SESEI IV

Seconded European Standardization Expert in India

Newsletter

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CEN - European Committee for Standardization
CENELEC - European Committee for Electrotechnical Standardization
ETSI - European Telecommunications Standards Institute

EC - European Commission
EFTA - European Free Trade Association

In this Issue

Greeting from SESEI!!!

Dear Readers,

On behalf of Project SESEI and its stakeholders, I take this opportunity to wish you all a very Happy New Year 2020.

As per the Morgan & Stanley, Goldman Sachs, Year 2020 will bring positive trends in the global economic growth and a greater focus on trade & investments and creation of infrastructure in the developing economies will be seen. India is witnessing significant interest from international investors in the infrastructure space. This is also reflecting in the strong dialogue being built between India and Europe in all verticals and sectors. Strong partnership on Climate change, Energy efficiency, new and green technologies are being forged between India and the European countries.

In the second edition of our "SESEI Newsletter India", we have brought together information and updates on the new & emerging technologies and standards development activities being carried out in Europe around our project priority sectors. This exchange of updates and information form a core part of the Project SESEI objectives, ensuring that the stakeholders and partners are always fully abreast and aware of the important developments and standardization related information concerning priority sector covering ICT, Automotive, Electrical Equipment including Consumer Electronics, Smart Cities in Europe.

The other significant objective of Project SESEI is to propel harmony and synergies between the Indian and European standardization bodies to work together in areas of mutual interest. With this as an objective, CEN-CENELEC along with Bureau of Indian Standards (BIS) organized a two-day workshop in India on 26th & 27th November 2019, towards creating close working relationship and to understand the commonalities and gaps on standardization strategy and standards development process between India, Europe & Globally. The interactions between the stakeholders from both sides including representation from IEC/ISO were highly engaging and result oriented creating an active roadmap for CEN-CENELEC and BIS to follow-up.

CEN and CENELEC during this last quarter also organized a high-level one day Standards + Innovation Conference 'Boosting Innovation Through Standards' to exhibit how European standards contribute to the success of research and innovation activities.

The European Standards Organizations (ESOs) - ETSI, CEN and CENELEC are working together on the development of standards to support Circular Economy Action Plan of the European Commission. Globally due to the environmental impact that we are witnessing, circular economy paves the way for extending product lifetime, ability to reuse components or recycle materials from products at end-of-life, use of reused components, etc. These three ESOs, also jointly developed EN 301549:2019 'Accessibility requirements for ICT products and services'. This updated standard is used by public sector bodies procurements while ensuring that digital devices are more accessible – so that they can be used by persons with a wide range of disabilities. Both circular economy and ICT accessibility standards are very important for India as a country.

The European Commission (EC) is also effectively working towards implementation of cybersecurity across various sectors. EC published a report with key findings on how the EU cybersecurity rules under the Network Information Security (NIS) Directive are implemented in the crucial Energy sector, in particular in electricity, gas and oil areas.

The technical Committee of ETSI on Smart Card platform is working on the brand-new security platform called Smart Secure Platform (SSP) and has unveiled the first three technical specifications to launch this new security platform. This Platform will address the security sensitive sectors such as 5G and IoT, etc.

In the ICT domain, CEN - CENELEC launched a new Joint TC on Blockchain and Distributed Ledger Technologies (DLTs) which are among the most promising developments in ICT for sharing data and managing transactions in a decentralized, controlled manner.

ETSI's Open Source MANO group, which focuses on the management and orchestration of virtualised networks, has delivered its latest release, bringing cloud-native applications to network function virtualisation (NFV) deployments. The ETSI Open Source MANO group unveiled its latest release, OSM Release SEVEN. OSM Release SEVEN is at the forefront of edge and 5G operations technology, deploying and operating containerized network functions on Kubernetes. The ETSI Industry Specification Group (ISG) for Network Functions Virtualisation (NFV) has started working on its next specification release, known as Release 4 which addresses several new issues in the following technical areas: the evolution of the NFV framework to support the most recent cloud, software, and virtualization techniques.

Apart from the important news we have also provided details of the white papers released by our SESEI project partners and the important events and seminars that they will be organizing shortly. ETSI published a White Paper on Building Key Technologies for 5G, written by several of its Industry Specification Groups' (ISG) Chairs. These groups have released specifications on key building block technologies for next-generation networks, feeding the 3GPP 5G specifications.

CEN-CENELEC also published work programme 2020 which gives an overview of the main standardization developments and strategic priority areas CEN and CENELEC are ready to implement in 2020 across 14 business sectors.

I would like to conclude now with wishing you all a great and very productive year ahead.

Dinesh Chand Sharma
(Seconded European Standardization Expert in India)

Back to contents

First Joint BIS-CEN-CENELEC Workshop organized by the India Task Force

CEN and CENELEC Members have identified India as a key priority market. The objective of CEN and CENELEC is to cooperate more closely with the Bureau of Indian Standards (BIS) and other relevant Indian standardization bodies on various topics of mutual interest, in order to create synergies. As a first step towards creating a close working relationship with BIS and to understand the commonalities and gaps on standardization strategy and the standards development process, a two-day joint workshop was organised by BIS and CEN & CENELEC on 26th and 27th November 2019 in New Delhi, India. The workshop helped identify significant common areas of mutual interest between BIS and CEN & CENELEC, which will be explored further for collaboration between the two regions.

Read More>>

Back to contents

ETSI Open Source MANO unveils Release SEVEN, - enables more than 20,000 cloud-native applications for NFV environments

The ETSI Open Source MANO group unveiled its latest release, OSM Release SEVEN. This release brings cloud-native applications to NFV deployments, enabling OSM to on-board over 20,000 pre-existing production-ready Kubernetes applications, with no need of any translation or repackaging. OSM release SEVEN allows you to combine within the same Network Service the flexibility of cloud-native applications with the predictability of traditional virtual and physical network functions (VNFs and PNFs) and all the required advanced networking required to build complex end to end telecom services.

In addition, Release SEVEN extends OSM's SDN framework to support the next generation of SDN solutions providing higher level primitives, increasing the number of available options for supporting I/O-intensive applications. Furthermore, the plugin models for intra and inter-datacenter SDN have been consolidated, and the management, addition and maintenance of SDN plugins significantly simplified. Release SEVEN also brings major enhancements designed to improve the overall user experience and interoperability choices. This includes an improved workflow for VNF configuration which allows much faster and complex operations, and the support of additional types of infrastructures, such as Azure and VMware's vCD 10, etc……

Read More

Back to contents

New standard for ICT accessibility

CEN, CENELEC and ETSI, the three European Standardization Organizations (ESOs), jointly developed EN 301549:2019 'Accessibility requirements for ICT products and services'. The new standard is intended in particular for use by public authorities and other public sector bodies during procurement, to ensure that websites, software and digital devices are more accessible – so they can be used by persons with a wide range of disabilities.

EN 301549:2019 sets out the functional accessibility requirements that can be applied to all digital technology, including websites, software, electronic devices, and mobile apps. The aim is to ensure that ICT products and services are accessible either directly or through compatibility with assistive technologies such as text-to-speech, so that everyone can access information and use services that are being delivered electronically. The new standard is a revision of a previous version, published in 2018. It sets out the functional accessibility requirements that can be applied to all digital technology, including websites, software, electronic devices, and mobile apps.

Read more

Back to contents

European Standards, contributing to the implementation of Circular Economy

European Commission had published its Circular Economy Action Plan in 2015 and requested the three ESOs – CEN, CENELEC and ETSI - to develop standards to support Ecodesign requirements on material efficiency aspects for energy-related products, covering the following aspects: extending product lifetime, ability to reuse components or recycle materials from products at end-of-life, use of reused components and/or recycled materials in products. In this context, the CEN-CENELEC JTC 10 'Energy-related products - Material Efficiency Aspects for Ecodesign' (CEN-CLC/JTC 10) has published the following standards in 2019:

- EN 45555:2019 'General methods for assessing the recyclability and recoverability of energy-related products';
- EN 45556:2019 'General method for assessing the proportion of reused components in energy-related product'
- EN 45558:2019 'General method to declare the use of critical raw materials in energy-related products';
- EN 45559:2019 'Methods for providing information on material efficiency aspects of energy-related products'.

Read more

Back to contents

ETSI launches standardized security platform to address IoT, 5G, & security sectors

ETSI TC Smart Card Platform, that standardized the former generations of SIM cards, has been working on a brand-new security platform called Smart Secure Platform (SSP). The ETSI committee has unveiled the first three technical specifications to launch this new security platform.

The ETSI Smart Secure Platform offers an open platform for multiple applications with various physical interfaces and form factors. The new flexible file system and built-in capabilities support several authentication methods, as well as features defined for a UICC - the current security platform used, for instance, for the SIM card - such as a toolkit or a contactless interface. SSP is a highly secure, scalable, thus cost-efficient solution optimized to fit many requirements, from IoT applications to complex solutions, hosting several applications such as banking and payment, ID management and access to mobile networks. Furthermore, the SSP is backwards compatible to the UICC. The three specifications cover the general technical characteristics of the Smart Secure Platform with ETSI TS 103 666-1, the integration of the Secure Element into a System on Chip (SoC) solution in ETSI TS 103 666-2 and, as the first protocol between the Smart Secure Platform and the outside world, the Serial Peripheral Interface (SPI) which is specified in ETSI TS 103 713.

Read more

Back to contents

CEN and CENELEC launched a new Joint TC on Blockchain and DLT

Blockchain and Distributed Ledger Technologies (DLTs) are among the most promising developments in ICT for sharing data and managing transactions in a decentralised, controlled manner. The use of Blockchain and DLTs continues to grow rapidly, notably in the context of Industry 4.0, thus creating both new opportunities and challenges for business and society. In order to contribute to ensuring a smooth and safe adoption of new technologies in Europe, CEN and CENELEC recently established new CEN-CENELEC JTC 19 'Blockchain and Distributed Ledger Technologies', based on the recommendations presented in the CEN-CENELEC White Paper on 'Recommendations for Successful Adoption in Europe of Emerging Technical Standards on Distributed Ledger/Blockchain Technologies'.

Read more

Back to contents

Commission publishes recommendations to support six strategic business areas

The European Commission (EC) has published recommendations by a group of experts, the Strategic Forum on Important Projects of Common European Interest (IPCEIs), to boost Europe's competitiveness and global leadership in six strategic and future-oriented industrial sectors: Connected, clean and autonomous vehicles; Hydrogen technologies and systems; Smart health; Industrial Internet of Things; Low-carbon industry; and Cybersecurity. IPCEIs comprise innovative research projects that often entail significant risks and require joint, well-coordinated efforts and transnational investments by public authorities and industries from several Member States. In addition to recommendations specific to each of the value chains, the report also identifies horizontal enabling actions:

- Pooling public and private resources at EU, national and regional levels; The EU should coordinate these joint investments, targeting first industrial deployment and the commercialisation of new technologies;
- Deepening and integrating the single market through regulations and new standards;
- Mapping and developing the skills needed across the value chains;
- Making innovation systems in Europe more dynamic, with a focus on public-private partnerships;
- Setting a governance process to monitor technological and industrial changes, , etc.

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Back to contents

ETSI NFV Release 4 empowers orchestration and cloud enabled deployments

The ETSI Industry Specification Group (ISG) for Network Functions Virtualisation (NFV) has started working on its next specification release, known as Release 4. While NFV-based deployments are expanding worldwide and show the benefits of network function virtualization, new technologies are expected to be leveraged and features are being added in support of 5G and novel fixed access network deployments that are emerging in many countries. Release 4 addresses several new issues in the following technical areas: the evolution of the NFV framework to support the most recent cloud, software, and virtualization techniques; novel management architectural styles and operationalization aspects, leveraging virtualization characteristics to simplify deployments; and increased support for automation. While the ETSI ISG NFV is transitioning into the new release, the group will also continue the maintenance of Release 2 specifications, dealing with implementable protocol and data models, as well as their counterpart testing specifications to the end of 2019 and into 2020.

Read More

Back to contents

IIC and oneM2M Joint Whitepaper Enables Digital Transformation

A new joint whitepaper released by The Industrial Internet Consortium® (IIC™) and oneM2M, reveals how developers seeking to reduce complexity when designing Internet of Things (IoT) and Industrial Internet of Things (IIoT) systems, can leverage different architectural approaches side-by-side to enable faster-time-to-market of new Industrial services and use cases. The joint whitepaper, "Advancing the Industrial Internet of Things", demonstrates how these two leading IoT organizations are working together to advance the IIoT and digital transformation, through the creation of a robust, interoperable, flexible and efficient IIoT ecosystem. Through their work, the IIC and oneM2M aim to help vertical markets achieve interoperability and reusability, by minimizing complexity and the cost of designing, developing and deploying IoT and IIoT systems to shorten time-to-market and value-creation cycles. With a focus on practical deployment tools, the white paper describes how the IIC's and oneM2M's architectural approaches can be aligned to provide a toolkit of best practices and technical standards for organizations involved in the design and deployment of IIoT systems.

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Back to contents

EU-wide Cybersecurity legislation: implementation of the EU rules in the energy sector

The European Commission has just published a report with key findings on how the EU cybersecurity rules under the NIS Directive are implemented in the crucial Energy sector, in particular in electricity, gas and oil areas. The report takes stock of the implementation of the main NIS Directive requirements across the EU, notably on the ways to identify the so-called Operators of Essential Service (OES), security measures, incident notification requirements. The report includes information on governance models chosen, lessons learnt and best practices at national level and presents cybersecurity capabilities of EU associations, organisations and bodies with a role in the energy sector. In addition, it provides an overview of the different public-private collaboration schemes in place across the EU. In line with the Commission Recommendation of 3.4.2019 on cybersecurity in the energy sector, the document supports Member States in addressing energy sector specificities, such as real-time security requirements, cascading effects and the combination of legacy and state-of-the-art technologies, when implementing the NIS Directive.

Read More>>

Back to contents

First ETSI C-V2X interoperability event: success rate of 95% achieved

The first ETSI C-V2X Plugtests, performed in partnership with 5GAA, came to a close with a success rate of 95% of the executed tests, showing an extremely positive level of multi-vendor interoperability. 320 test scenarios were executed in lab and field environments for interoperability with 70 people present onsite for testing.

This event enabled vendors to run test sessions to assess the level of interoperability of their implementation and validate the understanding of the ETSI TC ITS and 3GPP standards. The ETSI 5GAA joint workshop which was organized in parallel, addressed C-V2X interoperability and deployment. Leading speakers from the European Commission, the Dutch Ministry of Infrastructure and Global Certification Forum presented the latest updates on ITS deployments and certifications. This week-long face to face PlugtestsTM , provided an opportunity to test C-V2X devices. Field interoperability testing included road hazard signalling, road works warning, longitudinal collision risk warning and intersection collision risk warning.

Read more

Back to contents

5G IA and ERTICO - ITS Europe recently signed a MoU

ERTICO – ITS Europe and 5G Infrastructure Association (5G IA) has signed a Memorandum of Understanding (MoU) to facilitate the roll out of Intelligent Transport Systems and Services (ITS) supported by a secure and trustworthy 5G communication network in Europe. The mission of 5G IA is to create the next generation of communication networks and services. Ubiquitous connectivity will enable the European industry to successfully compete on global markets, open up new innovation opportunities and facilitate the creation of new services to the benefit of the society, including for mobility.

The mission of ERTICO is to deploy by 2030 greater and safer automation and connectivity, ensuring the rollout of systems that monitor and manage traffic of vehicles carrying people and goods, providing direct control on them.

Read more

Back to contents

ETSI's new end-to-end architectural framework for network and service automation

ETSI has announced two major specifications from the ETSI Zero-touch network and Service Management (ZSM) Industry Specification Group. ETSI GS ZSM 001 describes ZSM Requirements and ETSI GS ZSM 002 defines the ZSM Reference Architecture. The glossary of terms and concepts related to ZSM is provided in ETSI GS ZSM 007 that was published along with these specifications.

ETSI GS ZSM 001 examines various business-oriented scenarios and the related automation challenges faced by operators and other industry sectors, and defines the architectural, functional and operational requirements for end-to-end network and service automation. The ZSM architecture specified in ETSI GS ZSM 002 was designed to satisfy these requirements. The architecture is modular, flexible, scalable, extensible and service-based. It is designed for closed-loop automation and optimized for data-driven machine learning and artificial intelligence algorithms.

Read more

Back to contents

Boosting Innovation Through Standards

CEN and CENELEC held the high-level 1- day Standards + Innovation Conference 'Boosting Innovation Through Standards' with the aim of fostering the market uptake of innovation and research outcomes by using standardization as an enabler. Leading experts in innovation and standardization presented their experiences in linking the two worlds and highlighted how each one is benefiting from the other. Know more about the conference and how standards can boost innovation thanks to the new dedicated webpage.

Discover how European standards contribute to the success of research and innovation activities, facilitating market uptake, finding partners (e.g. industry, policy, consumer) for your activities, using existing knowledge, transferring know-how or easing the access to financial resources.

Know more about the conference and how standards can boost innovation thanks to the new dedicated webpage

Back to contents

More than 60 new Harmonised European Standards cited in the OJEU

CEN and CENELEC announced that, after two years of continuous dialogue with all actors involved in the citation process, the EC has cited in the Official Journal of the European Union (OJEU) several lists of Harmonised European Standards (hENs). This important development signals a relevant turn in the process of reducing the citation backlog of harmonised standards, to the benefit of the industry and consumers.

In particular, the lists of standards cited cover the following sectors: Toys safety, New Legislative Framework, Electromagnetic Compatibility, Explosives Atmospheres, Pressure Equipment, and General Product Safety. Overall, this citation exercise includes more than 60 new references.

Read more

Back to contents

Whitepapers/Publications

ETSI publishes a white paper on Network Transformation - Building on key technologies for 5G

ETSI has released a new white paper, entitled Network Transformation: Orchestration, Network and Service Management Framework, written by several of its Industry Specification Groups' (ISG) Chairs. These groups have released specifications on key building block technologies for next-generation networks, feeding the 3GPP 5G specifications.

The ETSI white paper gives an insight into how ETSI tackles various network transformation challenges through network function virtualization (NFV), multi-access edge computing (MEC), experiential networked intelligence (ENI) and zero-touch network service management (ZSM). Read more

CEN-CENELEC published work programme 2020

CEN-CENELEC has published work programme 2020 which gives an overview of the main standardization developments and strategic priority areas CEN and CENELEC are ready to implement in 2020 across 14 business sectors.

The Work Programme also presents a focus on three horizontal business topics, which have been selected based on their relevance to meet today's challenges: Accessibility, Environment and Smart Society. Finally, the last part of the publication gives an overview on the most important strategic highlights that will characterise CEN and CENELEC's development over the course of 2020 and beyond. Read more/download

AIOTI, ISO/IEC JTC1, ETSI, oneM2M and W3C Collaborate on Two Joint White Papers on Semantic Interoperability Targeting Developers and Standardization Engineers

AIOTI announced its collaboration with ISO/IEC JTC1, ETSI, oneM2M and W3C in the publication of two joint white papers on semantic interoperability entitled Semantic IoT Solutions - A Developer Perspective and towards semantic interoperability standards based on ontologies in conjunction with organizations closely tied to the advancement of the IoT ecosystem. The documents are made available under the Creative Commons Attribution 4.0 International License so that content can be freely shared and adapted provided users follow the agreed upon guidelines. The joint white papers have been published on Research-Gate and can be referenced as DOIs 10.13140/RG.2.2.16339.53286 and 10.13140/RG.2.2.26825.29282 respectively. Read more

Back to contents

Events Calendar 2020

Cybersecurity Standardization Conference 2020
Where: Brussels, Belgium
When: 3 Feb, 2020
The conference will discuss the challenges in the standardization landscape for Cybersecurity in light of the EU Cybersecurity Act. Among the topics:
- The role of standardization to support the certification framework
- Achievements in cybersecurity standardization and the rolling plan of standardization bodies
- First EU certification scheme – difficulties and success stories in relation to standards
- Next prospective schemes – way ahead

For more info, please click here

7th Annual 5G Huddle
When: 5-6 Feb, 2020
Where: New Delhi, India
ETSI is pleased to endorse the 5G HUDDLE 2020 in the frame of the Wireless World Research Forum (WWRF). As the 5G journey around the world continues, the 7th Annual 5G Huddle will look at the progress that has been made, and more importantly the challenges that still remain in order for the long-term benefits of this truly transformational technology to be felt across all areas of society. For more info, please click here

Internet of Things India 2020
When: 19-21 Feb, 2020
Where: New Delhi, India
ETSI is pleased to endorse the IoT India 2020 expo which will explore the impact of the Internet of Things (IoT) on industries, such as manufacturing, transport, supply chain, insurance, logistics, government, energy and automotive.
For more info please click here

2nd mWT Plugtests
When: Sophia Antipolis, France
Where: 9-13 March, 2020
ETSI is pleased to invite you to the second mWT (millimetre Wave Transmission) Plugtests™ event which will take place from 9 to 13 March 2020. This edition of the Plugtests event will focus on proving the ability of Software Defined Network (SDN) to operate from an end to end service point of view. For more info, please click here

FutureNet World 2020
When: 24-25 March, 2020
Where: London, United Kingdom
FutureNet World is focused on the theme 'Network Automation and AI' and our unique focus will combine an in-depth coverage of the latest technology choices as operators continue to evolve their networks, with a visionary examination of the services customers are demanding in today's digital world and the considerations for the network.
For more info, please click here

ETSI Summit - European Standards: Are Current Mechanisms Fit for the Future in a Changing Regulatory World?

When: 2 April, 2020

Where: Sophia Antipolis, France

The **ETSI Summit** will address the new regulatory initiatives and challenges for industry and markets as well as the role European standards play.

For more info, please click here

Webinar: Standards & Societal Stakeholders: everything you always wanted to know but were afraid to ask

When: Thursday 23 January 2020, 10:30 - 11:15 CET

Learn about the importance and benefits of engaging diverse stakeholders in the standards making process and the different tools that allow the civil society to participate and strengthen the European world of standards, such as our eLearning tool developed together by CEN, CENELEC, ANEC, ECOS and ETUC.

For more info please click here

10-10 webinar: The Joint Initiative on Standardization (JIS) three years later: achievements & closure

When: Tuesday 10 February 2019, 10:00 CET

This webinar will recap the objectives, outcomes and state of play of the JIS Actions approaching the final phase.

For more info please click here

CEN-CENELEC StandarDays

When: 02-03 April, 2020

Where: CEN-CENELEC Management Centre, Brussels

Newcomers will discover the world of European standardization and all participants will understand how standardization works. During StandarDays, you'll receive a clear and structured overview of the European Standardization System and of the CEN and CENELEC products & processes. You will learn about all the benefits of stakeholder involvement in European standardization. For more info please click here

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About Project SESEI 3

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.