



## WAN Link Performance & Optimization Report

- **Location:** Hosur\_Wat\_091HOSU030011392812, Bengaluru
- **Vendor:** TCL
- **Link Type:** Internet Leased Line (ILL)
- **Provisioned Speed:** 1000.0 Mbps

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### 1. Usage Pattern Analysis

Analysis of the 1000 Mbps circuit reveals significant underutilization. Average usage is only 8.9% of the available capacity, with predictable daily peaks that consistently remain below 500 Mbps. For 95% of the time, usage is under 386 Mbps. However, an anomalous peak of 5814 Mbps was recorded, which is over five times the provisioned speed. This appears to be an isolated event rather than a typical pattern.

### 2. Capacity Planning Recommendations

The link is substantially over-provisioned for current needs. Based on sustained usage data, we recommend right-sizing the circuit to better align with operational requirements and optimize costs.

- **Conservative Plan:** 463 Mbps
- **Balanced Plan (Recommended):** 579 Mbps
- **Aggressive Plan:** 6395 Mbps (Not advised; based on anomalous peak)

A new provisioning speed of **579 Mbps** is recommended.

### 3. Performance Risks & Bottlenecks

The primary performance risk is not from regular congestion but from the potential for extreme, short-lived data bursts, as evidenced by the 5814 Mbps peak. While very infrequent, such events can temporarily overwhelm network hardware. The cause of this massive, short burst should be investigated to mitigate future risk.

### Conclusion

The link should be downgraded to a **~600 Mbps** plan to align capacity with actual usage, generating significant cost savings while maintaining a sufficient buffer for growth.

## Visual Insights

