



DISTRIBUTED EDGE CRITICAL FACILITIES

THE UNIQUE CHALLENGES

The growth of Edge Data Centers has been absolutely meteoric. The demand that reliable infrastructure be close to the client or end user means that these facilities by definition are geographically distributed, often over state and even country borders and can number in the thousands. Traditional data center management has its own challenges, but these facilities, because of their sometimes inhospitable, hard-to-reach locations, variety of technology, lack of on-site staff and sheer numbers demand unified monitoring and management from a secure central location.

With so many sites, operational costs can rapidly get out of hand, making efficiency a high priority as well. And the volume of data must be carefully considered and planned for.

HOW RADIX IoT AND MANGO OS ADDRESS THESE ISSUES

- **Remote Monitoring:** With numerous distributed locations, it's impractical if not impossible to monitor on-site. Mango allows for remote monitoring of all critical systems and assets, regardless of geography, data sources or software—from one central location. Data is captured, organized, analyzed and presented in a way that makes it useful immediately, enabling better business decisions. Once Mango is installed, all provisioning can occur in the cloud.
- **Predictive Maintenance:** Instead of reacting to problems, proactively plan and schedule maintenance to avoid them. Mango integrates with work order management systems to keep maintenance on track. Alarming notifies the designated team when conditions are out of tolerance to maximize efficiency and minimize expenditure.
- **Security:** With no employees on site, security can be an issue. Mango easily integrates with existing surveillance systems, access control, motion sensors, and fire systems to flag problems and alert designated personnel promptly via email or text.
- **Op Ex Control:** With monitoring plus on-site camera access, troubleshooting and diagnosis of issues can be done remotely to limit truck rolls, and prepare engineers before they are on-site, boosting efficiency and controlling costs. Data trending analysis can further enable cost savings by identifying performance problems over time and reducing downtime.
- **Data Volume:** The sheer volume of data, analysis and storage is no problem for Mango. It can store billions of values in surprisingly little space with unlimited scalability.

TYPICAL ARCHITECTURE

