

## PRODUCT OVERVIEW

tbXMS by TechBridge is an advanced, centralized Network and IT Infrastructure Management solution. It empowers enterprises to monitor, manage, and streamline large-scale, multi-vendor environments across geographically dispersed locations. Designed for robust performance and high scalability, tbXMS ensures optimal uptime, proactive issue detection, and seamless integration with business processes, helping organizations maintain business continuity and operational excellence.

### Key Benefits



- Unified monitoring and management of all nodes and links across multiple locations.
- Proactive outage prevention with real-time event, fault, and SLA breach alerts.
- Rapid troubleshooting via intuitive dashboards, predictive analytics, and built-in RCA tools.
- Enhanced reporting with scheduled, customizable, and exportable reports.
- Automated workflows that reduce manual intervention and human error.
- Scalable architecture that evolves with organizational growth.

## CORE CAPABILITIES

- Node and location-based management, including bulk node uploads and automated category mapping.
- Real-time and historical performance monitoring for CPU, memory, jitter, packet loss, etc.
- Comprehensive dashboards with business-critical nodes, alarms, outages, and event analytics.
- Advanced topology management for visual network design and backup.
- Event-to-alarm conversion, intelligent root cause analysis, and predictive performance insights.
- Automatic and customized threshold settings, alerts, and role-based access controls (RBAC).
- Multi-format data export, including Excel, PDF, and scheduled email reports.
- Integration-ready API for third-party tool connectivity.

## INTELLIGENCE & AUTOMATION

- Predictive analytics for CPU, RAM, and network health trends based on historical data.
- Automated event correlation, SLA breach detection, and alarm escalation.
- AI-powered chatbots for guided troubleshooting and faster issue resolution.

- Automated topology creation, WAN link monitoring, and performance thresholding.
- Seamless auto-discovery of new devices in the network.

- Event and alarm logging for audit trails and compliance.
- Data encryption options for sensitive configuration and log data

## OMNICHANNEL SUPPORT

- Centralized dashboard accessible via web interface with light/dark UI modes.
- Real-time notifications for events, outages, and SLA breaches.
- Role-based access for customized operator and admin views.
- Integrated with incident management through tbITSM for rapid escalation.
- Geographically sensitive notifications for location-specific incidents.

## INTEGRATION ECOSYSTEM

- REST API for easy integration with third-party tools (ITSM, AD, etc.).
- Native integration with tbITSM and tbUEM platforms for end-to-end IT operations management.
- Support for multi-vendor devices and seamless OID management for SNMP monitoring.

## DEPLOYMENT FLEXIBILITY

- On-premises and cloud-ready deployment options.
- Scalable from SMB networks to large enterprise-grade infrastructures.
- Supports phased rollouts and modular feature enablement per business needs.

## SECURITY & COMPLIANCE

- Secure login with CAPTCHA for fraud and bot prevention.
- Role-based access control (RBAC) for privilege management.

## SYSTEM REQUIREMENTS

### 1. Application Server (tbXMS)

Component	Minimum Requirement	Recommended Requirement
Operating System	Ubuntu 22.04 LTS	Ubuntu 22.04 LTS
CPU	8 Cores	16 Cores
RAM	16 GB	32 GB
Storage	500 GB (SSD)	1 TB (NVMe SSD)
Backend	Node.js v22.14.0	Node.js v22.14.0
Frontend	React.js v18.3.0	React.js v18.3.0

### 2. Database Server (PostgreSQL for tbXMS)

Component	Minimum Requirement	Recommended Requirement
Operating System	Ubuntu 22.04 LTS	Ubuntu 22.04 LTS
CPU	8 Cores	16 Cores
RAM	16 GB	32 GB
Storage	500GB (SSD)	1 TB (NVMe SSD)
Database Engine	PostgreSQL 12.0	PostgreSQL 12.0

### 3. Combined Server (Application + Database on the Same Machine)

Component	Minimum Requirement	Recommended Requirement
Operating System	Ubuntu 22.04 LTS	Ubuntu 22.04 LTS
CPU	24 Cores	32 Cores
RAM	64 GB	96 GB
Storage	1 TB (SSD)	2 TB (NVMe SSD)
TimescaleDB	2.15.2	2.15.2
Backend	Node.js v22.14.0	Node.js v22.14.0
Frontend	React.js v18.3.0	React.js v18.3.0
Database Engine	PostgreSQL 12	PostgreSQL 12

## PREREQUISITES FOR XMS INSTALLATION

- Compatible OS and database as per deployment type.
  - Network connectivity between tbXMS and tbITSM for integration.
  - Sufficient privileges for installation and API usage.
  - Latest web browser for interface access
- SNMP-enabled infrastructure for device data collection.

## WHO USES tbXMS

- Network administrators in large and distributed organizations.
- Managed Service Providers (MSPs) overseeing client networks.
- IT Operations and Infrastructure Management teams.
- Enterprises requiring centralized FCAPS (Fault, Configuration, Accounting, Performance, Security) control across heterogeneous device ecosystems.

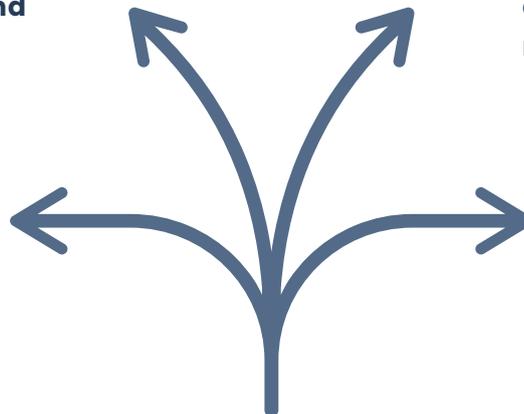
## WHY tbXMS BY TECHBRIDGE?

Seamless FCAPS management for all networked devices and locations.

Modular and flexible, with rapid integration across business applications

Unmatched support and continuous product evolution to meet dynamic IT requirements.

Integrated AI and automation for faster root cause identification and remediation.



# DASHBOARD



## ABOUT TECHBRIDGE: -

Founded by IITians and incubated at NCoE, TechBridge is a pioneer in delivering cutting-edge solutions. ObservaX/AIOPs leads the way as a cutting-edge observability platform designed to transform how organizations monitor and optimize their systems. Recognized by the Technology Development Board (TDB) and DSCI(NASSCOM's Startups initiative), TechBridge empowers organizations monitoring the critical infrastructure for the country by enabling seamless infrastructure visibility and performance management. With innovative technology and a focus on delivering actionable insights, ObservaX helps organizations enhance efficiency and reliability, leaving a significant impact on country's digital transformation journey.

## CERTIFICATES:-



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