



Overview of texts governing the cooperation between ITU-T, and ISO and IEC (incl. JTC 1)

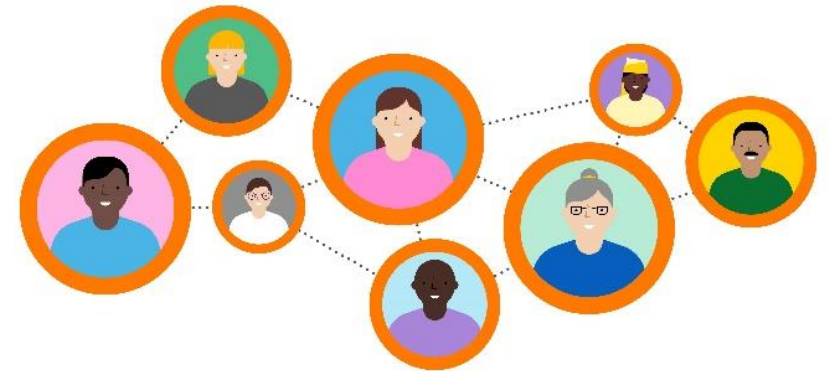
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IEC-ISO-ITU
Joint Smart Cities Task Force (J-SCTF)
Forum on "Strengthening IEC, ISO and ITU
collaboration for smart cities"



Background

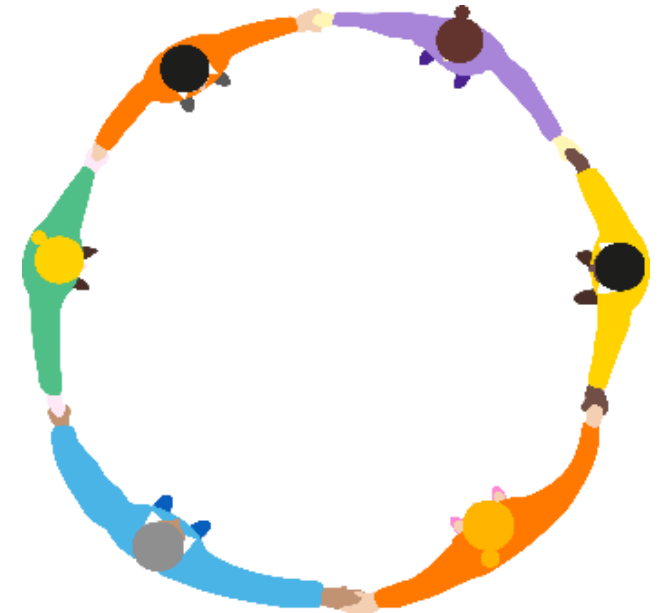
- ITU-T, ISO and IEC (in particular JTC 1) have worked in cooperation for decades
- Full range of options available:
 - information exchange (liaison statements)
 - liaison officers
 - work in collaboration
- Procedures are in place for working together:
 - World Telecommunication Standardization Assembly (WTSA) Resolution 7 "*Collaboration with ISO and IEC*"
 - Recommendation ITU-T A.23 | ISO/IEC JTC 1 Standing Document 3 "*Guide for ITU-T and ISO/IEC JTC 1 cooperation*"
 - Category A liaison maintained by JTC 1 with ITU-T
 - Category A: Organizations that make an effective contribution to the work of the technical committee or subcommittee [...]. Such organizations are given access to all relevant documentation and are invited to meetings. They may nominate experts to participate in a WG.
 - Common Patent Policy for ITU-T/ITU-R/ISO/IEC
 - Supplement 5 to the ITU-T A-series "*Guidelines for collaboration and exchange of information with other organizations*"





WTSA Resolution 7 "Collaboration with ISO and IEC"

- The primary Resolution setting forth the ITU-T collaboration with ISO, IEC and ISO/IEC JTC 1
- Dating back in 1984
- To examine the work programme of ISO and IEC in the early stages of their studies in order to identify subjects where coordination seems desirable
 - World Standards Cooperation (WSC)
 - IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPCG)
 - liaison mechanisms
- To cooperate with these organizations as widely as possible and by appropriate means, in order to:
 - ensure that the specifications which have been jointly drawn up remain aligned
 - collaborate in drawing up other specifications in fields of joint interest
- To maintain the program of cooperation on the ITU-T website:
 - [Search for common Recommendations | International Standards](#)
 - [List of common/twin Recommendations | International Standards](#)
 - [Mapping between ISO/IEC and ITU-T deliverables](#)
 - "Representatives and other roles" on each ITU-T study group web page





Program of cooperation between ITU-T, and ISO or IEC

ITU-T study group	IEC TC, ISO TC, ISO/IEC JTC 1/SC
ITU-T SG 5 " <i>Environment, climate change and circular economy</i> "	see relationships
ITU-T SG 9 " <i>Broadband cable and TV</i> "	see relationships
ITU-T SG 11 " <i>Signalling requirements, protocols and test specifications</i> "	see relationships
ITU-T SG 12 " <i>Performance, QoS and QoE</i> "	see relationships
ITU-T SG 13 " <i>Future networks, with focus on IMT-2020, cloud computing and trusted network infrastructures</i> "	see relationships
ITU-T SG 15 " <i>Transport, access and home</i> "	see relationships
ITU-T SG 16 " <i>Multimedia</i> "	see relationships
ITU-T SG 17 " <i>Security</i> "	see relationships
ITU-T SG 20 " <i>Internet of things (IoT), and smart cities and communities</i> "	relationships : <ul style="list-style-type: none">▪ IEC SyC Smart cities▪ ISO/IEC JTC 1/SC 41 "<i>Internet of Things and digital twin</i>"▪ ISO/IEC JTC 1/WG 11 "<i>Smart cities</i>"





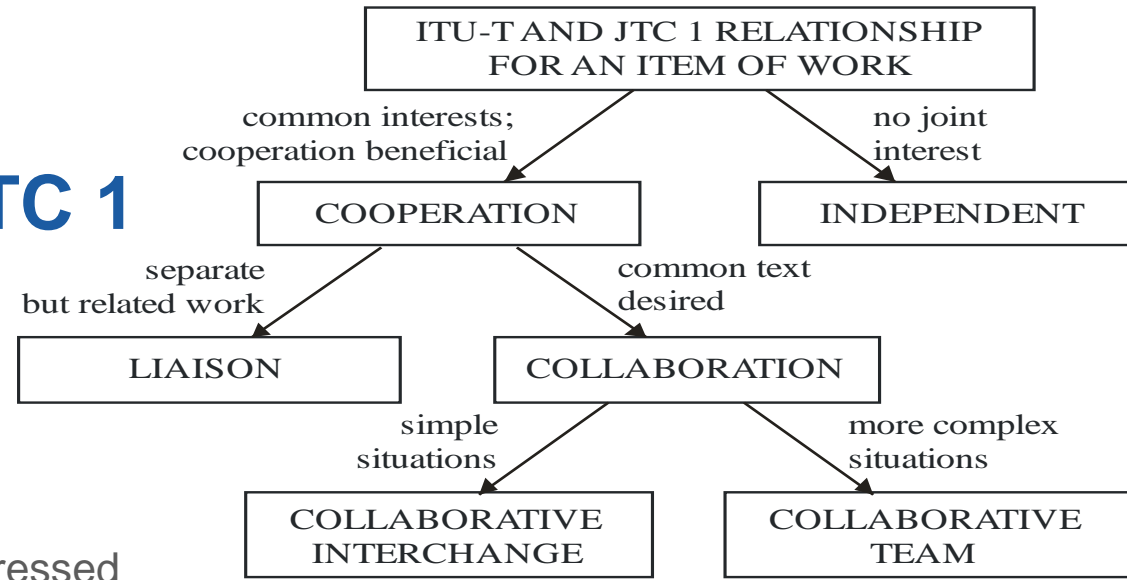
Guide for ITU-T and ISO/IEC JTC 1 cooperation

- Started in 1988 (CCITT), now 6th edition
- [Recommendation ITU-T A.23, Annex A](#) | [ISO/IEC JTC 1 Standing Document 3](#)
- Contains:
 - a reference to approval procedures of each organization
 - a set of synchronization procedures for cooperation
 - rules for presentation of ITU-T | ISO/IEC common texts
- Does **not** introduce any change in the approval process of each organization
 - the JTC 1 approval process (CD, DIS, FDIS) is followed on the JTC 1 side
 - the ITU-T (traditional or alternative) approval process is followed on the ITU-T side





Modes of cooperation between ITU-T and ISO/IEC JTC 1



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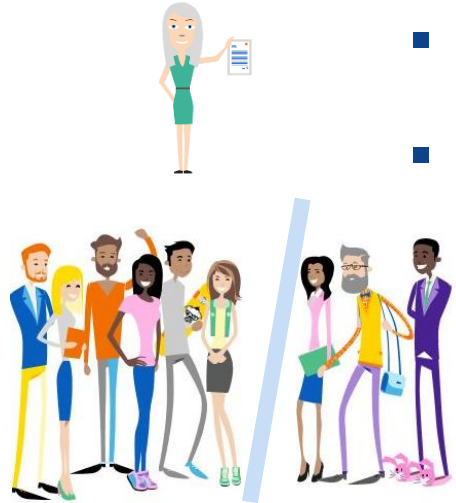
- Liaison statements, liaison officers

- Collaborative Interchange

- technical work on a single topic may be progressed in successive meetings in JTC 1 and in ITU-T
- used when the work is straightforward, non-controversial, and with sufficient common participation in the meetings of each organization
- *see clause 7 of the Guide for Cooperation*

- Collaborative Team

- common group composed of experts from a JTC 1 SC and an ITU-T SG
 - ToR agreed by the ITU-T SG and the JTC 1 SC
 - similar to a (sub-)Working Group in JTC 1 and to (a subset of) a Question in ITU-T
 - meetings of the Collaborative Team are announced by each organization (and open to experts of the other organization)
- *see clause 8 of the Guide for Cooperation*





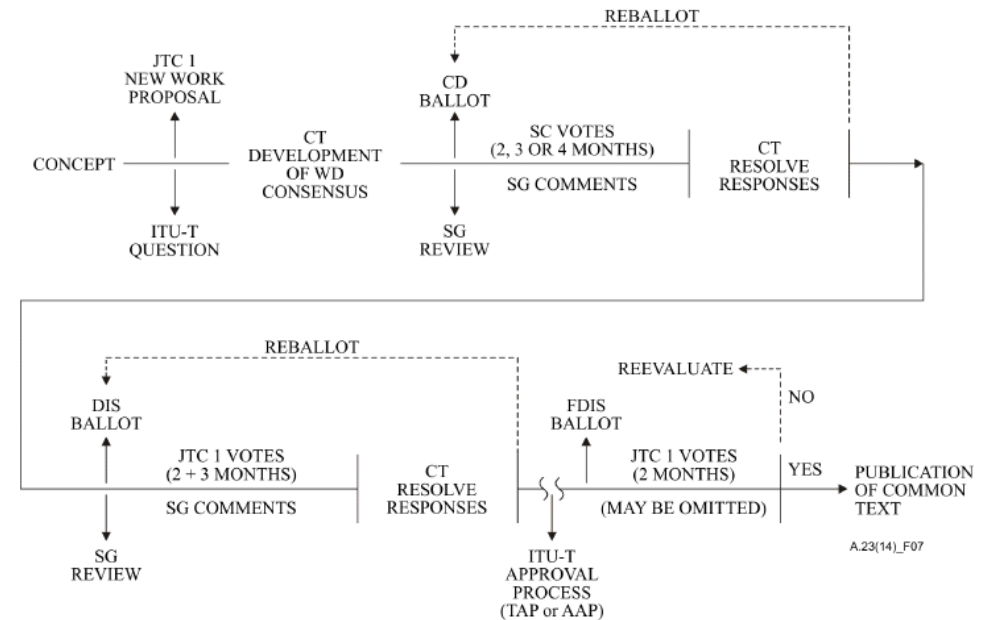
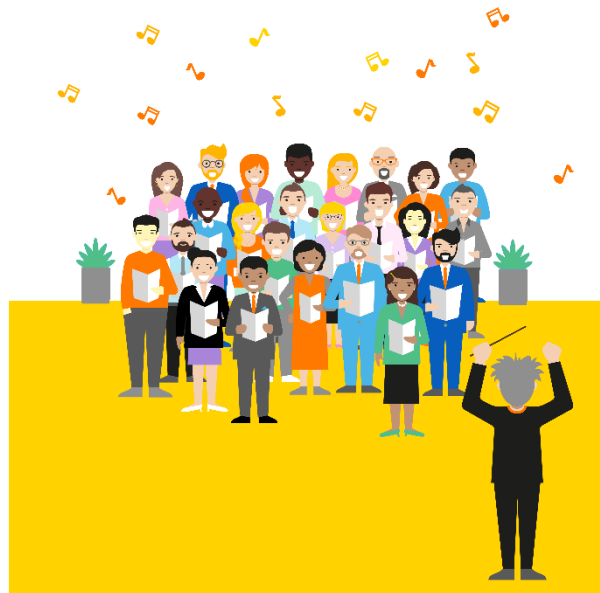
Common text or twin text?

- In each collaborative mode, the output may be:
 - a **common text**: jointly published between ISO, IEC and ITU-T (using an agreed common publication template)
 - a **twin text**: identically technical content between the ITU-T Recommendation and the ISO/IEC standard, but distinct publication (with possible non-technical differences, including different publication templates and different information annexes)
- More than 250 "*common*" or "*technically aligned*" standards between both organizations:
 - Rec. ITU-T H.265 | ISO/IEC 23008-2 on high efficiency video coding (HEVC) → [Primetime Emmy Award](#)
 - Rec. ITU-T X.509 | ISO/IEC 9594-8 on public-key infrastructure (PKI)
 - Rec. ITU-T X.1051 | ISO/IEC 27011 on information security management
 - Rec. ITU-T Y.3502 | ISO/IEC 17789 on cloud computing
 - [List of common/twin Recommendations | International Standards](#)



Synchronized approval process

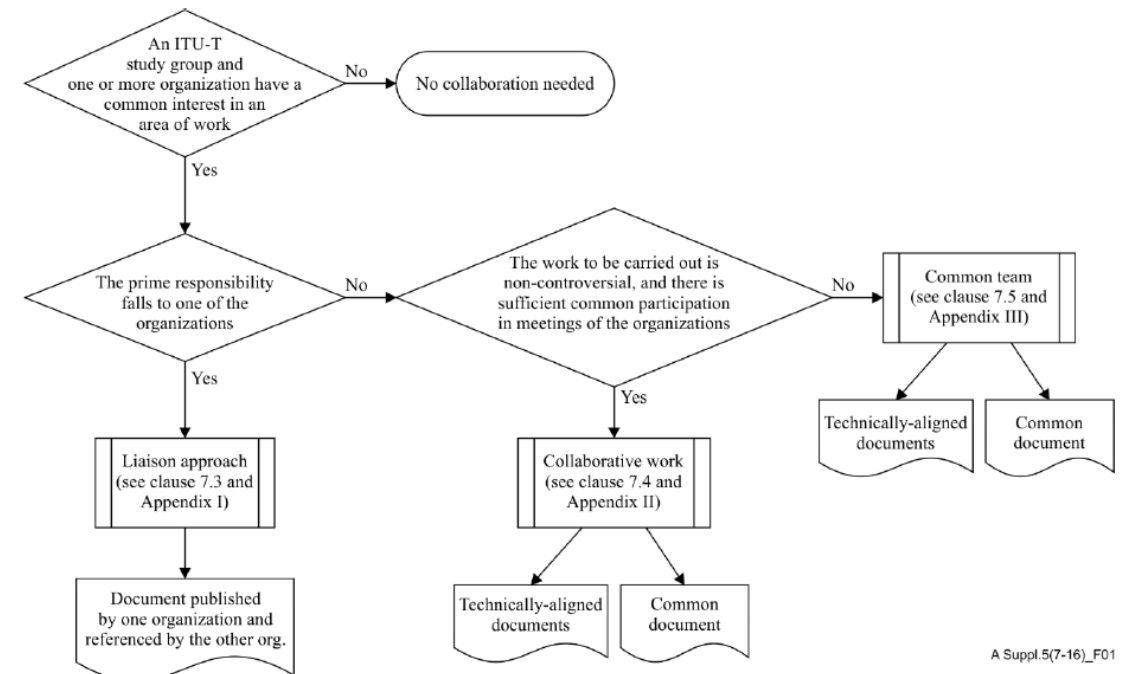
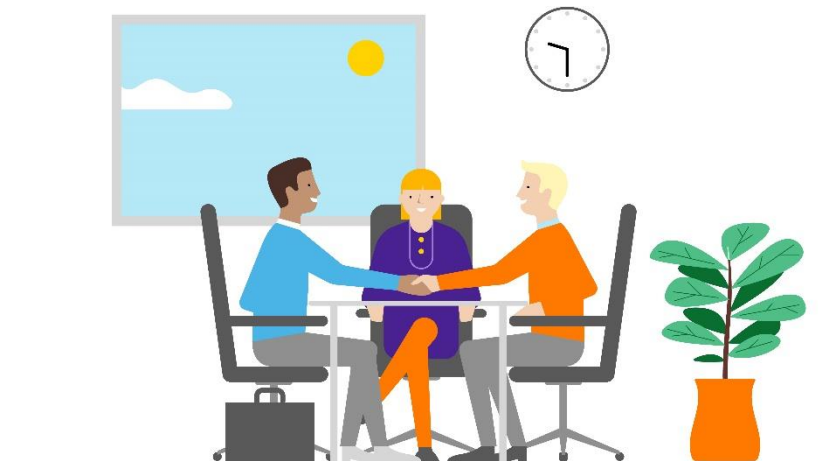
- In all cases (collaborative interchange or collaborative team), the approval process of each organization is applied with no change
- Synchronization of the respective approval procedures
 - one step alternatively in each organization
 - members of each organization submit comments to their organization
 - the other organization is informed of changes introduced when resolving comments before initiating the next step
 - *see clauses 7.9 and 8.9 of the Guide for Cooperation*





Cooperation between an ITU-T SG, and an ISO TC or IEC TC

- Supplement 5 to the ITU-T A-series "Guidelines for collaboration and exchange of information with other organizations"
 - generalization of Rec. ITU-T A.23, Annex A | ISO/IEC JTC 1 Standing Document 3
- Different processes for collaboration and exchange of information
 - liaison mode
 - collaborative work
 - common team
- Generic process for developing common (or technically-aligned) documents
- Guidelines for synchronization of approval processes





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