# PROPERTY MANAGEMENT

## THE UNIQUE CHALLENGES

Commercial property monitoring systems gather a wide range of data – temperature, lighting, security, BMS, HVAC, water, just to name a few. But the aggregated data doesn't always integrate cohesively to ensure smarter building operations - often each of those systems is siloed to its own trade. Collecting, organizing, and analyzing the data across the entire distributed portfolio of properties, remotely, and delivering it to stakeholders and groups as actionable analytics is critical.

In addition, as commercial property portfolios can be diverse, always expanding and changing, they may include generations of legacy equipment from different manufacturers, which can make harnessing useful, unified data difficult.

But all the shared data among various trades is valuable and must be capitalized upon. IoT data enables a wide range of automation and efficiency improvement if you can get a unified view of the information.

## HOW RADIX IoT AND MANGO OS ADDRESS THESE ISSUES

○ **Bringing All The Data Together...** There are plenty of systems and sub-systems talking in your buildings. But is anybody listening? Are the systems talking to each other? Utilizing existing data in your systems, beyond specific trades is crucial. Mango collects all your data across separate systems, aggregates it, and turns it into actionable data to enable data-driven decision making. Regardless of age of assets, manufacturer, or trade, Mango integrates across all buildings systems, even smart building technology, to deliver actionable information.

○ **...And Getting More Value Out of It:** Once all this data is normalized and available, it's ready to be mined for even more value added. Analytics can be used to improve and optimize operational efficiency, preventative maintenance and energy use. With unified data, you can minimize duplication of efforts and disconnects, locate economies of scale, out-of-tolerance equipment, underutilized space and more to improve OpEx.

○ **Reporting and Dashboards:** Consolidate your data to create custom reports for different stakeholders - finance, sustainability, energy management, security, maintenance, customer service and more. Customized web-accessed dashboards provide a centralized view for greater performance analytics.

○ **Easy Growth and Scalability:** The Mango system makes it easier to add assets, add or change equipment and configure them in the cloud. The limitless scalability allows for changes in your buildings as more facilities are added to the portfolio. Additionally, because Mango can communicate easily with just about any industry standard technology on the market, you have the flexibility to use familiar sensing technologies and subsystems with no vendor lock for devices.

# TYPICAL ARCHITECTURE

Electricity Meters | Environmental HVAC | Generator | Indoor Location Services | Surveillance | Alternate Energy | Access Control

Site A          Site B          Site C          Site D

Work Order Management

Third Party Cloud Services

Billing or Task Services

Radix Online Management Console

**Regional Facilities Manager**
- O Hot/cold call mitigation
- O Excess energy spend through outlier detection
- O Work order management
- O Alternative / emergency energy management
- O Space utilization

**Employees**
- O Conference room reservation system
- O Personal workspace control
- O Parking finder

**Sustainability Manager**
- O Sustainability dashboarding
- O Compliance monitoring
- O O+M activities

**Service Contractors**
- O Work order dispatch
- O Remote diagnostics and troubleshooting

# RADIX™