

## TRBOmonitor

### 24/7/365 Cloud-Based System Health Monitoring Service

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
- Buses, 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



#### THIN ON-PREMISE CLIENT

Run the client software on any PC or virtual machine with connectivity to the master repeater and the Internet. Multi-homed system support allows internet access over guest networks, WiFi, or cellular.

#### TECHNICIAN TOOL

- Essential when diagnosing new or existing systems.
- Can run without internet access

#### 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: buses, 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

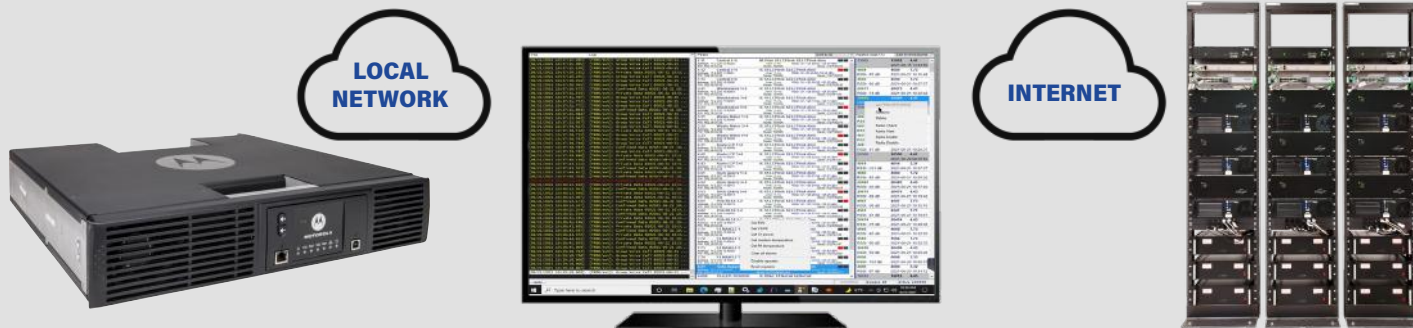
All-inclusive plan:

- 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

# SYSTEM ARCHITECTURE: ON PREMISE SOFTWARE CLIENT AND CLOUD HOST



**MOTOTRBO  
Repeaters**

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

**TRBOmonitor  
Redundant Servers**

## 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

### Other:

- Secure and encrypted link to fault tolerant cloud servers



## 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

Understanding the critical requirements of your business, we have grown by listening and appreciating your trust. We can only make great products if they need no support or, as needed, we are there to promptly help you. Since 2001 we have provided device manufacturers, dealers, and end-customers best-in-class prompt and hands-on support. All of our products are developed by us, right here in the USA. They are tightly integrated and modular to scale seamlessly and meet your requirements now and in the future.



Developed and Supported in the  
United States of America



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## Let's Talk About Your Project

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