

Remote Site Monitoring with Codan

Codan Radio Communications now offers Remote Site Monitoring options that provide live site information, giving you the power to respond intelligently to communications failures that affect your system today, and to prevent the ones that will happen tomorrow.

“What Happened to Our Comms?”

They are many things that can go wrong at a remote radio infrastructure site; from vandalism, to weather damage, to power failure. When a communications problem is encountered at a site, the system operator has no way of knowing what caused the problem and therefore determining the appropriate course of action becomes challenging.

Since access of remote sites is often difficult, the action of sending personnel to a radio site without any knowledge of the root cause of the problem often proves to be expensive and inefficient.

In a routine operation, these types of problems can be time-consuming nuisance. However, when a problem with remote infrastructure is not detected until critical communications are required but are suddenly unavailable; it is in situations like this that being able to respond intelligently becomes crucial.

Predicting Problems

The ability of reacting to problems is very advantageous, but being able to deal with problems before they happen can give the operator of a radio system that peace of mind that comes with complete situational control.

When real time data is collected and logged, trends and pattern in the data can be used to indicate problems before they happen; this allows the radio system operator to predict and develop a strategy to deal with maintenance issues in the most cost effective and efficient way, without harmful disruption of service.

Codan Remote Site Monitor

Whether real-time information or predictive trending is of foremost concern, Codan now offers a standard remote site monitoring kit that includes all of the required equipment for most monitoring applications.

The kit includes sensor points on key operational lines of a Codan MT-4E repeater or remote base station, as well as external sensors for monitoring temperature, enclosure entry and AC Power availability.



IP Network Solution

Continuous monitoring of multiple IP capable radio sites is made possible with installation of Remote Site Monitoring sensors and Summit controller at the radio sites; the Summit controller interprets the sensors and generates SNMP events. A PC equipped with the Apex monitoring software at the central location monitors the LAN for these SNMP events and displays them via a Windows-based interface; a variety of visual and audible notifications alert the user, and an event log is generated for future analysis.

Using the flexible client-server architecture, the data can be easily accessed by one or multiple operators. This allows each operator to monitor, control and be alerted to alarms from multiple locations across various systems.

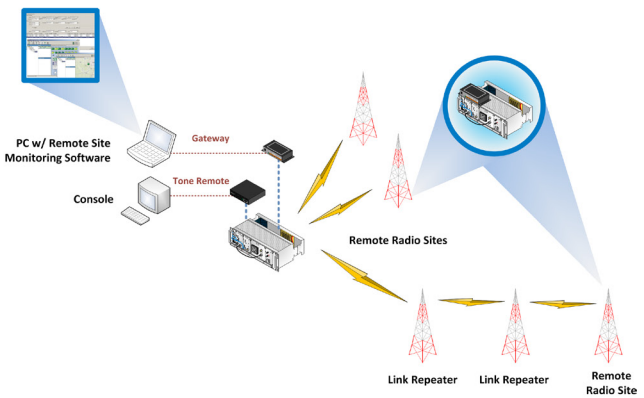
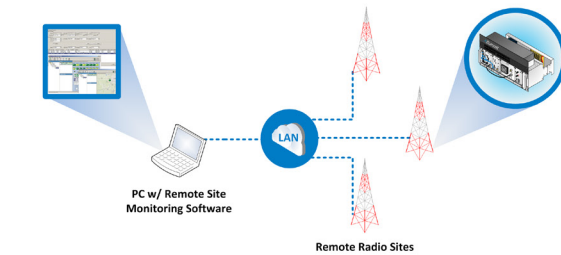
Radio Link Solution

For sites that do not have IP available, radio link monitoring can be put in place to do regular scheduled checks of Codan Radio infrastructure sites.

In this configuration, each remote site is equipped with a set of Remote Site Monitoring sensors connected to a siteCOMMANDER unit. When a site status check is required, an operator at a central site equipped with a siteCOMMANDER Gateway unit polls the remote site using FFSK data signals sent over dedicated or shared RF links. The selected remote site(s) then return site status information over these same links. The information is displayed on a PC at a central site equipped with the remote monitoring software.

Note that this polling process also works if the remote site is only accessible via one or more repeaters, meaning that even more complex communications networks can benefit from remote site monitoring functionality.

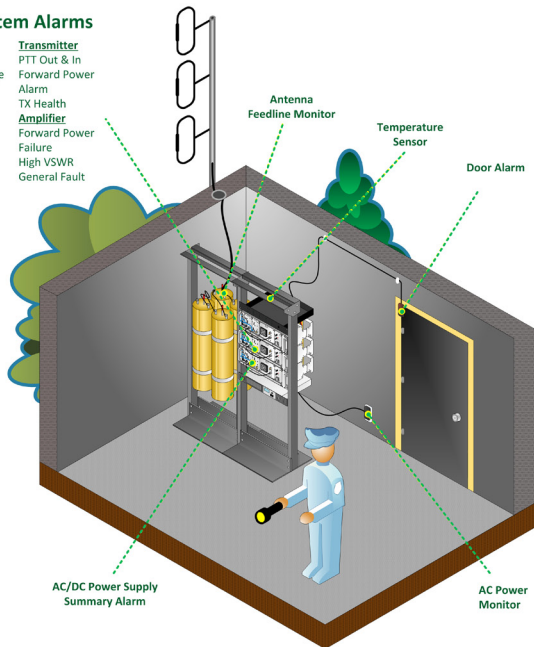
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MT-4E System Alarms

- Subrack**
- Line Voltage
- Regulated Voltage
- Receiver**
- COR Output
- RSSI Output
- RX Health

- Transmitter**
- PTT Out & In
- Forward Power Alarm
- TX Health
- Amplifier**
- Forward Power Failure
- High VSWR
- General Fault



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