

Collaboration mechanisms between an ITU-T study group and an ISO technical committee

Olivier Dubuisson (ITU-T TSAG rapporteur on working methods)

Joint ITU-T SG17 & ISO TC 307/JWG 4 workshop

on "DLT security, identity management and privacy"

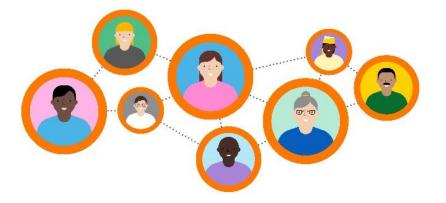


Background

- ITU-T, ISO and IEC (in particular JTC 1) have worked cooperatively 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"
 - for cooperation between an ITU-T study group (or part thereof) and an ISO/IEC JTC 1 sub-committee (or part thereof)
 - <u>Category A liaison</u> 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.
 - Supplement 5 to the ITU-T Series A Recommendations
 - "Guidelines for collaboration and exchange of information with other organizations"
 - for cooperation between an ITU-T study group (or part thereof), and

an ISO technical committee or an IEC technical committee (or part thereof)

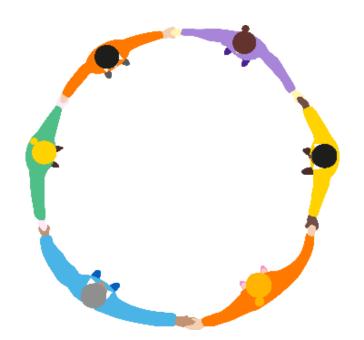
<u>Common Patent Policy for ITU-T/ITU-R/ISO/IEC</u>





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 (<u>SPCG</u>)
 - 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 "Environment, climate change and circular economy" | see <u>relationships</u> |
| ITU-T SG 9 "Broadband cable and TV" | see <u>relationships</u> |
| ITU-T SG 11 "Signalling requirements, protocols and test specifications" | see <u>relationships</u> |
| ITU-T SG 12 "Performance, QoS and QoE" | see <u>relationships</u> |
| ITU-T SG 13 "Future networks, with focus on IMT-2020, cloud computing and trusted network infrastructures" | see <u>relationships</u> |
| ITU-T SG 15 "Transport, access and home" | see <u>relationships</u> |
| ITU-T SG 16 "Multimedia" | see <u>relationships</u> |
| ITU-T SG 17 "Security" | see <u>relationships</u> ISO TC 307 (Blockchain and distributed ledger technologies) ISO/IEC JTC 1/SC 27 (IT security techniques) |
| ITU-T SG 20 "Internet of things (IoT), and smart cities and communities" | see <u>relationships</u> |
| | |



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



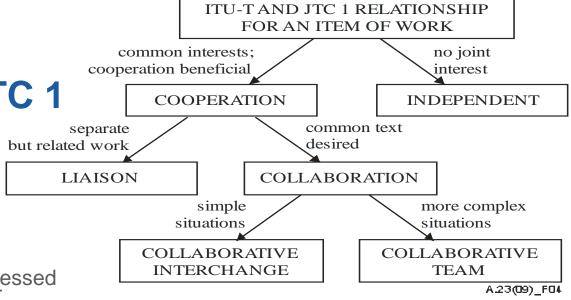


Modes of cooperation between ITU-T and ISO/IEC JTC 1

- 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: <u>identically technical</u> 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)

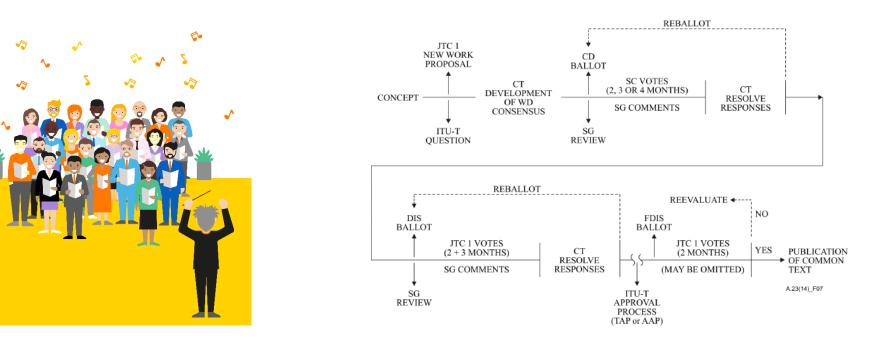


- More than 250 "common" or "technically aligned" standards, many being "best-sellers"
 - <u>Rec. ITU-T H.265 | ISO/IEC 23008-2</u> on high efficiency video coding (HEVC) [ITU-T SG16 & JTC 1/SC 29]
 <u>Primetime Emmy Award</u>
 - Rec. ITU-T X.509 | ISO/IEC 9594-8 on public-key infrastructure (PKI) [ITU-T SG17 & JTC 1/SC 6]
 - Rec. ITU-T X.660 | ISO/IEC 9834 series on object identifiers (OIDs) [ITU-T SG17 & JTC 1/SC 6]
 - Rec. ITU-T X.680 & X.690 | ISO/IEC 8824 & 8825 series on ASN.1 and encoding rules [ITU-T SG17 & JTC 1/SC 6]
 - Rec. ITU-T X.1051 | ISO/IEC 27011 on information security management [ITU-T SG17 & JTC 1/SC 27]
 - Rec. ITU-T Y.3502 | ISO/IEC 17789 on cloud computing [ITU-T SG17 & JTC 1/SC 38]



Synchronized approval process

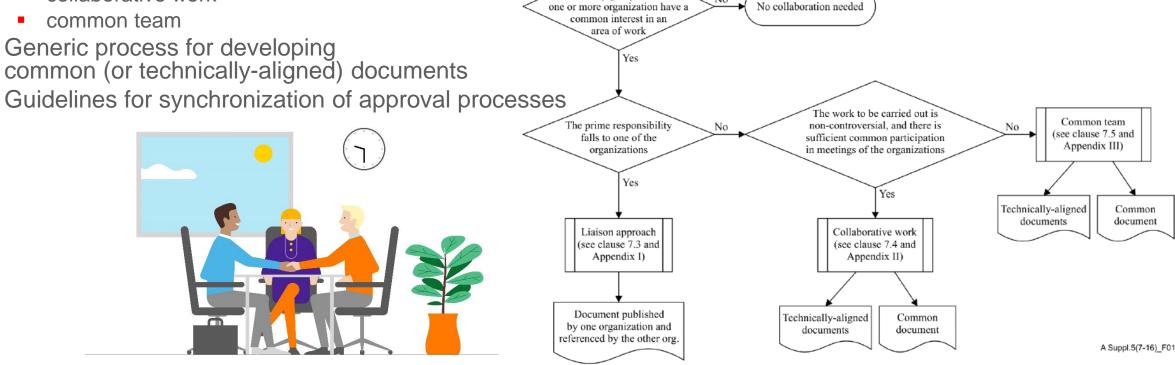
- In all cases (collaborative interchange or collaborative team), the approval process of each organization is applied with no change
- Synchronization of the respective approval procedures
 - one step alternatively in each organization
 - members of each organization submit comments to their organization
 - 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
- ITU-T-only document, no equivalent in ISO and IEC
- Different processes for collaboration and exchange of information → see clause 8.2 for a recommended format of the terms of reference to be agreed between parties
 - liaison mode
 - collaborative work
- Generic process for developing



An ITU-T

study group and

No





Connecting the world, together.