INDIA

SESEI
Newsletter

SECONDED EUROPEAN STANDARDIZATION EXPERT IN INDIA

cen European Committee for Standardization	CENELEC European Committee for Electro Technical Standardization	ETSI European Telecommunications Standards Institute	European Commission	EFTA European Free Trade Association

IN THIS ISSUE

Greeting from SESEI!

Dear Readers,

A very hearty welcome to all the readers of the SESEI Newsletter. It is with pleasure that we bring to you the thirteenth (13th) edition of the SESEI Newsletter – India, consisting of information and latest updates on emerging and new technologies and standardisation work done by the European Standards Organisations (ESOs) during the period of July to September 2022.

The two round of free trade agreement (FTA) between India and EU were held and we are hopeful that the engagements between the two sides are moving forward constructively and are extremely productive and beneficial for both India as well as EU. Similarly, heads of delegation from the EFTA States and India have also commenced discussions on the state of play and open pending issues in the negotiations towards a trade and economic partnership agreement.

Another important update this quarter has been the visit of BIS delegation to the EU to learn about the European Standardisation System (ESS) and the stakeholders involved in the formulation of standards, conformity assessment and accreditation. This study cum training visit was organized by SESEI expert under the ambit of the MoU signed between BIS and CEN-CENELEC promoting the exchange of information, knowledge and sharing of best practices, thereby fostering closer cooperation, and further strengthening their relationship.

A milestone step by European commission is the proposal for a regulation on cybersecurity requirements for products with digital elements, known as the Cyber Resilience Act. A first ever EU-wide legislation of its kind, it introduces mandatory cybersecurity requirements for products with digital elements, throughout their whole lifecycle. On this subject of Security, ETSI its flagship "Security Conference 2022" running over three days, debating EU and Global Cyber Security Regulation, Policy, Security Innovation and Standardisation.

Four eSignature validation Plugtests events were also organized by ETSI to ensure industry complied with the standards that are required by the EU regulation. ETSI has adopted the first O-RAN specification as ETSI TS 103 859, namely 'O-RAN Fronthaul Control, User and Synchronization Plane Specification v7.02'. A new report on the "IPv6-based Blockchain" was also released by ETSI outlining how IPv6 can be utilized by blockchain networks to secure direct peer-to-peer payments between end users, as well as the potential future role of IPv6 as vital infrastructure, supporting the blockchain.

The need for a harmonized terminology of device, service, and application features increases as new features and functionalities are being developed. An ETSI Guide EG 203 499, titled "User-centred terminology for existing and upcoming ICT devices, services and applications" was released recently.

A similar approach was also carried out by CEN through their newly published EN 17748-1 'Foundational Body of Knowledge for the ICT Profession (ICT BoK) - Part 1: Body of Knowledge'. EN 17748-1 specifies common knowledge applicable to all ICT Professionals and base knowledge related to specific areas of expertise.

Another important technical specification released by CEN is the CEN/TS 15531-5:2022 which allows to achieve a more efficient management of providing guidelines for the SIRI Situation Exchange service (SIRI-SX) for public transport. This service allows the efficient exchange of data about situations consisting of actual or potential perturbations to the normal operation of a transport network. This CEN Technical Specification contributes to Sustainable Development Goal 11- Sustainable cities and communities. It also supports the European Commission's Digital Single Market Strategy, which, among other objectives, aims to achieve a more efficient management of the transport network.

Standards are most vital to support the sustainable development goals and the ambitious goals of green deal/economy. To support the European Commission in its endeavor to support the circular economy, it notified CEN-CENELEC through the Standardization Request to revise 11 European Standards, as well as to develop around 45 new deliverables on quality grades for plastics. CEN-CENELEC has welcomed the Sustainable Products Initiative by the Commission as being instrumental to achieve the EU Green Deal and the UN Sustainable Development Goals (SDGs).

The newsletter will provide you with host of information about new standards, policies and work done. We have also provided information on the new and upcoming events in which you can participate online / hybrid).

With hope that you will find this newsletter informative, we wish you happy reading.
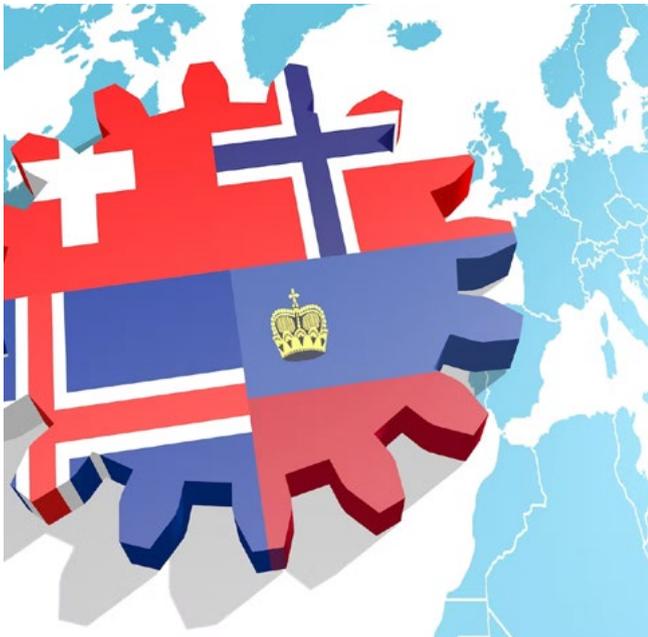
Warm Regards,
Dinesh Chand Sharma

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Enabling Europe-India Cooperation on Standards

Bureau of Indian Standards (BIS) visits EFTA

On 29 June, EFTA House received a delegation of around 20 persons from BIS, the Bureau of Indian Standards. The BIS delegation visited Europe to learn about the European Standardisation System and the main actors in that system: the three European Standardisation Organisations (ESOs) CEN, CENELEC, and ETSI, the European Commission, EFTA, national standardisation and accreditation bodies, and representation of SMEs and societal stakeholders in standardisation. The Seconded European Standardisation Expert in India (SESEI), an expert position funded by the EC, EFTA and the ESOs, organised the visit.

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EFTA States and India Heads of delegation meet to take stock of the negotiation process

Heads of delegation from the EFTA States and India met via videoconference to discuss the state of play and open issues in the negotiations towards a trade and economic partnership agreement, which started in 2008. Ambassador Markus Schlagenhof, Delegate of the Federal Council for Trade Agreements and head of the World Trade Division at the Swiss State Secretariat for Economic Affairs, acted as the EFTA spokesperson while Ms Nidhi Mani Tripathi, Joint Secretary at the Indian Ministry of Commerce and Industry, headed India's delegation.

Bilateral trade between EFTA and India amounted to over USD 5 billion in 2021. Read more about merchandise trade between EFTA and India here.

Read more

ETSI releases 1st O-RAN specification

ETSI and O-RAN has announced that ETSI has adopted the first O-RAN specification as ETSI TS 103 859, namely 'O-RAN Fronthaul Control, User and Synchronization Plane Specification v7.02'. The document focuses on Open Fronthaul, one of the interfaces in the O-RAN Architecture for open and intelligent Radio Access Networks. It specifies the control plane, user plane and synchronization plane protocols used over the fronthaul interface linking the O-DU (O-RAN Distributed Unit) and the O-RU (O-RAN Radio Unit) for the lower layer functional splits. The scope of TS 103 859 includes both LTE and NR (5G).

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Cybersecurity: European Commission Adopts Proposal for Cyber Resilience Act

On September 15, the EU Commission published a proposal for a Cyber Resilience Act (Proposed CRA), which builds on the 2020 EU Cybersecurity Strategy and the 2020 EU Security Union Strategy, with the aim to protect consumers and businesses from products with inadequate security features. The proposed CRA introduces mandatory cybersecurity requirements for products with digital elements, throughout their whole lifecycle. The Commission's proposal for the CRA will now be examined by the European Parliament and the Council. If adopted, EU member states and companies will have two years to transpose the regulation into national law.

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ETSI encrypted traffic integration group extends term to work on cryptographic and key management models

ETSI has recently extended the term of its Industry Specification Group Encrypted Traffic Integration (ISG ETI) for a two-year period through to mid-2024 to work

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on specific cryptographic and key management models. As it prepares for the new term, the group has adopted a new work item issuing guidance on the implementation of the EU Council Resolution on "Encryption: Security through encryption and security despite encryption" and will finalize the report for publication in Q3 of 2022. This shall be followed up by direct support from the group for the ETSI CYBER technical committee on aspects of encryption for the NIS2 directive.

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ETSI releases new report on IPV6-based Blockchain

ETSI released ETSI GR IPE 012, a new IPv6 Enhanced innovation (IPE) Group Report "IPv6-based Blockchain". In this report, the model for peer-to-peer blockchain payments is revisited in the context of modern Internet protocols, such as Domain Name System Security Extensions (DNSSEC) and IPv6. An outline is provided, examining how direct online payments could be reintroduced into the blockchain ecosystem by leveraging these secure modern technologies. In particular, the report outlines key management strategies that can be used to link IPv6 addresses with blockchain payments, facilitating both online and offline exchanges of value.

Read more

oneM2M – The Global Partnership Project for developing open standards for interoperable IoT systems- completes 10 years

Seven leading standards bodies from across the world – ARIB (Japan), ATIS (Americas), CCSA (China), ETSI (Europe), TIA (Americas), TTA (S. Korea) and TTC (Japan), came together to launch oneM2M – a global partnership initiative to develop a global standard for interoperable and scalable Internet of Things (IoT) systems. TSDSI (India) joined the initiative in 2015.

In the last 10 years of oneM2M's existence, over 200 member organisations have contributed to defining a technical framework to support end-to-end IoT systems, applications, and services. The resulting technical standards have been developed in an open and collaborative environment, with a clear governance framework. In order to foster a global and scalable IoT market, all oneM2M Technical Specifications and Reports are accessible in the public domain at no charge.

Read more

ETSI e-signature testing event helps industry to comply with EU regulation

With the eIDAS Regulation, European Union Member States have put in place the necessary technical means to process electronically signed documents that are required when using an online service offered by, or on behalf of, a public sector body. In order to ensure that the cross-border dimension works in practice, testing needs to be done to mutually check Member States' signatures against their existing digital signature validation applications.

The interoperability testing allowed participants to test their digital signature validation tools and to cross-validate the ETSI electronic signatures/seals relying on EU Member States' trusted lists (based on ETSI TS 119 612 and ETSI TS 119 615), and according to the following standards, developed by the ETSI Technical Committee on Electronic Signatures and Infrastructures:

EN 319 102-1: Procedures for Creation and Validation of AdES Digital Signatures; Part 1: Creation and Validation

ETSI TS 119 102-2: Procedures for Creation and Validation of AdES Digital Signatures; Part 2: Signature Validation Report

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ETSI TS 119 172-4: Signature Validation Policy for European Qualified Electronic Signatures/Seals Using Trusted Lists

The testing covered the validation of the five main digital signature formats (XAdES, CAdES, PAdES, ASiC and, for the first time, JAdES). Over 37,000 tests were run, validating more than 1,000 different signatures.

Read more

ETSI simplifies ICT end-users lives with a guide available in 19 EU languages

ETSI has announced the new version of the ETSI Guide EG 203 499, titled "User-centred terminology for existing and upcoming ICT devices, services and applications", developed by experts from the Human Factors Technical Committee. The guide aims to further simplify end-user access to ICT devices, services and applications by providing recommended terms for basic and commonly used ICT-related objects and activities, notably the terms that end users are commonly exposed to. ETSI EG 203 499 covers more than 800 terms from a range of functional areas including accessibility, telephony, photography, and navigation.

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CEN published EN 17748-1 'Foundational Body of Knowledge for the ICT profession'

CEN/TC 428 'ICT Professionalism and digital competences' has published new EN 17748-1 'Foundational Body of Knowledge for the ICT Profession (ICT BoK) - Part 1: Body of Knowledge', together with CEN/TR 17748-2 'User Guide and Methodology'.

EN 17748-1 specifies common knowledge applicable to all ICT Professionals and base knowledge related to specific areas of expertise. These two knowledge levels are complemented by further references to reliable sources of in-depth specialised knowledge. The standard is published as a stand-alone document, providing a holistic and comprehensive overview of knowledge required by ICT professionals. In addition, this standard is complementary and compatible to both EN 16234-1 'e-Competence Framework (e-CF) European standard for ICT professional competence' and related 'CWA 16458-1 European ICT Professional Role Profiles'.

Read more

A new Technical Specification allows to achieve a more efficient management of public transport networks

CEN/TC 278 WG 3 - 'Public Transport' has developed a new technical specification CEN/TS 15531-5:2022 which contributes to the spreading of ITS in public transport and focusses on 'Public transport - Service interface for real-time information relating to public transport operations - Part 5: Functional service interfaces situation exchange: Situation exchange'. This new TS provides guidelines for the SIRI Situation Exchange service (SIRI-SX) for public transport. This service allows the efficient exchange of data about situations consisting of actual or potential perturbations to the normal operation of a transport network.

This CEN Technical Specification contributes to Sustainable Development Goal 11- Sustainable cities and communities. It also supports the European Commission's Digital Single Market Strategy, which, among other objectives, aims to achieve a more efficient management of the transport network.

Read more

EN 50388-1:2022: A new important step to manage electrical compatibility in railways

CENELEC Technical Committee CLC/TC 9X 'Electrical and electronic applications for railways' has published EN 50388-1:2022 'Railway Applications - Fixed installations and rolling stock - Technical criteria for the coordination between electric traction power supply systems and rolling stock to achieve interoperability - Part 1: General' in support of Directive (EU) 2016/797 on the interoperability of the rail system within the European Union. The EN 50388-1:2022 establishes requirements for the electrical aspects to achieve technical compatibility between rolling stock and electric traction systems.

This standard covers several electric traction systems in its scope: railways; guided mass transport systems integrated with railways; and material transport systems integrated with railways. Basic considerations have also been included concerning the use of accumulator trains.

Read more

The new CEN Technical Report for the use of simulations is contributing to the development of the railways of the future

CEN/TC 256 'Railways applications' in close collaboration with CENELEC Rail experts (CENELEC/ TC 9X) has developed the new CEN/TR 17833:2022 which provides guidance for the use of simulations to demonstrate compliance with technical and regulatory requirements as well as the introduction and development of simulation requirements into standards.

The aim of this document is to help CEN and CENELEC Working Group convenors and experts to develop simulations in their standards as an alternative to physical tests for proving conformity. It can also provide useful guidance to assessors in the railway sector in approving simulations where they are not yet specifically defined or where physical tests on the real system are not defined in standards. Consequently, CEN/TR 17833:2022 is also relevant to companies developing and applying simulations with the intention to achieve system validation.

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European Standards support the European Strategy for Plastics in a Circular Economy

The European Commission notified to CEN and CENELEC the new Standardization Request on plastics recycling and recycled plastics, in support of the European Strategy for Plastics in a Circular Economy. One of the main goals of the EU Strategy for Plastics in a Circular Economy is to facilitate a greater presence of recycled content in plastic products. To reach this goal, the Strategy calls for a series of actions: among them, a stronger focus on design-for-recycling for plastic products and on the quality of plastic waste and recyclates.

The European Commission addresses this need through the Standardization Request. The document mandates CEN and CENELEC to revise 11 European Standards, as well as to develop around 45 new deliverables on quality grades for sorted plastic waste, characterisation of recyclates, and design-for-recycling guidelines for a wide range of products used in different applications – such as packaging, construction, electronic and electrical equipment, road vehicles, and agriculture.

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8th Environment Action Programme: EU sets out to measure progress on Green Deal environment and climate goals

The Commission presented a list of headline indicators for monitoring progress towards the EU's environment and climate goals to 2030, as well as the 2050 long-term vision to 'live well, within planetary boundaries'. Resulting from intense consultations with stakeholders and Member States, the new Monitoring Framework under the 8th Environment Action Programme aims to foster transparency and inform Europeans about the impact of EU climate and environmental policy. The headline indicators follow the structure of the 8th Environment Action Programme building on the European Green Deal and include the 2-3 most policy relevant and statistically robust indicators for each of the thematic priority objectives to 2030, covering climate mitigation, climate adaptation, circular economy, zero pollution, and biodiversity.

Read more

CEN and CENELEC's response to the EC consultation on a Sustainable Products Initiative

In 2020, the European Commission launched the Sustainable Products Initiative. At its heart is the revision of the Directive 2009/125/EC on Ecodesign requirements for energy-related products to become

a Regulation of the Ecodesign on sustainable products (ESPR), entails sustainability requirements as one of the means to achieve the European Green Deal, and Circular Economy Action Plan. This new proposal by the European Commission supports the achievement of the European Green Deal and fosters the transition to a more Circular model that is in line with the standardization work conducted up to now in Europe.

CEN and CENELEC are committed to contributing to the new Regulation's implementation. The full text of CEN and CENELEC's response can be found here.

Read more

New ECOS Position Paper – Ecodesign for intermediate products: essential ingredients for a more sustainable economy

ECOS calls on policymakers from the European Commission, Parliament, and Council to ensure the ESPR greens the supply of intermediate products. It is crucial to reduce the embodied impacts of intermediates to help make sustainable products the norm. Intermediate products are unfinished goods made from steel, cement and chemicals that require further manufacturing or transformation. They are produced by energy-intensive industries and used in almost all sectors – including construction and automotive.

Based on the success of the Ecodesign Directive, applying the Ecodesign for Sustainable Products Regulation (ESPR) to intermediate products is a unique opportunity to ensure we kickstart a deep industrial transformation and accelerate progress towards climate neutrality.

Read more

Draft CEN-CENELEC CWA on 'European Connected Factory Platform for Agile Manufacturing Interoperability (EFPFInterOp)'

The European, as well as the global, B2B platform landscape is characterized by a high proliferation and fragmentation of diverse solutions with few signs of consolidation. Success of a B2B platform economy requires commercial platforms to be collaborative, simple, scalable, secure, and trusted.

Draft CEN-CENELEC Workshop Agreement (CWA) on "EFPFInterOp" defines a reference architecture for federating manufacturing platforms focusing on the interoperability on Service-Oriented Architecture (SOA), Protocol, Security and Data Model level. Additionally, a reference implementation in the form of the EFPF Data Spine and associated components will be described including Best Practices identified.

Read more

CEN-CENELEC Workshop Agreement 'Zero defect in digital manufacturing technology'- Draft CWA open for public consultation

The application of Industry 4.0 technological advances along the production process chain is driving a substantial transformation of manufacturing quality management systems. The pervasive presence of sensors in products and processes and the widespread availability of technologies to integrate and transform these data into valuable insights enable the detection and prediction of manufacturing defects with great speed and prediction. These advancements make it possible to achieve unprecedented levels of manufacturing quality and enable the production of high-quality products in the most efficient way, i.e. achieve the zero defects manufacturing paradigm.

The main objective of this standardization activity is to establish the terminology and definition of concepts associated with digital manufacturing in the context of Industry 4.0, especially including concept of zero defects manufacturing, and to explain how these concepts relate to quality management initiatives.

Read more

Draft CEN CWA on 'Sustainable Nanomanufacturing Framework'

Draft CEN CWA on 'Sustainable Nanomanufacturing Framework' describes and specifies the requirements of a simplified Sustainability Nanomanufacturing Framework (SNF) for sustainability management in nanomanufacturing pilot lines (NPLs), appropriate to their size, management capabilities and sustainability priorities.

The SNF sets up the basic requirements for a screening methodology to quicky assess the sustainability of a NPL.

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It provides guidance for diagnosis, implementation, and monitoring, to proactively improve nano-sustainability performances in NPLs, considering its sustainability management and results. The model can be used by NPLs to achieve its intended outcomes in the field of nano-sustainability.

Read more

A new CEN standard ensures integrity and accountability in public procurement

CEN/TC 461 'Public Procurement' develops standards in the field of public procurement. Since its inception in 2019, the TC's main task has been the development of a new standard, EN 17687: 2022 'Public Procurement - Integrity and accountability - Requirements and guidance', which now has finally seen the light.

In particular, EN 17687 specifies requirements and guidance for buyer organizations, with regards to integrity and accountability throughout the whole public procurement process, from the identification of needs to the delivery of goods, services or work contracts.

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Whitepapers/Publications

On the spot - Issue 35 • July 2022

New issue of the CEN-CENELEC newsletter 'On The Spot' is out now!

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EFTA publishes Annual Report

EFTA's Annual Report, published July 2022, provides a comprehensive account of the organisation's activities in 2021.

Read more/download

ETSI white paper on Fixed 5th Generation Advanced and Beyond

The White Paper describes the drivers, dimensions, and technologies of the F5G advanced and beyond.

Read more/download

ETSI White paper on Multi-access edge computing security

The white paper focuses on MEC (Multi-access Edge Computing) technologies and explores security-related use cases and requirements with the aim of identifying aspects of security where the nature of edge computing results in insufficient industry approaches to cloud security.

Read more/download

The CEN and CENELEC Annual Report 2021 is out!

The annual report provides an overview of the relevant and diverse standardization activities that the CEN and CENELEC community implemented over the course of 2021, a challenging but successful year.

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Events Calendar 2022

7th MCX PLUGTESTS

When: 7-11 November 2022

Where: Malaga, Spain

ETSI is organizing, with the support of the European Commission (EC), the European Free Trade Association (EFTA), the Critical Communications Association (TCCA) and the Union Internationale des Chemins de fer (UIC), the seventh MCX PLUGTESTSTM.

Read more

ETSI STQ Workshop - Quality of Emerging Services for Speech and Audio: A user-centred perspective

When: 21-22 November 2022

Where: Bratislava, Slovakia

The ETSI Speech and multimedia Transmission Quality (STQ) Workshop on "Quality of Emerging Services for Speech and Audio: A user-centred perspective" will be of interest for Manufacturers, Research bodies, Platform providers, Regulators, Operators and Users.

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oneM2M Interop 8

When: 5-7 December 2022,

Where: Pangyo, South Korea

TTA and ETSI, two of the founding Partners of oneM2M Partnership Project, are pleased to organise the 8th oneM2M Interop event taking place from 5th to 7th of December 2022 in Pangyo, South Korea. The purpose of this event is to verify the primitive's interoperability as defined in the oneM2M standards and to check end-to-end functionality on oneM2M interfaces Mca and Mcc.

Read more

9th ETSI/IQC Quantum Safe Cryptography workshop

When: 13-15 February 2023

Where: Sophia Antipolis, France

The 9th ETSI/IQC Quantum Safe Cryptography workshop will bring together diverse participants in the quantum-safe cybersecurity community to facilitate the knowledge exchange and collaboration required to transition cyber infrastructures and business practices to make them safe in an era with quantum computers.

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About Project

SESEI | Seconded European
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Enabling Europe-India Cooperation on Standards

The SESEI project (Seconded European Standardization Expert in India) is a project co-funded by five European partners, operating from New Delhi, India, with the objective to increase the visibility of European standardization in India and to promote EU/EFTA-India cooperation on standards and related activities. The SESEI Project (http://sesei.eu/) is managed by the European Telecommunications Standards Institute (ETSI - http://www.etsi.org/ - EU recognized Standards Organization for Telecommunication sectors) and is further supported by two other EU recognized Standards Organization, namely the European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (CENELEC) – http://www.cencenelec.eu- which develop and adopt European standards in a wide range of products, services and processes, as well as by the European Commission (www.ec.europa.eu) and the European Free Trade Association (http://www.efta.int/). It is a Standardization focused project, with a priority emphasis on the sectors of ICT, Automotive, Electronic Appliances including Consumer Electronics and Smart Cities etc.

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