



## CARRIER/EDGE TELECOMMUNICATIONS INFRASTRUCTURE

### THE UNIQUE CHALLENGES

Telecommunications infrastructure has a unique set of requirements that blends those of commercial property and I.T., with a massive demand for uptime assurance in environments that are both remote and unstaffed. Sites can take on a wide range of footprints from full tower infrastructure to ODAS and ISAS solutions to name just a few. These portfolios often span thousands of locations geographically distributed over national or global footprints.

Though potentially diversely designed per location, the fact remains that these sites do not have on-premise staff to monitor the varying subsystems needed to operate. Utility power, generators, transfer switches, natural gas, and numerous other subsystems, often each with its own monitoring system and software, must work in autonomy to retain uptime.

A remote monitoring and management platform that is made for critical infrastructure is the key to allowing managers the ability to remotely diagnose and perhaps preempt problems. A service call should become a last resort, as it is often an expensive endeavor that typically has been dispatched because a failure has occurred, and uptime is already at risk.

## HOW RADIX IoT AND MANGO OS ADDRESS THESE ISSUES

- **Simple Deployment:** Radix IoT using Mango OS allows critical infrastructure portfolio managers to deploy a single Radix Edge Appliance at each location rapidly. The Radix IoT Edge engine allows simple connectivity of existing or new on-premises subsystems and sensing devices with configuration in the cloud for complete monitoring and management of the full portfolio from a single cloud dashboard.
- **Monitor Everything Remotely:** Monitor and manage all your critical systems, regardless of subsystem, software, equipment manufacturer, number of sites in the portfolio, or geographic location - remotely. With Mango's single monitoring and management platform, your data is collected, analyzed, organized and available. It even integrates with third-party analytics tools through a RestAPI.
- **Reactive to Proactive Maintenance:** With all the data now at your fingertips, diagnose and prioritize site problems, and preemptively mitigate them before they even become issues.
  - Diagnose problems remotely.
  - Triage critical service work to better prioritize and boost efficiency of service calls.
  - Run detailed historical trending to identify problems before they occur.
  - Track efficiency outliers from the portfolio to identify and quantify upgrade cycles.
- **Increase Reliability and Control Expenses:** Fewer surprises, greater efficiency, heading off problems before they appear, and up-to-the-minute data all contribute to greater reliability over the life of your portfolio. Control operating expenses and reduce energy spend by tracking and comparing real-time and historical site data to reduce inefficiencies and identify out-of-tolerance equipment.
- **Scalability:** Whether in one location or thousands, Mango OS scalability is just about limitless when it comes to monitoring multiple sites and systems.

# TYPICAL ARCHITECTURE

