

IIOT – Transforming Manufacturing with Real-Time Data



Client Success Story



Industry

Pharmaceutical
(Human Pharma)

Client

One of the leading
international
pharmaceutical company

Solution

IoT Data Integration

Challenges

Global company needs a solution that will allow to find product issues in manufacturing on as early stage as possible

- Cost of fixing the issue when it occurs versus after distribution can be 100 times more expensive
- Improve waste optimization and estimated costs
- 30+ sites with 15 000 devices each generate average throughput of 5 MBps each site
- Systems needs to be controlled 24/7
- ML model to recommend and implement parameters 24/7

Solution

- Implemented by C&F for US domestic market and then delivered as blueprint to other markets like UK, Germany, Russia, Japan, Australia.
- Azure IoT Edge with IoT Hub:
 - collects data from applications and devices and sends them to cloud for insights and action
 - can process data before sending
 - can trigger actions on site resources orchestrated by cloud data or local insight
- Database replicators:
 - replicate data from local database and send them to cloud

Benefits

- **Processing and analytics happen in near real-time** to generate immediate insights and actions, no human involved
- **Higher resiliency** is provided by offline support with local event broker and stateful store
- One way, Edge to cloud connection **fulfilling security rules** in constrained environments and isolating downstream devices and applications
- Central management from cloud **simplifying operational** work
- **Consumption based pricing model** and low onboarding costs