

PRODUCT DATASHEET

tbXMS: Unified Network Monitoring & Management Platform
Platform enables end-to-end Service Orchestration

INTRODUCTION

tbXMS is an enterprise grade network monitoring and network management platform. The goal is to be a truly distributed, scalable & management application platform for all aspects of the FCAPS network management & monitoring model. It cater all IT Asset like(Network Element, Applications, VM ware, OS, Database, Server & applications etc).

DISCOVERY & PROVISIONING OF NETWORK ELEMENT

- Auto discovery
- Directed Discovery
- IIPv4 & IPv6 discovery
- Policy-Based Discovery
- Supports Discovery daemon
- Automatic Map creation
- Supported protocols ICMP/SNMP
- Able to determine the asset model automatically
- Supports options for IP exclusion or inclusion during the discovery
- RESTful Web Service API for easy integration with external systems
- Layer2 & Layer3Link Discovery by using various protocol like OSPF, ISIS, BGP etc
- Requisition (XML definition of node entities) typically via the Provisioning Groups UI
- tbXMS contains an advanced provisioning system for adding devices to the management system
- The underlying technology for this configuration is XML, so users can either use the web-based user interface or they can automate the process by scripting the creation of the XML configuration files.

Highlights

- Supports SNMP
- Fault & Performance Management
- Network Configuration Management
- Automatic Topology Discovery
- Scheduled & Bulk Discovery
- Visual mapping
- AI/ML based Forecasting of the Data & Behavior
- Single Pane of Glass view
- Quick-click Diagnostic Tools like SSH, RDP, Telnet, Ping
- Role & Privilege-based Access control
- Agent & Agentless discovery
- MIB Compiler
- North & South Bound Interface
- Category based monitoring
- Support integration with 3rd party application
- using rest API
- Supported Integration- ITSM, MAP, GIS MAP, BMS, AIM etc.
- Services Outages monitoring & details
- Supports High Availability
- AI/ML Based Capacity planning
- LAN & WAN monitoring

The Benefits

- Service fulfilment to automate services availability
- Service assurance for unparalleled customer experience
- Become proactive to address issues in real time Correlate events to understand dependencies
- Troubleshooting tool provided

FEATURE DESCRIPTION

FAULT MANAGEMENT

- Scheduled Outages
- Alarm Management
- Polling Speed Management
- Service alert based on rules
- GUI-based Correlation Engine
- Auto intelligent NOC operation view
- Multi-mode notification with escalation
- Hold-time support to neglect false alerts
- Status propagation to all levels of networks
- Alarm Correlation based Learning situations
- Built auto-correction mechanism for RCA
- Immediate fault detection via polling & traps
- Multi-level threshold with colour-coded severity types
- Instant diagnosis options with auto-correction triggering
- Syslog management with extensive filtering and altering options

CONFIGURATION MANAGEMENT

- Reports
- Option to upload configurations
- Notifications on configuration changes
- Baseline tagging of stable configuration
- Scheduled Backup of Device Configurations
- Download both startup and running configuration
- Configuration change comparison with color-coded highlighting

FLEXIBLE & CUSTOMIZABLE REPORTS

- TopN Report
- Scheduled Reports
- 24 hours Health Report
- User specific access to reports
- Strong, Fully Configurable, Reporting Module
- Highly Informational pre- Configured Reports
- Multiple Graph Support (Trend, Bar, Pie, Area, etc)
- Export to multiple formats like PDF, Excel, CSV, etc.
- Reports extrapolation to support Capacity Planning
- Scheduled automatic reports sent directly by the system
- Option of generating multiple reports in parallel for comparison and analysis

DATA MANAGEMENT

- Database Backup and Restore
- Configurable data purging thresholds

THRESHOLDING

- High
- Low
- Absolute Value
- Relative Value
- Event will be triggered and we can generate the alarm

SLA MONITORING

- SLA KPI Monitoring
- SLA Violations Reports
- Services SLA Monitoring
- MTTR & MTTBF Monitoring
- Application SLA Monitoring
- SLA Monitoring & Management
- Service Availability Monitoring with conditions

USER ROLE MANAGEMENT

- Use Groups
- Logged in users
- User Preferences
- Password Change
- Multiple Account types
- Group edit Resources and Threshold settings

BUSINESS SERVICE MONITORING

- RCA
- Root Cause and Impact Analysis
- Topology based RCA & Identification
- BSM Components allows you to Monitor and Model high level Business Services (BS) and helps quickly identify the most critical problems affecting these

WEB SERVER MONITORS

PARAMETERS

- Errors (per sec)
- Get Requests (per sec)
- Post Requests (per sec)
- Client-Side Errors (per sec)
- Server-Side Errors (per sec)
- Percent Busy Connections (%)

HYPERVERSORS

- Citrix
- vCenter
- VMWare ESXi

SYSTEM AND DATABASE MONITORING

- Roles-based Access
- Single pane of Glass view
- Monitoring Critical Services
- Integrated with Network Performance Monitoring
- Quickly identification of Performance Bottlenecks
- Virtualized infra monitoring like VMware, Citrix etc. through WMI protocols
- Centralized management of Virtual and Physical server
- Monitoring of Industry standard Database, Oracle, MY SQL, MSSQL, PGSQL
- Various OS parameters monitoring like, File System, Processes, File System, Memory, Log Files etc.
- Thresholds based Parameter Monitoring and Auto Escalation of alarm on the basis of Threshold Alarm

EVENT MANAGEMENT

- Event Filtering
- Event Correlation
- Event Suppression
- Event Aggregation
- Events can be Configured into the Alarms
- Publish & Subscribe based Event Management

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SUPPORTED DATA COLLECTION METHODS

- WMI
- JMX
- Syslog
- SNMP Traps: v1, v2c, v3
- CDP, LLDP, IS-IS, Bridge, OSPF, SNMP, XML, JDBC, WMI, JMX, NRPE, NSClient++
- SNMP, WS-Man, HTTP, XML, JMX, JDBC, NSClient, TCA, WMI
- Flows support for Netflow v5, Netflow v9, IPFIX, sFlow, JFlow

PERFORMANCE MANAGEMENT

Segregation of resource types

- Latency
- Error rate
- Throughput
- Packet loss
- In/out traffic
- Node meta-data
- Bandwidth Usage
- Service meta-data
- Interface meta-data
- Availability monitoring
- Availability Management
- Server Performance Monitoring
- Interface traffic monitoring (inbound & outbound)

COMPREHENSIVE SECURITY

- Support SSL
- DES Encryption
- Port based Security
- Encrypted Password
- Role-based Access Privileges

SEVERITY LEGENDS

- Cleared (Grey)
- Critical (Purple) - Warning (Yellow)
- Major (Red) - Normal (Dark Green)
- Minor (Orange) - Intermediate (Light Green)

NETWORK DEVICES

- HP
- IBM
- Dell
- ZTE
- D Link
- Avaya
- 3Com
- CISCO
- Mikrotik
- Juniper
- Huawei
- Palo Alto
- EdgeCore
- Sonic Wall
- CheckPoint
- Alcatel Routers
- Network Printers
- Fujitsu-Seimens
- Xtreme Networks
- Any SNMP supported devices

APPLICATIONS

- Nginx
- MySQL
- Antivirus
- Microsoft
- SharePoint
- MS Exchange
- Apache Tomcat

KEY MONITORED PERFORMANCE STATISTICS

- Jitter
- Latency
- Error Traffic
- Packet Loss
- CPU Utilization
- Disk Utilization
- Buffer Overflow
- Overflow Traffic
- Network Utilization
- Memory Utilization
- Memory Utilization
- FTP Response Time
- DNS Response Time
- Network Availability
- Ping Response Time
- Web Response Time
- Network Throughput
- Resource Availability
- Database Availability
- Email Response Time
- Application Availability

APPLICATION PERFORMANCE MONITORING

The following parameter can be monitored:

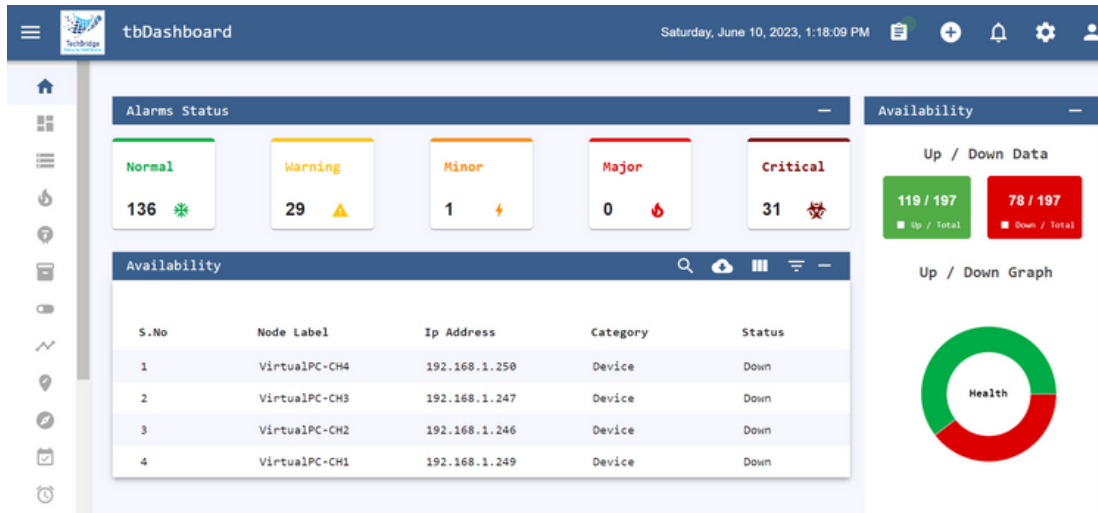
- Lock Memory Commits (per sec)
- CPU utilization Commits (per sec)
- Availability (%)
- Memory Used (MB)
- Cache hit ratio Log Space Available
- Deadlocks/ sec Disk Reads (per sec)
- Transaction Count Disk Writes (per sec)
- User Connections (#) Active Instances (#)
- Database Free Space(%)
- Percent Memory Used (%)
- Buffer Cache Hit Ratio (%)
- Percent Memory Used (%)
- Buffer Cache Hit Ratio (%)
- Database Used Space (MB)
- Average Wait Time (per table)
- Database Monitoring Attributes

SERVICE MONITORING

- JMX Monitor
- NTP Monitor
- SSH Monitor
- XMP Monitor
- Perc Monitor
- TCP Monitor
- SMB Monitor
- Web Monitor
- SMTP Monitor
- POP3 Monitor
- LDAP Monitor
- JCIFs Monitor
- JDBC Monitor
- FTP Monitoring
- DNS Monitoring
- ICMP Monitoring
- IMAP Monitoring
- DHCP Monitoring
- PR Table Monitor
- STRAFE Ping Monitor
- Radius Auth Monitor
- JDBC Query Monitor
- VMWare CIM Monitor
- HTTP POST Monitoring
- Availability Monitoring
- Mem Cached Monitor HTTP/HTTPS Monitoring
- DISK Usage Monitoring
- BGP session Monitoring
- DNS Resolution Monitor
- Page Sequence Monitor
- Open Manage Chassis Monitor

SERVERS

- Unix
- Linux
- SUSE
- Solaris
- Debian
- Ubuntu
- RedHat
- CentOS
- Windows



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:-



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