Rockwell Automation

expanding **human possibility**®

OPC UA
RA Offering

Paul Brooks • Manager, Technology Business Development • 02•01•22

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OUR **PROMISE**

We are a global leader in industrial automation and digital transformation.

We connect the imaginations of people with the potential of technology to expand what is humanly possible, making the world more productive and more sustainable.

expanding **human possibility**®

Rockwell Automation

Bringing the Connected Enterprise to life.

The Connected Enterprise® converges plant-level and enterprise networks, and securely connects people, processes, and technologies.

We **understand**
our customers and the best opportunities for productivity in their industries and applications

We **combine**
our technology and domain expertise to deliver positive business outcomes

We **simplify**
our customers' experience and drive productivity

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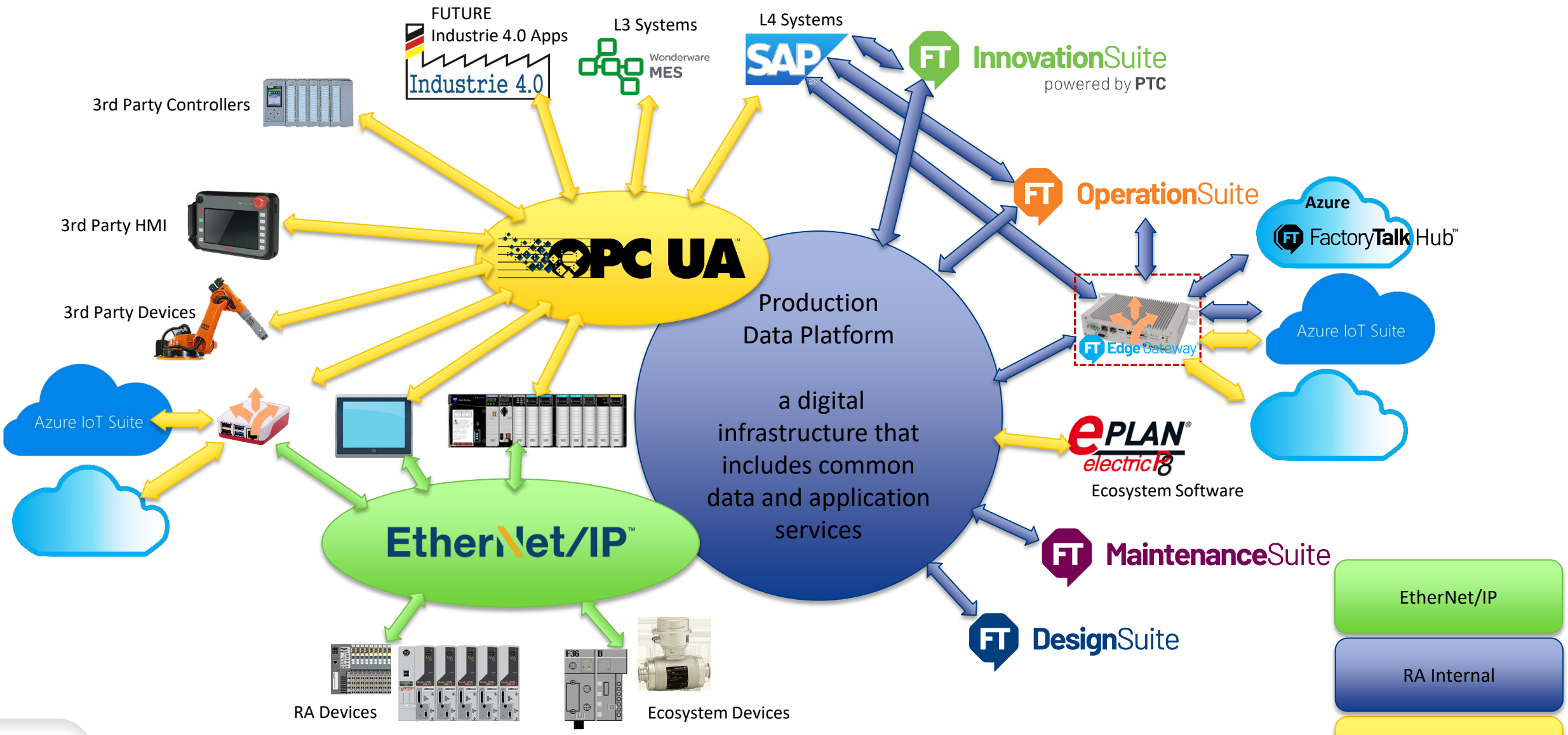
OPC UA Mega-Marketecture



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Product Portfolio Overview

FactoryTalk® and OPC UA

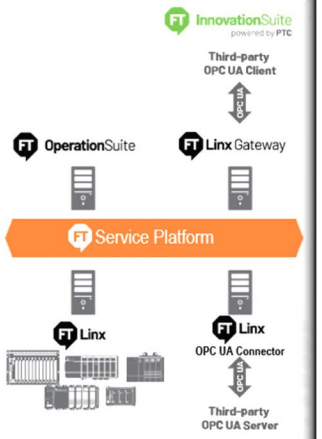
Providing solutions for visualization, information, MES applications

Linx Gateway

- Adds an OPC-DA and UA interface to FactoryTalk® Linx
- Third-party software can access control system data
- Purchased based in system requirements and capacity

Linx
OPC UA Connector

- Enables most FactoryTalk® software to access information from other vendors equipment and servers
- Included with most FactoryTalk® software with the FactoryTalk® Service Platform



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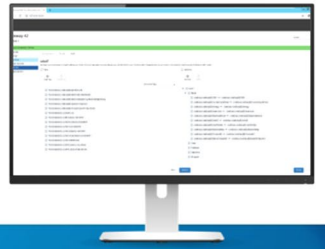
Edge Gateway™



Connect
disparate OT data sources

Apply
application context

Enable
contextualized data delivery

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Compute Options for FactoryTalk® Linx & OPC UA

Built-in

CompactLogix™ 5480

- Logix 5000™ control coupled with Windows 10 IoT Enterprise PC
- Single i7 core for Windows isolated from Logix control

In-Chassis

1756 Compute

- ControlLogix® chassis module
- Windows 10 IoT Enterprise
- Dual Core performance

Panel Mount

VersaView® 6300 Industrial PC

- Panel-mounted computer
- Windows 10 IoT Enterprise
- Quad Core performance

Embed OPC UA directly into a machine

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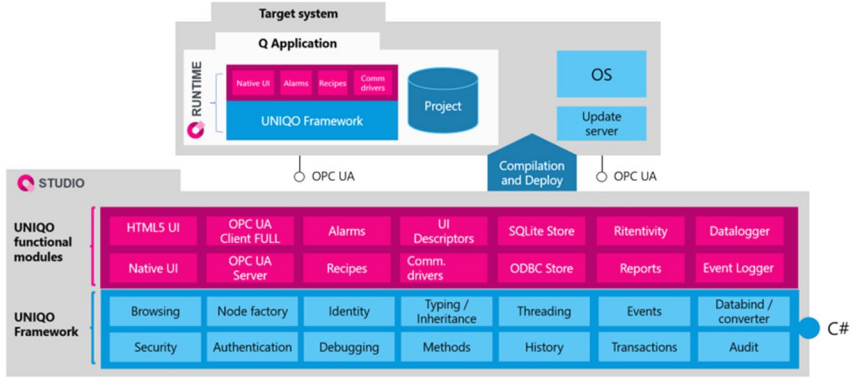
UNIQO is built on OPC UA

ASEM
A ROCKWELL AUTOMATION COMPANY



Modularity is an integral part of the architecture

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OPC UA Field Exchange

Rockwell Automation Priorities

- Deliver capabilities not in scope of EtherNet/IP
  - Multi-vendor controller to controller
  - Vertical integration of devices
- Simplify user experience
- Ensure clean migration
  - Single EtherNet/IP and OPC UA network
  - Expansion of existing installations
  - Preserve user workflows
  - Maintain quality promise

Rockwell Automation

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Rockwell Automation Joins Initiative to Bring OPC UA to Field-Level Devices

November 29, 2018

MILWAUKEE — Rockwell Automation is joining an OPC Foundation initiative to extend the OPC UA protocol to field-level industrial communications.

Under the initiative, a series of working groups are being formed to bring the OPC UA protocol's vendor-independent, end-to-end interoperability to field-level devices. The initiative plans to address use cases not currently in scope for EtherNet/IP. It could also simplify other use cases, especially in multi-vendor, controller-to-controller environments and for the vertical integration of field devices.

"Rockwell Automation has always supported the development and use of open standards," said Paul Brooks, business development manager, Rockwell Automation. "Extending the OPC UA protocol to the field level or shop floor can help simplify system development and accelerate a company's journey to a Connected Enterprise."

As the primary author of the EtherNet/IP specifications, Rockwell Automation understands EtherNet/IP users may see compatibility risks in technology developed for a different ecosystem. The company intends to mitigate these risks through both its ongoing development of EtherNet/IP and its intentions for the OPC UA protocol.

Rockwell Automation's priorities within the new OPC Foundation initiative include working to help ensure the following:

- OPC UA specifications are written with the same level of rigor and completeness as the EtherNet/IP specifications.
- Time-sensitive networking (TSN) is commonly applied across the OPC UA, EtherNet/IP and PROFINET protocols, so all three can coexist on a common TSN-based network.
- OPC UA pub/sub technology is implemented in a way that allows existing EtherNet/IP installations to support OPC UA devices.
  - C UA hardware requirements allow the protocol to be deployed on hardware platforms that are non in today's EtherNet/IP components.
    - software requirements allow the protocol to be deployed within current EtherNet/IP-centric ols without significant changes to user workflows.
      - test practices mandated for EtherNet/IP reflect the necessary requirements for OPC UA ting.

se priorities to help make sure EtherNet/IP users have a choice of whether and w OPC UA protocol," Brooks said. "We want users to determine the pace of ue that they receive, rather than technology choices made in the engaged in the initiative will share this common goal."

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Backup

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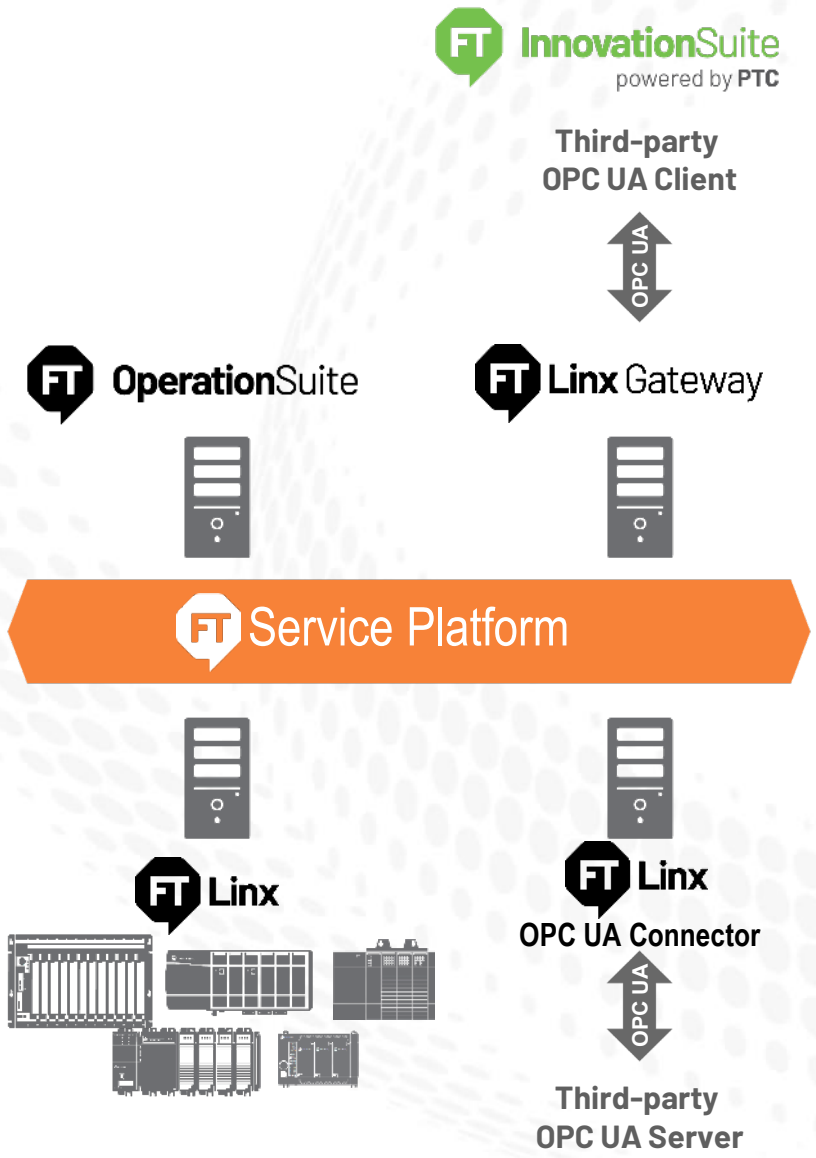

Compute Options for FactoryTalk® Linx & OPC UA

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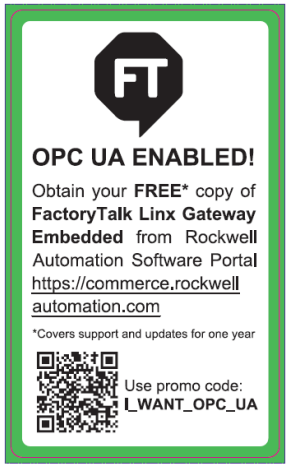

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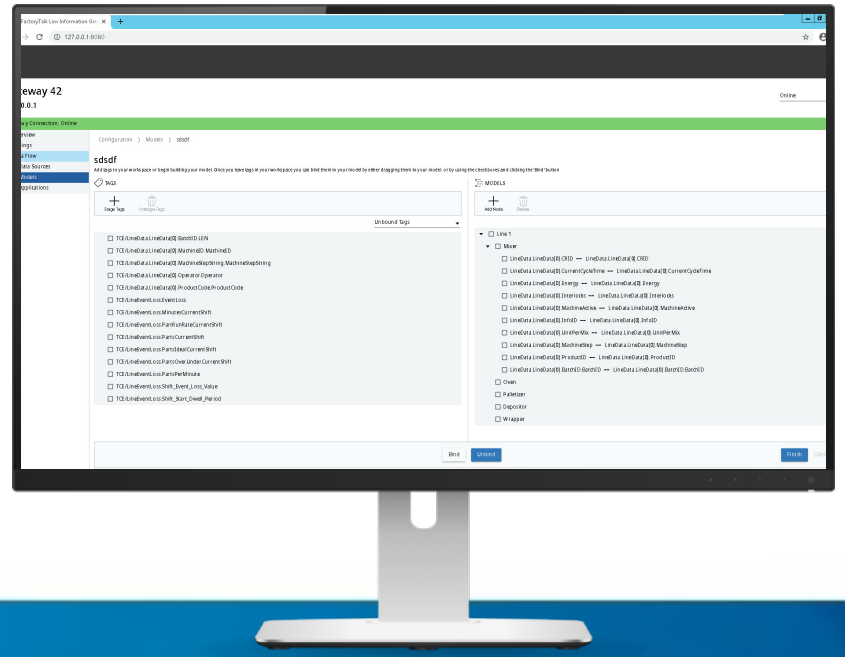

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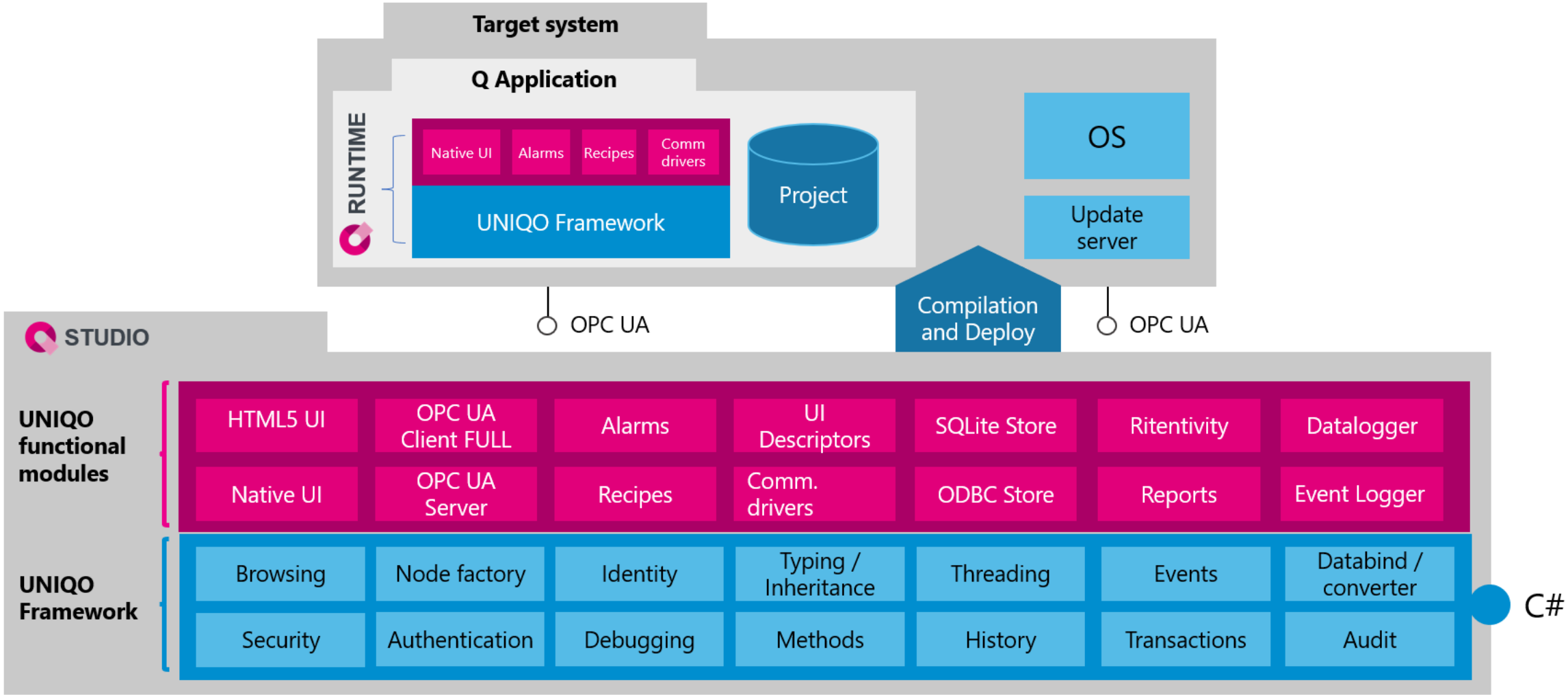

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