SeQent
Real-Time Decision Solutions

ThingWorx Integration

ptc · thingworx®

ThingWorx provides a standard software API for accessing IIoT data. The implementation consists of a core foundation server, sensors collecting data and applications to observe, report and monitor the collected data streams.

SeQent's ThingWorx gateway gathers data from the ThingWorx Foundation Server, evaluates the data, and defines rules and criteria for when actions are to be initiated. Depending on the gateway selected, the actions may include:

- FirstPAGE software offers a generic interface to a multitude of messaging platforms, enabling simplified communication and configuration. With support for many output protocols or platforms, including email, SMS, databases, voice and two-way radios, combined with various connectivity options (serial, modem, TCP/IP, databases), it allows for a vast combination of custom implementations.

- FirstPAGE Alarm Manager monitors alarms and events. Should a monitored alarm or event occur, it will automatically escalate through a pre-defined hierarchy of responsible parties until acknowledged. It sends key information to the right person at the right time on whatever communication device that is configured for that individual.

- Marquee Manager software monitors manufacturing environments and sends real-time, automated messages (Alarms, Events, KPIs, OEE) to visual and audible devices, including LED/LCD displays, smartphones, tablets, and sounder devices.

SeQent's ThingWorx gateways support any connected IIoT device, enabling the gateways to monitor the device for data exceptions or alarm conditions.

ThingWorx Integration
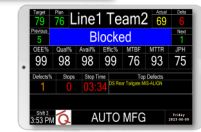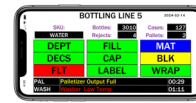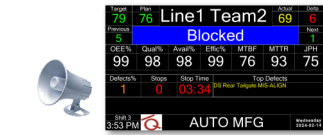## Architecture Overview

PLC

PLC

PLC

PLC

CNC

PLC

ThingWorx
Foundation Server

- FirstPAGE Alarm Manager Gateway for ThingWorx
- Marquee Manager Gateway for ThingWorx

Visualization/Messaging
Server

- FirstPAGE Server
- FirstPAGE Alarm Manager Server
- Marquee Manager Server
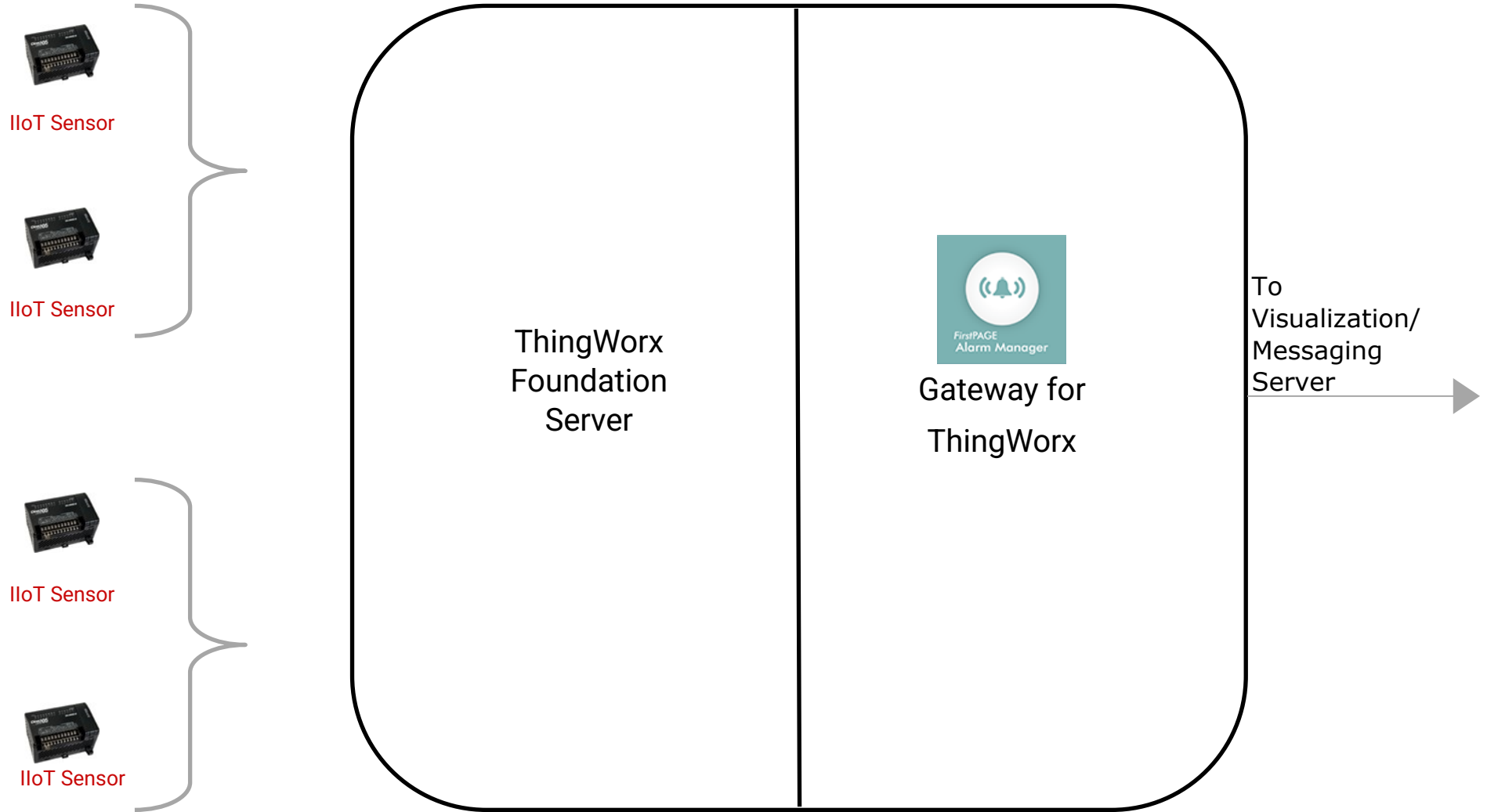- Wi-Fi Messenger Server

Internet

MOTOTRBO

Data Flow

ThingWorx Integration
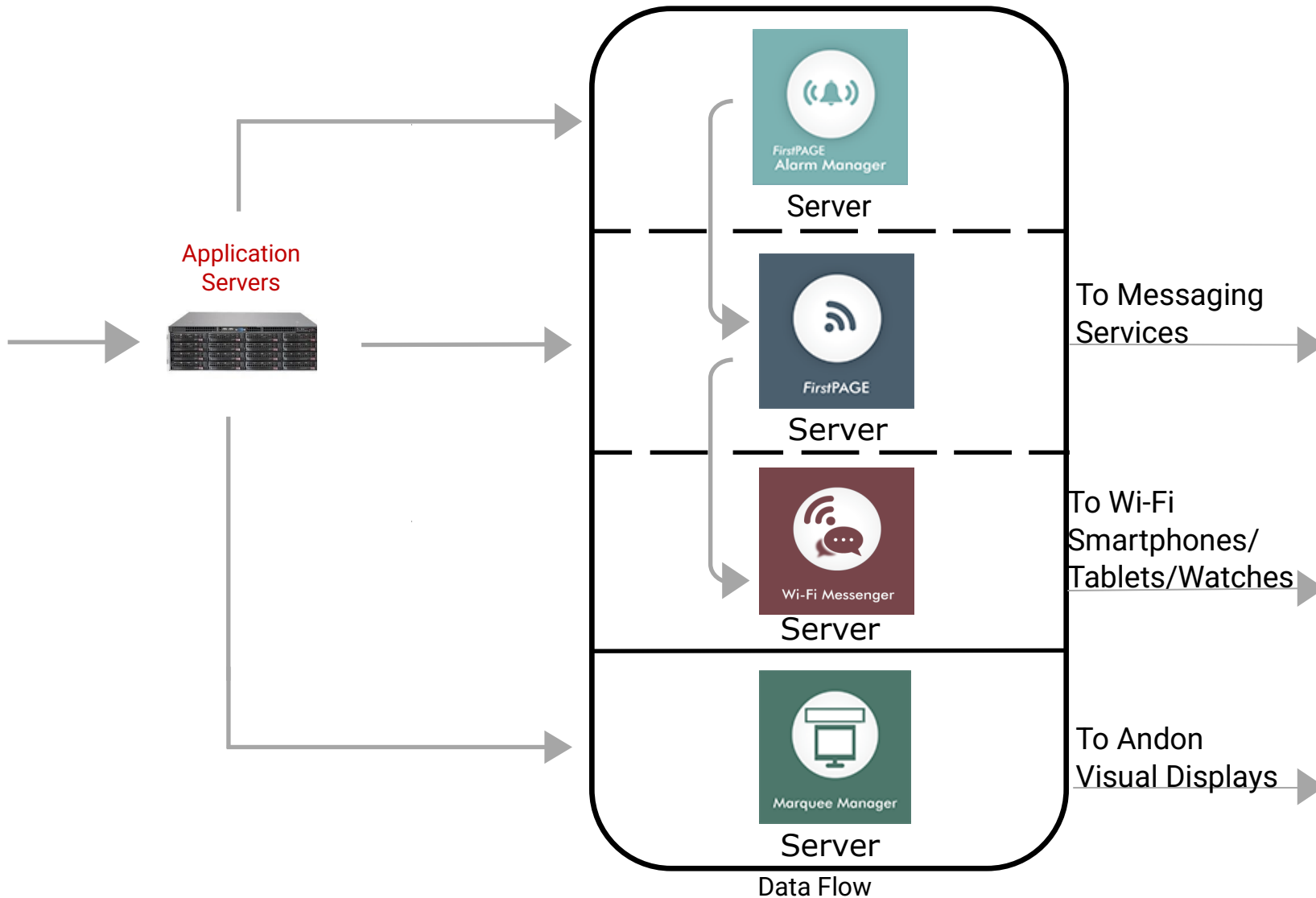## Application Server Overview

Application Server

IIoT Sensor

IIoT Sensor

IIoT Sensor

IIoT Sensor

ThingWorx
Foundation
Server

FirstPAGE
Alarm Manager

Gateway for

ThingWorx

To
Visualization/
Messaging
Server

Data Flow

ThingWorx Integration
Visualization/Messaging Server Overview

Visualization/Messaging Server

Application
Servers

Server

Server

Server

Server

To Messaging
Services

To Wi-Fi
Smartphones/
Tablets/Watches

To Andon
Visual Displays

FirstPAGE
Alarm Manager

FirstPAGE

Wi-Fi Messenger

Marquee Manager

Data Flow

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