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OPC Day 29.11.2022

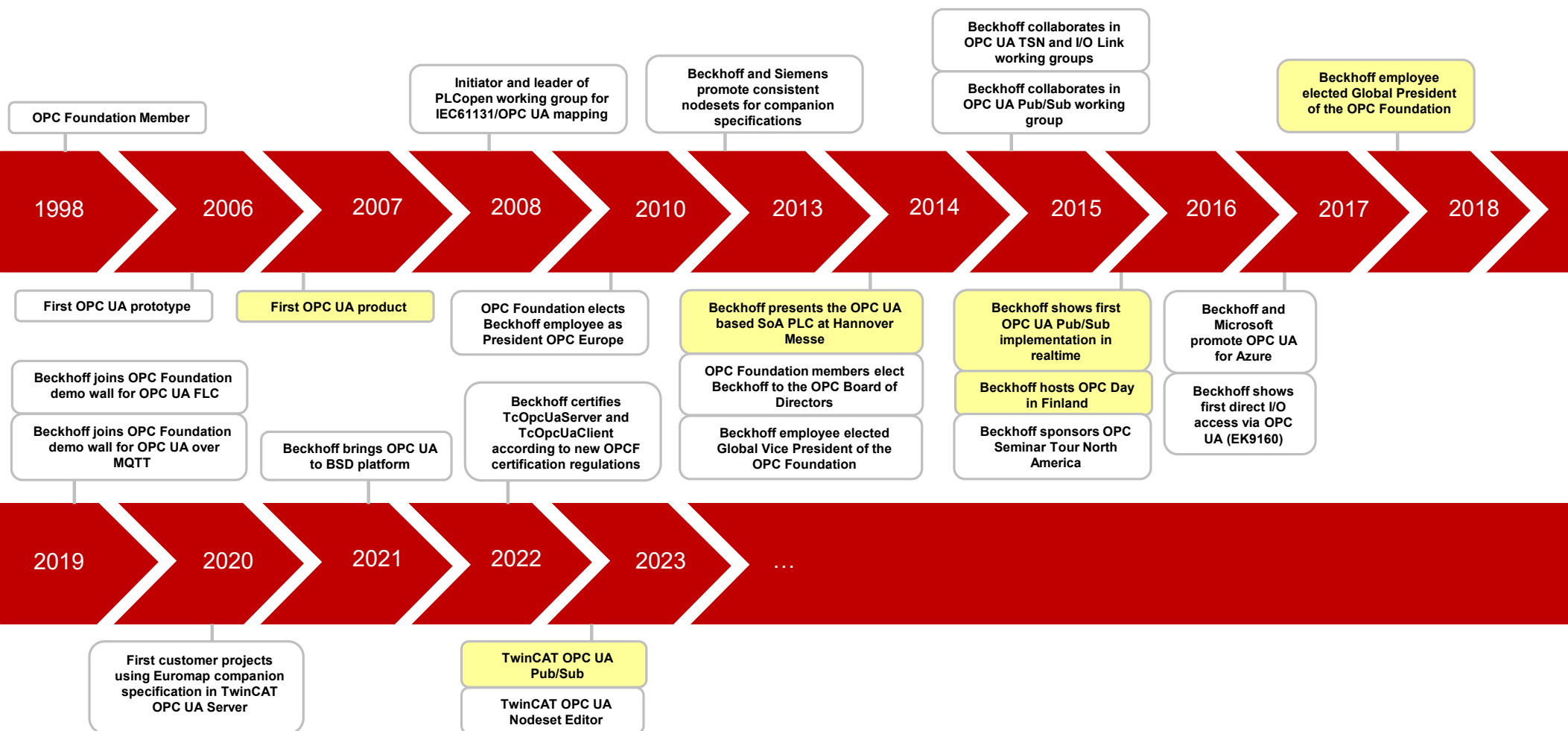
Aapo Vuoristo
Control System Specialist, Team leader
Beckhoff Automation Oy



- Beckhoff OPC UA Product overview
- Hands on upcoming feature: OPC UA Pub/Sub
- Hands on: Measurement demo version 2

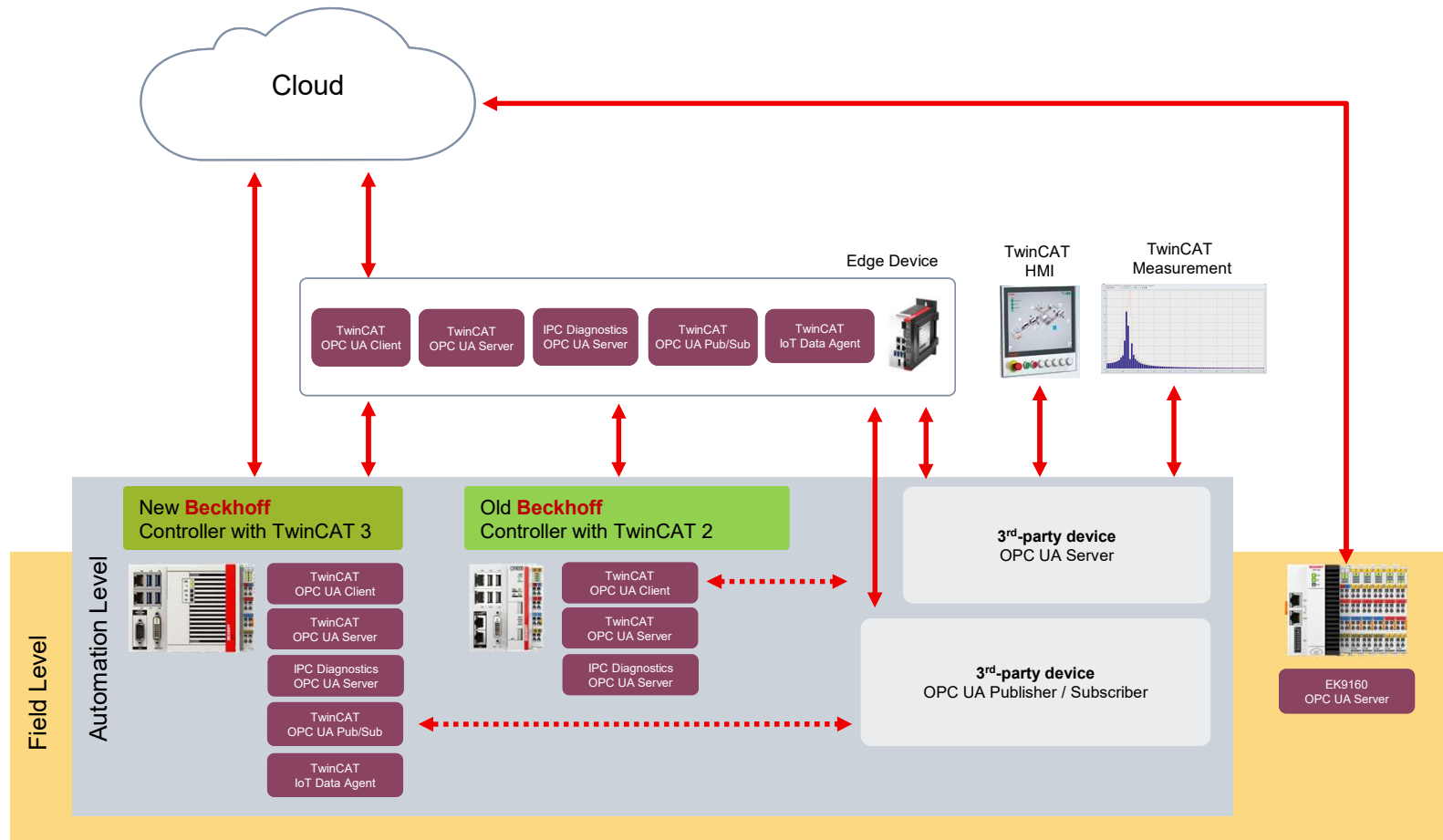
Beckhoff and OPC Foundation history

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OPC UA enabled products for every use case

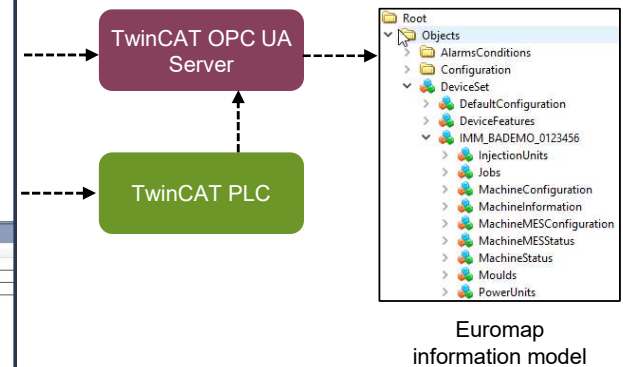
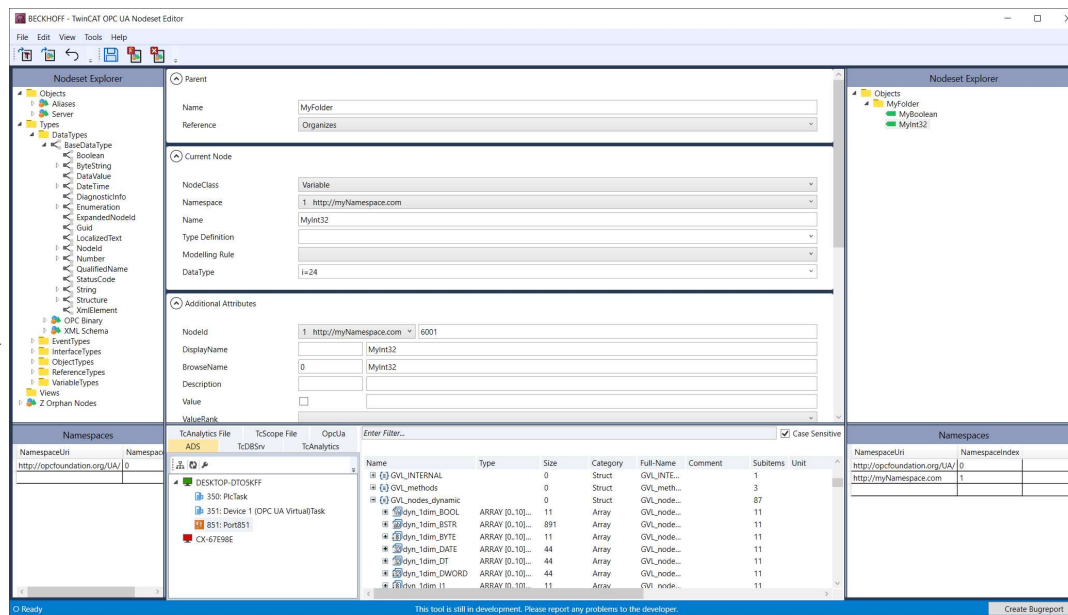
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OPC UA Nodeset Editor

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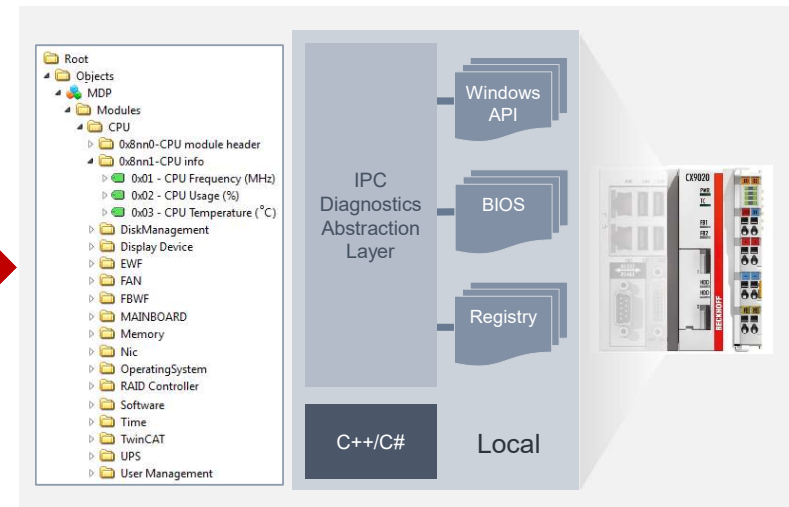
Update on development status



Beckhoff IPC Diagnostics

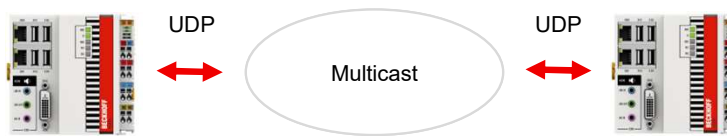
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- Configuration and monitoring of IPC parameters
 - cpu (temperature, usage, ...)
 - hard disk (s.m.a.r.t. status, usage, ...)
 - fan speed
 - network configuration
 - ...
- pre-installed on every Beckhoff IPC/EPC
- different interfaces to acquire system data
 - Device Manager website, ADS, OPC UA, APIs



- OPC UA introduces new transports for Publisher/Subscriber

1. Machine-to-Machine communication via UDP
 - Fast communication within machine network

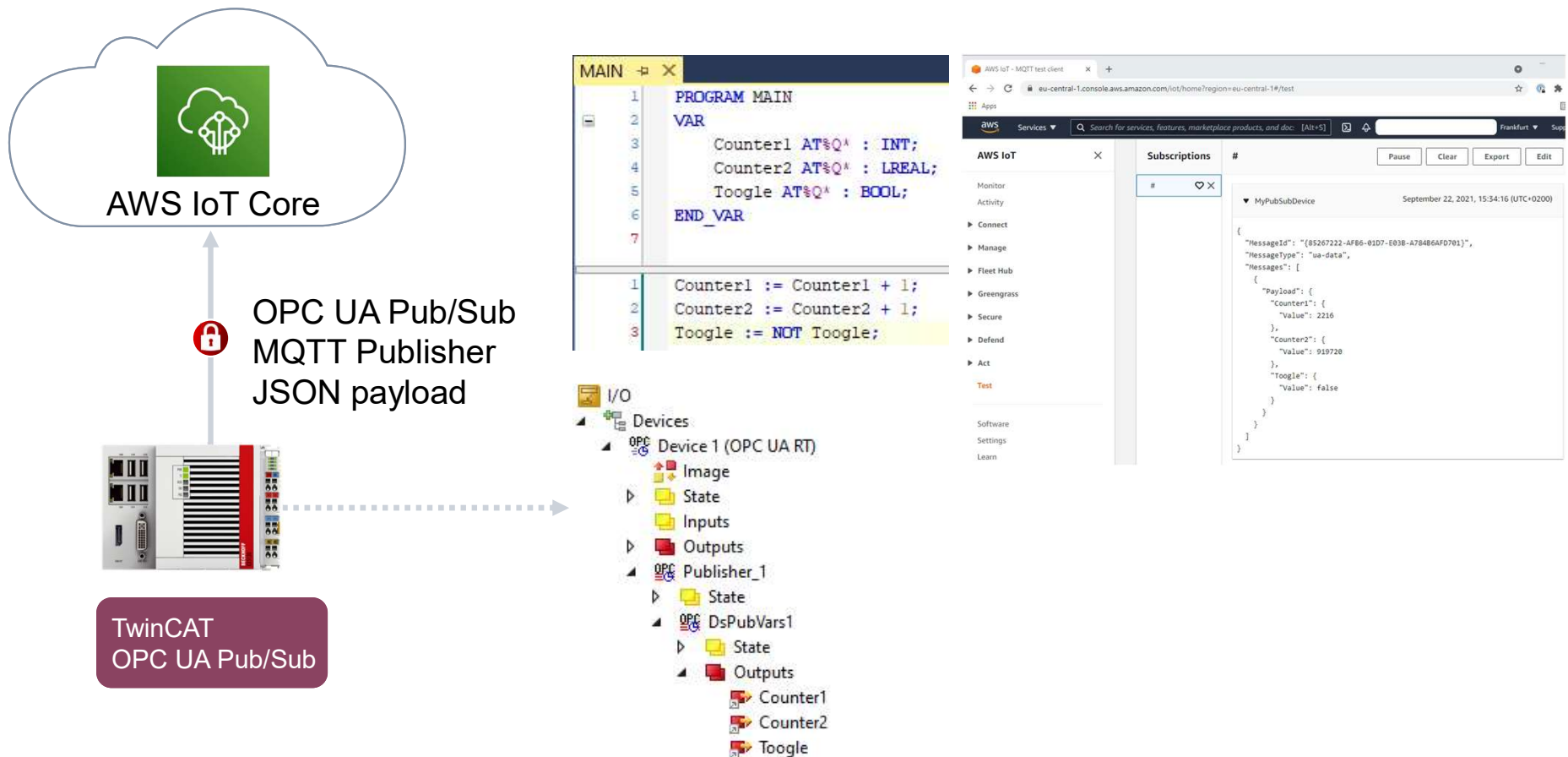


2. Machine-to-Cloud communication via MQTT
 - Message Broker based cloud connectivity



OPC UA Pub/Sub UDP (MQTT)

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My previous demos are still valid,
dont hesitate to ask for details 😊

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2016 @ Beckhof, Hyvinkää

OPC UA with Beckhoff Products

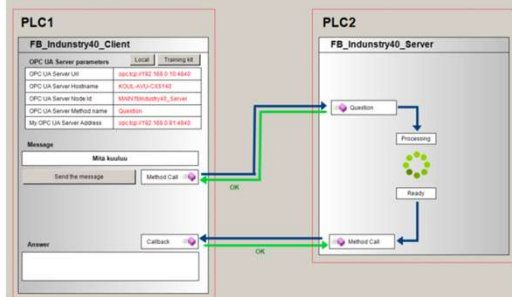
USE CASE #3 – Callback function implementation

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Beckhoff PLC OPC UA server contains client libraries as well!

- Easy to implement
- Make your system architecture even more flexible

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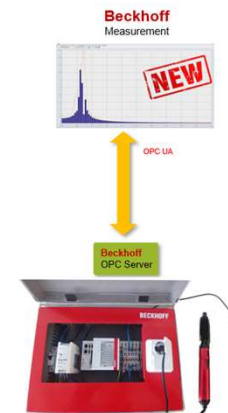


2018 @ Valmet, Tampere

OPC UA

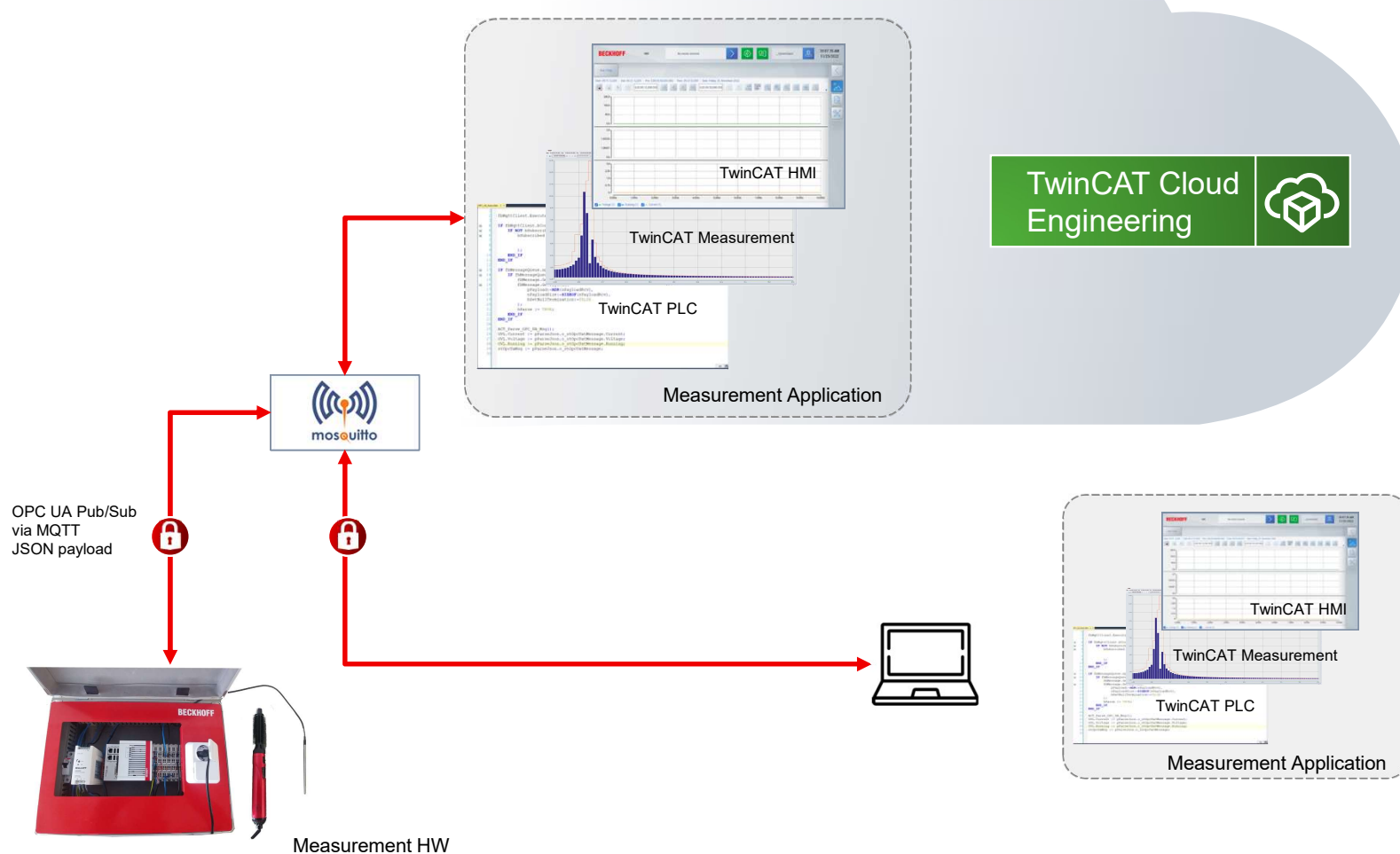
Demo: OPC UA Measurement

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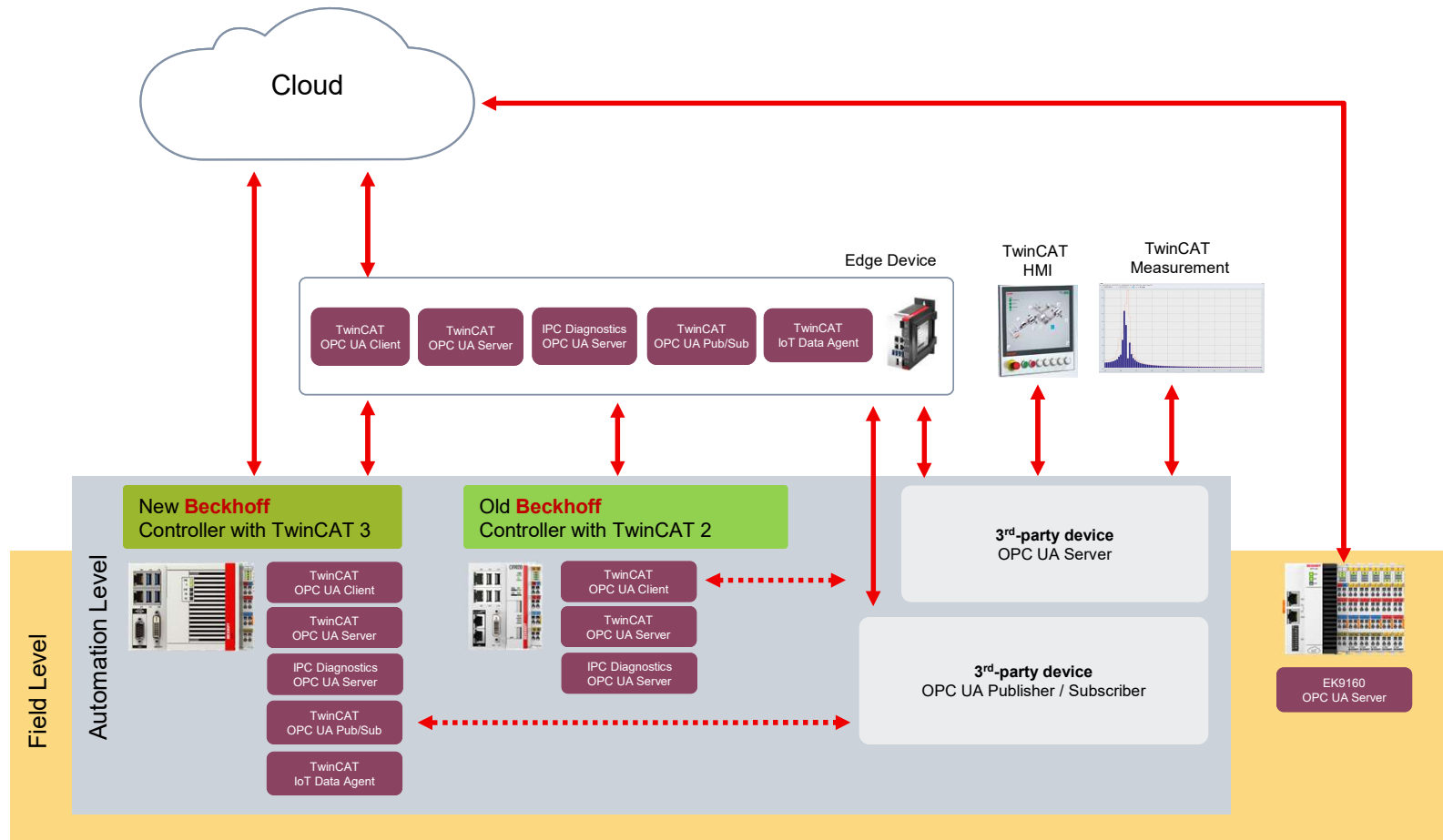
2022: Measurement Application OPC UA Pub/Sub

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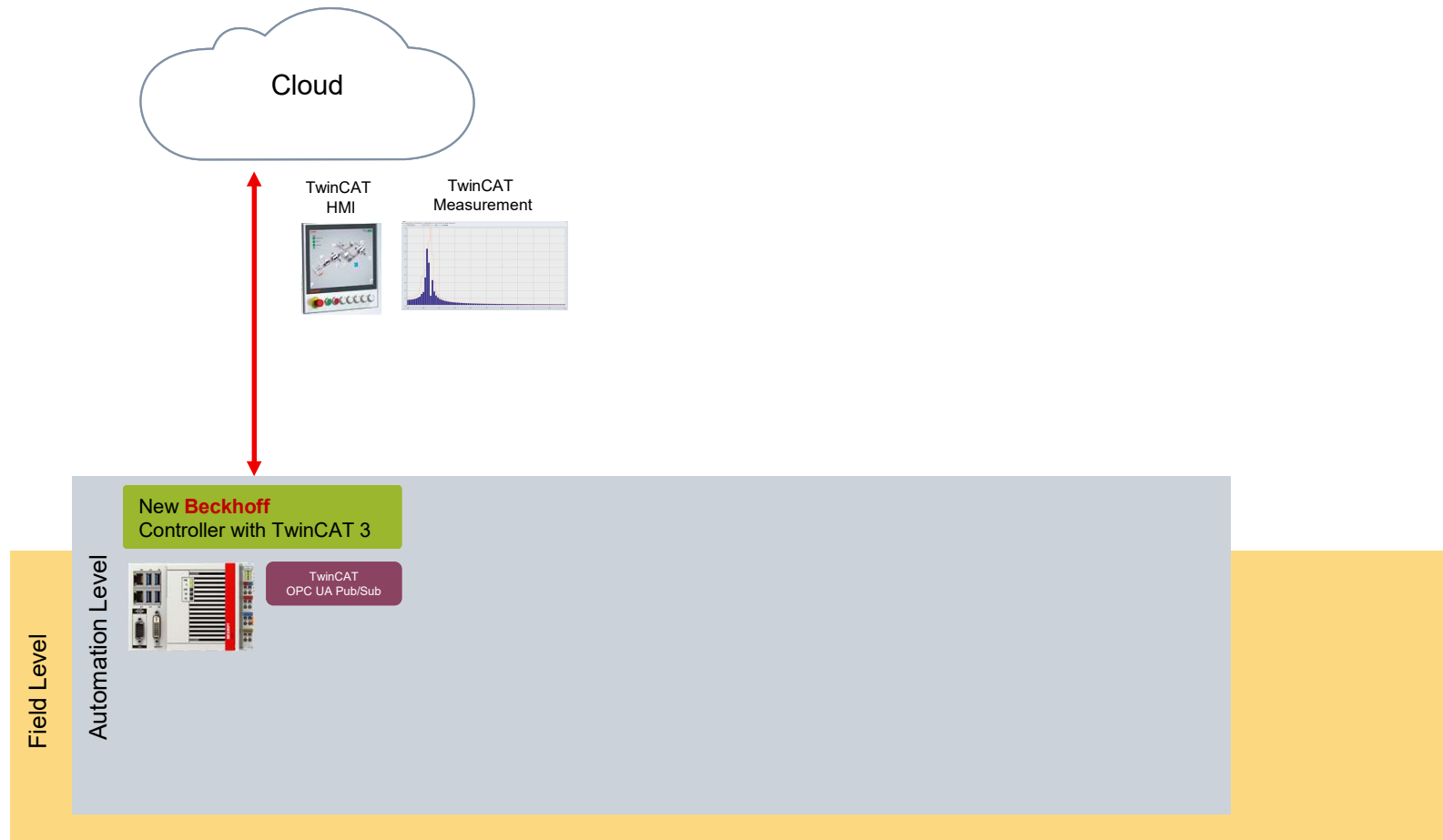
Software used in demo

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Software used in demo

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Questions? Contact us!

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Beckhoff Automation Oy

www.beckhoff.fi

Its free! Its Open!

- OPC UA is available to all Beckhoff devices
- OPC UA popularity is growing
 - ➔ keep in mind when choosing your Automation components

