# **ISP Bandwidth Report**



## WAN Link Performance & Strategy Report

- \*\*Location:\*\* Surat Sourcing Office, Surat
- \*\*Vendor:\*\* TATA COMMUNICATIONS LIMITED
- \*\*Link Type:\*\* Broadband
- \*\*Business Hours:\*\* 09:00-18:00
- \*\*Provisioned Speed:\*\* 100.0 Mbps

\_\_\_

### 1. Usage Pattern Analysis

The link is significantly underutilized, with average usage at only 1.4% of its 100 Mbps capacity. Even during peak business hours, average usage is only 3.5 Mbps. Data shows that 95% of the time, usage remains below 8.1 Mbps. An abnormal, extreme usage spike was recorded, far exceeding the provisioned speed, which suggests a measurement anomaly or a severe, brief network event that requires investigation.

## 2. Capacity Planning Recommendations

The current 100 Mbps circuit is heavily over-provisioned for current and projected needs. Based on sustained usage patterns (95th percentile), we recommend resizing the circuit.

- \*\*Conservative:\*\* 9.7 Mbps
- \*\*Balanced (Recommended):\*\* 12 Mbps
- \*\*Aggressive:\*\* 3134 Mbps (Note: This is based on the data anomaly and should be disregarded.)

A balanced provisioning of \*\*12 Mbps\*\*, with a plan to accommodate 15% growth (to 13.8 Mbps), would be sufficient.

#### 3. Performance Risks & Bottlenecks

The primary risk is not from typical usage but from the identified anomalous burst activity. The peak usage was recorded at an impossible 2848 Mbps, indicating a potential misconfiguration or a security event causing a denial-of-service-like flood. While extremely rare (0.01% of the time), this behavior warrants further technical analysis to ensure network stability.

#### Conclusion

This link is severely over-provisioned; we recommend downgrading the circuit from 100 Mbps to \*\*12 Mbps\*\* to optimize costs without impacting performance.

# **ISP Bandwidth Report**



# **Visual Insights**



