

LIMITLESS
MONITORING AND
MANAGEMENT
ROOTED IN
INTELLIGENCE.
RADIX IoT.



MangoOS

The Mango operating system from Radix IoT is a browser-based software platform that empowers users to access, collect, make sense of and store a great variety and volume of data, from multiple data sources and geographic locations.

Mango's customizable data visualization tools give clear, concise information at a glance, with dynamic dashboards. But that's just the beginning. Mango also makes it simple to put that data to work, to improve the way your business is done. Aggregate and analyze your data, monitor and control facilities from afar, manage processes, and automate procedures.

FUNCTIONAL OVERVIEW



Built-in Protocols: BACnet, Modbus, MQTT, SNMP, DNP3, SQL, CSV Files, HTTP and more – Mango will connect to and collect data from all your devices and data sources simultaneously, normalizing it into one pane of glass – right out of the box, with no need for extra drivers or software tools.



Customizable to Your Needs: Mango gathers all of your data, from all your locations into a consolidated rational format in the cloud, and harnesses it through powerful built-in analytics and alarming as well as creating customizable user interfaces and control schemas based on this data.



Plenty of Space: Mango has the ability to store unbelievable amounts of data – billions of values – in very little space. Historical data is available for analysis at the edge, or in mass across your portfolio of connected sites within the Radix Cloud, or in your own cloud running Mango.



Built-in Analytics: Mango provides a sophisticated event and alarming engine as well as integrated tools for generating trending analytics and perform functions that can be configured through the web interface on the fly to adapt to changes allowing deep data visibility and insight quickly.



Reporting: Create custom reports based on your data to meet your exact needs. Reports can be visually represented in any browser or exported to Excel documents. Additionally, reports can be sent via email automatically on timed intervals, or based upon specific events.



Advanced Schedules with Exception Calendar: Mango includes a refined scheduling system that can be cloud or edge configured. Schedules can be created at any interval with the ability for exceptions. Rules can be based upon events as well.



System Scalability: Mango is infinitely flexible. From one location to thousands, the same Mango software scales for all types of needs.



Leading Edge Visualization: Utilizing leading open source web development technologies, Mango's flexibility provides both a drag and drop editor and code view in standard HTML5 and AngularJS, so that users of varying experience levels can create, modify, or use data on their terms.



Built-in Scripting: Beyond the built-in alarming and event engine, Mango includes a powerful scripting environment that allows users to write control algorithms or complex calculations.



Resilient Remote Operation: Unlike other remote management technologies, Mango has multi-site operation at the heart of the system. Edge site locations running Mango can run autonomously. Automatic data replication and off boarding happens in the background to allow the cloud to gain insight about all of the locations. Self-healing history synchronizations and real time updates occur all behind the scenes. Mango can work natively on cellular networks globally to offer a backup for data uplinks and monitoring in critical applications.



No Vendor Lock / Clear Data Ownership: Mango can work with any telemetry that speaks a known industry language. All data collected can be stored in any cloud infrastructure at your option. In the end all data belongs to you.



Service — The Choice is Yours: Mango is made to be easy at any scale. Mango offers a self-service ecosystem that allows you to build and grow at your pace. Radix offers a rich forum and documentation set, including tutorials to learn how it works. Use your hardware and cloud, or ours. Additionally, Radix offers an affordable option for turnkey projects allowing you to get a full system for your specific application running.