

TRBOmonitor PRO

24/7/365 Cloud-Based System Health Monitoring with BI analytics

Handles notifications from DAS/BDAs, UPS, etc.

TRBOmonitor is a simple yet powerful service for proactive diagnostic that provides real-time constant monitoring of your MOTOTRBO radio network and sends alerts on critical conditions or when it needs attention.

On single site conventional, IP Site Connect, Capacity Plus or Linked Capacity Plus systems:

- Critical alerts indicate that a repeater needs immediate attention
- Interference, out of range, repeater alarms and other warnings highlight underlying systems issues
- Busies, race conditions and other alerts suggest that a system upgrade may be required to add more capacity.
- Temporary repeater timeouts or latencies point to multi-site backhaul issues.
- High VSWR indicate antenna problems and high temperatures to facilities conditions



FULLY CUSTOMIZABLE PORTAL

Interactively create any type of reports directly on your browser, view them as tables, line, bar or pie charts and add them to dashboards.

- Single-system (customer) and multi-system (dealer) logins
- Unlimited number of reports, dashboards and alerts
- Interactive graphs: click to view more details or the raw data
- Advanced filtering and math
- Customizable automated graphical email reports
- Mobile friendly

AUTOMATIC REPEATERS DETECTION

The client discovers and displays all the peers, including MNIS, RDAC and 3rd party applications. It detects each repeater's alias, firmware version, serial/model number and other information.

- Periodically receive VSWR, TX power and temperatures and alert when limits are exceeded
- Remotely clear alarms, disable and reset the repeaters

NOTIFICATIONS Receive short emails/SMS for:

- System monitoring, repeater, master/peer up or down
- Call failures: busies, out of range, race conditions, etc.
- Repeater RSSI during interference to set noise threshold
- 70+ RDAC repeater alarms

- External devices such as DAS and BDAs All alerts and alarms can be individually enabled

HOSTED SERVICE

No need to be concerned whether monitoring is active: receive an alert as soon as the PC fails or the link to the fault-tolerant cloud servers is disrupted because of failed internet connectivity or internal network issues.

REAL-TIME LOGGING

Every event, including voice/data calls are logged:

- Locally on the client PC in both text and Excel files
- Remotely on the fault-tolerant host databases RSSI is also reported for every over-the-air transmission.

YEARLY SUBSCRIPTION MODEL

All-inclusive plan:

- Per system, not per site, repeater or subscriber
- Thin client software included
- No setup fees with unlimited support and maintenance

RAPID DEPLOYMENTS - No NAI licenses necessary!

1. Connect all repeaters to a switch
2. Install and run the client on a local PC/VM
3. Enter the master repeater IP address, port and the assigned internet login credentials
4. Login into the portal and analyse the system

SYSTEM ARCHITECTURE: ON PREMISE SOFTWARE CLIENT AND CLOUD HOST



**MOTOTRBO
Repeaters**

**TRBOmonitor
Client (WIN PC OR VM)**

**TRBOmonitor
Redundant Servers**

**Analytics
Portal**

SELECTED FEATURES

Service notifications:

- System up/down: internet, network, PC or application issue

Peer notifications:

- Master and peer repeaters, MNIS and applications up/down
- Call details: group/private, voice/data, length, source/target, repeaters, RSSI, etc.
- Call failures: various busies, out of range, race conditions, etc.
- Repeater blocking: interference FCC type I and II, CWID/BSI repeat
- Repeater alarms: PA, power, battery, VSWR, hardware, etc. (over 70)
- Alerts when VSWR, TX power, PA and modem temperatures and jitter exceed thresholds

External notifications:

- Alerts from SNMP, serial (RS-232), contacts closures, and other sources

Actions:

- Radio check and inhibit and un-inhibit to disable rogue radios

Logging (client):

- Local logging to text and CSV files of all calls, failures, repeater alarms and other events

Cloud Servers:

- Centralized logging of all calls, failures, repeater alarms and other events
- Email notifications

Web Portal:

- Fully customizable reports, dashboards and alerts. Automated custom email reports
- Customer and multi-system dealer logins



REQUIREMENTS

Thin on-premise client:

- PC or Virtual Machine with Windows 10 or greater, 2GB RAM, Celeron-class CPU
- Connectivity: master repeater and Internet access on outbound-only port. Multi-homed system support for Internet access over guest networks, WiFi, or cellular

UNIQUE EXPERIENCE

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