Vision for OPC Field Level Communications Initiative

The vision of the initiative is...

...to aim for an open, unified, standards-based IIoT communication solution between sensors, actuators, controllers and cloud addressing all requirements of industrial automation
OPC FLC – Area of application
OPC FLC Organization inside the OPC Foundation

Board of Directors

Technical Control Board (TCB)

Technical Advisory Council (TAC)

UA WGs

Companion WGs

Compliance WG

FLC WGs

FLC Initiative Steering Committee

Marketing Control Board (MCB)

Marketing

Regional Marketing

Review & Release

FLC = Field Level Communications
Who is OPC FLC?

Initial Steering Committee Members:

ABB  BECKHOFF  rexothon  A Bosch Company  HILSCHER  Competence in Communication
HIRSCHMANN  HUAWEI  INTEL  kalycto®  KUKA
MITSUBISHI ELECTRIC  molex  MOXA  OMRON  PHOENIX CONTACT  PILZ
Rockwell Automation  Schneider Electric  SIEMENS  Ingenuity for life  TT Tech  Ensuring Reliable Networks  WAGO
YOKOGAWA

+ other members of the OPC Foundation contributing to the FLC working groups
Technology base – collaboration with IEC and IEEE

Goal of IEC/IEEE 60802
- Converged TSN network: different protocols can share the same TSN network infrastructure
- Use of common HW components
Technology overview – work items and dependencies

IEC / IEEE Partners

OPC Foundation

Field Level Communications Initiative

System Architecture

I/O Facet

Motion Facet

Safety Facet

Device Profiles

Joint Device Companion Specifications

OPC UA

Security

DI

OPC UA TSN working group

Base Models

Base Device Facet

Offline Configuration

Communication

Communication Facet

Conformance Testing

Network

IEC/IEEE 60802

IEEE 802.1

avoid gaps and overlaps!
Thank you for your attention!

Thomas Enzinger
IEEE 802.1 Interim, Salt Lake City, May 2019

Do you have questions?