Asset Health Monitoring in O&G Fields Using uOPC Data Bridge

utthunga
Engineering Transformation

Data Bridge
- MQTT Broker
- OT-Data Adaptor

Cloud/IIoT Platform

Remote Maintenance

Modbus TCP

OPC UA/OPC DA

Controllers

Field Devices

Data Flow

Data Flow

Oil & Gas Field
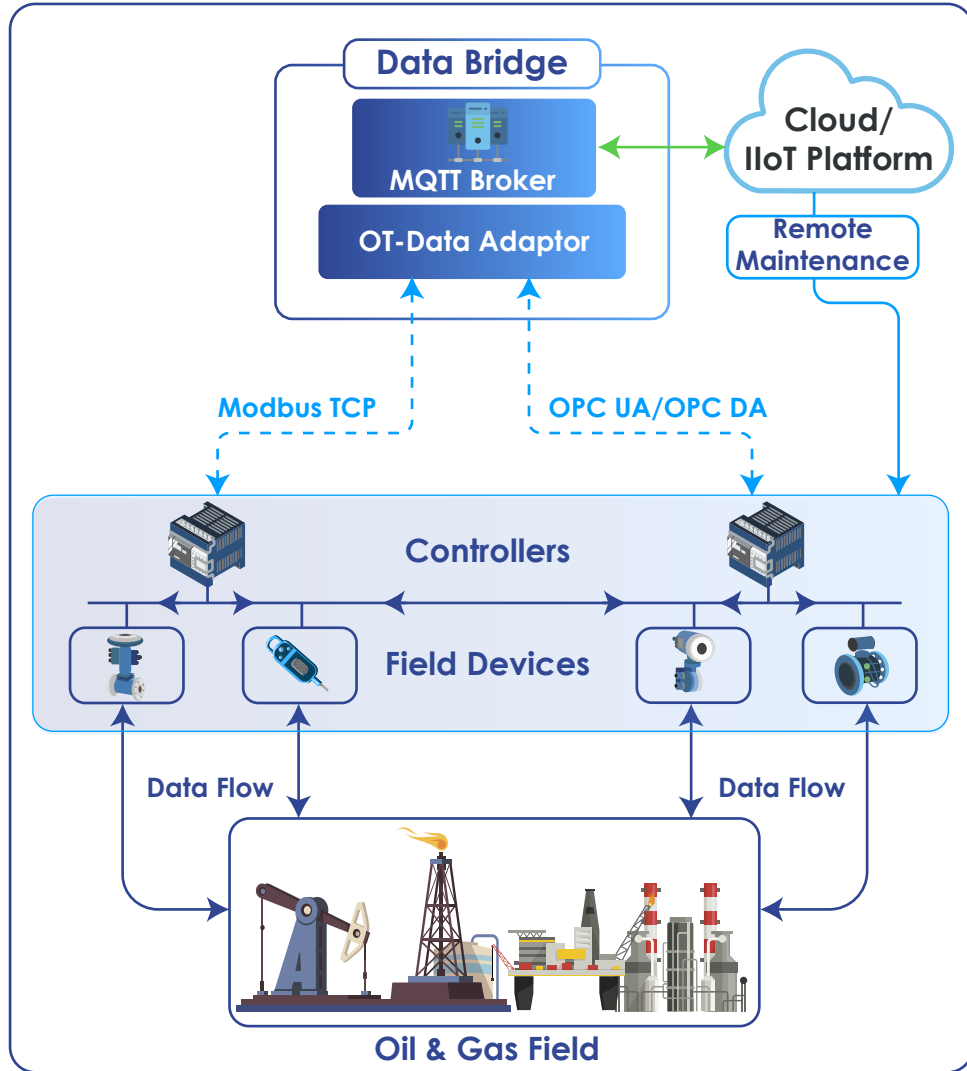
Challenges

- **Data analytics** due to lack of unified data from field devices
- **Reporting errors** due to manual maintenance
- **Insecure data** transfer from field devices to Cloud
- **Interoperability issues** due to limited connectivity

Solution

- Single solution - **uOPC Data Bridge** - addressing all challenges
- **Field asset connectivity** supporting OPC Classic, OPC UA/DA, & Modbus TCP
- **IIoT platform connectivity** supported by MQTT broker
- Data availability in OPC-UA Data format for **cloud-platform scalability**

Benefits

- **20% more** field devices connected to the IIoT platform
- **30% reduction in** plant visits due to remote configuration capabilities
- **Secure data transfer** from Field Assets to Cloud across the DMZ & Firewall
- **8% reduction** in device & equipment downtime due to real-time data availability

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