicate a burstable link configuration or a monitoring anomaly.

Conclusion

The link should be downgraded to align costs with actual usage; we recommend reducing the provisioned speed to ****2 Mbps****.

Visual Insights

