



Technical standardization in Cloud and Data



- International level -

ISO/IEC JTC 1/SC 38 - Cloud computing and distributed platforms

Scope	Standardization in the areas of Cloud Computing and Distributed Platforms including: • Foundational concepts and technologies, • Operational issues, and • Interactions among Cloud Computing systems and with other distributed systems. SC 38 serves as the focus, proponent, and systems integration entity on Cloud Computing, Distributed Platforms, and the application of these technologies. SC 38 provides guidance to JTC 1, IEC, ISO and other entities developing standards in these areas.	
Committee information	Published standards	33
	Standards under development	18

Major “ISO/IEC JTC 1/SC 38” standards

Published standards	<u>ISO/IEC TR 23951:2025</u>	Information technology — Cloud computing — Best practices for using the cloud service level agreement (SLA) metric model
	<u>ISO/IEC TS 10866:2024</u>	Information technology — Cloud computing and distributed platforms — Framework and concepts for organizational autonomy and digital sovereignty
	<u>ISO/IEC TS 7339:2024</u>	Information technology — Cloud computing — Overview of platform capabilities type and platform as a service
	<u>ISO/IEC 23751:2022</u>	Information technology — Cloud computing and distributed platforms — Data sharing agreement (DSA) framework
	<u>ISO/IEC 22624:2020</u>	Information technology — Cloud computing — Taxonomy based data handling for cloud services
	<u>ISO/IEC 19944 series</u>	Cloud computing and distributed platforms — Data flow, data categories and data use
Standards under development	<u>ISO/IEC DIS 11034</u>	Information technology — Cloud computing — Trustworthiness in cloud computing
	<u>ISO/IEC DIS 19274</u>	Information technology — Cloud computing and distributed platforms — Networking in cloud computing and edge computing
	<u>ISO/IEC AWI 20151-2</u>	Cloud computing and distributed platforms — Dataspaces — Part 2: Trust frameworks
	<u>ISO/IEC DIS 20996</u>	Information technology — Cloud computing — Cloud service customer business continuity and resilience
	<u>ISO/IEC AWI 26191</u>	Information Technology — Cloud computing — Cloud computing support for AI services

- European level -



ETSI TC NET – Federated Network, Edge, Cloud, and AI Technologies

Scope	TC NET will develop globally applicable Technical Specifications and Standards supporting the definition of a digital infrastructure integrating computing and AI resources with connectivity technology, resulting in a highly programmable, intelligent and federated cloud-network-edge-device continuum. TC NET will produce deliverables which are complementary to 3GPP and ETSI TC CYBER deliverables.	
	Note: <u>ETSI TC NET</u> was established on 25 June 2026 and new projects are expected to open soon.	
Committee information	Published standards	/
	Standards under development	/

CEN/CLC/JTC 25 - Data management, Dataspaces, Cloud and Edge

Scope	Standardisation in the area of data management, dataspaces, cloud and edge, including:	
	• data governance, data quality and data lifecycle management; • interoperability, portability and switch ability; • organizational frameworks and methodologies, including IT management systems; • processes and products evaluation schemes; • smart technology, objects, distributed computing devices, data services.	
Committee information	Published standards	6
	Standards under development	9

Major “CEN/CLC/JTC 25 ” standards

Published standards	<u>CEN/CLC/TS 18331:2026</u>	Maturity assessment of Common European Data Spaces
	<u>EAS 18425:2026</u>	Requirements for implementation tools and artefacts for data governance, data management and data quality supporting trusted data sharing
	<u>EN 18235-1:2026</u>	Trusted data transactions - Part 1: Terminology, concepts and mechanisms
	<u>EN ISO/IEC 22123-1:2026</u>	Information technology - Cloud computing - Part 1: Vocabulary (ISO/IEC 22123-1:2023)
	<u>EN ISO/IEC 22123-2:2026</u>	Information technology - Cloud computing - Part 2: Concepts (ISO/IEC 22123-2:2023)
	<u>EN ISO/IEC 22123-3:2026</u>	Information technology - Cloud computing - Part 3: Reference architecture (ISO/IEC 22123-3:2023)
Standards under development	<u>FprEN 18235-2</u>	Trusted data transactions - Part 2: Trustworthiness requirements
	<u>FprEN 18352</u>	Quality framework for internal data governance for participants in data spaces
	<u>prCEN/TS XXX</u>	Cloud Computing - Switching and Interoperability in a European context
	<u>prEN 18235-3</u>	Trusted data transactions - Part 3: Interoperability requirements
	<u>prEN ISO/IEC 10866</u>	Information technology — Cloud computing and distributed platforms — Framework and concepts for organizational autonomy and digital sovereignty
	<u>prEN ISO/IEC 20151-2</u>	Cloud computing and distributed platforms -- Dataspaces -- Part 2: Trust frameworks

- National level -

ILNAS/NSC 05 – Cloud and Data

Scope	NSC 05 is a national standardization commission that offers Luxembourgish market players a unique platform to follow and participate in standardization work in the fields of cloud computing and data. In particular, the Commission provides a framework for contributing to standardization activities supporting the implementation of the European Data Act, notably in areas such as data interoperability, data sharing and switching between data processing services. Through the Commission, national organizations are able to access and participate in the work of CEN/CLC/JTC 25 “Data management, Dataspaces, Cloud and Edge” and ISO/IEC JTC 1/SC 38 “Cloud computing and distributed platforms”.	
Committee information	National delegates	5