IEC TC 65 Plenary
Automation Forum

2 Jul. 2026, Tokyo International Forum

Tokyo, Japan

Welcome

Welcome to the IEC TC 65 Automation Forum, co-hosted by IEC TC 65 and the Japanese TC 65 Mirror Committee. This event will feature presentations by international IEC experts on how standards developed by IEC and other international standardization organizations are being utilized, as well as timely presentations from Japanese academia and industry.

IEC TC 65 is responsible for developing international standards related to industrial process measurement, control, and automation. Its scope includes safety and cybersecurity, crucial elements for a better society, and AI in industrial automation, a very hot topic today.

In line with these themes, this forum will feature presentations on TC 65's key areas of focus:

- Product data and EU Digital Product Passport
- Artificial intelligence
- Industrial Communications
- Industrial Safety
- Cybersecurity

We encourage you to actively participate in this event and make the most of your day by networking with speakers, sponsors, and other attendees.

Thank you for your participation.

Tad (Takaharu) Matsumoto,
Chair, IEC TC 65 2026 Plenary Organizing Committee

Rainer Schrundner, IEC TC 65 Chair

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Time	Title/Speaker	Abstract
9:00	**Opening** / *Rainer Schrundner, TC 65 Chair*	
9:15	**Welcome Speech** / *Yoshiaki Kodachi, Director, International Electrotechnology Standardization Division Innovation and Environment Policy Bureau, METI*	--
9:30	**Open Data Spaces — A new distributed data management paradigm in the age of Agentic AI** / *Michitaka Tsuda, Chief Architect of Open Data Spaces, IPA*	Open Data Spaces (ODA) is an open and scalable architecture for distributed data management (DDM), while respecting the diversity of organizations and countries. Rooted in the concept of data mesh and classical data spaces (first proposed in the U.S. in 2005), ODS is evolving architecture as the Double Product Quanta Model (DPQM) to enable the DDM across the organization and a trustworthy post-training data pipeline for Agentic AI.
10:00	**EU Digital Product Passport Standardization** *Rainer Schrundner, TC 65 Chair*	Upon request of the European Commission CEN and CENELEC are working on a set of standards for a framework for digital product passports (DPPs). Most parts are expected to get published this summer. These standards are agnostic of specific products and specific attributes required by legislators, and can serve as blueprints for DPP systems also in other parts of the world.
10:30	Break	
11:00	**FEMS as an enabler of all-electric and connected society (AECS) Implementing energy efficiency and flexibility in the industrial sector** *Tomoyuki Ikeyama, Yokogawa Electric Co.* *TC 65/JWG 17 Co-Convener*	In response to increasing environmental requirements, such as AECS and the Digital Product Passport (DPP), this presentation highlights international standardization trends in energy efficiency including Industrial FEMS.
11:30	**Key Performance Aspects for Smart Manufacturing** *DING Lu, ITEI*	Smart manufacturing has driven companies into greater collaboration with supply chains and design chains. This presentation describes KPAs for smart manufacturing with a usage of KPIs, The KPAs are purpose-driven based upon evaluation of smart manufacturing. Existing KPIs that express a particular KPA are arranged into KPAs categories that enable the analysis or synthesis of KPAs. KPAs associated with KPIs are focused on the benefit that digital and intelligent technologies bring up to smart manufacturing, and help on the evaluation of the collaboration.
12:00	**Implementing AI Robotics Safety Evaluation** / *Yoshihiro Nakabo, AIST*	This presentation introduces the activities of the AI Robotics Safety Working Group established within J-AISI, a Japanese government- led organization responsible for examining and promoting AI safety evaluation methods and standards, as well as the guidelines published in April as an outcome of these activities.
12:30	Lunch	
14:00	**Enabling Safe Human-Machine Collaboration — An Overview of IEC 63662** / *Kazunari Tsukiyama, SC 65A/WG 24 Convener*	Manufacturing systems increasingly require humans and machines to work safely together in various conditions, such as sharing the same workspace. IEC 63662, developed by IEC SC65A/WG24, introduces a framework for coordinating risk assessments performed by multiple stakeholders across the system lifecycle. This presentation provides an overview of the standard's background and key concepts.
14:30	**AI Agents** *Christoph Legat, Technical University of Applied Sciences Augsburg, Convener IEC TC 65/WG 31*	AI agents are becoming key players in industrial automation, operating, and coordinating machines, robots, and automated guided vehicles within adaptive socio-technical production systems. IEC TC 65 is spearheading this development with the first global unifying standardization of industrial AI agents and multi-agent systems. This initiative addresses the critical challenges of ensuring the safety, scalability, and trustworthiness of embodied AI in smart manufacturing. With multiple global projects underway, the working group on industrial AI agents is paving the way for the next generation of adaptive industrial systems.
15:00	**A Benchmark Study on AI-Automated System Integration** *Yan LU, NIST*	The rapid evolution of Large Language Models (LLMs) has introduced a potential paradigm shift in industrial system integration: the ability to bypass traditional, neutral data models in favor of direct, AI-generated "point-to-point" code. This presentation details a comprehensive benchmark study comparing three distinct integration methodologies within the Additive Manufacturing (AM) to Manufacturing Execution System (MES) digital thread, including Model-Free (Standards-Free), Model-Driven (Standards-Based) and AI-Assisted Modeling.
15:30	**Industrial Automation Product Data** *Erich Barnstedt, Microsoft Corporation, TC 65/JWG 29 Co-convener,*	Industrial product data will become increasingly important in the next few years as manufacturers enter dataspaces like Catena-X and of course with the requirements mandated by the European Commission with its Digital Product Passport initiative. We present an end-to-end solution for industrial product data sharing, leveraging existing and upcoming IEC standards.
16:00	Break	
16:30	**Cybersecurity (standardization, organizations, alignment efforts)** *Alex Nicoll, Rockwell Automation, TC 65/WG 10 Co-convener*	A discussion of the complex ecosystem surrounding the IEC 62443 series of standards, including coordinating multiple SDOs and branching due to regulatory requirements.
17:00	**Perspective of ICS Cyber Security in Japan** / *Toshio Miyachi, JPCERT Coordination Center (Expert Advisor)*	The trail of ICS cyber security in Japan, its current state and future challenges toward the next stage are discussed.
17:30	**5G Communication in Automation** *Satoko Itaya, Ph.D., Director of Industrial Wireless Systems Laboratory Advanced Connectivity Bridge, NICT*	In recent years, there are many wireless systems implemented in manufacturing field. We introduce challenge of usage of wireless technology for manufacturing systems and a new initiative through industry-academia-government collaboration aimed creating a world where everyone can easily utilize wireless technology in factories.
18:00	**Closing** / *Takaharu Matsumoto, Plenary Chair*	