

Global systems integrator delivers an agile and lean solution for bridging on-premise SCADA systems to hyper-scale cloud architecture utilising a hybrid integration architecture with Reekoh.

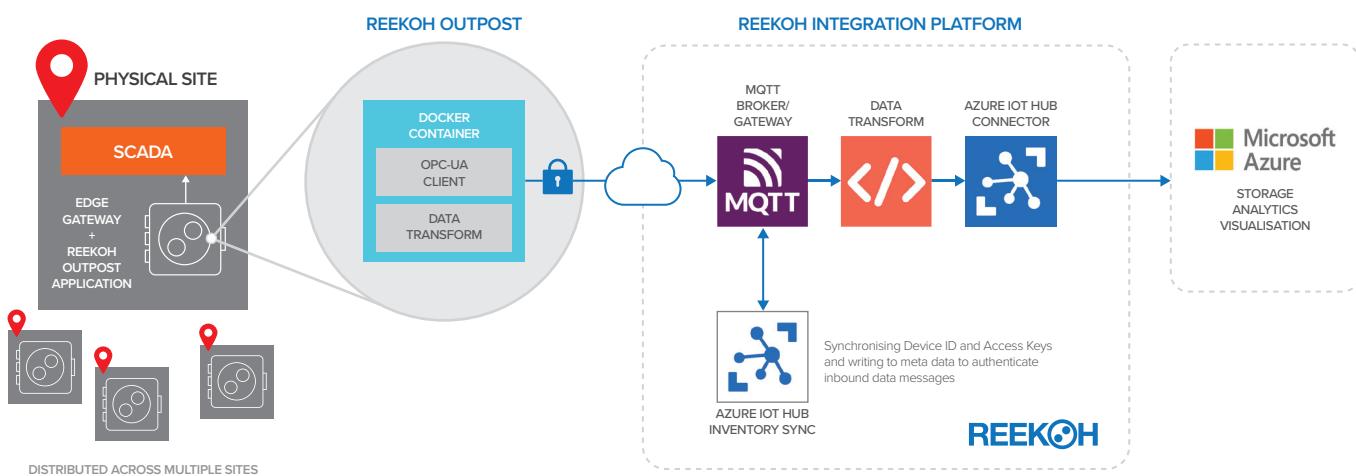
CHALLENGE

With a Microsoft Azure cloud architecture in place to perform data storage, analysis and visualisation for an industrial water customer, this global systems integrator required a lean and agile edge data acquisition solution that could scale easily across over more than a dozen physical sites and integrate seamlessly and securely with their cloud requirements. Partnering with leading edge gateway hardware providers, the solution needed to take advantage of modern container architectures, run an OPC-UA client, transform data and integrate it with Microsoft IoT Hub. The other key challenge was time and project cost; ruling out time-consuming manual programming and development of a custom solution.

SOLUTION

The Reekoh Outpost IoT Edge solution was used to encapsulate OPC-UA data collection and transformation, specific to the requirements of each individual SCADA environment at each physical site. Data was then sent to the Reekoh Accelerate integration platform and a built-in MQTT cloud broker.

Using Reekoh's various existing Microsoft IoT Hub integrations, asset IDs and IoT Hub access keys were added to meta data, then synchronised and matched with data from the Edge to authenticate its validity. Data was then prepared and integrated with IoT Hub for use with downstream applications such as predictive analytics and visualisation.



BENEFITS

- Agile and secure Edge solution for multiple physical sites using customer hardware of choice.
- Fast, low-code integration from Edge to existing cloud architecture and vendor technologies.
- High-value, low-cost solution that becomes highly repeatable for other use with other customers and similar use cases.
- Supported and managed product, delivered through Reekoh's professional services team.