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AFNeT Standards Days

OPC-UA

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Open Platform Communication- Unified Architecture

OPC-UA

No data revolution can be achieved without a common language

- What is the OPC ?
- OPC-UA : the quest for a all in one solution.



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Projet OPCUA CS-DT

To Develop communication gateways between a robotized cell and its digital twin, via OPCUA and the semantization of data

The problem : How to simply exchange necessary informations between the equipments and their digital twin to be able to « plug and produce » ?

The objective of the project : to be able to standardize the connexion between robotized cells (UR) via OPCUA to be able to do for instance virtual commissioning



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Projet OPC UA / COMPANION SPECIFICATION / DIGITAL TWIN Application to robotized cells

- To sensibillize actors to the OPC UA communication protocol and its associated companion specifications
- To define the necessary informations to the digital twin and to specific use cases.
- To identify strengths and weaknesses « VDMA robotic companion specifications » on identified needs for semantization of data.
- To Identify hardware and software solutions to build-up a démonstrator which includes a robotized cell, a communication system and an application such as the digital twin with UNITY3D et 3Dexperience (OPCUA client)
- To develop a client component (in UNITY3D/XDE/XSM) and OPCUA server
- To formalize an implementation approach and the advocated architectures dependent on the use-cases

Questions
&
Answers



6th and 7th October

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