Converging Industrial Networks for Industry 4.0

New challenges for wired ethernet

Converging Industrial Networks for Industry 4.0 (CINI4.0) is an international project researching emerging wired technologies for industrial data communication in the Industry 4.0 era.

Project aim: The project investigates the potential and limitations of technologies such as Single Pair Ethernet (SPE), Time-Sensitive Networking (TSN) and Open Platform Communication Unified Architecture (OPC UA) separately and in combination. All those technologies are the key enablers of convergence in OT and IT networks, and help to build larger, faster and more robust industrial networks, thus facilitating robust Industrial Internet of Things (IIoT) applications.

Project Partners: The Flemish and German project partners – KU Leuven, UGent, inIT - Institute industrial IT of the TH-OWL, Fraunhofer IOSB-INA and FE ZVEI – work closely together with the companies in the User Committee, and put one of their accents on lifelong learning aimed at industry.

Industrial User Committee members: Agoria vzw, ArcelorMittal Belgium NV, Bintz NV, DSP Valley vzw, Endress+Hauser SE+Co. KG, ESR Pollmeier GmbH Servo-Antriebstechnik, Hilscher Gesellschaft für Systemautomation mbH, iBA Benelux NV, Indu-Sol GmbH, InnoRoute GmbH, Lenze SE, Linkworx BV, Perinet GmbH, Phoenix Contact NV/SA, Prokorment VOF, Prolink Engineering BV, R. STAHL Schaltgeräte GmbH, rt-solutions.de GmbH, Siemens NV, Tosibox GmbH, VMA NV/SA, Volvo Car Gent NV, ZVEI e.V.

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