

Översikt över IEC TC 65 med underkommittéer och arbetsgrupper

IEC TC 65	<p>Industrial-process measurement, control and automation</p> <p>To prepare international standards for systems and elements used for industrial process measurement, control and automation. To coordinate standardization activities which affect integration of components and functions into such systems including safety and security aspects. This work of standardization is to be carried out in the international fields for equipment and systems.</p>
IEC SC 65A	<p>System aspects</p> <p>To prepare international standards regarding the generic aspects of systems used in industrial process measurement, control and manufacturing automation: operational conditions (including EMC), methodology for the assessment of systems, functional safety, etc. SC65A also has a safety pilot function to prepare standards dealing with functional safety of electrical/electronic/programmable electronic systems.</p>
IEC SC 65B	<p>Measurement and control devices</p> <p>To prepare international standards in the field of specific aspects of devices (hardware and software) used in industrial process measurement and control, such as measurement devices, analysing equipment, actuators, and programmable logic controllers, and covering such aspects as interchangeability, performance evaluation, and functionality definition.</p>
IEC SC 65C	<p>Industrial networks</p> <p>To prepare international standards on wired, optical and wireless industrial networks for industrial-process measurement, control and manufacturing automation, as well as for instrumentation systems used for research, development and testing purposes. The scope includes cabling, interoperability, co-existence and performance evaluation.</p>
IEC SC 65E	<p>Devices and integration in enterprise systems</p> <p>To prepare international standards specifying:</p> <p>(1) Device integration with industrial automation systems. The models developed in these standards address device properties, classification, selection, configuration, commissioning, monitoring and basic diagnostics.</p> <p>(2) Industrial automation systems integration with enterprise systems. This includes transactions between business and manufacturing activities which may be jointly developed with ISO TC184.</p>

Arbets- och projektgrupper	
TC 65 AG 4	Coordination of properties and CDD
TC 65 JAG 25	IEC/TC 65 and ISO/IEC JTC 1/SC 27 Security Collaboration Joint Advisory Group
TC 65 JWG 14	Energy Efficiency in Industrial Automation (EEIA)
TC 65 JWG 17	System interface between industrial facilities and the smart grid
TC 65 JWG 13	Safety requirements for industrial-process measurement, control and automation equipment, excluding functional safety
TC 65 JWG 21	Smart Manufacturing Reference Model(s)
TC 65 WG 16	Digital Factory
TC 65 WG 24	Asset Administration Shell for Industrial Applications
TC 65 WG 15	Documents for the Process Industry
TC 65 WG 12	P&I diagrams, P&ID tools and PCE-CAE tools
TC 65 WG 1	Terms and definitions
TC 65 WG 10	Security for industrial process measurement and control - Network and system security
TC 65 WG 19	Life-cycle management for systems and products used in industrial-process measurement, control and automation
TC 65 WG 18	Cause and Effect Table
TC 65 WG 20	Industrial-process measurement, control and automation– Framework to bridge the requirements for safety and security
TC 65 WG 22	Reliability of Industrial Automation Devices and Systems
TC 65 WG 23	Smart Manufacturing Framework and Concepts for industrial-process measurement, control and automation
SC 65A MT 61511	Functional safety - Safety instrumented systems for the process industry
SC 65A MT 61512	Batch control systems
SC 65A MT 61508-1-2	Maintenance of IEC 61508-1, -2, -4, -5,-6 and 7
SC 65A MT 61508-3	Maintenance of IEC 61508-3, -4, -6 and -7
SC 65A PT 61508-3-2	Using formal methods in the development and assurance of software

SC 65A WG 16	Evaluation of system properties for the purpose of system assessment
SC 65A WG 15	Management of Alarm Systems for the Process Industries
SC 65A WG 4	EMC Requirements
SC 65A WG 14	Functional Safety Guide: IEC 61508-0
SC 65A WG 18	Functional safety of IACS in defence applications
SC 65A WG 19	Human-Machine Interfaces for Process Automation Systems
SC 65B MT 61131-9	Programmable controllers - Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)
SC 65B PT 61207-7	Expression of performance of gas analyzers - Part 7: Tunable laser gas analyzers
SC 65B PT 62829	Chemometrics for process analytical technologies
SC 65B WG 14	Analyzing equipment
SC 65B WG 15	Function block
SC 65B WG 7	Programmable control systems
SC 65B WG 6	Testing and evaluation performance
SC 65B WG 5	Temperature sensors and instruments
SC 65B WG 9	Final control element: Process control valves
SC 65B WG 16	Power sources for a wireless communication device
SC 65C JWG 10	Industrial Cabling
SC 65C PT 61139-2	Single-drop digital communication interface (SDCI) - Functional safety extensions
SC 65C WG 15	High Availability Networks
SC 65C WG 12	Functional Safety for Fieldbus
SC 65C WG 9	Fieldbus
SC 65C WG 16	Wireless
SC 65C WG 17	Wireless Coexistence
SC 65C WG 18	Time-sensitive networking for industrial automation
SC 65E JWG 5	Enterprise-control system integration
SC 65E WG 14	Modular Type Package (MTP)
SC 65E WG 8	OPC

SC 65E WG 2	Product properties & classification
SC 65E WG 4	Field device tool interface specification
SC 65E WG 3	Commissioning
SC 65E WG 7	FB for process control, EDDL and FDI
SC 65E WG 9	AutomationML - Engineering Data Exchange Format
SC 65E WG 10	Intelligent Device Management
SC 65E WG 12	Predictive Maintenance
SC 65E WG 13	Representation of electrical & instrument objects in digital 3D plant models during engineering

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