



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

EC - European Commission  
EFTA - European Free Trade Association

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Dear Readers,

This is the Fourth edition of the "SESEI Newsletter India", comprising of news, latest updates and important developments in the field of technology and standards associated with sectors such as ICT, Smart Cities, Automotive, Electrical Equipment including Consumer Electronics etc. for the period of April to June 2020.

Starting, January of this year the clutches of Covid-19 are becoming stronger and the enormous social and economic consequences of the pandemic are becoming clearer. The policy makers are currently focused on restart and reconstruction of the economy and mapping out emergence out of the coronavirus pandemic with a series of commitments such as how tomorrow's digital world should function for citizens across the continents. The need to strengthen country's digital skills and education, growth of telecommunication infrastructure, availability of public wifi, push to new generation technologies, digitization of key services and industries both SME and MSME, financial inclusions, E-health services and above all a robust cybersecurity law and standards to support and safeguard the growing digital needs of the country should be a priority and focus as a key learnings emerging from the pandemic.

This newsletter is a testimony of the efforts and steps being taken by the European Commission and the standardization bodies to further bolster their ICT and digital infrastructure. The European Commission is adopting and implementing regulations which will simplify and accelerate 5G network installations, as a fully-fledged 5G rollout relies on denser and smarter wireless networks of small cells, or antennas. The Commission Implementing Regulation defines the physical and technical characteristics of those small cells, which are exempted from any individual town planning permit or other individual prior permits.

EU is also investing heavily in creating 5G ecosystem for Connected and automated mobility (CAM). The three new 5G cross-border projects (5G-Routes, 5G-Blueprint, 5GMED) will design, test, and validate use cases in the field of mobility and transport under different geographic conditions and associated weather constraints.

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To better serve the new 5G applications, ETSI has recently launched a new group on Non-IP Networking (ISG NIN) to develop standards that define technologies to make more efficient use of capacity, have security by design, and provide lower latency for live media.

As more devices in the home connect to the internet, cybersecurity has become a growing concern. In this context, the standardization community is playing an important role. CEN and CENELEC's JTC 13 'Cybersecurity and Data Protection' released a series of European Standards (ENS) providing guidelines and criteria to assess the security level of IT systems, cryptographic modules and privacy. [ETSI EN 303 645](#) standard for security of consumer internet of things (IoT) products was also released by the ETSI Technical Committee on Cybersecurity (TC CYBER). This EN is designed to prevent large-scale, prevalent attacks against smart devices that cybersecurity experts see every day.

IoT, Cyber Security, deployment of safe 5G networks were areas of key focus during the ETSI Security week held virtually from 8<sup>th</sup> to 19<sup>th</sup> June 2020. More than 4000 viewers from over 50 countries made use of the 14 webinars held during the security week.

European Commission has also accelerated its efforts to achieve global sustainable targets, by adopting and making Sustainable Development Goal (SDG) intrinsic fibre of all the national and European policies. CEN and CENELEC have been working in collaboration with the Commission and other stakeholders to develop and adopt standards in support of sustainability. The newly launched Green Deal by CEN CENELEC is committed to using standardization to facilitate the transformation of our society. The Green Deal also emphasizes that the digitalization of all sectors of the European economy will facilitate its decarbonization. A new Joint Group on Circular Economy (JG-CE) will also be launched to provide advice and coordinate CEN and CENELEC's standardization activities related to the Circular Economy. Circular Economy and Resources Efficiency will play a pivotal role in the sustainable Development goals.

Digitalization is one of CEN and CENELEC priorities for the future, with the development and implementation of a Strategic Plan for Digital Transformation. Annual reports 2019 have been released by EFTA and CEN-CENELC, providing overview of the activities and key areas of function during the year. ETSI has also released its [2020-2021 work programme](#). We are also very pleased to share that CEN CENELEC celebrated 60 years of collaboration on European Standardisation. Their Joint efforts have helped in creating an effective platform for European Standardization.

In the end, I would like to conclude by stating that the global coronavirus pandemic has clearly demonstrated the need for the businesses, organisations, and people to become resilient and adaptable to changes. Standards and new technologies will play an essential role for safeguarding the environmental needs, business solutions and adaptability to innovative solutions. We encourage you all to utilize this time for internalization, value creation and adopt safe practices for self and the environment.

Warm regards,  
[Dinesh Chand Sharma](#)  
**(Seconded European Standardization Expert in India)**

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## ETSI released World-Leading Consumer IoT Security Standard

The ETSI Technical Committee on Cybersecurity (TC CYBER) unveiled [ETSI EN 303 645](#), a standard for cybersecurity in the Internet of Things that establishes a security baseline for internet-connected consumer products and provides a basis for future IoT certification schemes. Based on the ETSI specification TS 103 645, EN 303 645 went through National Standards Organization comments and voting, engaging even more stakeholders in its development and ultimately strengthening the resulting standard. The EN is a result of collaboration and expertise from industry, academics and government.

[ETSI EN 303 645](#) specifies 13 provisions for the security of Internet-connected consumer devices and their associated services. IoT products in scope include connected children's toys and baby monitors, connected safety-relevant products such as smoke detectors and door locks, smart cameras, TVs and speakers, wearable health trackers, connected home automation and alarm systems, connected appliances (e.g. washing machines, fridges) and smart home assistants. The EN also includes 5 specific data protection provisions for consumer IoT.

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## European Commission adopts Implementing Regulation to pave the way for high capacity 5G network infrastructure

The European Commission (EC) has adopted the Implementing Regulation on small-area wireless access points, or small antennas, which are crucial for the timely deployment of 5G networks that are delivering high-capacity and increased coverage as well as advanced connection speeds. The Regulation specifies the physical and technical characteristics of small cells for 5G networks. It aims to help simplify and accelerate 5G network installations, which should be facilitated through a permit-exempt deployment regime, while ensuring that national authorities keep oversight.

5G will transform our economy and society. The "fifth generation" of wireless technology will deliver high capacity, high-speed and low-latency (quick network response) services across vital sectors.

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## Trust in new technologies: CEN and CENELEC published a new series of European standards on cybersecurity

In a world increasingly relying on digital technologies and data to function, opportunities go hand in hand with potential risks. For this reason, cybersecurity is at the centre of international efforts, both public and private, to minimise dangers for critical infrastructure and personal data, thus ensuring that the highest number possible of individuals and companies, in all sectors, can benefit from new technologies.

In this context, the standardization community is playing an important role: standards for cybersecurity and data protection are currently being developed both internationally and at the European level to address the risks posed

by cyber-attacks and help ensure high levels of protection. As part of this effort, CEN and CENELEC's JTC 13 'Cybersecurity and Data Protection' just released a series of European Standards (ENs).

The new standards provide a series of guidelines and criteria to assess the security level of IT systems, cryptographic modules and privacy.

- [EN ISO/IEC 15408-1:2020 'Information technology - Security techniques - Evaluation criteria for IT security - Part 1: Introduction and general model'](#)
- [EN ISO/IEC 15408-2:2020 'Information technology - Security techniques - Evaluation criteria for IT security - Part 2: Security functional components'](#)
- [EN ISO/IEC 15408-3:2020 'Information technology - Security techniques - Evaluation criteria for IT security - Part 3: Security assurance components'](#)
- [EN ISO/IEC 18045:2020 'Information technology - Security techniques - Methodology for IT security evaluation'](#)
- [EN ISO/IEC 19790:2020 'Information technology - Security techniques - Security requirements for cryptographic modules'](#)
- [EN ISO/IEC 27019:2020 'Information technology - Security techniques - Information security controls for the energy utility industry'](#)
- [EN ISO 29134:2020 'Information technology - Security techniques - Guidelines for privacy impact assessment'](#)

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## Standardization, a major player in the implementation of the European Green Deal

Standardization is an important tool to complement national and European policies, because of its voluntary nature and its consensus-building approach between different economic players. CEN and CENELEC have been working for many years in collaboration with the Commission and other stakeholders to develop and adopt standards in support of numerous European initiatives and policies, including – but not limited to - sustainability. By providing new voluntary rules allowing, for example, the optimisation of the energy efficiency of products and systems, standards take an active part in the transition towards a greener economy.

The Green Deal is committed to using standardization in order to facilitate the transformation of our society. It is indeed what CEN and the CENELEC intend to contribute to in the years to come. The exchange of knowledge and good practices generated through the close links of CEN and CENELEC with their international counterparts, ISO and IEC, is a major asset for the development of standards in support of the Green Deal. This collaboration avoids the duplication of work and helps streamline and focus efforts in the areas where they are most appropriate. Furthermore, it allows to transition from a fragmented normative approach to a harmonised one.

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## ETSI organized “ETSI virtual Security Week 2020” with over 4000 viewers

The ETSI virtual Security Week 2020, that took place from 8 June to 23 June, successfully closed with a record audience of more than 4000 viewers joining from over 50 countries. Speakers and moderators comprised a variety

of stakeholders ranging from global telco operators, vendors and academia to security organizations and other standards bodies.

The 14 webinars focused four key topics around cybersecurity: how to deploy 5G securely in different market sectors, the Cybersecurity Act and the future European Standard developed by ETSI on security for IoT consumer devices, insights into the new Smart Secure Platform, as well as its requirements and impact on the ecosystem and advanced cryptography with quantum-safe cryptography, the technical evolution of the TETRA standard and fully homomorphic encryption.

Presentations displayed a good balance between high level and technical topics and the content provision and led to high interaction with very dynamic and challenging Q&A and panel sessions.

Please [click here](#) to access all recorded presentations. You can also download the PDF slide sets.

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## New study proposes a standardization approach to identify trustworthy AI

A new study realised by the German technology organisation [VDE](#) and the [Bertelsmann Stiftung](#) demonstrates how ethical principles for artificial intelligence (AI) can be put into practice. The study, "[From principles to practice – an interdisciplinary framework to operationalise AI ethics](#)", proposes a standardization approach to help consumers identify the level of trust of an AI product/service.

While there are many ethical guidelines for AI currently being developed, there are very few solutions that can be practically implemented. One of the greatest obstacles is the vagueness and the varying understandings of principles like "transparency" and "equity". The VDE-Bertelsmann Study aims at filling this gap. It proposes a method to implement general ethical principles in AI measurably and concretely based on a combination of three tools: a VCIO model, an AI ethics label and a risk classification.

The so-called VCIO model (Value, Criteria, Indicators, Observables) breaks down values into criteria, indicators and, ultimately, measurable observables. The VCIO model can be used by policy developers, regulators and supervisory authorities to concretise and implement AI system requirements.

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## EU encourages investment in 5G hardware innovation and trialling 5G-based connected and automated mobility

Eleven new projects funded by Horizon 2020 programme under the European 5G Public-Private Partnership (5G-PPP) will start in September 2020. The objective is to gather opportunities in 5G hardware innovation and to validate 5G ecosystems for connected and automated mobility (CAM) along three new European cross-border corridors. The three new 5G cross-border projects (5G-Routes, 5G-Blueprint, 5GMED) will design, test and validate use cases in the field of mobility and transport under different geographic conditions and associated weather constraints. They will broaden the validation of connected and automated mobility features to roads, train, ports

and maritime routes. Each project will provide a 5G network infrastructure that offers both multi-service and multi-application features to varied means of transport such as cars, trucks, trains, pods, barges and boats, as well as improved connectivity to public users.

The [5G Action Plan for Europe](#) (5GAP) was adopted by the European Commission in September 2016 with calls for actions to achieve uninterrupted 5G coverage in all urban areas and along all main transport paths across Europe by 2025. It is expected that the 5G infrastructure will be a key enabler for the development of connected and automated mobility (CAM) by providing a broad range of digital services to the vehicle and paving the way to fully autonomous driving by the end of the decade on specific sections of roads equipped with 5G.

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## SABE to launch the new Joint Group 'Circular Economy'

In the spring of 2020, the [Strategic Advisory Body on Environment \(SABE\)](#) will launch a new Joint Group on Circular Economy (JG-CE). The purpose of this Joint Group is to provide advice and coordinate CEN and CENELEC's standardization activities related to the Circular Economy.

The transition towards a Circular Economy is widely considered as a necessary step to address the challenges related to the creation of a more sustainable economy. This will however require a transformation of our current ways of producing and consuming, collaborating and running businesses by closing the circle at the highest possible level (e.g. through repair or re-manufacturing), rather than exporting recyclable materials or applying thermal recovery. Standardization can help to provide a clear way to achieve these aims.

Standards already address a wide range of issues contributing to the transition, thanks to the work of a variety of technical committees (TCs). Both for the drafting of new standards and for the adjustment of existing standards, a coordinated approach will enable technical committees to develop standards concurrently while avoiding unnecessary duplications.

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## ETSI increases outreach to the research community to accelerate innovation and standards cooperation

Engaging with Standards at the appropriate stages of research and innovation cycles is crucial to the development of new and evolved technologies. Identifying research topics for standardization at an early stage ensures that the requisite standards will be available to the industry when they are needed to support the relevant new technologies and products as they go to market.

Currently ETSI's research and academic membership includes over 120 organizations, including public and private research institutes and universities from Europe and beyond. ETSI seeks to expand the existing research and academic community as well as reinforce the links with European research projects and platforms in order to build an active community of research and industrial partners, working towards a shared goal.

The sanitary crisis we are currently experiencing is a good example of where research results are essential to bringing new solutions and services to market in a timely manner. The world is looking for a vaccine against COVID-19, smartphone apps are being developed and deployed and the processing of massive amounts of medical and other logistical data is essential to mitigating the current and future pandemics.

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## ETSI releases Technical Report on requirements for smart lifts for IoT

To facilitate upcoming standards, the ETSI SmartM2M technical committee has released [ETSI TR 103 546](#), a Technical Report on smart lifts, collecting and developing the type and range of data which should be exchanged between lifts and their relevant management applications. This study paves the way for technical requirements to monitor the activities and the performance of such lifts and describe their interaction with IoT devices and applications.

[ETSI TR 103 546](#) specifies three categories of users and their role in the system: users of the lift with their needs, people and companies involved in this industry, such as manufacturers, suppliers or maintenance organizations and the owner or administrator of the buildings. Signals and controls are clearly identified, and a set of use cases highlights concrete and comprehensive examples of the usage and role of those signals and commands. The ETSI Technical Report outlines the complexity of the lift ecosystem, comprising both local and remote components which need to interact with one another as well as with external systems belonging to many different sectors. This leads to the conclusion that standards are key. Indeed, the whole system needs a full communication and interworking framework, able to reuse multiple communication technologies, to be interoperable, to integrate IoT devices and human interactions, and to provide semantic support and semantic interoperability.

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## CEN and CENELEC celebrate 60 years of collaboration in European Standardization

**10<sup>th</sup> June, 2020** is an important day for the CEN and CENELEC Community: on this date in **1960**, **representatives from ISO and IEC members in the European Economic Community (EEC) and EFTA countries agreed to the creation of two European Standardization Organisations, CEN and CENEL – which then became CENELEC.** In a period that saw the founding steps of European integration, this agreement of principle set the basis for the creation of a common European Standardization System.

In the decades since then, the European Standardization System has evolved, providing an invaluable contribution to the economic and social well-being of Europe and to the well-functioning of the Single Market. CEN and CENELEC's cooperation has been a staple of this evolution, providing an effective platform for European standardization: the CEN and CENELEC Management Centre (CCMC), their common Secretariat in Brussels, stands today as a witness to their joint effort. **CEN and CENELEC therefore celebrated 60 years of collaboration on European standardization.** It is an opportunity for us to look back at the successes achieved, and to reflect on the road that is still ahead.

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## European standards play a strategic role in Europe's recovery

The COVID-19 pandemic has taken a serious toll on the European economy: according to the [European Commission](#), the EU economy is expected to contract by 7.5% in 2020. Swift and decisive action at the European level is therefore essential to address this historic downturn and relaunch the economy as soon as possible. The [European Recovery Plan](#) presented on 27 May by the European Commission, with its new Recovery Instrument 'Next Generation EU' and its objective to 'invest in a green, digital and resilient Europe' provides a much needed holistic approach.

The European Committee for Standardization ([CEN](#)) and the European Committee for Electrotechnical Standardization ([CENELEC](#)), together with their national members, welcome the Recovery Plan and its ambition to strengthen the Single Market and highlight the crucial contribution that European standards play in supporting the EU's economy.

The European Standardization System constitutes one of the foundations of the Single Market, by working in support of European market harmonisation and making it more sustainable, easier and safer for citizens, companies and public institutions to buy and sell goods and services, travel across borders and rely on the same high level of services across Europe. These benefits are highlighted by the CEN and CENELEC Declaration "[Standards Build Trust](#)", and were in full display in recent months, when CEN, CENELEC and their members made available for free a [series of European Standards](#) (ENs) for medical devices and personal protective equipment used to fight against the COVID-19 pandemic.

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## Global IoT interoperability takes step forward as oneM2M increases membership and partnership-working

International standards initiative [oneM2M](#) announced it has welcomed a range of new members as organisations around the world seek to accelerate the development of the Internet of Things (IoT) market through greater interoperability.

A cybersecurity specialist, research institutes, service providers and the Universidad Politécnica de Madrid's faculty of computer science are among the latest companies to join the organisation. The newest additions to oneM2M's vast membership come from America, Asia, Europe and Russia, demonstrating the relevance of its standardization efforts across the globe.

"2020 is shaping up to be a year when increased levels of collaboration between global organisations, institutions and companies really accelerate mass adoption of the IoT across a range of sectors," said oneM2M Steering Committee Chair, Enrico Scarrone. "We are already working in partnership with the [IoT Connectivity Alliance](#) (ICA) and have recently set out how we will be collaborating with the [Industrial Internet Consortium](#) (IIC). The breadth of expertise and geographic spread of our new members will further add to our global knowledge base and effort as we build the levels of seamless interoperability needed to drive forward a technologically agnostic and secure platform for the IoT."

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## ETSI launches new group on Non-IP Networking addressing 5G new services

ETSI has announced the creation of a new Industry Specification Group addressing Non-IP Networking ([ISG NIN](#)). The kick-off-meeting took place on 25 March and John Grant, BSI, was elected as the ISG Chair, and Kevin Smith, Vodafone, was elected as ISG Vice Chair. The new group will supersede an existing ETSI group for Next Generation Protocols (ISG NGP), created in 2015 to look at networking technology needs in the upcoming 5G era.

With the increasing challenges placed on modern networks to support new use cases and greater connectivity, Service Providers are looking for candidate technologies that may serve their needs better than the TCP/IP-based networking used in current systems.

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## ETSI publishes new work programme, keeping up the pace of ongoing activities

ETSI has released its [2020-2021 work programme](#). In ETSI we are constantly exploring new ways to make the development of standards faster and more efficient. Our FORGE platform, for example, gives developers free access to open-source code produced by our members. And as we have already seen this year, the need for effective virtual collaboration between individuals and teams has never been keener.

At the start of 2020 we had little idea just how abruptly our own operational processes would shift. The devastating societal impact of the coronavirus has imposed profound challenges on every organization. As our own modus operandi evolves, so does the scope of ETSI's standardization activities.

This Work Programme highlights some of the technical areas attracting the attention of our members with new groups created, including new networking protocols (Non-IP networking), 5th generation fixed networks and the security of Artificial Intelligence-based systems. To help tackle the pandemic, we launched E4P, Europe for Privacy-Preserving Pandemic Protection, an Industry Specification Group initiated to develop specifications that will ensure the interoperability of Covid-19 tracing applications throughout Europe.

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## The CEN and CENELEC Annual Reports 2019 are out!

CEN and CENELEC have published [Annual Reports for 2019](#). The Annual Reports consist of three parts: the joint CEN and CENELEC activities and one each individual report for CEN and CENELEC. Taken together, they present the main achievements accomplished in 2019 in European standardization.

Indeed, 2019 was an impactful year: the renewed EU institutional setting, the whirling trade discussions and Brexit have presented all organisations and businesses with new challenges and opportunities. Digitalisation and innovation have imposed themselves as a new constant in our daily lives. Furthermore, the global coronavirus pandemic has shown how urgent it is for all organisations to become resilient and adaptable to sudden changes. This situation provided even more evidence of the essential role that standards play in protecting citizens and providing safe and innovative market solutions.

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## EFTA's Annual Report 2019

The [59th Annual Report](#) of the European Free Trade Association has been published. The report contains an overview of the functions and activities of EFTA throughout 2019 in the areas of managing the EEA Agreement, EFTA's worldwide network of Free Trade Agreements (FTAs) and the EFTA Convention.

2019 was marked by the 25th anniversary of the EEA Agreement, which entered into force in 1994. To celebrate this historic year, the EFTA Secretariat, together with the three EEA EFTA States, organised a series of high-level events and promotional activities. The most important event took place on 22 March, when the EEA EFTA Prime Ministers were invited to take part in a summit of the European Council, reaffirming their commitment to participate jointly in the Internal Market.

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## Whitepapers/Publications

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### **ETSI issued New White Paper on Artificial Intelligence**

ETSI has unveiled a new [White Paper on Artificial Intelligence \(AI\)](#). This White Paper explores key issues of AI that present both huge opportunities and new challenges for information and communication technologies (ICT). This ETSI White Paper surveys the many technical activities in ETSI that consider AI. They include 5G systems, network optimization, privacy/security, data management, semantic interoperability and testing across all areas. Each area is considering the use of aspects of AI, including Health and Human Factors scenarios. Key references from other bodies are included for global context.

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### **ETSI releases White Paper on the role of standards for ICT to mitigate the impact of a pandemic**

ETSI unveiled [a new white paper](#), written by the officials of the ETSI EP eHealth group, highlighting the role of standards developing organizations (SDOs) in developing standards for ICT to mitigate the impact of a pandemic. COVID-19 is not a mild pandemic, it is a serious, often lethal, health condition, the impact of which is seriously detrimental to social and economic life across the world. The ETSI paper acts to identify a "call to arms" to standards bodies and their constituent members to ensure that when the next pandemic arrives, we can rely on greater harmonization of the supply chain.

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### **Standardization in a Circular Economy – Closing the Loop**

**Standardization** in the field of **Circular Economy** helps batteries maintain their quality and produce less waste. CENELEC Technical Committees are committed to providing these deliverables, and in particular the CENELEC Technical Committee 21X on Secondary Cells and Batteries (CLC/TC 21X).

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## Events Calendar 2020

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### **10-10 webinar: CEN-CENELEC Innovation Plan**

**When:** Thursday 10 September, 2020

**What:** The CEN-CENELEC Innovation Plan, approved in June 2018 aims to strengthen CEN's and CENELEC's links with the research and innovation communities. The webinar will detail the actions toward reaching this aim, inform on the state-of-play for each of them, and introduce the tools developed by the BRIDGIT2-project for engaging with the research and innovation communities. For more information please click [here](#)

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### **10-10 webinar: Digital Transformation and DITSAG (Digital and IT Strategic Advisory Group)**

**When:** Tuesday 10 November, 2020

**What:** Following the increasing needs for CEN and CENELEC to deliver coordinated advice with a comprehensive and forward-looking approach on all aspects related to the Digital and IT (DIT) implementation of the CEN-CENELEC strategy, the Boards established, in June 2019, the Digital and IT Strategic Advisory Group (DITSAG). For more information please click [here](#)

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### **Webinar for Standard Drafters: "Drafting for XML: How to draft XML-friendly tables"**

**When:** Thursday 17 September, 2020

**What:** This webinar will explain how to draft tables which are perfect for XML, covering:

- nested tables
- complex tables and applicable error messages
- long cells
- table layout (title before table)
- styling
- figures contained in tables – naming, etc
- equations

For more information please [click](#)

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### **10-10 webinar: Participation of Small & Medium Sized Enterprises (SMEs) in standardization**

**When:** Friday 9 October, 2020

**What:** Micro, Small and Medium Enterprises play a major role in the European economy. Standards can help SMEs to grow and become more competitive. CEN and CENELEC closely work with SBS, the European representative of SMEs in the standardization process, to facilitate SMEs' access to and use of standards. For more information please [click here](#)

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### **Artificial Intelligence in healthcare: paving the way with standardization**

**When:** Tuesday 27 October 2020

**Where:** Brussels, Crowne Plaza Hotel, Rue Gineste 3, 1210 Brussels ([map](#))

There are a multitude of potential AI applications that can provide advanced healthcare, but they must take into account existing European regulatory frameworks, health industry practices, and real world applications. Furthermore, the COVID-19 pandemic has highlighted the importance of an effective and efficient health system, and the role digital health can play. The future of (digital) health is developing quickly: both European and international standards are needed to provide tools that can build trust, promote transparency, and use a common language. For more information please [click here](#)

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### **2nd mWT Plugtests**

**When:** 6-10 July 2020

ETSI is pleased to invite you to the second mWT (millimetre Wave Transmission) Plugtests™ event which will take place from 6 to 10 July 2020. This event will be held remotely. 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 information please [click here](#)

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### **2nd CV2X remote Plugtests**

**When:** 20-31 July 2020

ETSI, in partnership with 5GAA, organizes the 2nd C-V2X Plugtests event, which will be held remotely from 20 to 31 July 2020. C-V2X (Cellular Vehicle-to-Everything) is an Intelligent Transport System service using mobile communication technology for direct communication as well as network communication between vehicles, from vehicle to pedestrian and from vehicle to infrastructure. The 2nd C-V2X Plugtests event will enable ITS stations and PKI vendors to run interoperability test sessions to assess the level of interoperability of their implementation and validate the understanding of the ITS security standards. For more information please [click here](#)

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### **IoT World 2020 virtual**

**When:** 11-12 August 2020

ETSI is pleased to endorse the IoT World. The desire for the IoT community to connect, inform and innovate is stronger than ever. IoT World Virtual is an unparalleled platform, available to everyone, and will set the stage for how IoT technologies are transforming business in the new digital world. For more information please [click here](#)

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### **6th National Summit on 100 Smart Cities**

**When:** 27 August 2020

ETSI is pleased to endorse the Virtual Conference on 100 Smart Cities India 2020.

In view of the resounding success and positive feedback of its 5th edition held on August 22, 2019 in India, Bharat Exhibitions is pleased to announce the 6th edition of "Virtual Conference on 100 Smart Cities India 2020" scheduled on 27 August 2020 at 10:30 to 12:30 hrs IST. With the theme - "Innovations, Sustainability, Surveillance and Development for Smart Cities" this forum will trace the importance of various aspects of infrastructure that needs to be planned, designed, built and operated in order to provide the 'Smart' attribute to a city development. For more information please [click here](#)

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### **TechXLR8**

**When:** 1-3 September 2020

ETSI is pleased to endorse the TechXLR8, a world class virtual conference programme with 100s of hours of content across IoT, ARVR, Cloud & DevOps and Startup stages which will take place early in September and will be available through the virtual event platform. For more information please [click here](#)

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### **5G World**

**When:** 1-3 September 2020

ETSI is pleased to endorse the 5G World where you can listen to the first 5G speakers from groundbreaking service providers, forward looking enterprises, innovative 5G solution providers, leading industry bodies and more. For more information please [click here](#)

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### **OSM-MR#9-Hackfest**

**When:** 7-11 September 2020

ETSI's Centre for Testing and Interoperability and the OSM community are organising the next OSM Hackfest on 7-11 September 2020.

This OSM Mid-Release #9 Hackfest will guide participants through the step by step on-boarding, deployment and end-to-end testing of an hybrid Network Service: a Magma EPC with VNF, CNF and PNF components. Participants will be able to get familiar and experiment by themselves with [latest OSM](#) features such as:

- VNF Package Management
- Automating Day 1 & 2 operations with OSM Primitives

- Orchestrating VNFs, CNFs and PNFs
- Enabling high performance VNFs
- Underlay automation with SDN Assist
- Service assurance, monitoring and auto-scaling
- Network slicing
- Placement optimization

For more information please [click here](#)

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### **5th MCX remote Plugtests**

**When:** 21 September-2 October 2020

ETSI, with the support of the European Commission, EFTA, TCCA and UIC, is organizing the fifth MCX Plugtests™ event which will take place as a remote-only event from 21<sup>st</sup> September to 2<sup>nd</sup> October 2020.

The concept of “Mission Critical Push To Talk” (MCPTT), “Mission Critical Data (MCData)” and “Mission Critical Video (MCVideo)” started with 3GPP Release-13 and is ongoing in current Releases. Interoperability and Mission Critical service harmonization are critical challenges for the successful deployment and operation of Mission Critical Communication. For more information please [click here](#)

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### **FutureNet World 2020**

**When:** 22-23 September 2020

ETSI is proud to be endorsing FutureNet World on 22-23 September 2020 at 99 City Road Conference Centre, London. 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 information please [click here](#)

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### **oneM2M Interop 7**

**When:** 12-15 October 2020

TTA and ETSI, two of the founding Partners of oneM2M Partnership Project, are organizing the 7th oneM2M Interop event taking place from 12 to 15 October 2020 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. For more information please [click here](#)

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### **Internet of Things India 2020**

**When:** 20-22 October 2020

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.

With 1.9 bn devices expected to be connected in India alone, by 2025, IoT and related technologies will assume unparalleled significance. Across sectors, we will see power grids, vehicles, homes, entire cities and manufacturing floors being connected. For more information 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.cenelec.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](http://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.*

## SESEI

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CEN - European Committee for Standardization [www.cen.eu](http://www.cen.eu)

CENELEC - European Committee for Electrotechnical Standardization  
[www.cenelec.eu](http://www.cenelec.eu)

ETSI - European Telecommunications Standards Institute [www.etsi.eu](http://www.etsi.eu)

EC - European Commission [www.ec.europa.eu](http://www.ec.europa.eu)

EFTA - European Free Trade Association [www.efta.int](http://www.efta.int)