LNI4.0 LABS NETWORK INDUSTRIE 4.0

Liaison request and access to IEEE 802.1 Drafts

Berlin, September 10th 2018

Mr. Glenn Parsons
Chairman of the IEEE 802.1 Working Group
(sent via email glenn.parsons@ericsson.com)

Dear Mr. Parsons,

Labs Network Industrie 4.0 e.V. (LNI) is a non-profit and pre-competitive association established by an alliance of major companies, industry associations, policymakers and researchers. It is the legal arm of the German Plattform Industrie 4.0 and inviting worldwide partners. The goal of LNI is to support the pioneering work of small and medium enterprises (SME) in the area of digitalization and standardization validation. LNI acts as a dialog, competence and experimentation platform for SMEs. Currently, there are more than 60 use cases as well as two testbeds running and about 40 Industrie 4.0 testlabs are associated with LNI. All of them have the pre-competitive environment and minimal financial and technical risks for the SME in the use cases in common. For details please refer to https://lni40.de/?lang=en.

Jointly with the German Standardization Council Industrie 4.0 (SCI) LNI transfers testbed and use case validation results to international standardization bodies. For details on the process please refer to https://sci40.com/de as well as https://lni40.de/umsetzung/standardisierung. In this context LNI operates a TSN testbed at the German competence center Industrie 4.0 Augsburg with 29 industrial partners of which six partners are SME. The testbed is designed as a continuous plugfest that has no obstacles for SME to access.

LNI would like to establish a liaison with the IEEE 802.1 Working Group to ensure that the IEEE 802.1 standards and drafts can be used in the testbed to validate the TSN standards according to the SME focused use cases. As LNI use cases require smart, robust time sensitive systems we need the TSN testbed to provide a reasonable level of service quality in this environment.

LNI asks the IEEE 802.1 Working Group to grant the LNI testbed participants access to the following draft documents in order to expedite trial implementations:

- IEEE/IEC 60802 Time-Sensitive Networking Profile for Industrial Automation
- IEEE P802.1AS-Rev Timing and Synchronization for Time Sensitive Applications - Revision
- IEEE P802.1CS LRP
- IEEE P802.1Qdd Amendment: Resource Allocation Protocol
- IEEE P802.1Qcr Asynchronous Traffic Shaper
- IEEE P802.1CQ Multicast and Local Address Assignment
- IEEE P802.1ABcu LLDP YANG Data Model
- IEEE P802.1Qcw YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing
- IEEE P802.1CBcv YANG Data Model and MIB Frame Replication and Elimination for Reliability (FRER)

- IEEE P802.1CBdb Frame Replication and Elimination for Reliability, Amendment: Extended Stream Identification Functions

LNI is aware that these documents may undergo changes at any time before being published. LNI is looking forward to working together with the IEEE 802.1 Working Group on applying TSN technologies in the LNI TSN testbed.

Kind Regards,

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