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Title: Introduction to IEC SEG 8 and Proposal for further engagement
Source: IEC SEG 8
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Attachments: N/A

1. Introduction

The IEC (International Electrotechnical Commission) has recently created a new Standardization Evaluation Group (SEG) on Communication Technologies and Architectures of Electrotechnical Systems. The mission of SEGs is to identify new technical areas and anticipate emerging technology and market trends that might impact the activities of IEC committees. SEGs are broadly open groups, in which participation of experts from both within and outside the IEC is strongly encouraged.

Key objectives of SEG 8 include:

- Monitor new or emerging communication technologies and architectures that are specified or standardized outside the IEC (e.g. 5G, Low Power Wide Area Networking, Deterministic Networking, Edge Computing/Intelligence, Management & Orchestration, and others).
- Monitor new market trends (e.g. IT/OT convergence) and analyse new business and development models (e.g. Open Source, DevOps) related to communication technologies and assess their impact on IEC activities.
- Take into account additional essential aspects of communication technologies such as security, reliability, safety, privacy, energy efficiency, and others.
- Evaluate the impact of these technologies, architectures and trends on current and foreseen IEC work, in particular on systems related activities, and engage with the concerned IEC committees by raising awareness and making technical recommendations.
- Be the IEC focal point for spectrum management related issues and coordinate with ITU-R and regional spectrum policy organizations.
- Evaluate gaps in standardization of communication technologies based on requirements provided by selected IEC use cases, and take appropriate actions within the IEC or through collaboration with external bodies.

SEG 8 is organized into three active working groups to focus and accelerate the progress of specific deliverables:

- WG 1: Trend monitoring – which addresses market, business and technology trends and their impacts on IEC activities.
- WG2: Collaboration – which addresses the collaboration within the IEC and with external bodies, as well as the evaluation of standardization gaps of communication technologies.

- WG3: Spectrum policy – which addresses spectrum management related issues and coordinates with ITU-R and regional spectrum policy organizations.

2. Actions

IEC SEG 8 WG2 has identified oneM2M as one of the key SDOs/alliances for active collaboration, which could lead to possible joint development in the area of IoT and IT/OT convergence with the relevant TCs in IEC

1) The IEC SEG 8 is interested in a general exchange with oneM2M and would like to exchange documents in the future.

2) The IEC SEG 8 would like to invite oneM2M experts to our future meetings in order to align the activities and to get more information about oneM2M specific features and developments for the vertical industries (e.g. manufacturing)

For further correspondence or enquiry, this should be addressed to Gilles Thonet (gth@iec.ch) as the IEC SEG 8 Secretary

3. Next Meetings

The next meetings of the IEC SEG 8 are scheduled for

- 19th – 22nd June 2018 (Frankfurt, Germany)
- 23rd – 25th Oct 2018 (Busan, South Korea)

The IEC SEG 8 webpage, including meeting registration, can be found at:
http://www.iec.ch/dyn/www/f?p=103:186:0::::FSP_ORG_ID,FSP_LANG_ID:20601,25