

OPC UA: The Foundation for Industrial Digitalization

How secure, semantic interoperability is enabling digital transformation,
AI, digital twins, and connected value chains worldwide

AutomationML Conference 2026 - Sept 20th, 2026



Stefan Hoppe
President & Executive Director OPC Foundation
stefan.hoppe@opcfoundation.org

What is OPC UA?

The Digitalization Standard for Semantic, Secure Industrial Interoperability

Perception:

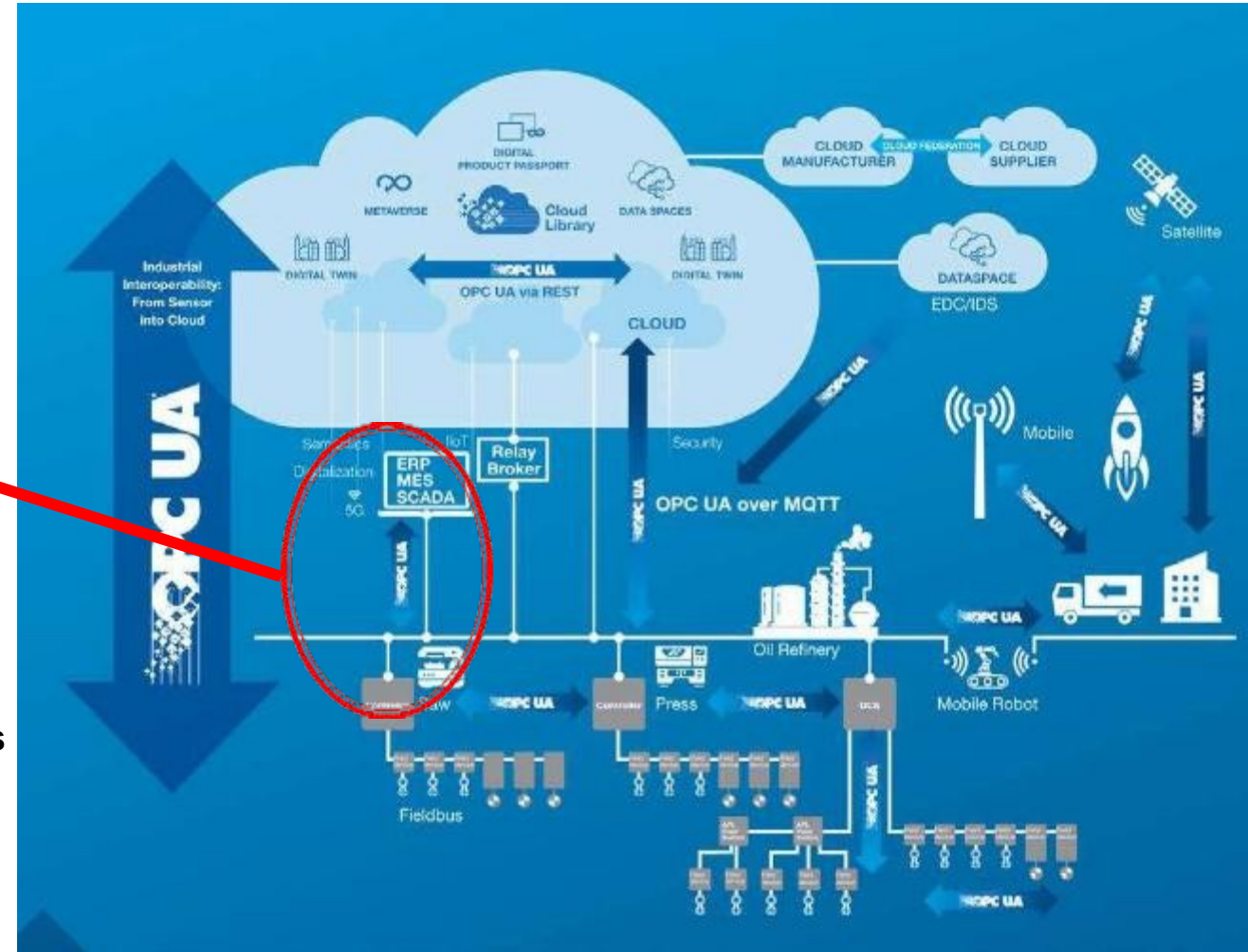
OPC UA is
a protocol connector for data exchange
(and the last mile to machines/PLCs only)

Instead :

OPC UA is
THE Secure, Semantic Digitalization Standard

Semantic: single source of truth, defined by domain experts

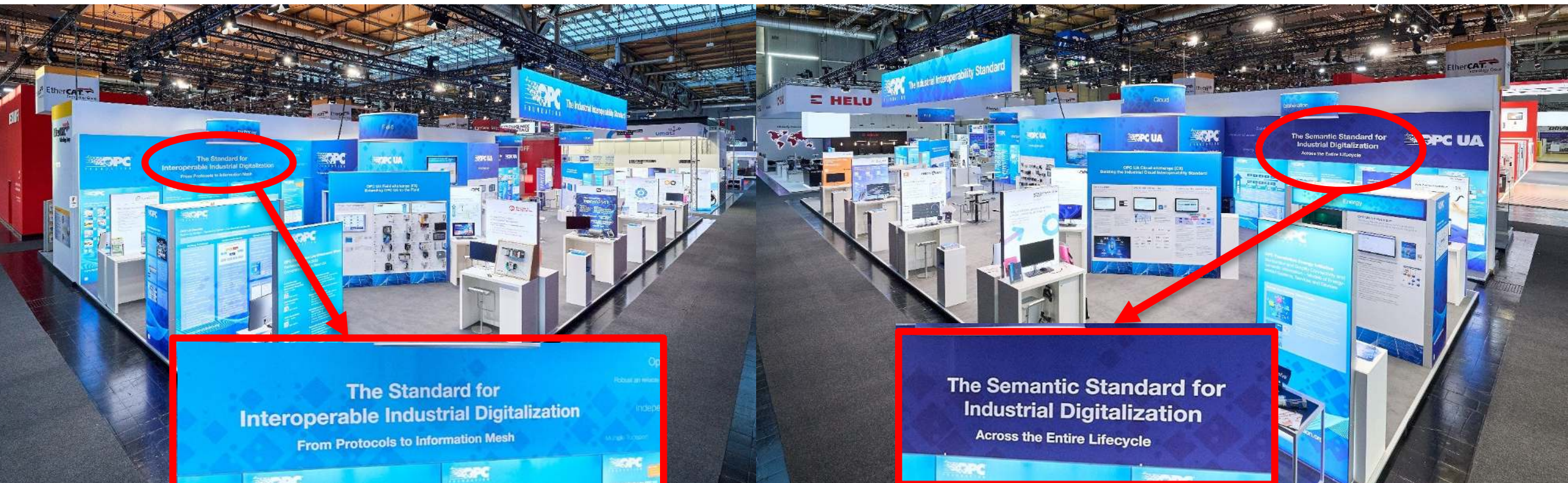
- Transport: various capabilities to deliver what fit's best
- Security: Built-in by design, proven by intern. security agencies



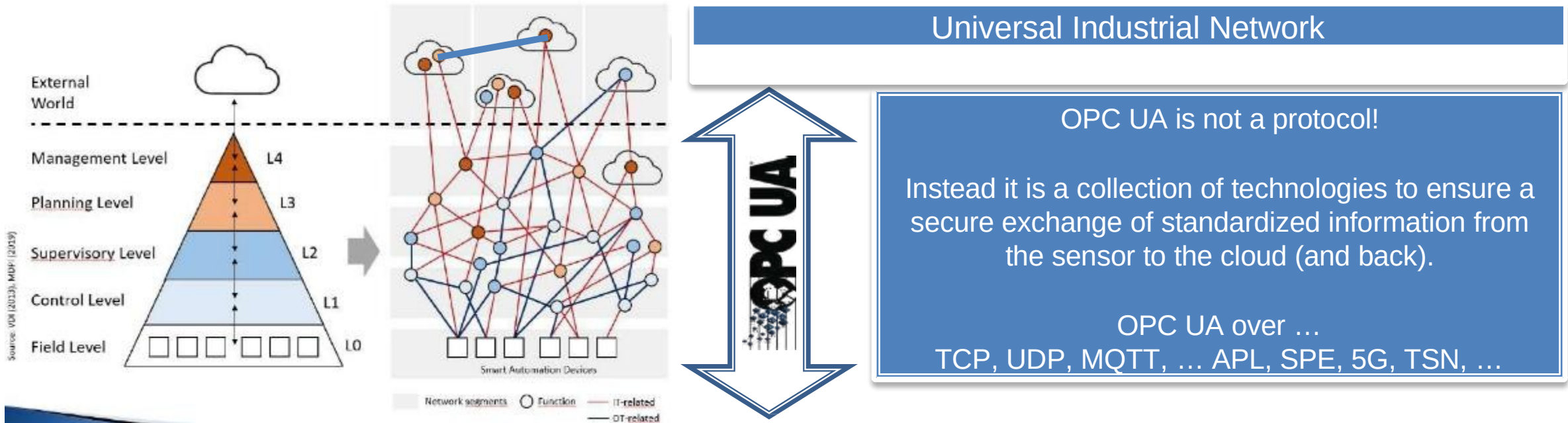
What is OPC UA?

OPC UA: The Secure, Semantic Standard for Interoperable Industrial Digitalization

From Protocols to Information Mesh / Across the Entire Lifecycle

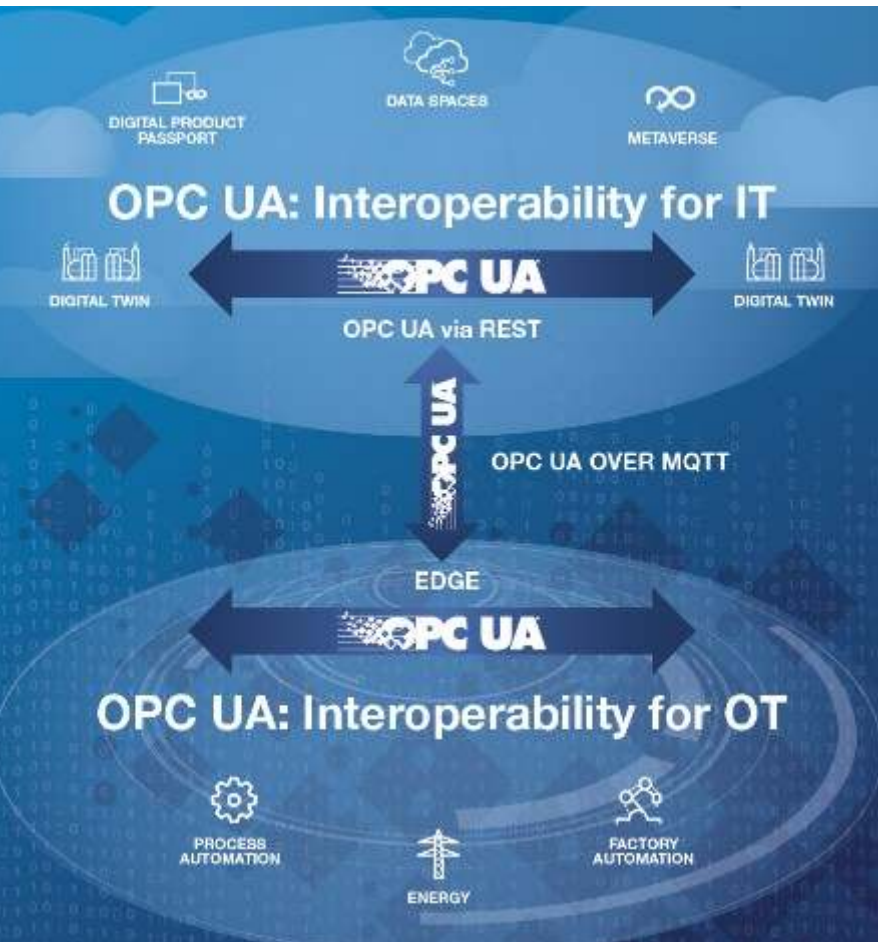
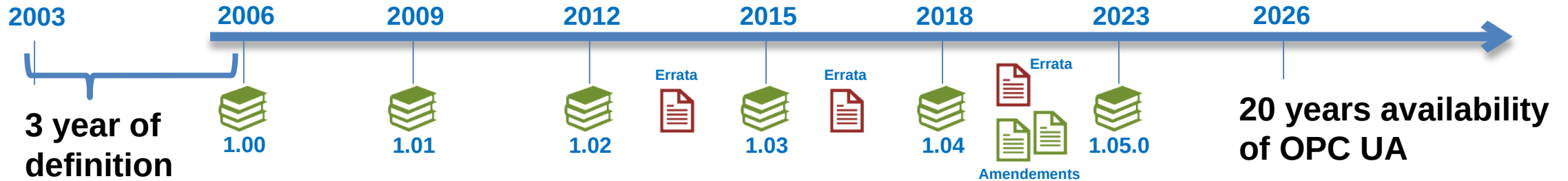


From Automation Pyramid to Information Network



- Challenge to transformation from an Automation Pyramid (with proprietary protocols between all layers) to an Information Network (providing standardized information exchanged secured end-to-end and be able to bypass layers)
- OPC UA is an open framework delivering end-to-end secured, standardized information exchange
Openness is key: Open Specs, Open source (GitHub) and Open Labs for certification (without be paying member)
- OPCF defines with partners 450+ standardized information models for verikals like pumps, motors, robots, coffee machines
- OPC Foundation is the „Collaboration Organization“

OPC UA: The Semantic, Secure Industrial Interoperability Standard



One harmonized solution for OT and IT

... rich modeling language

- complex data / inheritance

... flexible transport

- TCP/IP, UDP, MQTT
- File Transfer (since 2013)
- REST interface (since 2016)
- Open Web API interface (since 2024)

... security built-in by design

- for accessing information
- for transport of information
- onboarding
- infrastructure certificate management



Happy Birthday OPC UA!



**The standard for semantic interoperability –
from sensor to cloud to AI**

OPC Foundation: Numbers at a Glance (status Sept 11th, 2026)

1039 Members 60% Europe 20% Americas 20% APAC	Budget 2026: 5.400.000,- USD Mostly member fees Zero public money	4 Regions North America, Europe, China, Japan 4 Hubs France, Singapore, India, Korea
150+ Working Groups 450+ Models free of charge in OPCF Cloud Library	15 Board Members 0 Employees 11 Contractors 1100+ Volunteers	OPC UA is IEC62541 Standard China standard GB/T 33863.x) Local standard in Singapore, Korea, Russia ... 17 Open Source Projects by OPCF 1900 Open Source Projects in total 11.600+ Followers on LinkedIn

OPC Foundation: Driven from Industry for Industry



Defining the semantic Collaborations with partners

OPC Foundation Collaborations

Welcome **LoRa Alliance**[®]

- ▶ <https://opcfoundation.org/markets-collaboration/>

Collaboration Domain Specific Information Models

The OPC Foundation closely cooperates with organizations and associations from various branches. Specific information models of other standardization organizations are mapped onto OPC UA and thus become portable.



OPC Foundation & AutomationML



Memorandum of Understanding (MoU) Between AutomationML e.V. and OPC Foundation in the Development of Relevant Standards and Specifications

1. Purpose

This Memorandum of Understanding ("MoU") establishes a cooperative forum between AutomationML e.V. and OPC Foundation and is effective as of November 26th 2013. The purpose of this MoU is to define the desired level of cooperation between the parties to this MoU to contribute to the goals of AutomationML and OPC Foundation MoU definitions as outlined below.

2. Background and Objectives

The OPC Foundation pursues interoperability in automation by creating and maintaining open specifications that standardize the communication of acquired process data, alarm and event records, historical data, and batch data to multi-vendor enterprise systems and between production devices. Production devices include sensors, instruments, PLCs, RTUs, DCSs, HMIs, historians, trending subsystems, alarm subsystems, and more as used in the process industry, manufacturing, and in acquiring and transporting oil, gas, and minerals. The goal for OPC is for it to be the foundation for interoperability for moving information vertically from the factory floor through the enterprise of multi-vendor systems as well as providing interoperability between devices on different industrial networks from different vendors.

AutomationML e.V. pursues the jointly definition and validation of the Automation Markup Language (AutomationML) as an intermediate XML based data format for all phases of the plant engineering along the engineering change of manufacturing systems. Thereby, AutomationML e.V. intends to reduce engineering costs and accelerate engineering processes, protect investment by enabling openness of engineering data, lower market entry barriers for innovative niche product vendors and service providers, enable seamless data transport among different engineering tools and make it easier to keep data consistency. To reach these goals AutomationML e.V. applies different existing international standards. AutomationML e.V. is established in Germany.

The variety, scope and focus of these standards bodies result in standards and specifications which are at times complementary, at other times inconsistent when taken as a whole, and sometimes mutually strengthening its impact if used in efficient combination. Due to the potential impact to manufacturers, distributors, and end users the Principals recognize

- the risk of divergent and competitive approaches to standardization;

1 of 4

Nuremberg, Germany 26.11.2013

Thomas J. Burke
Executive Director OPC Foundation



is already part of the public domain. Principals may enter among each other for sharing or licensing IP as a result of ML and OPC Foundation MoU, and this MoU does not

n effect for the duration of each Principal's involvement in sU. Any Principal may decide to end their collaboration in sU at any time after 30 days written notice. The conditions ill survive any termination of this MoU.

o this MoU on the concurrence of all existing Principals and f the Principals.

by any Principal at any time with the concurrence of the

nection with this MoU which cannot be settled amicably if Magdeburg. The Parties may elect to resolve by mediation on with this MoU which cannot be settled amicably.

ncipal shall be free to seek injunctive relief before any ated, in order to seek to prevent or restrain any infringement e unauthorized disclosure of any confidential information. re by mediation a dispute or difference arising in connection sically.

Dr. Wolfgang Schlögl
Board of Directors AutomationML

Prof. Dr. Arndt Lüder
Treasurer AutomationML

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OPC Foundation & AutomationML

Fraunhofer-Institut für Optronik, Systemtechnik
und Bildauswertung IOSB

Kooperation OPC Foundation und AutomationML™ e.V.

Olaf Sauer

Nürnberg, 27. November 2013



Karlsruhe



Ettlingen



Ilmenau



Lemgo

Seite 1

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OPC Foundation & AutomationML

Fraunhofer-Institut für Optronik, Systemtechnik
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Ilmenau



Lemgo

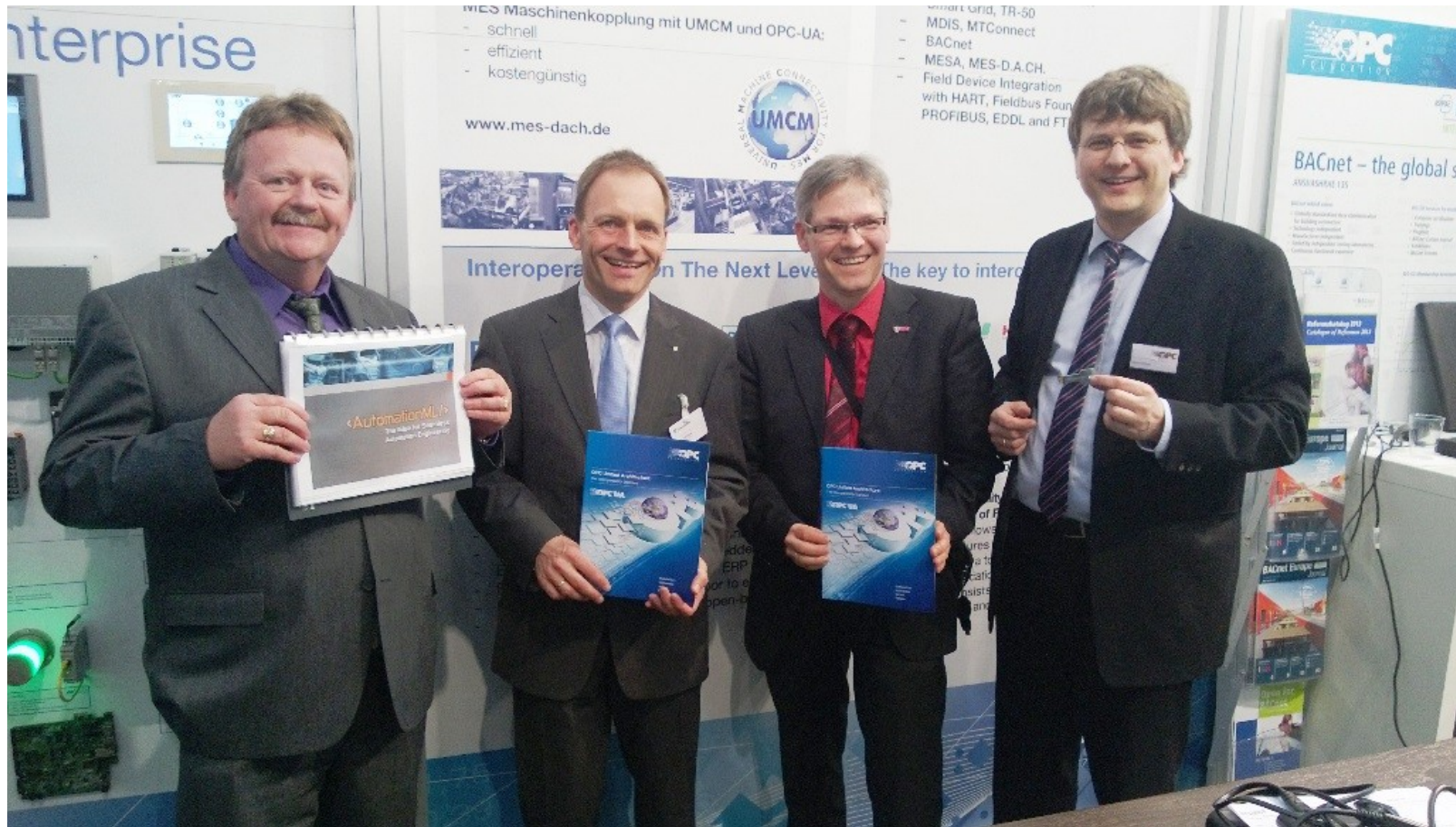
Seite 1

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OPC Foundation & AutomationML



Vertreter von AutomationML e.V. und OPC-Foundation starten die Kooperation: Tom Burke (President OPC Foundation), Olaf Sauer (Fraunhofer IOSB für AutomationML), Arndt Lüder (Universität Magdeburg für AutomationML), Stefan Hoppe (President OPC Europe) Foto: Hoppe, OPC-Foundation

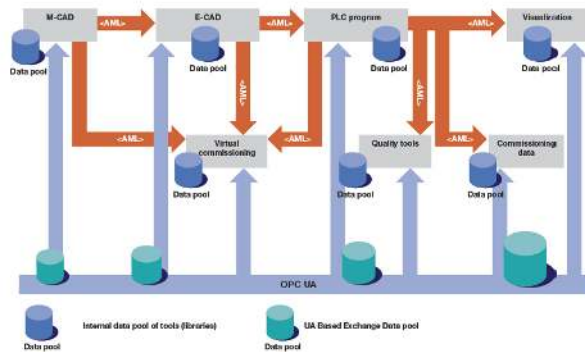
OPC Foundation & AutomationML Success Story



Seamless engineering workflow in industrial automation

Production systems are changed continuously and thus have to be adaptive. Changes/Re-engineering in the production plant lead to re-configuration of hardware and software components. This affects all planning phases, disciplines and corresponding tools and systems. The aim of AutomationML is an efficient exchange of engineering information (CAD, electrical planning, mechanical planning, simulation, PLC programming, HIM) which leads to a time and cost reduction.

The key for this collaboration is that data can be exported and imported by tools correctly and without any loss in an efficient way. To achieve interoperability and a seamless semantic integration, this must be completed by an efficient import and export of the data. OPC UA as one existing and already present communication standard in the automation level (e.g. existing interfaces to PLC, CNC, and software tools).



<AutomationML/>

Contact area:
AutomationML e.V. c/o IAF
Universitätsplatz 2
85106 Magdeburg, Germany
office@iaf-automationml.org
www.automationml.org

Companies behind:

- Ascolab
- Beckhoff
- CENIT
- Festo
- Fraunhofer IOSB
- Helmut-Schmidt-Universität
- Otto-von-Guericke-Universität
- ISW – Universität Stuttgart
- Siemens
- Unified Automation, u
- Phoenix Contact



THE COMBINATION OF AUTOMATION-ML WITH OPC UA OFFERS THE FOLLOWING ADDITIONAL BENEFITS

→ **AutomationML integration in OPC UA: Communicate and operationalize AutomationML by means of OPC UA:**
The OPC UA server includes a functional view on the production. It comprises an information model that allows users to organize data and their semantics in a structured manner. It is possible to simplify the creation of OPC UA information models based on existing AutomationML data. AutomationML models can be exchanged via OPC UA. The companion specification for AutomationML consists of an object model including many specific semantics which can be used online with multiple involved parties/disciplines/tools by OPC UA. It includes OPC UA data management, online communication functionality, multi-user support, access methods, security, etc. This is especially important for re-engineering and maintenance use cases where the AutomationML model evolves over time.

→ **OPC UA integration in AutomationML: Lossless exchange of OPC UA system configuration within AutomationML models:**
Parameters to set up OPC UA communication between tools can be exchanged using AutomationML. This simplifies the configuration of OPC UA client connections to an OPC UA server. The manual exchange of OPC UA server configuration data will be replaced by standardized/specified description in AutomationML.



This realizes consistent data, produces less errors and results in an easier and faster configuration of UA servers and clients. OPC UA can benefit from the description of complete communication network configuration and structure including communication components of sensors and actuators with respect to communication system parameters, network structure and wiring, quality of service, etc.

One central point of this collaboration is the integration with other existing (companion) specifications, e.g. OPC UA for devices, OPC UA for IEC62264 (ISA95), OPC UA for FDI, OPC UA for IEC61131-3 (PLCOpen)



About OPC Unified Architecture (OPC-UA)

OPC UA is the interoperability standard for multi-vendor, multi-platform data exchange that is secure and reliable from small sensors up to IT Enterprise level systems. This technology provides open connectivity across multiple products, regardless of hardware platform or software operating system. OPC UA (the IEC 62541 standard) includes automated discovery, security by design, data encryption, and exceptionally powerful information modeling.



OPC UA Companion Specs: Domain-specific knowledge

- ▶ Largest eco-system for information models for the automation world – 450+ Models
- ▶ Landing page with complete overview here: www.opcfoundation.org -> About -> Working Groups -> List of Working Groups
- ▶ Available free of charge
- ▶ Human-readable and Machine-readable
- ▶ All OPC UA Specs and Companion Specs will be available for agentic AI use:
 - Specifications are reformatted in agent-friendly markdown
 - Images are augmented with textual descriptions
 - Token-optimized RAG chunks, vector embeddings, callable REST interfaces

Generic Device Models: Cloud, Controller, Field Device, Process Device	Manufacturing Devices: Robots, Machines, Machine Tools	Enterprise, Asset Management, Packaging
- OPC 10000-100 – UA for Devices - OPC 10020 – UA for Analyzer Devices - OPC 30000 – UA for PLCs based on IEC 61131-3 - OPC 30001 – UA for IEC 61131-3 Function Blocks - OPC 30010 – UA for AutoID Devices - OPC 30081 – UA for Process Automation Devices (PA-DIM) - OPC 30400 – UA for Cloud Library - OPC 30500 – UA for Laboratory & Analytical Device Standard (LADS) - OPC UA for Analytical System Integration (CAISI)* - OPC UA for Cloud Federation - OPC UA for Global Positioning* - OPC UA for Non-destructive Evaluation - OPC UA for Power Consumption Management* - OPC UA for Secure Elements	- OPC 30070-1 – UA for MTConnect, Pt 1: Device Model - OPC 40001-1 – UA for Machinery – Basic Building Blocks - OPC 40001-2 – UA for Machinery – Process Values - OPC 40001-3 – UA for Machinery – Job Management - OPC 40001-100 – UA for Machinery – Result Transfer - OPC 40010 – UA for Robotics - OPC 40020 – UA for Cranes & Hoists - OPC 40083 – UA for Plastics Rubber – General Types - OPC 40077 – UA for Plastics Rubber – Injection Moulding Machines to MES - OPC 40079 – UA for Plastics Rubber – Injection Moulding Machines to Robot - OPC 40082-1...n – UA for Plastics Rubber – <device> - OPC 40084-1...n – UA for Plastics Rubber – Extrusion - OPC 40100 – UA for Machine Vision - OPC 40200 – UA for Weighing Technology - OPC 40210 – UA for Geometrical measuring Systems - OPC 40223 – UA for Pumps and Vacuum Pumps - OPC 40250 – UA for Compressed Air Systems - OPC 40301 – UA for Flat Glass Processing - OPC 40400 – UA for Powertrain* - OPC 40444 – UA for Textile Testing Devices* - OPC 40450 – UA for Joining Systems Base - OPC 40451 – UA for Tightening Systems - OPC 40501 – UA for Machine Tools - OPC 40502 – UA for Computerized Numerical Control (CNC) Systems - OPC 40530 – UA for Laser Systems - OPC 40550 – UA for Woodworking Machinery - OPC 40560 – OPC 40569 – UA for Mining - OPC 40740 – UA for Process Air Extraction and Filtration Systems (PAEFS)* - OPC UA for Cable Harness Manufacturing - OPC UA for High Pressure Die Casting* - OPC UA for Intralogistics Communication* - OPC UA for Surface Technology*	- OPC 10030 – UA for ISA-S95 - OPC 10031-4 – UA for ISA-95 Job Control - OPC 30050 – UA for PackML (OMAC) - OPC 30260 – UA for OpenSCS Serialization Model - OPC 30261 – UA for OPEN SCS – Job Order Profiles - OPC 40600 – UA for Weihenstephan Standards - OPC UA for Asset Administration Shell – AAS* - OPC UA for Mimosa CCOM*
Energy	Engineering	Field Device Integration
- OPC 10040 – UA for IEC 61850 – Electrical Substation Automation (Release Candidate) - OPC 30020 – UA for MDIS - OPC UA for Wind Power Plants (IEC61400-25)* - Power Consumption* - OPC UA for Carbon Capture, Storage and Reporting* - OPC UA for Solar PV Operations and Maintenance (SPOM)*	- OPC 30040 – UA for AutomationML - OPC 30250 – UA for DEXPI	- OPC 30080 – UA for Field Device Integration (FDI) - OPC 30090 – UA for Field Device Tool (FDT)
Building	Field Communication	
- OPC 30030 – UA for BACNET (Release Candidate)	- OPC 30100 – UA for SERCOS Devices - OPC 30110 – UA for POWERLINK - OPC 30120 – UA for IO-Link Devices and IO-Link Masters - OPC 30130 – UA for Control & Communication System Profile (for Machine) CSP + (CCLink) - OPC 30140 – UA for PROFINET - OPC 30141 – UA for PROFINET Energy - OPC 30142 – UA for PROFINET Remote IO - OPC 30143 – UA for PROFI-Encoder - OPC 30144 – UA for PROFINET-GSD - OPC UA for CIP Devices*	
Miscellaneous		
- OPC 30060 – UA for Tobacco Machines - OPC 30200 – UA for Commercial Kitchen Equipment		

* = in progress

Collaboration: Vending & Coffee Machine Industry



- European Vending & Coffee Service Association (EVA) and OPC Foundation start Joint Working Group: “OPC UA for Vending, Office Coffee Service & Automated Retail Working Group”
- Who: The EVA is a not-for-profit trade association established in 1994, representing the interests of the whole European coffee service and vending industry vis-à-vis the European Union Institutions and other relevant authorities or bodies.
- Aim to develop an OPC UA Information Model for the communication between a vending machine, its peripherals, and the company’s information systems.

A vending machine must be understood as a self-service machine that dispenses food (including drinks, such as coffee) and non-food products using different dispensing technologies.



OPC UA FX (Field eXchange) specifications: Extending OPC UA down to the field level for FA & PA



Members of the Field Level Communication (FLC) Initiative's Steering Committee

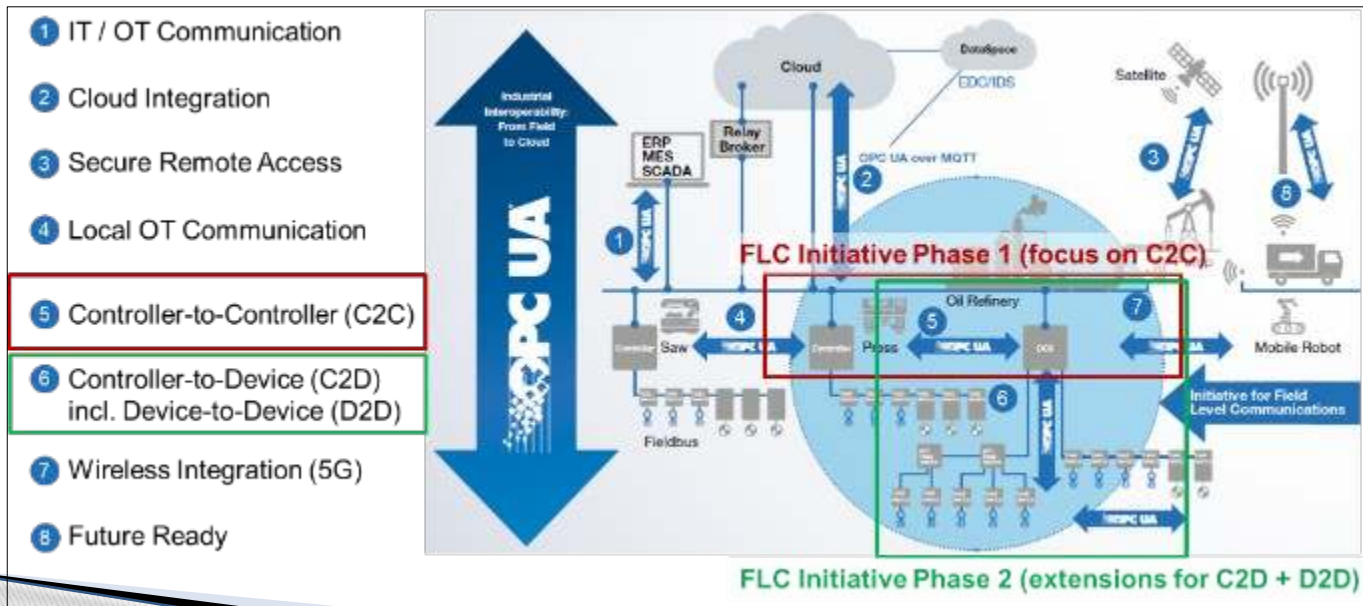


OPCF FLC Initiative (started in November 2018)

- Extra support from 25 leading automation companies & technology providers
- Overall, more than 320 technical experts from more than 65 member companies of the OPC Foundation have been active so far in the different Technical Working Groups.

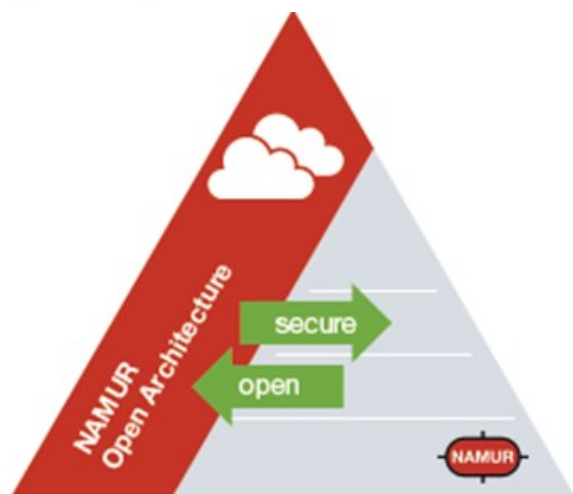
OPC UA FX Specifications (OPC UA extensions)

- Spec numbers „OPC 10000-080“, -81, -82, ...
- Harmonized solution for Factory and Process Automation, supporting Determinism, Safety, Motion, I/O, Instrumentation
- Information models for Controllers and Field devices
- Offline / Online configuration
- Mapping to enabling communication technologies, such as Ethernet TSN and APL
- Interactions: Controller-to-Controller (C2C), Controller-to-Device (C2D), Device-to-Device (D2D)
- and much more



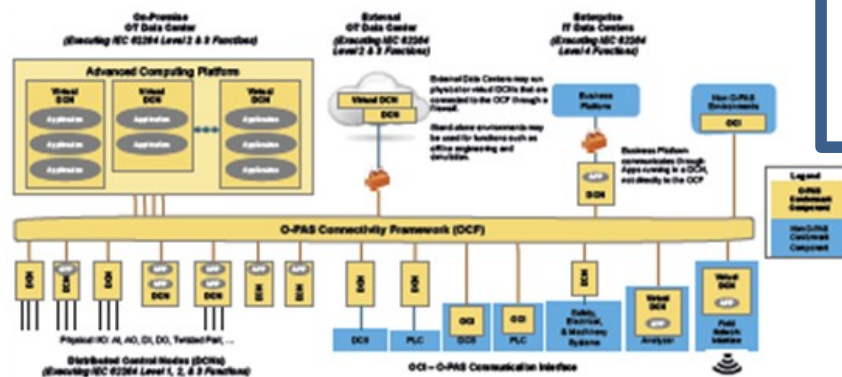
OPC UA Adoption in the Process Industry

NAMUR Open Architecture (NOA)



Source: ZVEI

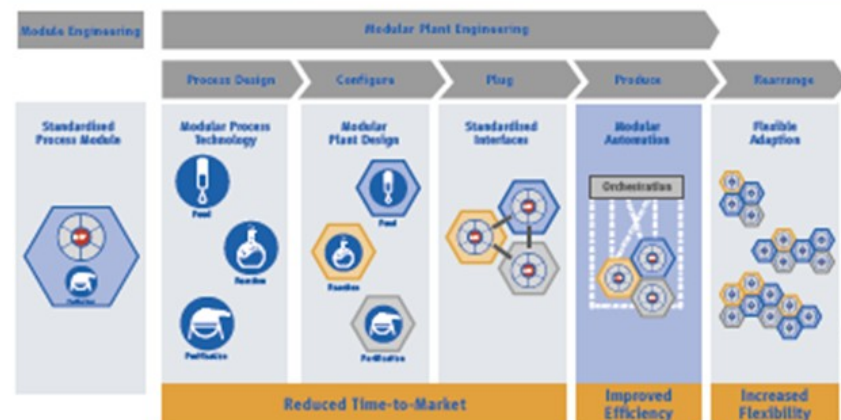
Open Process Automation Forum (OPAF)



OPAF Vision: Process Control Architecture

Source: OPAF

NAMUR, PROCESSNET, ZVEI Module Type Package (MTP)

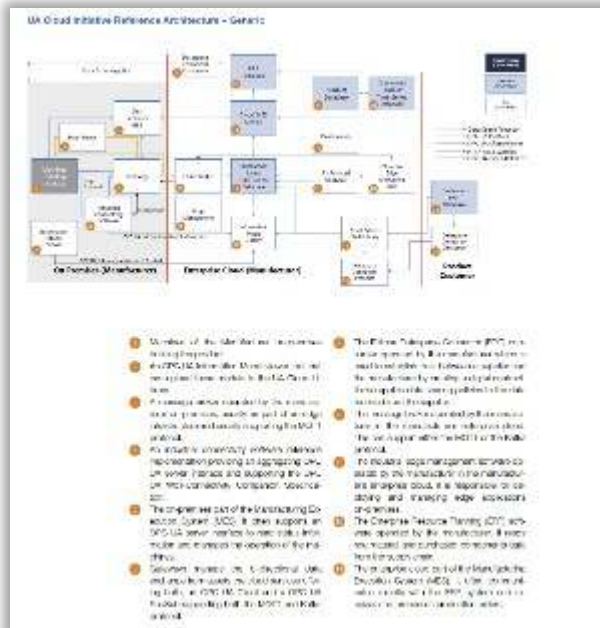


Process INDUSTRIE 4.0: The Age of Modular Production

Source: ZVEI



OPC Foundation Cloud Initiative – More Information



Download brochure here

[OPCF-Cloud-Initiative-Brochure.pdf](#)

Contains:

- The vision & reference architecture
- Commercial offerings from Cloud suppliers like aws, Google, Huawei, Microsoft, SAP

OT suppliers like ABB, Beckhoff, Honeywell, Mitsubishi, Rockwell, Schneider, Siemens, Yokogawa

Nr.	Generic Name	aws	Google Cloud	HUAWEI	Microsoft	SAP
1	Machines (building product)			Machines of the Manufacturer		
2	Information Model Viewer			UA Cloud Viewer		
3	Edge Broker	Shopfloor Connectivity running on AWS IoT Greengrass / Amazon EKS Hybrid Nodes Greengrass	Manufacturing Connect	UA Edge Translator	Azure IoT Operations on Azure Local	SAP APM Device Connectivity
4	Industrial Connectivity Software			UA Edge Translator		SAP Production Connector
5	On-premises MES			On-premises MES		
6	Gateway	Shopfloor Connectivity running on AWS IoT Greengrass / Amazon EKS Hybrid Nodes	Manufacturing Connect	IoT Edge	Azure IoT Operations on Azure Local	SAP APM Device Connectivity



NEW!

OPC NodeSetEditor (Part of OPC UA Cloud Library)

OPC UA Cloud Library:

- World largest repository of standardized information models for industrial automation
- Free of charge repository – browsable

NodeSetEditor:

- Free of charge, web based UI
- **Defines models, create instances, read/write values via web & REST, persistable**
- Enables manufacturers, machine builders, and system integrators to create structured information models.
- These models (c/o "NodeSets"), allow the seamless movement of "data-in-context" from the factory floor to the cloud

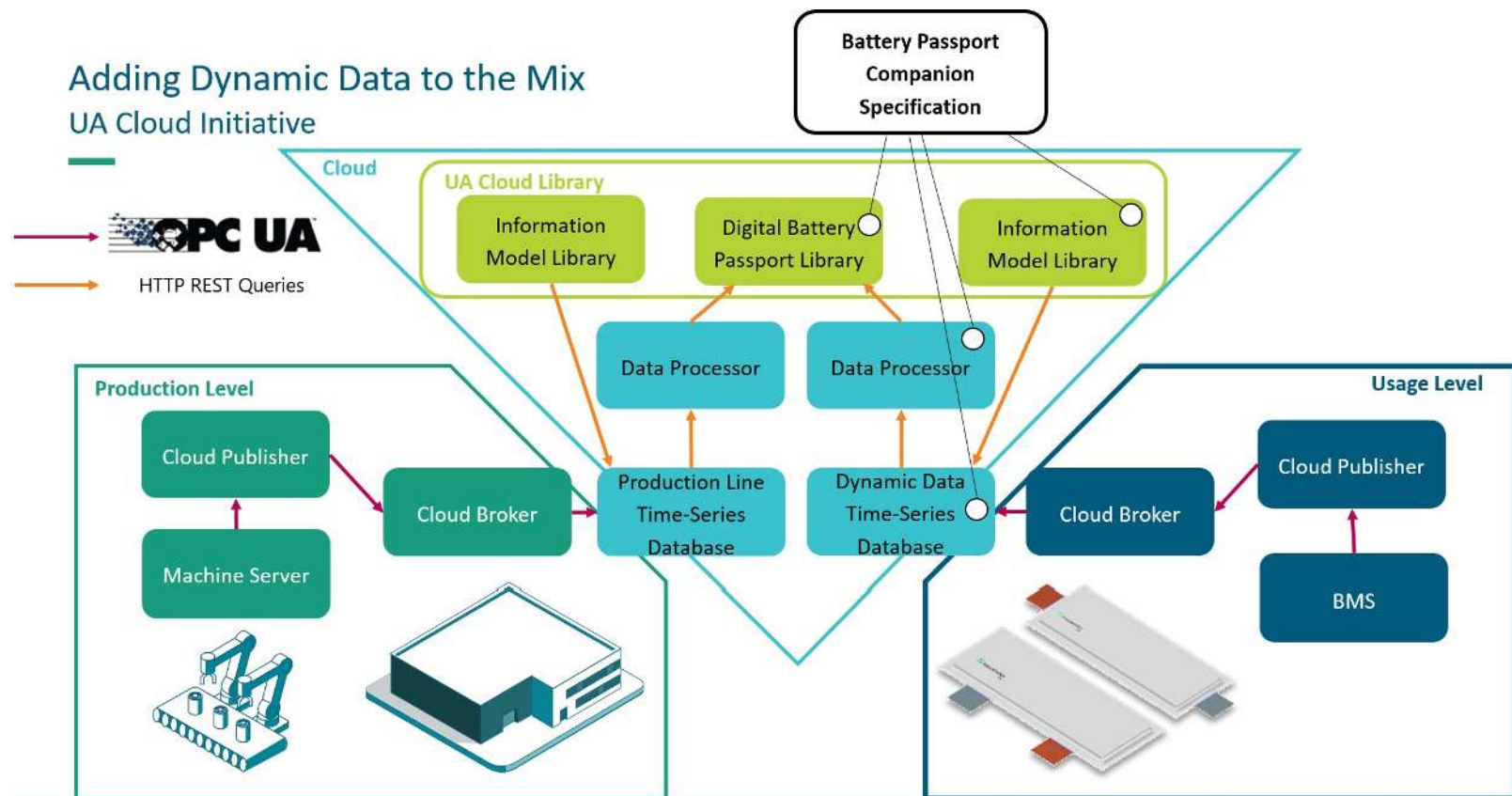
Key Benefits

- Eliminate Data Silos: Move data seamlessly between the edge, the cloud, and third-party apps.
- Rapid Integration: Use "Plug & Play" capabilities for industrial assets.
- Crowd-Sourced Intelligence: Build upon existing NodeSets from the OPC Foundation or other industry leaders and an active OPC UA community.
- Universal Reusability: Create a profile once and deploy it across multiple sites or systems.

The screenshot displays the OPC NodeSetEditor web interface. The top navigation bar includes a 'Welcome Wizard' button and a user profile 'Chris Munch'. The left sidebar contains a 'Type Library' section with a 'Profile Library' sub-section. The main content area is titled 'Type Definition - H2FlowPinType' and shows a breadcrumb trail: 'BaseVariableType / BaseDataVariableType / ConnectionPinType / GenericFlowPinType / H2FlowPinType'. The 'Profile' is set to 'http://c-labs.com/UA/Energy/v1.02'. The 'Name' field is 'H2FlowPinType', the 'Data Type of the Variable' is 'Boolean', and the 'Type' is 'Variable Type'. The 'Description' field is empty. Below this, the 'Attributes' tab is active, showing a table of attributes. The table has columns for 'Name', 'Data Type', and 'Attribute Type'. The attributes listed are: 'AllowPolling' (Boolean, Property), 'CanConnectTo' (NodeId, Property), 'IsConnectedTo' (NodeId, Property), 'IsInbound' (Boolean, Property), and 'MaxConnections' (Integer, Property). The 'MaxConnections' attribute has a description 'Maximum Connection Supported by this Pin'. The bottom of the page shows a pagination bar with '1 2 3' and a 'Show 5 per page' dropdown.

Name	Data Type	Attribute Type
AllowPolling	Boolean	Property
CanConnectTo	NodeId	Property
IsConnectedTo	NodeId	Property
IsInbound	Boolean	Property
MaxConnections	Integer	Property

Digital Battery Passport (DPP) – powered by OPC UA



- Effort to implement DPP
 - 0.5 day for model
 - 0.5 day for REST interface
- Available free of charge
- Open-Source (MIT)
- Roadmap

Seite

Restricted

Fraunhofer
FFB



Presentation during OPC Day 2026:

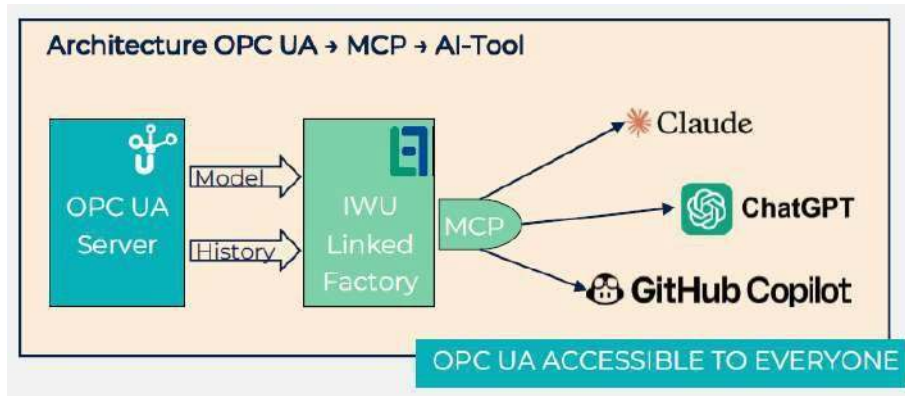
OPC Foundation offering open-source solutions for the EU Digital Battery Passport

by Dr. Arno Schmetz, FFB & Lisa Langold FFB



OPC UA for AI

Standardize interaction between OPC UA and Gen AI using industry-adopted tools and specifications (e.g. MCP)



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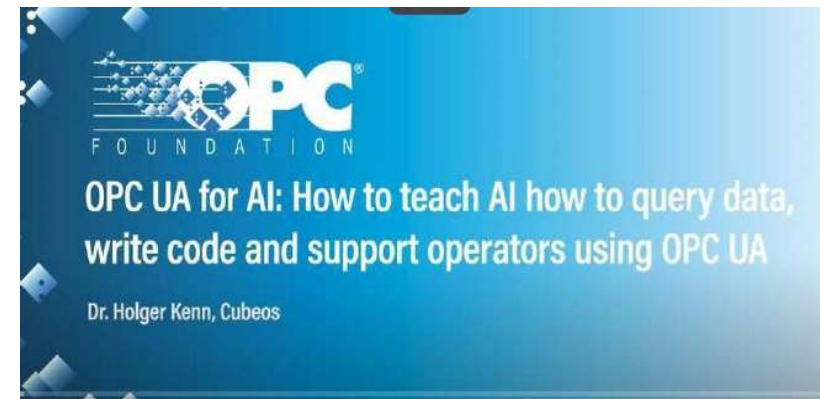
Search the network for pH meters and deliver 10 measurements one after the other, each with a delay of 5 seconds.

<<



Success Story from domain Tobacco Industry Philip Morris International (PMI)

- End-user driven
- Joint activity with suppliers
- Tobacco Companion Spec
- Mandatory standard
- PMI is describing
 - challenges of integration
 - Success factors
 - OPC UA as base for AI



<https://youtu.be/F4kUZGIEOaQ>

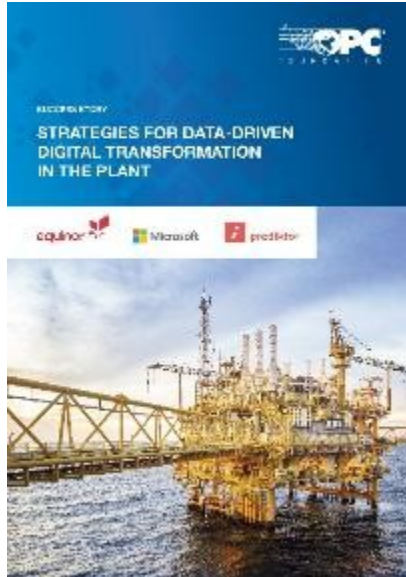
Join the OPC Foundation
“OPC UA for AI” group!



Success measured by industrial adoption: OPC UA success stories

► <https://opcfoundation.org/resources/case-studies/>

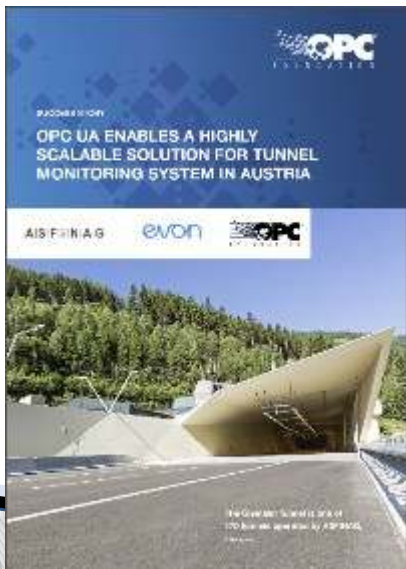
**OPC UA as
enabler for AI**



Next stories:

- L'Oreal
- Bel Group
- Deutsche Bahn

What about your story?



OPC Foundation: (Subset of) Offerings and Information

- Compliance: Self-testing tools (CTT) and official OPC Foundation Test Labs
- OPC UA .NET Stack: open-source (GitHub) with major sponsors (ABB, Microsoft, SAP) under MIT license
<https://opcfoundation.org/developer-tools/samples-and-tools-unified-architecture/net-stack-and-sample-applications/>
- OPC UA Cloud Library: world largest repository of free of charge information models for the automation world
<https://github.com/OPCFoundation/UA-CloudLibrary>
- IIoT Starter Kit: easy quick start for OPC UA over MQTT
<https://github.com/OPCFoundation/UA-IIoT-StarterKit>
- OPC UA Academic program: Free of charge lecture for professors
<https://opcfoundation.org/resources/opcuacademic/>
- Success stories by end users
Like equinor, Renault, Miele, Airbus, Procter & Gamble, etc
<https://opcfoundation.org/resources/case-studies/>
- Marketplace <https://opcfoundation.org/products/>
- Podcast with interesting guests <https://opcfoundation.org/resources/podcast/>



OPC UA brochure

<https://opcfoundation.org/resources/brochures/>

OPC Marketplace – about 4.600+ unique clicks per month !

<https://opcfoundation.org/products/>

MARKETPLACE

Discover OPC servers, clients, toolkits and services from members of the OPC Foundation.

Search

FILTERS MORE TECHNICAL

Delete all Filters

☒ Certified

COLUMN OPTIONS

Application Profiles

Client Application Profiles

Global Services - GDS - Profiles

PubSub Application Profiles

Server Application Profiles

☒ Embedded 2017 UA Server Profile

☐ Embedded UA Server Profile

☐ Micro Embedded Device 2017 Server Profile

☐ Micro Embedded Device Server Profile

☐ Nano Embedded Device 2017 Server Profile

☐ Nano Embedded Device Server Profile

☐ Standard 2017 UA Server Profile

☐ Standard UA Server Profile

PRODUCT	MEMBER	APPLICATION PROFILES	CATEGORY	SUBCATEGORY	CERTIFIED
 TF6100 TC3 OPC UA	Beckhoff Automation GmbH & Co. KG	UACore 1.03 Standard UA Server Profile UACore 1.04 Embedded 2017 UA Server Profile Minimum UA Client Profile	Controller		 3
 SIMATIC S7-1500 PLC Family	Siemens AG	UACore 1.04 Embedded 2017 UA Server Profile Minimum UA Client Profile	Controller	PLC	 2
 MELSEC IQ-R Series OPC UA server module	Mitsubishi Electric Corporation	UACore 1.04 Embedded 2017 UA Server Profile	Controller	PLC	 2
 High Performance OPC UA Client Server SDK/Toolkit	Unified Automation GmbH	UACore 1.04 Embedded 2017 UA Server Profile	SDK	Commercial SDK	 1
 SIMATIC RF100 - RFID System	Siemens AG	UACore 1.04 Embedded 2017 UA Server Profile	AutoID	RFID Scanner	 1

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Thank you! - Questions?



Stefan Hoppe
President & Executive Director OPC Foundation
Stefan.hoppe@opcfoundation.org

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