



Introduction to Cassia OPC UA Server Solution

Making Bluetooth IoT Easy. Scalable. Secure.



What is OPC-UA (Unified Architecture)



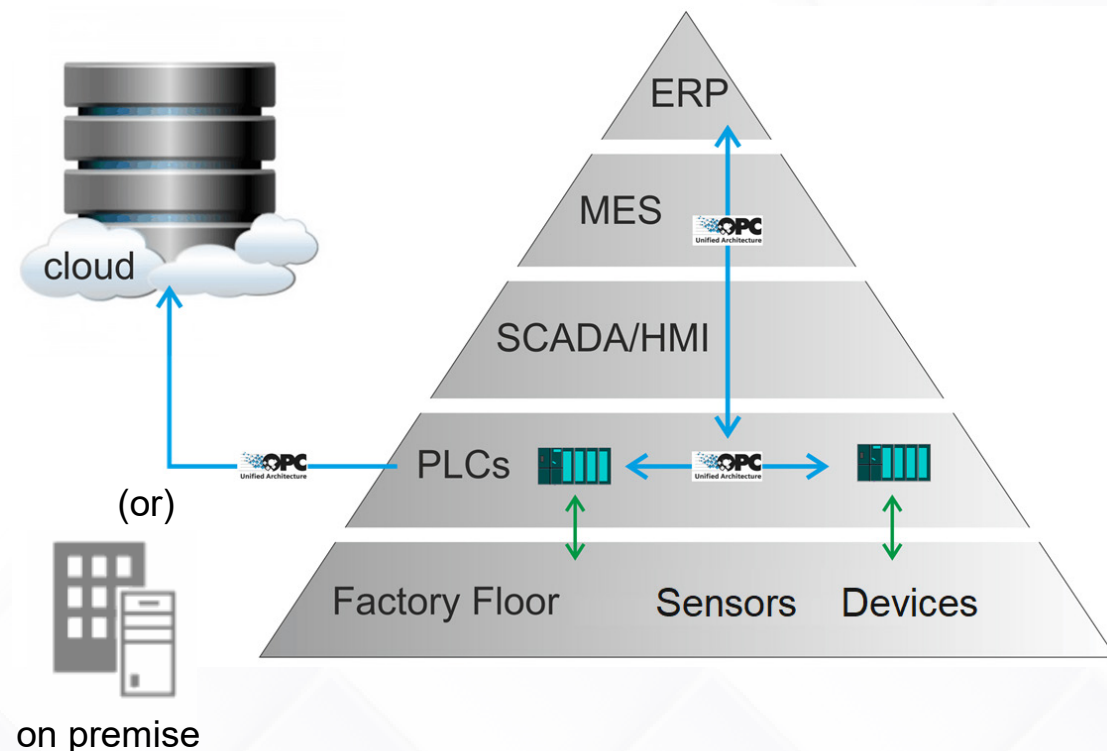
OPC-UA – enables **secure, reliable** and **platform independent** interoperability



Enables transportation of data from **process control** devices to enterprise **information systems**



Supports **local & cloud server** deployments



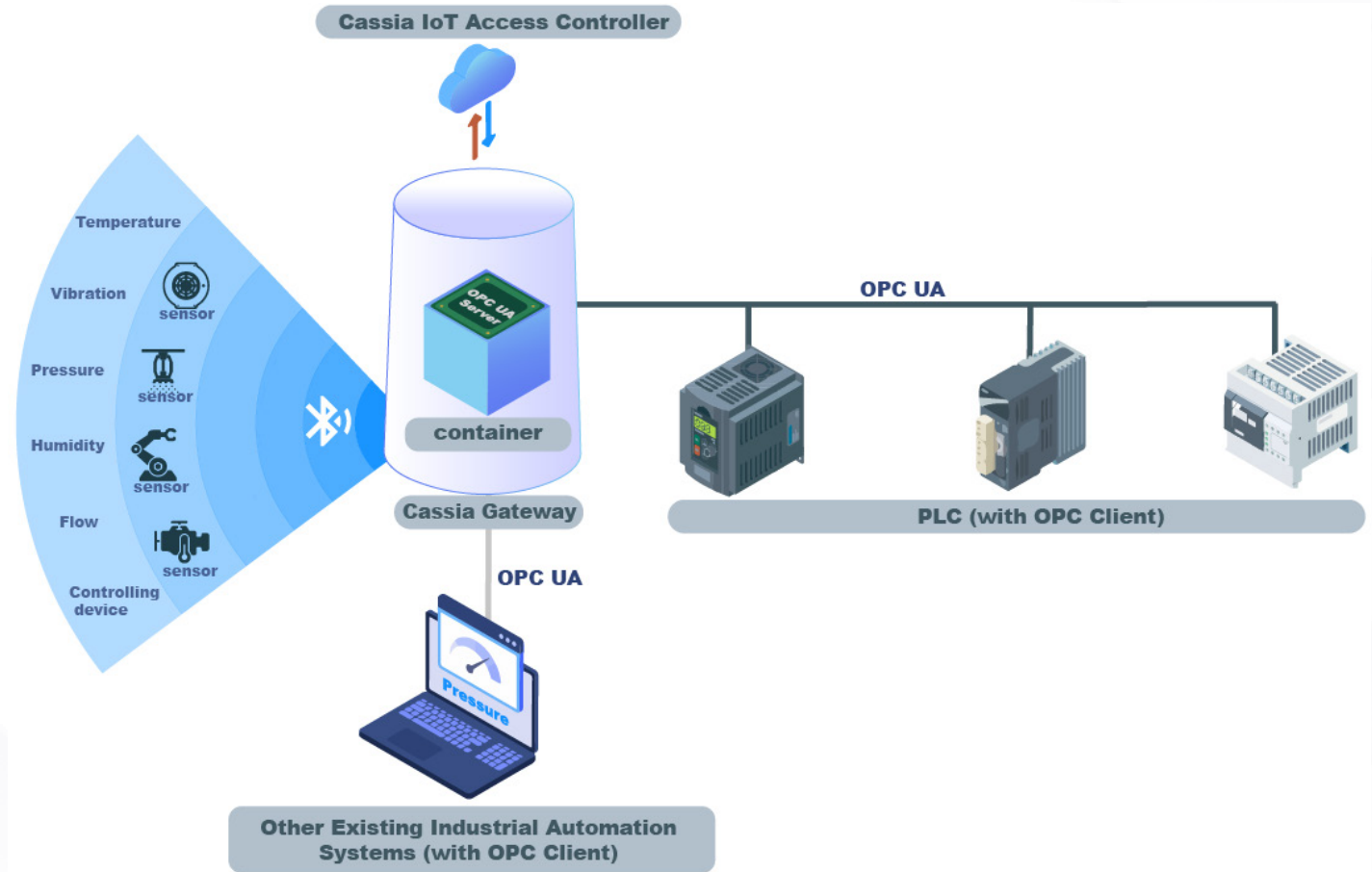
OPC Foundation: <https://opcfoundation.org>



Why OPC UA Server Support for Bluetooth Gateways?

Advantages for IIoT applications:

- Enabling BLE sensors to **communicate directly** with PLCs that support OPC UA protocols
- Enables the **integration** with other existing industrial automation systems
- Provides **easy deployment**, **secure** data exchange and can accommodate legacy systems allowing for greater **scalability**



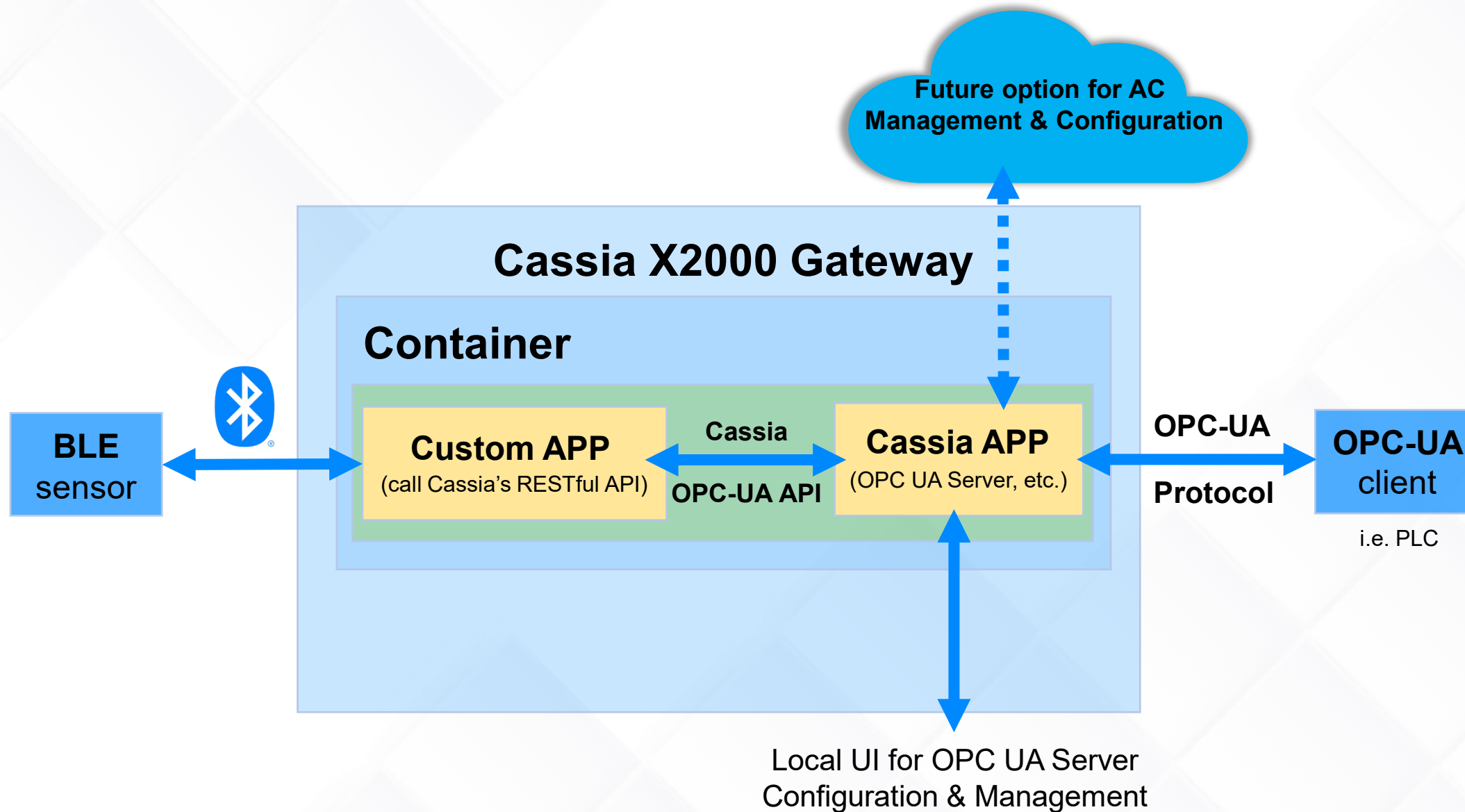


Introducing Cassia's **OPC-UA Server Solution**





Design Architecture





Custom Gateway Agent App

Cassia can customize a customer's APP depending on their unique requirements:

- Connect customer's BLE sensor by calling Cassia's RESTful API
- Saves the BLE sensor data in the OPC UA server through Cassia's OPC-UA API

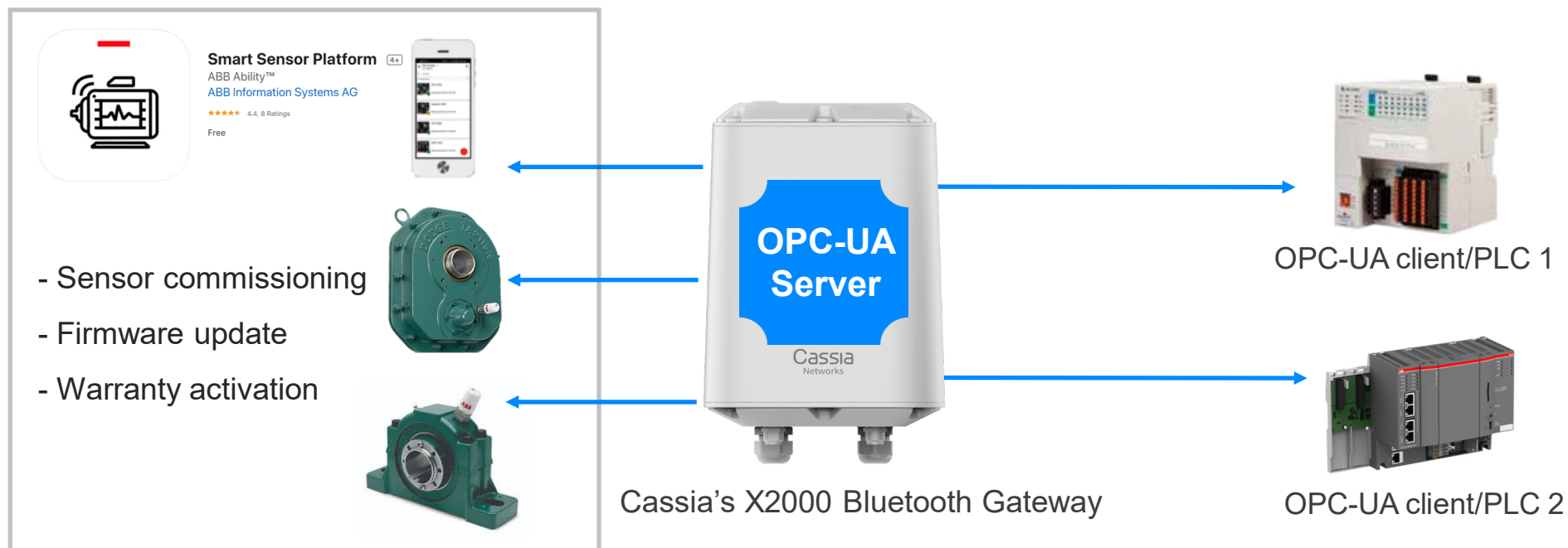
For future device integrations, this can be achieved with one of the following development options:

Option 1: Customer can write their own custom gateway agent APP

Option 2: Cassia will write the custom APP as a professional service project



Use Case: OPC UA Server Collaboration with ABB





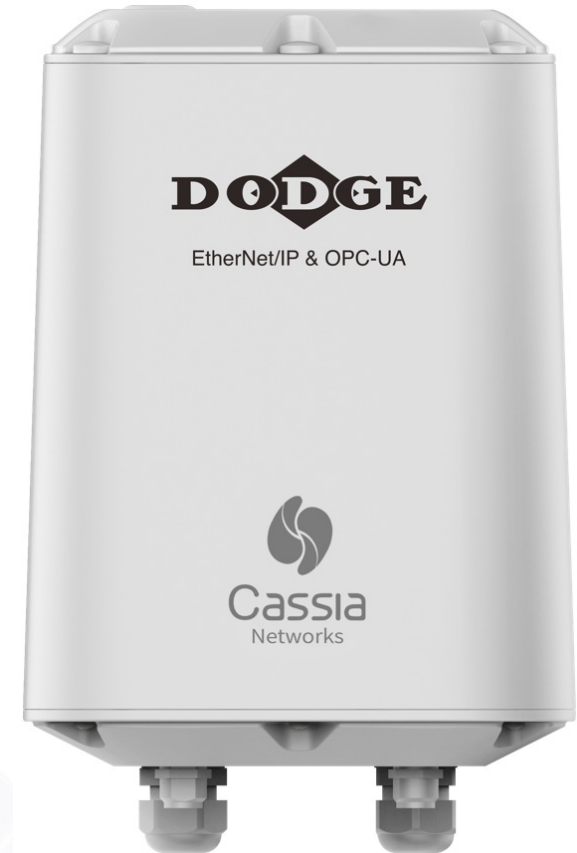
Use Case: OPC-UA Server Collaboration with ABB

Phase 1:

- Customers that use Bluetooth IoT solutions for motor & bearing condition monitoring applications

Phase 2:

- More general IIoT customers that want to connect BLE sensors to existing industrial automation systems that support OPC UA protocols



Co-branded gateway with ABB US bear group (DODGE)

Update: [RBC Bearings](#) acquires ABB's DODGE mechanical power transmission division



Summary

Cassia Networks supports the OPC UA server on Cassia's **Bluetooth** Gateways to enable end-users to integrate **BLE** sensors with many traditional IIoT automation systems (i.e. PLC)

Benefits for Customers

- Enables Smart Manufacturing applications
- Minimizes the complexity of communication between devices and sensors allowing for greater efficiency
- Reduces operational expenses



Cassia
Networks

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