

Policy on ICT Technical Standardization (2026-2030)



INTRODUCTION

ILNAS, the National Standards Body, is in charge of carrying out the Luxembourg's standardization strategy 2024-2030, approved by the Minister of the Economy, SME, Energy and Tourism. The aforementioned document aims at ensuring the development of a unified technical standardization (hereinafter referred to under the generic term "standardization") culture, as well as to support the growth of various economic sectors in Luxembourg. In this frame, in furtherance of the above objective, the national development of research activity and related awareness raising are the strategy's keystone.

Within this framework, the national standardization strategy has notably targeted the Information and Communication Technology (ICT) sector as being of a particular interest for the Luxembourg's economy (alongside the "aerospace" and "construction" sectors and "sustainability" and "conformity" domains).

In line with the previous policy on ICT technical standardization (2022-2025), the objectives of this new policy aims at:

- ◆ **Identifying and following technical standardization activities related to the ICT sector;**
- ◆ **Promoting ICT technical standardization and strengthening national market involvement;**
- ◆ **Supporting and strengthening the education about standardization and the related research activities.**

I - IDENTIFYING AND FOLLOWING TECHNICAL STANDARDIZATION ACTIVITIES RELATED TO THE ICT SECTOR

A) Drawing up a national standards analysis for the ICT sector

A monitoring of standardization activities in the ICT sector (identification of related technical committees and review of existing and emerging standards) will be issued on a regular basis, with the support of the ANEC GIE (“*GIE Agence pour la Normalisation et l'Economie de la Connaissance*” – Standardization department).

Based on this exercise, a national standards analysis will be drafted and published twice a year, aiming at providing a global overview of standardization activities at international and European levels.

B) Following relevant technical committees

ILNAS, with the support of ANEC GIE, will monitor the interests of the national ICT community, notably based on the standards analysis outcomes. This activity will help the identification of the relevant international and/or European technical committees which may require particular attention by ILNAS and ANEC GIE and, in some cases, their direct involvement (e.g. ISO/IEC JTC 1). This activity will support knowledge transfer to national community and, for some technical committees, allow the promotion of national interests within standardization activities.

C) Following the standardization developments related to European policies and strategies

ILNAS, with the support of ANEC GIE, will follow the standardization activities related to European policies in the ICT field (standardization request, harmonised standards), especially those related to conformity, which can be of particular importance for national stakeholders.

ILNAS could also take part in strategic groups related to standardization, especially at European level (e.g. High Level Forum on European Standardisation, Committee on Standards), supporting the national interests for the ICT sector.

II - PROMOTING ICT TECHNICAL STANDARDIZATION AND STRENGTHENING NATIONAL MARKET INVOLVEMENT

A) Promoting the use of standards and the participation of the national market in technical standardization activities

Identifying and monitoring standardization activities in the ICT field will, on the one hand, facilitate the promotion of national participation to technical committee, and, on the other hand, encourage the use of technical standards by the national ICT community. In this frame, ILNAS, with the support of ANEC GIE, will execute several actions:

- Promote the implementation of relevant standards (free consultation of the ILNAS standards catalog on reading stations, standards watch, etc.);
- Develop communication materials (report, technical sheet, articles, etc.) to keep the national market informed about the relevant standardization developments;
- Organize events to promote participation in technical standardization committees and the implementation of relevant standards in the ICT sector;
- Meet and raise the awareness of the national stakeholders of the ICT sector.

B) Supporting the national participation to standardization activities

The active involvement in relevant technical committees by ILNAS, with the support of ANEC GIE, will allow a transfer of standardization knowledge to the national market, aiming to promote the participation of national stakeholders in these specific committees, as well as to enhance the use of technical standards in the ICT sector. Furthermore, ILNAS, as responsible for the participation of national stakeholders to European and national technical committees, with the support of ANEC GIE, will carry out several actions (e.g.: webinars, information sessions, secretariat support, etc.), aiming at supporting and federating the national community of standardization experts involved in national mirror committees and national standardization commissions related to the ICT sector.

C) Create transversal links with other sectors and domains identified by the national standardization strategy

Common development opportunities with standardization activities of other growth sectors and relevant domains listed within the national standardization strategy 2024-2030 will be explored. For instance, topics, such as “Building Information Modelling” (BIM) linked to the construction sector, or “Green ICT” linked to the sustainability domain, could be developed, and relevant information could be shared with national stakeholders.

These activities will provide relevant domain related and sectoral information to the national stakeholders active in the ICT sector, in order to offer them the possibility to identify new business opportunities and develop new markets.

III - SUPPORTING AND STRENGTHENING THE EDUCATION ABOUT STANDARDIZATION AND THE RELATED RESEARCH ACTIVITIES

A) Developing new education about standardization and research activities in the ICT field

In line with the ILNAS' policy for education and research in the frame of technical standardization (2025-2030), several activities will be conducted to reinforce the research and innovation activities related to ICT technical standardization, notably by defining and carrying out new research and education projects.

In this frame, the different developments could be:

- Analysis of the current research trends and outlooks related to the ICT sector;
- Support of doctoral students (in collaboration with the University of Luxembourg), working on ICT research projects including standardization aspects;
- The publication of white papers and / or other research publications on technical standardization in the ICT field;
- Evaluate the possibilities to integrate educational content on ICT technical standardization into educational programs or creating new educational programs dedicated to ICT technical standardization.

B) Managing the Master “Technopreneurship: mastering smart ICT, standardization and digital trust for enabling next generation of ICT solutions”

ILNAS, in collaboration with the University of Luxembourg and the Chamber of Employees (CSL), has developed the Master degree “Technopreneurship: mastering smart ICT, standardization and digital trust for enabling next generation of ICT solutions” (<https://mtech.uni.lu/>).

ILNAS is directly involved in the implementation of the Master and is responsible for different activities, including the relationship with lecturers teaching standardization aspects (international researchers and industrialists active in international and European standardization committees).

IV - POLICY IMPLEMENTATION AND FOLLOW-UP

ILNAS ensures the implementation of this policy, especially in the context of its quality management system (ISO 9001).

In addition, a dedicated national execution plan for ICT technical standardization, will be set up by ANEC GIE, under the supervision of ILNAS, in order to monitor the activities realized by the GIE in the frame of this policy.

CONCLUSION

The Luxembourg's policy on ICT technical standardization (2026-2030) should enable to:

- ◆ Strengthen the national ICT standardization community.
- ◆ Organize and develop the ICT technical standardization representation at national level.
- ◆ Increase the national representation within European and international entities in the field of ICT technical standardization.
- ◆ Foster the use of relevant standards in business activities for the benefit of the national market.
- ◆ Contribute to raising awareness on ICT standardization according to market-sector needs.
- ◆ Develop research and education activities in relation to ICT standardization, considered as being of national interest.

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