Network Performance & Capacity Report

Location: CAN-Tanishq store, Chennai
Vendor: ACT
Link Type: DBB (Dedicated Business Broadband)
Business Hours: 10:00–18:00
Provisioned Speed: 500.0 Mbps

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1. Usage Pattern Analysis

The 500 Mbps link is significantly underutilized, with average usage at only 1.36 Mbps (0.3% of capacity). Usage patterns align with business operations, peaking during business hours. For 99% of the time, bandwidth demand remains below 14 Mbps. The overall usage trend is stable with no projected growth, indicating consistent and low network demand.

2. Capacity Planning Recommendations

The link is severely over-provisioned. Actual sustained usage does not justify the current 500 Mbps circuit. Based on usage data, we recommend rightsizing the connection to align with operational needs and reduce costs.
* **Conservative:** 5.7 Mbps
* **Balanced (Recommended):** 7 Mbps
* **Aggressive:** 1406 Mbps
A provisioning target of **10 Mbps** would safely cover the balanced recommendation and future growth.

3. Performance Risks & Bottlenecks

While average use is low, the link experienced a brief, extreme burst reaching 1278.63 Mbps—well over double the provisioned speed. This one-minute anomaly indicates an unthrottled process (e.g., a large data transfer or update). While not causing sustained congestion, such bursts pose a risk if they occur during critical operations.

Conclusion

The link should be downgraded from 500 Mbps to a **10 Mbps** plan to eliminate significant over-provisioning and achieve substantial cost savings.

Visual Insights

2 Hour Average Bandwidth Usage

Bandwidth Usage Distribution