
	Digital Trust Department (Standardization process)		
	Policy on ICT technical standardization 2013-2020		
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Policy on ICT technical standardization (2013-2020)

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Introduction

At the beginning of 2013, the Luxembourg's National Standards Body, ILNAS, updated its national standardization strategy, approved by the Minister of the Economy and Foreign Trade, for the 2013-2020 period, with the specific aim of ensuring the development of a unified technical standardization (hereinafter referred to under the generic term "standardization") culture, as well as the growth of various economic sectors in Luxembourg.

This national standardization strategy, directly related to the Europe 2020 strategy of the European Union, is primarily based on the following guiding principle: "Setting standards means setting the market". Thus, the act of participating in the standardization process does not only allow to anticipate future standards but also to meet market interests at any level. This strategy is notably implemented through a sector-based economic approach, where national needs are identified.

In this frame, the sector of Information and Communication Technology (ICT), corresponding to a keystone of the worldwide economy, can be considered, also at national level, as a horizontal support for all economic sectors. In line, the ICT sector is already an active sector at the national standardization level. Furthermore, driven by the Digital trust department of ILNAS, several tools have already been set up (ISO/IEC JTC1¹ national forum; ISO/IEC JTC1 national day; ISO/IEC JTC1 national chapter [see further project - III]), and many active national delegates are currently coming from the ICT sector.

According to the national standardization strategy, the "Luxembourg's policy on ICT technical standardization" aims to foster and strengthen the national ICT sector in its involvement in standardization work, and to achieve its main objectives consisting in five lead projects²:

- Developing yearly the national standards analysis for the ICT sector;
- Defining a national implementation plan for ICT technical standardization (in line with the national standard analysis for the ICT sector);
- Organizing and developing the ICT technical standardization representation at the national level;
- Reinforcing the research and innovation activities related to ICT standardization;
- Representing national interests within European and International entities in the field of ICT technical standardization.

I - Developing yearly the national standards analysis for the ICT sector


In line with the priorities set by the government of the Grand Duchy of Luxembourg, the ICT sector has for long been identified as a carrier for the national economy. In this frame, initiated by the Digital trust department of ILNAS for the first time in 2012³, the national standards analysis for the ICT sector constitutes indeed a sector-based "snapshot".

This survey and analysis of European and International standards related to ICT shall be realized in several steps listed hereafter:

¹ ISO/IEC JTC1 = International Standardization Committee ISO/IEC Joint Technical Committee 1 (JTC1 – on ICT).

² Managing these projects will allow development to be measured and consequently, will enable the "Luxembourg's policy on ICT technical standardization" to be adapted.

³ <http://www.ilnas.public.lu/fr/publications/confiance-numerique/etudes-nationales/standards-analysis-ict-v1-0.pdf>

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- Execute of a standards watch of the related sector (inventory of standards – both published and under development – at the European and International levels; identification and description of technical standardization committees);
- Target the national market of the related sector by identifying national stakeholders (public and private);
- Establish of logical links between the national market, the different stakeholders and the results of the standards watch;
- Identify relevant *fora/consortia* related to the ICT sector; identification of technical committees dealing with ICT as a supporting sector;
- Prepare of a final report of analysis and opportunities;
- Transfer of the standards knowledge acquired to various stakeholders.

In this context, the Digital trust department of ILNAS commissioned ANEC⁴ to conduct, yearly, the survey and analysis of European and International ICT sector standards (an update can be realized twice a year, depending on new and relevant related developments).

Note: ICT can be considered as a horizontal support of many other sectors in the worldwide economy. The examples of sectors where ICT is a cornerstone are numerous and obvious: aeronautics, automotive, energy, biomedical, logistics, etc. In the frame of the standards analysis of different sectors in Luxembourg, the ICT sector can be seen as a supporting sector. In this context, ILNAS, in collaboration with ANEC, will study the links established between the ICT sector and other sectors, in order to define the connections and potential synergies at the national level.

II - Defining a national implementation plan for ICT technical standardization (in line with the national standards analysis for the ICT sector)

A national implementation plan for ICT technical standardization, directly related to the national standards analysis for the ICT sector framework shall be developed, by ILNAS, in collaboration with ANEC. Based on the detailed information provided, the aim is to involve stakeholders of the Grand Duchy of Luxembourg in a global approach to standardization in order to support the sector in terms of competitiveness, visibility and performance, while enhancing the international recognition of the Grand Duchy of Luxembourg at the standards level.

In this context, the implementation plan shall aim to address the different national stakeholders regarding their potential interests for participating in standardization.


This implementation plan will be drawn up on a yearly basis in order to ensure that it is in line with national standardization priorities in the field. This plan will be regularly submitted to the “ISO/IEC JTC1 national forum” for consultation and it will be carry out by ANEC under the control of ILNAS.

III - Organizing and developing the ICT technical standardization representation at the national level

ICT is an important sector supporting the economy of Luxembourg and, in parallel, the area of ICT standardization has also become a major economic field of interest contributing in particular to improving productivity at work, facilitating trade and developing new markets.

At national level, the ICT sector is already active in standardization. In order to support its development, three tools have been introduced by ILNAS in order to manage ICT standardization.

⁴ GIE Agence pour la Normalisation et l’Economie de la Connaissance – Standardization department

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These three tools shall be organized and developed under the control of ILNAS, in line with the results of the yearly national standard analysis for the ICT sector, and in collaboration with ANEC:

- **ISO/IEC JTC1 national forum**

A communication platform dedicated to ICT standardization actors in Luxembourg has been implemented through the concept of “ISO/IEC JTC1 national forum”. It is composed of the chairpersons of the national mirror committees of the ISO/IEC JTC1 subcommittees and the delegates of ILNAS who are currently chairing ISO/IEC JTC1 at the national level. The forum normally meets on a quarterly basis.

The objectives of the ISO/IEC JTC1 national forum are:

- To follow the different topics of ISO/IEC JTC1: votes, comments, feedback from the ISO/IEC JTC1 plenary meetings;
- To facilitate information exchange between ILNAS and the chairpersons of the national mirror committees related to ISO/IEC JTC1 subcommittees;
- To promote communication and exchanges between the chairpersons of the national mirror committees related to ISO/IEC JTC1 subcommittees;
- To prepare the annual ISO/IEC JTC1 national day and the participation in the ISO/IEC JTC1 plenary meeting.

The ISO/IEC JTC1 national forum is led by the Digital trust department of ILNAS.


- **ISO/IEC JTC1 national day**

The ISO/IEC JTC1 national day is the yearly event aiming at informing the national market about current trends and developments of ICT standardization, and promoting ICT standardization in Luxembourg.

- **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 a specific economic sector to develop this standard. An *ad hoc* committee, called a “national chapter”, is thus established with representatives of this economic sector⁵. The committee’s purposes are to gather relevant input for the standard in progress and to provide to the editor regular feedback about its current work. This initiative naturally helps to take into account the point of view of the national stakeholders.

⁵ A first chapter was already opened in 2009, in the field of the ISO/IEC 27015 standard development about “ISMS guidance for financial services”. The representatives of the financial sector were linked with the editor of the standard, member of the ISO/IEC JTC1/SC27 national mirror committee.

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IV - Reinforcing the research and innovation activities related to ICT standardization

ILNAS aims to reinforce the research and innovation activities related to standardization in the field of ICT⁶.

From the ILNAS side, the reinforcement of research and innovation activities related to standardization in the field of ICT will be carried out by defining some new research projects with the different stakeholders at the national level.

In this frame, the different developments will also be directly linked with these two main projects defined in the *Luxembourg policy on Education about standardization – 2013-2020*⁷:

- II - Producing a basic tool: a continuous standards-training catalogue;
- III - Implementing a national flagship Master project in the field of standardization.

V - Representing national interests within European and International entities in the field of ICT technical standardization

ILNAS, in collaboration with ANEC, is strongly involved within the international committee ISO/IEC JTC1 in order to make it easier to transfer and develop, at national level, the relevant knowledge and useful good practices developed in this respect.

Since July 2012, the Grand Duchy of Luxembourg, *via* the Digital trust department of ILNAS, has been an "Observing Member" of the ISO/IEC JTC1, established in 1987 by an agreement between ISO and IEC. This allows ILNAS, which holds the national presidency of the ISO/IEC JTC1 committee, to access key information on all issues addressed by the committee, by monitoring votes, accessing various sub-committee documents and being able to participate in the annual plenary meeting of the committee. This facilitates an *ad hoc* transfer of knowledge for ILNAS at national level, where a "dynamic" of interests and involvement for several ISO/IEC JTC1 sub-committees is now in place.


Furthermore, at the European level, since January 2012, the Grand Duchy of Luxembourg, *via* the Digital trust department of ILNAS, is the national representative of the European multi-stakeholder platform on ICT standardization.

This platform is an Advisory Expert Group on all matters related to European ICT Standardization and its effective implementation. Its role is to:

- Advise the European Commission on its ICT Standardization work program;
- Identify potential future ICT Standardization needs;
- Advise the European Commission on possible standardization mandates;
- Advise the European Commission on technical specifications in the field of ICT with regard to its referencing in public procurement and policies;

⁶ As a first example, to contribute to the development of the digital economy while ensuring the quality and security of exchanges (digital trust is a key instrument in the service of national competitiveness) ILNAS and the Public Research Center (CRP) Henri Tudor conducted a joint research project called "NormaFI-IT" to analyze the field of digital trust from various perspectives. The outputs led to the publication of a White Paper entitled "Digital trust - Towards excellence in ICT" [http://www.ilnas.public.lu/fr/publications/confiance-numerique/etudes-nationales/ilnas-tudor-white-paper-digital-trust-june-2012-v1_0.pdf]. Regarding the different developments led through the policy on ICT technical standardization, ILNAS, in collaboration with ANEC, will currently update this White Paper.

⁷ <http://www.ilnas.public.lu/fr/publications/normalisation/etudes-nationales/luxembourg-policy-education-about-standardization-2013-2020.pdf>

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- Advise the European Commission on cooperation between standards developing organizations.

In this frame, ILNAS, in collaboration with ANEC, is the official national contact point dedicated to exchange information between the market and the European multi-stakeholder platform on ICT standardization.

Conclusion

The Luxembourg's policy on ICT technical standardization (2013-2020) should achieve:

- **The strengthening of the national ICT standardization community;**
- **The organization and development of the ICT technical standardization representation at national level;**
- **The increasing of the national representation within European and International entities in the field of ICT technical standardization;**
- **The provision of awareness raising on ICT standardization according to market-sector needs;**
- **The development of research activities in relation to ICT standardization, in the national interest.**