

ISO/IEC JTC 1 State of the Union

June 2022

Phil Wennblom, JTC 1 Chair



Technical areas

Coded character sets

Telecommunications and information exchange between systems

Software and systems engineering

Cards and security devices for personal identification

Programming languages

Digitally recorded media

Computer graphics, image processing

Interconnection of IT equipment (home electronics)

IT security techniques

Office equipment (printing)

Coding of audio, picture, multimedia (JPEG, MPEG)

Automatic ID and data capture (RFID)

Data management

Document description, processing

User interfaces

IT for learning, education, training

Biometrics

Cloud computing

IT Sustainability

IT governance

Internet of Things and Digital Twin

Artificial Intelligence

Brain-Computer Interfaces

Smart cities

3D printing and scanning

Trustworthiness

Quantum Computing

JTC 1 Advisory/Ad Hoc Groups

- Communications
- JTC 1 Emerging Technology and Innovation (JETI)
- Systems Integration Facilitation
- Outreach
- Standards and Regulations
- Meta-Reference Architecture and Reference Architecture for Systems Integration
- Meeting guidelines (SD 19)
- Vocabulary
- Collaboration Across Domains (AhG 4)
- Freely available standards (AhG 5)
- Cooperation with ISO/TC 20/SC 16 (Unmanned Aircraft Systems)
- Cooperation with ISO/TC 268/SC 1 (Smart Cities Infrastructure)
- Future of ISO/IEC 27013 and ISO/IEC TR 20000-7 (AhG 6)

JTC 1 Focus

- Horizontal by design, JTC 1 develops information technology standards that are applicable across domains
 - Enable interoperability and expectations that result in higher quality experiences
 - Encapsulate expertise and best practices
 - Foundation for innovation
- JTC 1 works together with other IEC and ISO TCs and other organizations that are utilizing information technology to develop domain-specific standards
 - More than 400 liaisons (JTC 1 and its SCs)
 - Emphasis on effective cooperation/collaboration

Effective Cooperation

Increasingly important for JTC 1 to cooperate with all relevant ISO and IEC TCs

Necessary to cooperate with other ISO and IECs when developing JTC 1 standards that are specific to their scope

Note major revision of SD 15 (Liaisons) expected to be approved in November

Emphasis on Communications

Great, well attended workshops organized by SC 41 and SC 42 in the last few months

JTC 1 Advisory Group on Communications activity

- [JTC1info.org](https://www.jtc1info.org) updates
- Twitter (#JTC1News) and LinkedIn

Great support from the IEC Central Office

Effective communications requires proactive involvement by experts and delegates who participate in JTC 1

- Please contribute content
- Please highlight opportunities to communicate about our work

Future JTC 1 Plenary Meetings

JTC 1 meets in Plenary twice per year

- November 2022 Japan
- May 2023 Italy
- November 2023 China
- May 2024 Australia
- November 2024 Germany

