

**Overview of the ISO/IEC JTC1 standardization committee and current national mirror committees in Luxembourg**

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## *Summary*

- Introduction to the International Organization for Standardization (ISO)
- Presentation of the standardization committee “ISO/IEC JTC1 – Information technology”
- Overview of current activities in Luxembourg within ISO/IEC JTC1

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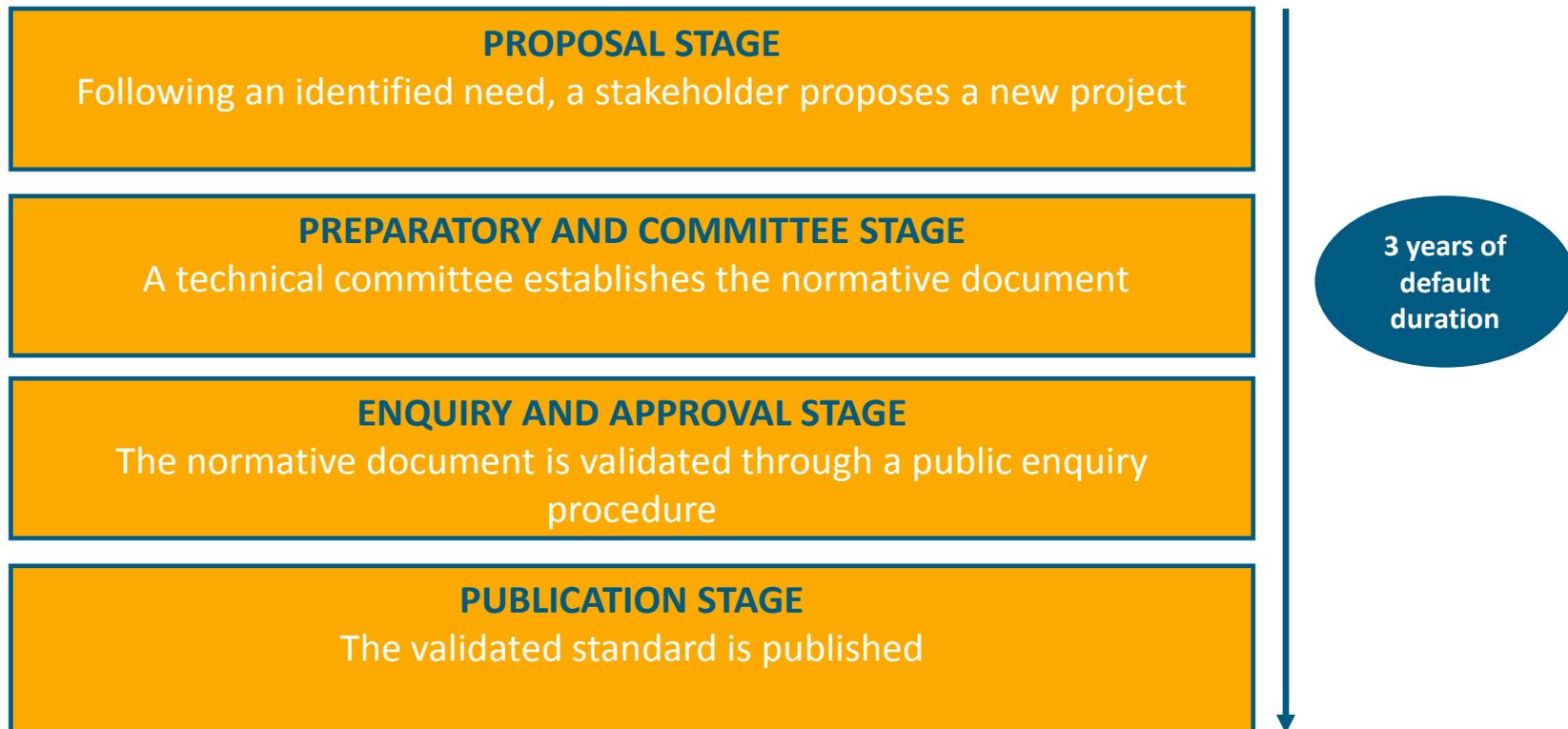


## *International Organization for Standardization (ISO) in a nutshell*

- ISO (International Organization for Standardization) is the world's largest developer and publisher of International Standards
  - More than **18000 standards** published
  - More than **4000 standards** under development
- **162 countries** are ISO members
- The Central Secretariat in Geneva, Switzerland, coordinates the system
- The objective of documents published by ISO and IEC is **to define clear and unambiguous provisions in order to facilitate international trade and communication**



## *Standards development process*



## *The three main principles of ISO standards development*

- ISO standards are developed according to the following principles
- **Consensus**  
The views of all interests are taken into account: manufacturers, vendors and users, consumer groups, testing laboratories, governments, engineering professions and research organizations
- **Industry wide**  
Global solutions to satisfy industries and customers worldwide: an ISO standard must be applicable at the international level and by any type of organization
- **Voluntary**  
International standardization is market driven and therefore based on voluntary involvement of all interests in the market-place

## *ISO principal officers*

- Dr. Boris Aleshin
- Russian Federation
- President



- Elected
- Two-year term (2011-2012)
- A "political" role:
  - Communication and involvement of the member countries
  - Identification of new areas for standardization
  - ...

- Mr. Rob Steele
- ISO Central Secretariat
- Secretary-General (chief executive officer)



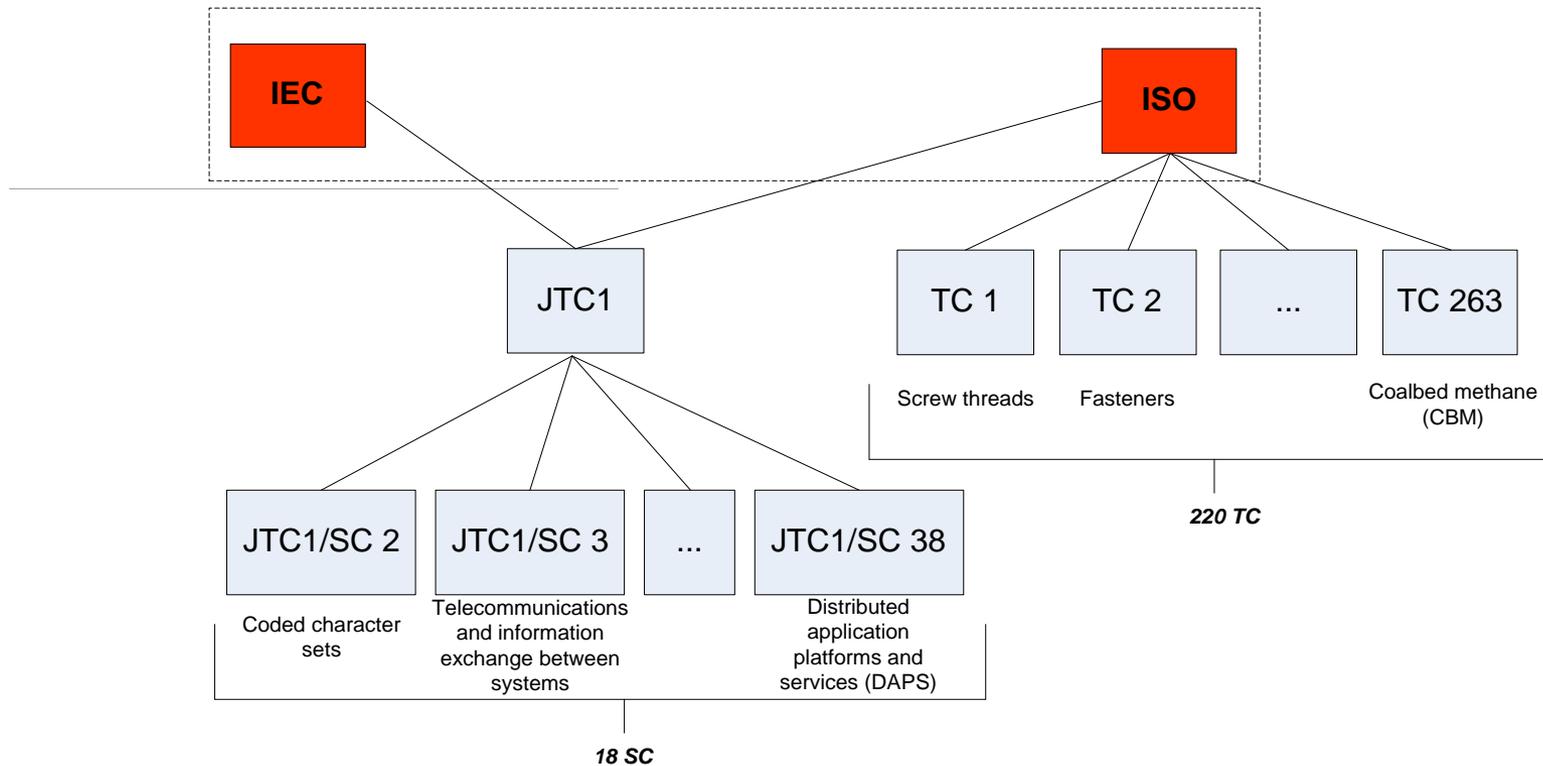
- Not elected, but hired by ISO
- In this position since 01.01.09
- Role:
  - Head of ISO Council
  - Responsible for the operation of ISO
  - Monitoring and support of the standards development process of ISO
  - Management of the Central Secretariat (150 people)
  - Responsible for budget and strategic plan

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## ISO/IEC JTC1



## *ISO/IEC JTC1 scope and mission*

- Title: Information Technology
- Scope: International standardization in the field of information technology
- JTC 1 is the standards development environment where experts come together to develop worldwide **Information and Communication Technologies (ICT) standards for business and consumer applications**
- Additionally, JTC 1 provides the standards approval environment for **integrating diverse and complex ICT technologies**
- The **JTC1 mission** is to develop, maintain, promote and facilitate IT standards required by global markets meeting business and user requirements



## *ISO/IEC JTC1 key figures*

- P-members: 35
- O-members: 56
  
- Published ISO standards related to the TC and its SCs: 2426
- Published ISO standards under the direct responsibility of JTC 1: 341
- Standards and projects in progress: 667
  
- The secretariat is currently managed by the American National Standards Institute (ANSI)

**Chairperson**  
Ms. Karen Higginbottom  
(USA)



- Official website: [http://www.iso.org/iso/fr/jtc1\\_home](http://www.iso.org/iso/fr/jtc1_home)

## *2 working groups and 18 active subcommittees within ISO/IEC JTC1*

Subcommittee	Title
JTC 1/WG6	Corporate Governance of IT
JTC 1/WG7	Sensor networks
JTC1/SC2	Coded character sets
JTC1/SC6	Telecommunications and information exchange between systems
JTC1/SC7	Software and systems engineering
JTC1/SC17	Cards and personal identification
JTC1/SC22	Programming languages, their environments and system software interfaces
JTC1/SC23	Digitally Recorded Media for Information Interchange and Storage
JTC1/SC24	Computer graphics, image processing and environmental data representation
JTC1/SC25	Interconnection of information technology equipment
JTC1/SC27	IT Security techniques
JTC1/SC28	Office equipment
JTC1/SC29	Coding of audio, picture, multimedia and hypermedia information
JTC1/SC31	Automatic identification and data capture techniques
JTC1/SC32	Data management and interchange
JTC1/SC34	Document description and processing languages
JTC1/SC35	User interfaces
JTC1/SC36	Information technology for learning, education and training
JTC1/SC37	Biometrics
JTC1/SC38	Distributed application platforms and services (DAPS)

## *ISO/IEC JTC1 standards – future developments*

• JTC 1 requests that SWG (Special Working Group) on Planning should investigate in the next term of its activities the **following technology areas** and develop recommendations for the 2011 JTC 1 Plenary:



- Green ICT
- Social Network and Web Collaboration
- Mobile Applications
- Augmented Reality
- 3D Image Technology

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## *ISO membership*

LUXEMBOURG

- **Member bodies** (110 countries): A member body of ISO is the national body "most representative of standardization in its country". **Only one such body for each country** is accepted for membership of ISO. Member bodies are entitled to participate and exercise **full voting rights** on any technical committee and policy committee of ISO (**one country = one vote**).
- **Correspondent members** (42 countries): A correspondent member is usually an organization in a country which does not yet have a fully-developed national standards activity. Correspondent members do not take an active part in the technical and policy development work, but are entitled to be **kept fully informed** about the work of interest to them.
- **Subscriber members** (10 countries): Subscriber membership has been established for countries with very small economies. Subscriber members pay reduced membership fees that nevertheless allow them to **maintain contact with international standardization**.

## *Participation in the work of technical committees and subcommittees*

- For each standardization technical committee (or subcommittee), a national member can be:

ISO/IEC JTC1 - LUXEMBOURG

- **Participating member (P-member)**: A P-member has an **obligation to vote** on all questions formally submitted for voting within technical committee or subcommittee, and to participate in meetings
- **Observing member (O-member)**: A O-member follows the work as an observer and therefore **receives committee documents** and has right to submit comments and to attend meetings
- A national body may choose to be neither P-member nor O-member of a given committee, in which case it will have neither the rights nor the obligations indicated above with regard to the work of that committee

## *The national mirror committees*

- Definition: A national mirror committee is the committee at the national level of an european or international committee (or subcommittee)
- Regarding ISO/IEC JTC1, 6 subcommittees and 1 working group are currently active at the national level:
  - JTC1/WG7: Sensor networks
  - JTC1/SC6: Telecommunications and information exchange between systems
  - JTC1/SC7: Software and systems engineering
  - JTC1/SC17: Cards and personal identification
  - JTC1/SC27: IT Security techniques
  - JTC1/SC36: Information technology for learning, education and training
  - JTC1/SC38: Distributed application platforms and services (DAPS)
- 31 delegates from Luxembourg are involved in ISO/IEC JTC1

Committee	JTC1	WG7	SC6	SC7	SC17	SC27	SC36	SC38
Number of delegates	2	2	1	12	1	11	3	1

## *ISO/IEC JTC1 National Forum*

- A communication platform between IT standardization actors in Luxembourg has been set up by ILNAS through the concept of “**ISO/IEC JTC1 National Forum**”
  - Follow the different topics covered in the standardization committee ISO / IEC JTC1: votes, comments, feedbacks from the ISO/IEC JTC1 plenary meetings
  - Facilitate information exchange between ILNAS and the chairs of the national mirror committees related to ISO/IEC JTC1 subcommittees
  - Promote communication and exchanges between the chairs of the national mirror committees related to ISO/IEC JTC1 subcommittees
  - Prepare the annual **ISO/IEC JTC1 national day** and **ISO/IEC JTC1 plenary meeting**



## *ISO/IEC JTC1 National Day*

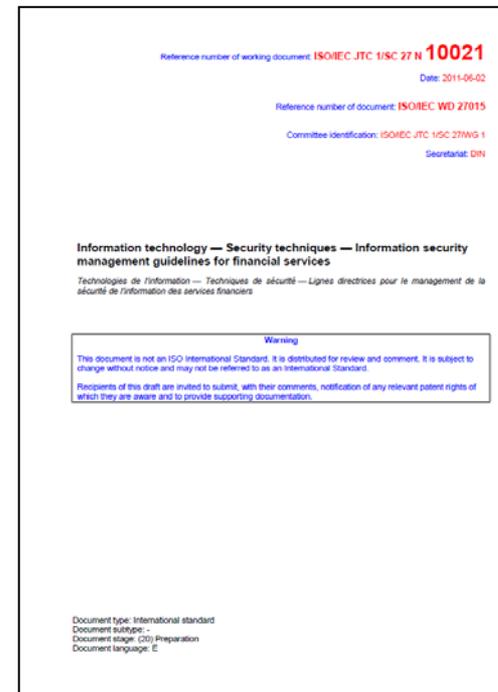
- A **national event** aiming at informing the national market about current trends and developments of IT standardization and promoting IT standardization in Luxembourg
- The conference of this year:
  - takes place during the World Standards Day (14.10.11)
  - supports the slogan of this year: “International Standards – Creating confidence globally”
  - focuses on Cloud Computing, that is a current hot IT standardization topic



## *ISO/IEC JTC1 National Chapters*

- An ISO/IEC JTC1 National Chapter is established when a delegate (or group of delegates) in Luxembourg is **(co-)editor of an ISO/IEC JTC1 standard** and needs some input from an economic sector to develop its standard and to take into account the point of views of the stakeholders of Luxembourg

- A first chapter was already opened in 2009, in the frame of the ISO/IEC 27015 standard development (ISMS guidance for financial services), linking the representatives of the financial sector with the editor of the standard, member of the ISO/IEC JTC1/SC27 national mirror committee



## *Current development objectives for IT standardization in Luxembourg*

- To develop communication and public awareness on IT standardization
- To have a delegate from Luxembourg in each active SC of ISO/IEC JTC1
- To follow and inform the stakeholders about new standardization activities having a potential impact on the economy in Luxembourg (*e.g.* Cloud Computing)
- To extend the scope to non-ISO/IEC standardization groups

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