



Digital Twin



- International level -



ISO/IEC JTC1/SC 41 – IoT and Digital Twin

Scope	Standardization in the area of Internet of Things and Digital Twin, including their related technologies.	
Committee information	Published standards	54
	Standards under development	46
	National delegates	9

Major “ISO/IEC JTC 1/SC 41” standards

Published standards	ISO/IEC 30186:2025	Digital twin - Maturity model and guidance for a maturity assessment
	ISO/IEC TR 30194:2024	Internet of things (IoT) and digital twin - Best practices for use case projects
	ISO/IEC 30173:2023	Digital twin - Concepts and terminology
	ISO/IEC TR 30172:2023	Internet of things (IoT) - Digital twin - Use cases
Standards under development	ISO/IEC 30151	Digital Twin - Extraction and transactions of data products
	ISO/IEC 30152	IoT and digital twins – Guidance on the connection to data spaces
	ISO/IEC TR 30138	Digital twin - Fidelity metric of a digital twin system



ISO/TC 184/SC 4 – Industrial data

Scope	Standardization in the field of automation systems and their integration for design, sourcing, manufacturing, production and delivery, support, maintenance and disposal of products and their associated services.	
Committee information	Published standards	823
	Standards under development	24

Major “ISO/TC 184/SC 4” standards

Published standards	ISO 23247 series	Automation systems and integration — Digital twin framework for manufacturing
	ISO/TR 24464:2025	Visualization elements of digital twin — Visualization fidelity
	ISO/TR 23247-100:2025	Automation systems and integration — Digital twin framework for manufacturing — Part 100: Use case on management of semiconductor ingot growth process
	ISO/TR 23247-101:2026	Automation systems and integration — Digital twin framework for manufacturing — Part 101: Use case on management of robotic multilayer and multipass gas-shielded metal arc welding process
Standards under development	ISO/TS 25271	Automation systems and integration — Industrial digital twin interface architecture
	ISO/TS 26379	Industrial automation systems and integration — 3D Shape Descriptors for Fidelity Metrics of Digital Twin Shapes