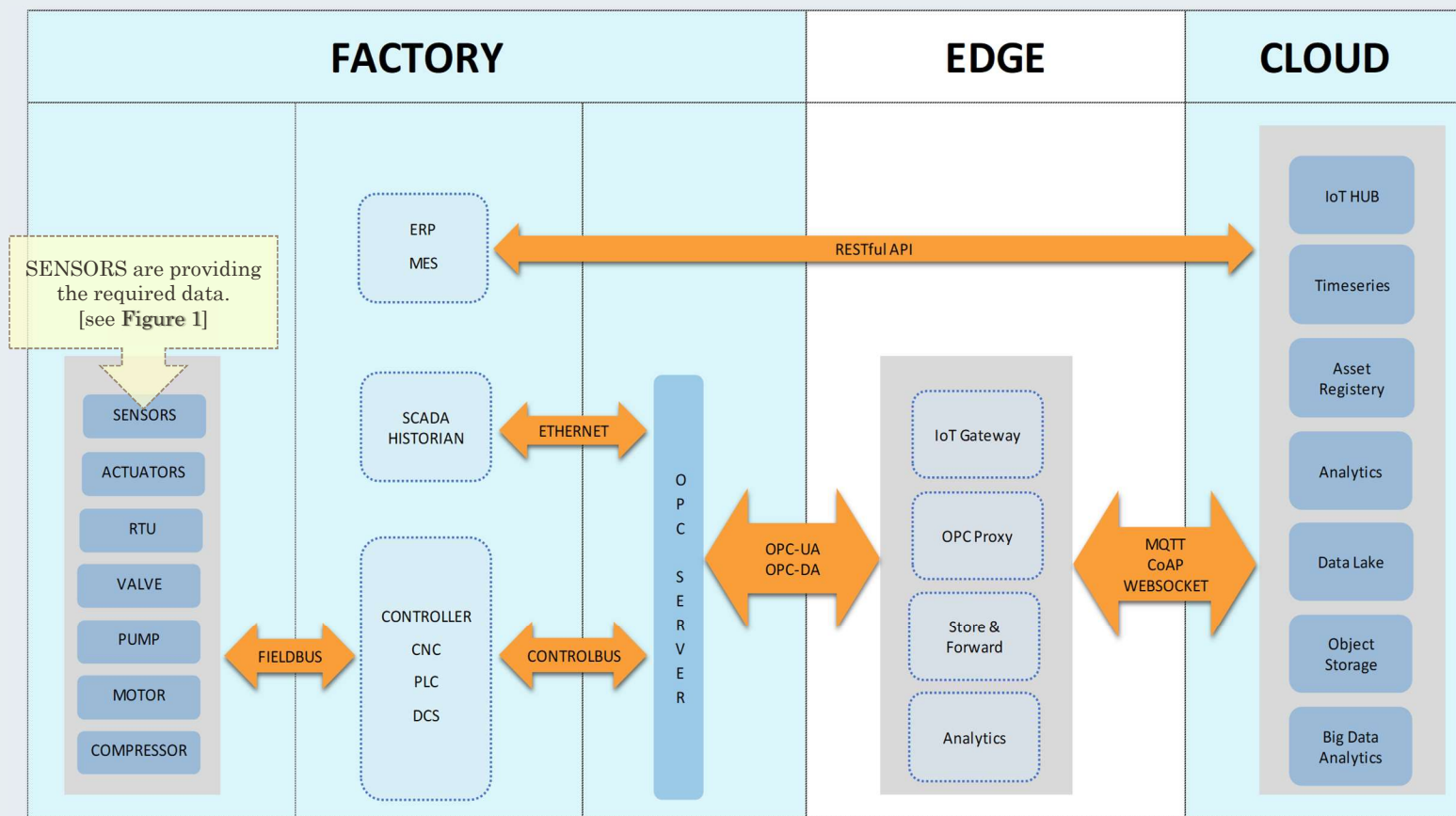


Process Architecture



- Cloud and General System Considerations include:
- Frequency of data refresh, lag/real time transfer, speed, security, ML analytics type e.g. cloud vs server.
- This is high level Industrial IoT Process Architecture. For our solution, we receive data from **SENSORS** and follow the process.
- ML Model is part of Cloud Analytics.

- **ERP:** Enterprise Requirements Planning
- **MES:** Manufacturing Execution System
- **CNC:** Computer Numerical Control
- **PLC:** Programmable Logic Controller
- **DCS:** Distributed Control System
- **REST:** Representations State Transfer
- **RESTful:** Web services that conform to the REST architectural style
- **OPC:** Open Platform Communication
- **OPC-UA:** OPC Unified Architecture
- **OPC-DA:** OPC Data Access
- **MQTT:** Message Queuing Telemetry Transport
- **CoAP:** Constrained Application Protocol
- **IoT:** Internet of Things

Figure 6: Process Architecture - Flow Diagrams

Process Architecture

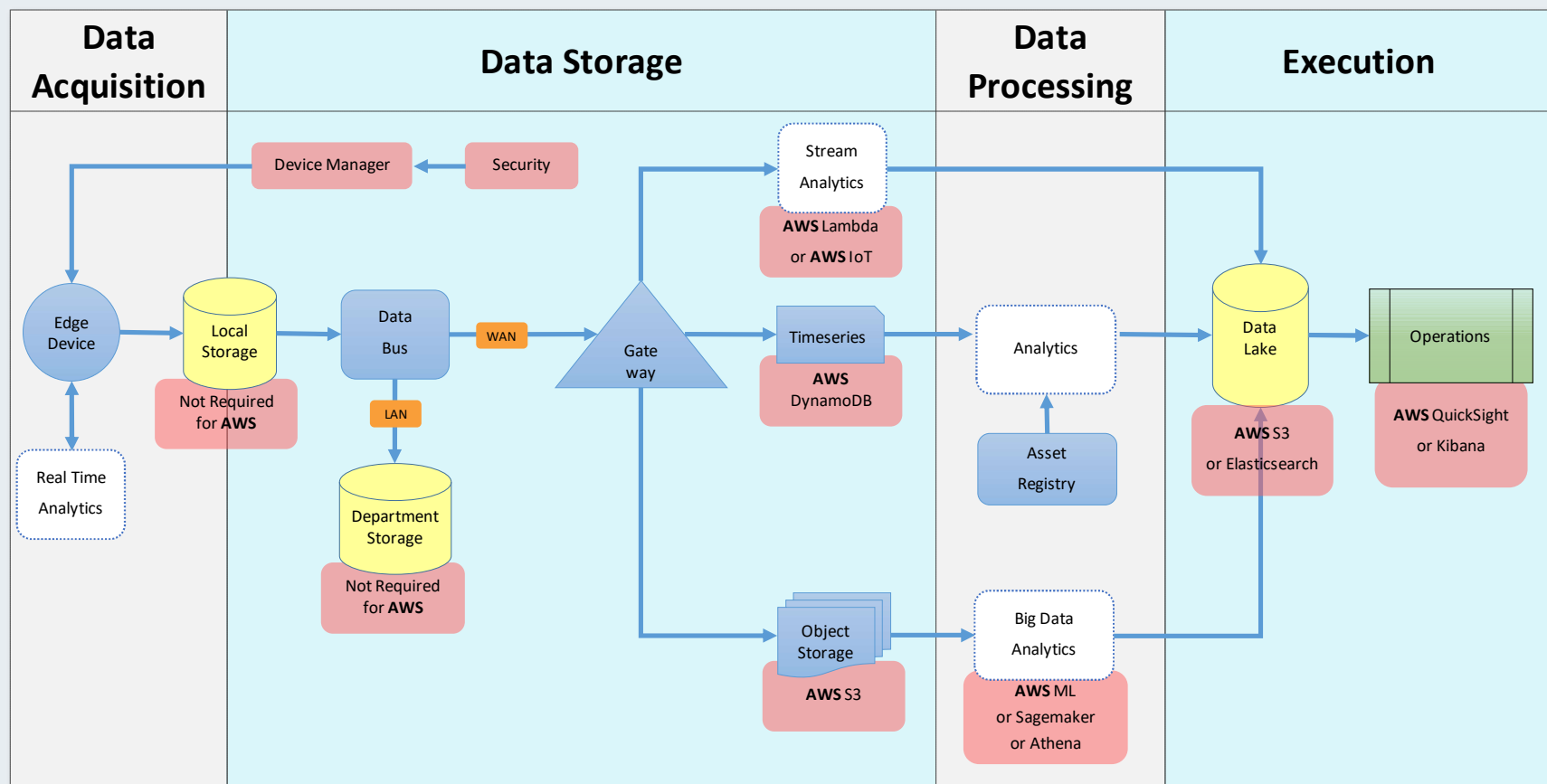


Figure 7: Process Architecture – End to End Data Flow with/without AWS