Title of the Contribution: Common communication model for distributed automation systems

Abstract:
Existing models focus on specific aspects of distributed automation systems, e.g. communication aspects (IEC 61158) or application aspects (IEC 61131-3). Systems like IEC 61499 are directly dedicated to distributed applications but leave essential details of communication integration open. For the design of distributed automation systems it is necessary to understand the behavior of the complete system. This contribution introduces a concise model of distributed automation systems integrating communication layer of the OSI reference model with the non-distributed model of IEC 61131-3.

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