OPC FLC INITIATIVE WEBINAR
DEC 01, 2020

DIGITAL EVENT

**OPC UA for Field Level Communication –
A Theory of Operations**

Version 1 // November 2020

NEW Available on November, 2020

Technical Paper

08 h – 11 h CET Presentations and Q&A (Europe & Asia)

08 am – 11 am PDT Presentations and Q&A (America & Europe)

AGENDA

1. **OPC in the World** – News (10 min)
    World update, new collaborations, specification update
    Stefan Hoppe, President OPC Foundation

2. **OPCF FLC Initiative** – Introduction (10 min)
    Peter Lutz, Director FLC OPC Foundation

3. **Architecture** (20 min) – Clark Case, Rockwell, WG Architecture Chair
    - How does the overall system architecture look like?
    - What are technologies that FLC is being based on?
      (OPC UA + IEC/IEEE Standards + Cooperations for Safety/Motion)
    - What are the different components of the system architecture? Safety, Security, Transport, …

4. **Information Modelling** (20 min) – Paul Hunkar, Yokogawa, WG Info Modelling Chair
    - How are automation components (controllers and field devices) being modelled?
    - How does the asset model look like – with example(s)?
    - How does the functional model look like – with example(s)?

5. **Connecting Devices** (20 min) – Georg Biehler, Siemens, WG Connecting Devices Chair
    - What are logical connections and which types exist?
      (Unidirectional, Unidirectional with heartbeat, Bidirectional)
    - How do logical connections map to OPC UA communication models?
    - How are logical connections between automation components (controllers) established?
    - What is the role of the connection manager and the connection state machine?

6. **Offline Engineering** (20 min) – Emanuel Kolb, ABB, WG Offline Engineering Chair
    - How are devices configured offline?
    - How are product descriptors and configuration descriptors structured?
    - How does a typical configuration workflow for TSN and non-TSN-based Systems look like?

7. **Functional Safety** (20 min) – Max Walter, Siemens, WG Safety Chair
    - What are the use cases for functional safety?
    - How does the overall Functional Safety concept look like?
    - How is OPC UA Safety embedded in the overall system architecture?

The presenting WG Chairs will use content out of the Release Candidate RC1, preview and pre-information on later Specification Release. For High-Level we link to the Technical Paper – "Theory of Operations"

For more information please navigate to
https://opcfoundation.org/FLC   **https://opcfoundation.org/APL**