TechBridge
Making the World Smarter

Manage Your Network with tbXMS

TechBridge provides an automated, highly scalable solution with fault, configuration, accounting, performance, and security (FCAPS) capabilities to help you reach your network management goals.

It also helps IT infrastructure teams perform the various functions required to plan, allocate, deploy, control, coordinate, and monitor network resources.

tbXMS Solution

With a unified FCAPS platform, TechBridge meets all the requirements for building a reliable and secure IT infrastructure consisting of network management and monitoring, protocol management, data flow analysis and ITSM. You also get a complete picture of what's really happening in your infrastructure and processes.

The platform helps increase revenue, improve operations, accelerate innovation, improve customer experience, and mitigate risk by efficiently managing and monitoring IT infrastructure.

- Fast time and revenue to bring new services to market.
- Flexible service definitions to maximize value
- Flexible deployment and management
- Network shrink for sustainable profitability
- A single solution for all IT needs
- Best-in-class visualization
- Scale speed
- Flexibility and scalability
- Get contextual alerts

Features:-

- Root cause analysis
- Error and performance management
- Network configuration management
- Integrated monitoring with unanticipated simplicity
- Monitor network performance and availability
- Event driven and autocorrelation
- Workflow automation
- Flow and protocol management
- Distributed monitoring
- Role-based access for file integrity
- Automatic network detection and topology

Benefits:-

- Service fulfillment to automate service availability
- Guarantee of service for an unmatched customer experience
- Be proactive in addressing issues in real time
- Associate events to understand interdependencies
- Drill down view of failed system
- End-to-end network management with a unified view
- Visualize the relationships between elements (Physical / Logical / Virtual) and Services
- Ensuring compliance and IT security
- Scalable future solutions as needed
- Improve the operational process of all resources from one place
- Understand trends, patterns and behaviors to make more informed decisions

Service Assurance

It prevent outages, identifies bottlenecks and takes action on the integrated FCAPS platform to ensure the desired level of services that the customers expects and experience in managing faults and performance.

Fault Management

Fault management detects, captures, and resolves faults across various network elements, topologies, and service overlays. Achieve operational efficiency. It also identifies critical network issues and resolves them by root cause analysis before the actual disruption of operations.

Key Highlights

- High scalability to quickly identify failures in large networks
- Define key KPIs for both static and dynamic thresholds at different levels.
- Handles and identifies errors related to logical service flows
- Small hardware footprint, reliable and fast error handling reduce total cost of ownership
- Quickly identify and fix affected services for maximum uptime
- Report multi-level event / alarm correlations and detailed drilldowns to identify the root cause of the problem
- Seamless integration with tbITSM or a third-party ticket management system

- With real-time event monitoring and capture capabilities to efficiently identify event correlation engines, defined attack patterns, or network failures, identify performance bottlenecks and track suspicious behavior.
- Identify performance bottlenecks and track suspicious behavior
- Configure thresholds when exceeded to trigger different levels of alerts that can be communicated via email, SMS, or third-party apps
- Process long alarm lists with robust features for efficiently correlating and filtering alarms
- The network topology view shows the status of all managed resource inventories.

Performance Management

It manages, monitors and controls network-wide health, availability, by collecting network information about various parameters such as packet loss, throughput, response time, utilization, error rate, downtime / uptime, which are collected primarily via SNMP.

Further analyze the collected data to maintain the system at the acceptable levels defined in the service level agreement. If the threshold is exceeded, a warning will be generated automatically.

Key Highlights

- Monitoring helps with capacity planning to maximize uptime
- Full visibility of overall network performance to avoid potential congestion
- Detect, identify, analyze, and resolve network issues with proactive alerts and remediation
- Provides global / integrated network-wide performance reports and dashboards using an easy-to-use platform
- Measure important real-time metrics such as error, packet loss, and discard.
- Seamlessly integrate with multiple providers to reduce network complexity
- Easily scale with multiple remote bollards
- Comes with a virtual appliance and does not require proprietary software, reducing the hardware footprint
- Adaptive and intelligent thresholds for real-time monitoring and notification of KPIs
- Notification of defined target values and notification of SLA violations
- Alerts for service level violations including violation time, percentage of downtime, LF time, and other details over a specified time period
- Performance report interfaces, memory, CPU utilization, node availability, temperature, and other key health metrics.

- The collected data is analyzed, filtered, and aggregated to create operational-related performance metrics such as: User-centric transaction response time and service availability.

Security Management

Controls access to network resources such as authentication, data and configuration, and protects network information from unauthorized users.

Key Highlights

- Access to network resources with restricted role-based access
- Protect against virus attacks and theft of personal information
- Full control over each user's access to assets on the network
- Prevent security breaches and unauthorized access with proactive alerts
- Use vulnerability assessment to identify and access network vulnerabilities
- Ensure compliance and security with a complete audit trail
- Log management helps meet compliance and IT security audits
- Flow monitoring provides information about potential attacks, misconfigurations, and other user activity.

- Monitor firewall rule changes and report if the rule is not configured correctly. To maintain security
- Fine-grained access control to critically managed resources with carefully defined security
- Detailed log of all permission requests and responses. Useful for analyzing resource usage patterns.

Incident Management

Resolve, report, investigate, and prevent end-to-end incident impacts, Securely integrate relevant incident and investigation data into case records for comprehensive tracking, analysis, and reporting, Minimize the impact of suspension on business operations.

Key Highlights

- Uses ITIL Incident Management to bring services back to normal as quickly as possible
- Identifies automated tasks to reduce manual labor and improve efficiency
- Classifies incidents by impact and urgency and prioritize work
- Root cause analysis identifies the root cause of the problem to prevent recurrence
- Consolidation of recurring incidents

- Assign groups for faster resolution and notify users after resolution
- Use reports to monitor, track and analyze service levels and improvements

Network Discovery

Automatically detect network devices (physical, virtual, cloud networks) in a multi-vendor environment, monitor various assets, and proactive network monitoring provide complete visibility and control of your existing IT infrastructure.

The discovery process provides details such as name, device type, operating system, running services, and other important device configuration details.

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Service Fulfilment

Rapidly automate service availability to customers and improve customer satisfaction with service provisioning and configuration management.

Configuration Management

The integrated platform collects, stores, configures, provisions, and controls network device configurations from a variety of network devices. It helps automate deployment and policy implementation and avoids major network issues caused by manual network configuration failures.

Key Highlights

- Seamlessly manage, configure, and provision network devices
- Providing a transmission path over the network
- Network automation reduces the time spent managing critical network changes and repetitive manual tasks.
- Use automatic network configuration management to achieve network compliance, deploy configurations, report configurations, detect unused changes, audit configurations, back up configurations, and more.
- Quickly find the latest configuration backups and apply them to specific network elements, or run them against all managed assets from an easy-to-use GUI.

- Eliminate the hassle of manually configuring with custom configuration templates that streamline device deployment
- Automatic service provisioning reduces rollout time
- Configuration backup and restore provides data security & troubleshooting.
- Uses industry standard protocols (SNMP, TL1, SSH, etc.) to automatically detect managed resources and poll for new updates.
- With a single click, the managed resource becomes one of several service states. B. "In use", "Not available", or "Standby".

Network Inventory/Asset Management

TechBridge IT Asset Management systematically operates, maintains, implements, upgrades, and disposes of IT assets. To increase the productivity of your IT team, increase visibility and control of your hardware and software assets, enable you to address everyday IT problems and issues, and minimize downtime that impacts your business.

 Also, tracks each asset to make sure your employees have the tools they need to get the job done.

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Key Highlights

- Easily track IT and non-IT resources to better control your ever-expanding IT infrastructure.
- Control and track where and how software products are used
- Optimize the profits generated by assets throughout their life cycle
- Automatic detection of all assets (hardware and software) in IT infrastructure
- Remote installation of patches for Windows, Linux, and third-party applications
- The platform tracks the usage of software installed on various hardware assets. Compare the license that is currently in use with the license that you actually purchased
- Helps maintain and manage centralized repositories, and map all IT asset configurations. This allows you to track entities and their details to see more about how they are interconnected within your IT infrastructure.
- Integrated browser remote desktop for rapid monitoring and remote diagnostics of computer assets

Network Topology

The arrangements of networks between different nodes, systems, and connecting lines that are interconnected within an organization forms a network topology. Users must carefully choose from a variety of network layouts (buses, stars, Token Rings, Rings, Meshes, and Trees) to achieve their network goals. This is because each offers a different level of flexibility. Devices are designed and grouped in different layers for proper control and efficient security. H. Core layer, distribution layer, access layer.

Accounting Management

FCAPS account management collects resource consumption data for capacity planning, trend analysis, cost allocation, auditing, and end-user billing. It serves as an important process for connecting performance and configuration data to achieve business goals.

Key Highlights

- Pay attention to resource utilization
- Collect network usage data (disk usage, CPU processing time, etc.).
- Trend analysis of bandwidth usage and network resource utilization helps with capacity planning
- Identify the user, application, or network element that is consuming the maximum bandwidth
- Track all IT and non-IT assets in stock or in use – contracts, hardware, software, etc,. for cost allocation components

Use Case for tbXMS

Router

Switches
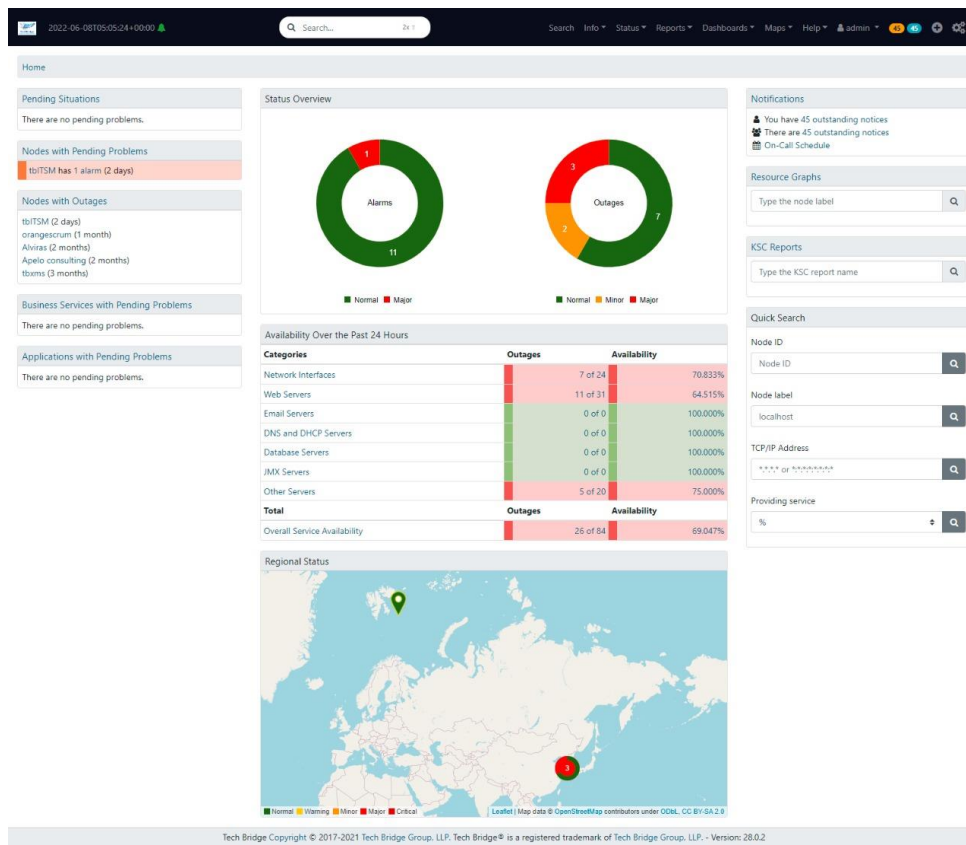
Monitoring Server

Gateways
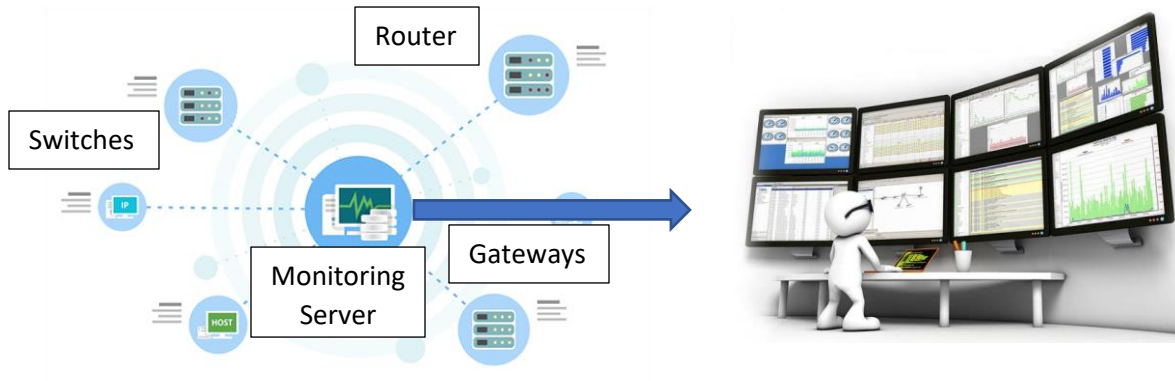
tbXMS helps system administrators maintain networks by continuously checking the availability of network computers and services. While continuously monitoring the network, tbXMS sends instant alerts once an issue is detected, helping to correct issues before they become problems.

Low bandwidth and low CPU consumption, multi-threaded performance and comprehensive reporting makes tbXMS an ideal solution for networks of any size.

When it detects an issue, it attempts to alert the system administrator by performing one or several pre-configured actions: play a sound, display a message on the local computer, send an email with a detailed description of the incident, push an instant message or contact the administrator via an external application.

FOR MORE INFORMATION

About TechBridge

TechBridge is the World's leading Product & Solutions Company. Data Center Applications, Collaboration and Real Time Communication. DC Management and Monitoring, Disaster Management, Security, Collaboration and Cloud. Its market-leading Network Modernization, Unified Communications, Mobility and Embedded Communications solutions enable customers to quickly capitalize on growing market segments and introduce differentiating products, applications and services. We are an expert and leader in Government Solutions, Smart City Solutions, Data Centers and Large Enterprises. We do custom applications also, as per the customer requirements.

Certificates:-

ISO 9001	ISO 27001	ISO 20000	CMMi L3

ISO 15408-1	PinkVERIFY

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