ILNAS





ILNAS-NSB commitment, missions and the National Standardization Strategy (Standards Analysis - ICT Sector focus)

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I) ILNAS, ANEC and Standardization activities in Luxembourg

II) Luxembourg Standardization Strategy 2014-2020

III) Policy on ICT technical standardization

IV) Standards Analysis - ICT Sector focus







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ILNAS: Luxembourg Institute for Standardization, Accreditation, Safety and Quality of goods and services



- Creation
 - Law dated May 20th, 2008
 - Grouping of various technical and administrative missions
- Legal Status
 - Public administration under the authority of the Minister of the Economy
- Staff
 - 35 civil servants (March 2014)





ILNAS: Luxembourg Institute for Standardization, Accreditation, Safety and Quality of goods and services



Missions

- Maintain the national database of more than 92.000 normative documents
- Organize education and training courses about standardization
- Publish and implement European and national standards
- Develop partnerships with academia and research
- Manage the National Mirror Committees



Services

- Participation in technical standardization committees, free of charge
- Selling standards (e-shop https://ilnas.services-publics.lu)
- Free consultation of standards at the ILNAS offices
- Mentoring and training of new delegates in standardization
- Carrying out studies on standardization activities in important economic sectors
- Organizing standardization for adedicated to specific economic sectors



ANEC: Agency for Standardization and knowledge-based Economy



- Date of creation
 - October 4th,2010
- Legal Status
 - Economic Interest Grouping (EIG)
- Staff
 - 20 employees (March 2014)
- Partners













ANEC: Agency for Standardization and knowledge-based Economy



Missions

- Develop a standardization culture in Luxembourg
- Effectively develop standards-related education at a national level
- Guarantee sector-based standards-related development in line with market requirements
- Develop applied research activities in line with standardization
- Propose standards-related products and services in line with national economic requirements

Products and services

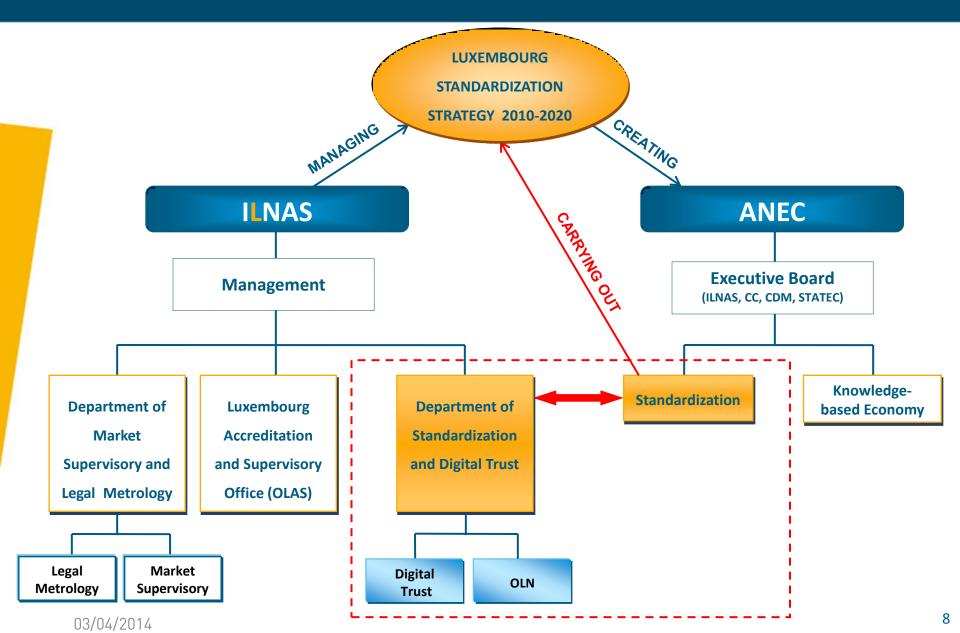
- Standardization diagnostic of an economic entity
- Measurement of the economic benefit of standardization
- Creation of standards-related policies for businesses
- Development of training on request
- Applied standards-related monitoring for businesses
- Support for businesses in research projects





ILNAS & ANEC











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Three Pillars

PILLAR 1 Information and communication technologies (ICT)

PILLAR 2 National influence and compliance with legal attributions

PILLAR 3 Products and services





PILLAR 1 Information and communication technologies (ICT)

- Support and constant development of the standardization field dedicated to ICT
- Implementation of the Luxembourg Policy on ICT standardization (2013-2020)
- Detection of niche opportunities for economic developments





PILLAR 2 National influence and compliance with legal attributions

- Support to the influence of Luxembourg within European and international standards organizations
- Active contribution to respect legal attributions in terms of European standardization
- Detection of opportunities for the national economic market





PILLAR 3

Products and services

- Support in terms of implementation of current products and services in the field of standardization
 - Diagnostic
 - Awareness and training sessions
 - Specific watch
 - Sector-based analysis
- Mainly on request from the national economic market





Summary





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Policy on ICT technical standardization



Five lead projects

- Developing yearly the national standards analysis for the ICT sector
- Defining a national implementation plan for ICT technical standardization
- 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



Policy on ICT technical standardization



Objectives

- Strengthening of the national ICT standardization community
- Organization and development of the ICT technical standardization representation at the national level
- Increasing of the national representation within European and International entities in the field of ICT technical standardization
- Provision of awareness raising on ICT standardization according to market-sector needs
- Development of research activities in relation to ICT standardization, in the national interest

Summary





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Main objectives of the ICT standards analysis



INFORM

about standardization developments in the ICT sector

IDENTIFY

potential interests
& opportunities
for the national
market

ENCOURAGE

the involvement in the standardization process

DEVELOP

"standardsrelated" skills and collaborations

For the benefit of all national stakeholders



Main steps of the ICT standards analysis



1. Conducting a standards watch

2. Identification of the national stakeholders 3. Links between stakeholders and standards watch results 4. Focus on ICT
fora/consortia and on
ICT and economic
intersectoral
approach

5. Identification of opportunities for the national market



ICT subsectors and related technical committees



CLOUD COMPUTING

•ISO/IEC JTC 1/SC 38

Distributed application platforms and services Cloud Computing

•ETSI/TC CLOUD

DATA CENTER

•ISO/IEC JTC 1/SC 39

•CLC/TC 215

Sustainability for and by Information Technology

Electrotechnical aspects of telecommunication equipment

TELECOMMUNICATION

•ISO/IEC JTC 1/SC 6

•ISO/IEC JTC 1/SC 25

•ITU-T

•CEN/TC PC 365

•ETSI

Telecommunication and information exchange between systems

Interconnection of information technology equipment

International Telecommunication Union

Internet Filtering

European Telecommunications Standards Institute

SECURITY

•ISO/IEC JTC 1/SC 27

IT Security techniques

•ISO/IEC JTC 1/SC 37

Biometrics

SOFTWARE AND SYSTEM ENGINEERING

•ISO/IEC JTC 1/SC 7

•ISO/IEC JTC 1/SC 22

•ISO/IEC JTC 1/SC 29

Software and systems engineering

Programming languages, their environments and system software interfaces

Coding of audio, picture, multimedia and hypermedia information



ICT subsectors and related technical committees



DATA MANAGEMENT	•ISO/IEC JTC 1/SC 23 •ISO/IEC JTC 1/SC 24 •ISO/IEC JTC 1/SC 31 •ISO/IEC JTC 1/SC 32 •ISO/IEC JTC 1/SC 34	Coded Character Sets Digitally Recorded Media for Information Interchange and Storage Computer graphics, image processing and environmental data representation Automatic identification and data capture techniques Data management and interchange Document description and processing languages AIDC Technologies			
ELECTRONIC SIGNATURE	•ISO/IEC JTC 1/SC 17 •ISO/IEC JTC 1/SC 27/SG-PKI •CEN/TC 224 •ETSI/TC ESI	Cards and personal identification Study Group on Framework for PKI Policy / Practices / Audit Personal Identification, Electronic Signature and Cards Electronic Signatures and Infrastructures			
E-ARCHIVING	•ISO/TC 46	Information and documentation			
SENSOR NETWORKS	•ISO/IEC JTC 1/WG 7	Sensor networks			
GOVERNANCE OF IT	•IS0/IEC JTC 1/SC 40	IT Service Management and IT Governance			







Presentation of the results using identification ID-cards for each standardization technical committee

ISO/IEC JTC 1/SC 38 Distributed application platforms and services

General information										
Committee	ISO/IEC JTC 1/SC 38	Title	Distributed application platforms and services							
Creation date	2009		Participating Countries (26):							
Secretariat	ANSI (USA)		USA, Australia, Austria, Brazil, Canada, China, Denmark, Finland, France, Germany, India, Ireland,							
Secretary	Mrs. Marisa Peacock		Italy, Japan, Republic of Korea, Luxembourg,							
Chairperson	Dr. Donald Deutsch	MEMBERS	Netherlands, Poland, Portugal, Russian Federation, Singapore, South Africa, Spain, Sweden, Switzerland,							
Involvement of Luxembourg	3 national delegates (Mr. Jügen Blum, Mrs. Myriam Djerouni Mr. Jean-Michel Remiche)		United Kingdom Observing Countries (8): Belgium, Bosnia and Herzegovina, Czech Republic, Hong Kong, New Zealand, Norway, Serbia, Uruguay							
Organizations in liaison	DMTF, INLAC, ITU, OASIS, OGF, SNIA		g,g,							
Web site	http://www.iso.org/iso/home/standards development/list of iso technical committees/iso technical committee.htm?commid=6 01355									



ID-Cards



Scope	Standardization for interoperable Distributed Application Platform and Services including: - Web Services; - Services Oriented Architecture (SOA); - Cloud Computing					
Structure	JTC 1/SC 38/WG 1 Web Services JTC 1/SC 38/WG 2 Services Oriented Architecture (SOA) JTC 1/SC 38/WG 3 Cloud Computing					
	Standardization work					
Published standards	Number of published ISO standards under the direct responsibility of JTC 1/SC 38 (number including updates): 4					
Standards under development	6					
Commonto						

Comments

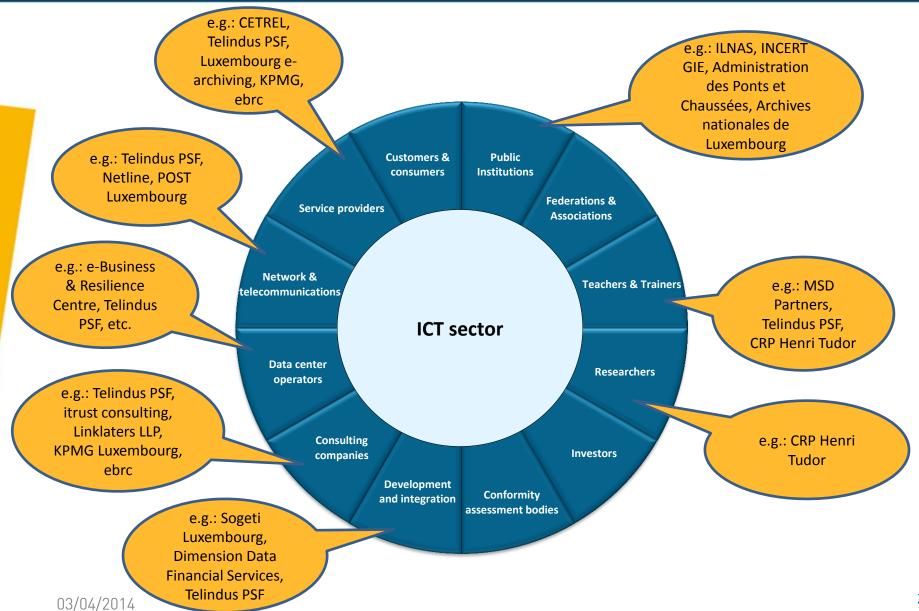
The current work program includes:

- ISO/IEC DIS 17788, Information technology -- Distributed application platforms and services -- Cloud computing -- Overview and Vocabulary
- ISO/IEC DIS 17789, Information Technology -- Cloud Computing -- Reference Architecture
- ISO/IEC NP 19086, Information Technology -- Distributed application platforms and services -- Cloud computing -- Service Level Agreement (SLA) Framework and Terminology



Overview of the national stakeholders ANEC of the ICT sector







Establishing connections between stakeholders and subsectors



To provide links between the stakeholder categories and the ICT subsectors as they were defined in the initial stage of the standards watch

Potential interests

Details of the different potential interests

♦Information:

☼ Learn about standards developments

■ Performance:

♦ Increase performance (networking/benchmarking)

❖ Services:

♥ Develop new services

☐ Projects:

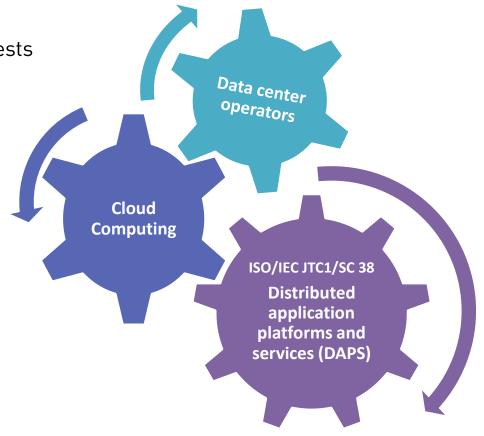
♥ Follow or participate in research projects

• Training:

♥ Update or develop training sessions

\$ Investments:

♦ Invest in a new technology





Potential interests for stakeholders



Results are presented through a specific matrix for each stakeholder category (as presented below)

Network and telecommunications	Information	Performance	Services	Projects	Training	Investments
Cloud Computing	X		X			X
Data Center	Х	X	Χ	X		
Telecommunications	X	X	X	Х		X
Security	X	X		X		
Software and System Engineering	х	Х		Х		
Data Management						
Electronic Signature						
E-archiving	Х	X	Χ	X		
Sensor Networks	X	X	X	X		X
Governance of IT	X	X				



Focus on ICT fora/consortia



 Much of the key standardization activity in ICT is carried out by industry consortia rather than in formal standards organization

Survey of fora/consortia considered as the most relevant for the current national

market

14 fora/consortia selected:

■ITU-T ■OMG

IETF OGF

W3C TOG

■IEEE-SA ■SNIA

DMTF TCG

Ecma International
UPnP Forum

OASIS OGC





ICT and economic intersectoral approach



- ISO/IEC JTC 1
 - CEN/TC 353
- CEN/TC 224
- CEN/TC Project
- CEN/TC 225
- Committee 365
- CEN/TC 247
- CEN/TC Project
- CEN/TC 251
- Committee 428
- CEN/TC 278
- CLC/TC 215
- CEN/TC 287
- ITU-T
- CEN/TC 294
- ETSI
- CEN/TC 310

Energy Sector

- IEC/SG 3 Strategic Group on Smart Grid
- CEN/CENELEC/ETSI JWG Smart Grids

- ISO/TC 171 Document management applications
- ISO/TC 46 Information and documentation

Archiving Sector

ICT Sector Biomedical Sector

- ISO/TC 215
- ISO/TC 276
- ITU-T/SG 16
- CEN/TC 251
- ETSI/eHEALTH

- ITU-T/SG 13
- ITU-T/SG 16
- ISO/IEC JTC 1/SC 2
- ISO/IEC JTC 1/SC 23
- ISO/IEC JTC 1/SC 24
- ISO/IEC JTC 1/SC 27
- ISO/IEC JTC 1/SC 29

Space Sector

Other Sectors

- Financial services (ISO/TC 68,etc.)
- Automotive sector (ISO/TC 184, ISO/TC 22, etc.)
- Railway sector (CLC/TC 9X, etc.)
- Etc.



Opportunities for the national market



- Opportunities identified for the national market
 - Participation in the ISO/IEC JTC1 national forum: an information network about ICT standardization
 - Particular involvement of national delegates (editor of European or International standards, chairman of a national mirror committee)
 - Following of the standardization work performed in ICT fora/consortia
 - Involvement at the strategic level of ICT standardization
 - Benefit from the support offer by the national standards body
 - Profit from services in relation to standards evolutions
 - Participate in research projects involving standardization
 - Benefit from the existing training offers for the sector
 - Improve the image of Luxembourg in the standardization landscape

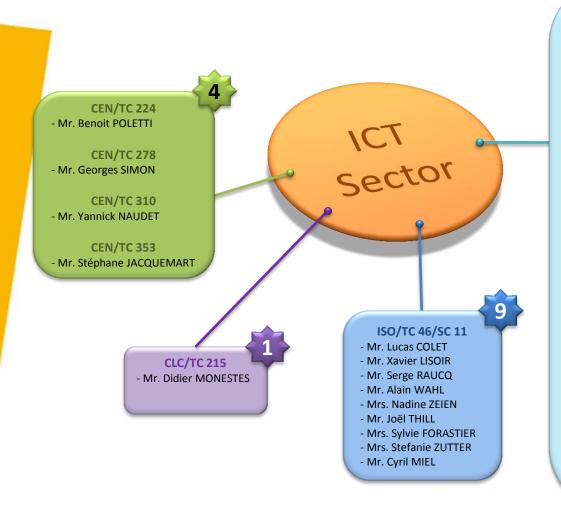


Overview of the national standardization delegates of the ICT sector



At the national level, the ICT sector is already an active standardization sector with

currently 52 national delegates



ISO/IEC JTC 1

- Mr. Jean-Philippe HUMBERT
- Mr. Nicolas DOMENJOUD

ISO/IEC JTC 1/SC 6

- Mr. Pierre-Emmanuel LE LAY

ISO/IEC JTC 1/SC 7

- Mrs. Béatrix BARAFORT
- Mr. Alain RENAULT
- Mr. Stéphane CORTINA
- Mr. Christophe FELTUS
- Ms. Séverine MIGNON
- Mr. Michel PICARD
- Mr. Fabian HEUSKIN
- Mr. Rudolphe HILBERT
- Mr. Daniel MARNACH
- Mrs. Jeanette EWEN
- Mr. Dietmar GEHRING

ISO/IEC JTC 1/SC 17

- Mr. Benoit POLETTI

ISO/IEC JTC 1/SC 27

- Mr. Cédric MAUNY
- Mr. Jérémy THIMONT
- Mr. Sébastien POGGI
- Mr. Nicolas MAYER
- Mr. Hervé CHOLEZ
- Mr. Olivier ANTOINE
- Mrs. Bérengère BROUTIN
- Mr. Christophe ADJONIK
- Mr. Carlo HARPES
- Mr. Matthieu AUBIGNY
- Mr. Daniel MARNACH

- Mr. Benoit POLETTI
- Mrs. Myriam DJEROUNI
- Mr. Pierre DEWEZ
- Mr. René SAINT-GERMAIN
- Mr. Olivier MONTEE
- Mr. Michael HOFMANN
- Mr. Nicolas DOMENJOUD

ISO/IEC JTC 1/SC 36

- Mr. Stéphane JACQUEMART
- Mrs. Hélène MAYER
- Mr. Patrick PLICHART
- Mrs. Valérie MAURER
- Mr. Philippe PELLETIER
- Mrs. Marie-Rose DECKER
- Mrs. Julie BONNOT

ISO/IEC JTC 1/SC 38

- Mr. Jürgen BLUM
- Mrs. Myriam DJEROUNI
- Mr. Jean-Michel REMICHE

ISO/IEC JTC 1/SC 39

- Mr. Didier MONESTES

ISO/IEC JTC 1/SC 40

- Mr. Hervé PETER
- Mr. Christophe FELTUS
- Mrs. Béatrix BARAFORT
- Mr. Stéphane CORTINA
- Mr. Alain RENAULT
- Mr. Michel PICARD
- Mr. Rudolphe HILBERT
- Mr. Jean-Michel REMICHE

41





Thank you for your attention



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