Process INDUSTRIE 4.0: Future Production is Modular & Open

Hannover Messe 2020
Explore the Concepts of Modular & Open Production

with Module Type-Package (MTP)

and NAMUR Open Architecture (NOA)
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Productivity by Open Architecture

Monitoring & Optimisation Apps

1. Read-only secure access via 2nd data channel
2. Including industrial IoT technologies for additional sensors
3. Data highway with standard Information Model in OPC UA
4. Value-adding M&O Apps & Services
5. Closing the loop by sending requests from M&O Apps to automation systems

Productivity by Modular Design

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ERP
MES
Control
Field Devices

Maintenance
Plant Operator
Module Vendor

Process Orchestration Layer

MES
Control
Field Devices

Source: NAMUR / ProcessNet / ZVEI
Please find further information in our Status Report

https://www.zvei.org/en/subjects/industrie-4-0/status-report-modular-production-on-the-doorstep-to-market-launch/

Standardisation Information on process plants
www.vdi.de/2776

Standardisation Information on automation engineering
www.vdi.de/2658

NAMUR Open Architecture
https://www.namur.net/en/focus-topics/namur-open-architecture.html

Automation Modular Plants

MTP in Shipbuilding
http://mes.vdma.org/tr/mtp-im-schiffbau

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