



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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## Greeting from SESEI!!!



Dear Readers,

We are happy to present the eighth edition of the "SESEI newsletter India". This newsletter consists of latest updates, news, and information from the European standardization bodies on new technologies, release and development of standards & initiatives including policy recommendation from European Commission for the period of April 2021 to June 2021.

During the last quarter India, and European Union (EU) have resumed talks for a comprehensive trade agreement after a gap of eight years. The trade negotiations were suspended in 2013 after several rounds of talks spanning for six years. Both sides have worked intensively to arrive at a common understanding. India acknowledges the EU's strength in regulatory matters and standards and is closely cooperating on digital standards and sustainable development goals.

European Commission have always adopted a Global Approach towards Research and Innovation and aims to take a leading role in supporting international research and innovation partnerships to deliver innovative solutions to make our societies green, digital, and healthy. In this regard, **Horizon Europe**, the next EU research and innovation framework programme for the period of 2021-2027, will be a key instrument for the implementation of EU's innovation strategy.

Commitment towards research and innovation also reflects in the [ETSI's new strategy](#) i.e., 'Designing tomorrow's world', and is based on a recognition of the global importance of Information and Communication Technology (ICT) for a sustainable development and to support the digital transformation of society. CEN and CENELEC have also put significant effort towards integrating standardization with innovation and research. This strategic initiative was originally conceived in the CEN-CENELEC Innovation Plan (2018) and now supports [Strategy 2030](#) objectives.

Artificial Intelligence (AI) will play a significant role in the digital transformation as acknowledged globally. Although the advantages of AI in our daily lives are undeniable, people are concerned about its dangers. Inadequate physical security, safety, economic losses, and ethical issues are just a few examples of the damages & danger AI could cause. European Commission (EC) had earlier released a [White Paper on AI](#) and now EC is presenting its new, long-awaited regulation on Artificial Intelligence (AI). This focus on AI

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on the part of the European Commission brings forward not only valuable questions for the continued evolution and safe deployment of this technology, but opportunities for ensuring the digital sovereignty of Europe for the future. To help address these questions and provide support to the deployment of AI in Europe, European standards play a key role. To organize and develop standardization work on this issue, CEN and CENELEC have established the [CEN-CENELEC Joint Technical Committee 21 'Artificial Intelligence'](#) and have also released the [CEN and CENELEC's Road Map on AI](#). ETSI has also recently released [ETSI GR SAI 005](#), a report which summarizes and analyses existing and potential mitigation against threats for AI-based systems. Setting a baseline for a common understanding of relevant AI cyber security threats and mitigations will be key for widespread deployment and acceptance of AI systems and applications. The report summarizes existing and potential mitigation approaches against training attacks. The French government has also committed 1.2 million euro to facilitate the creation of globally accepted consensus standards, under the 'Invest for the Future' to support French players in the field of artificial intelligence (AI) by creating, through the influence of voluntary standardization.

2021 has also been declared as the [European Year of Rail](#) by the European Commission. CEN-CENELEC through its two main Technical Committees (TCs), [CEN/TC 256 'Railway Applications'](#) develops standards on railway applications. some of the future projects on rail standardization are well placed to support the European Commission's Green Transition goals, such as the [Green Deal](#). To further strengthen the railway sector, CEN-CENELEC developed and released a guidance and specifications document on how cybersecurity will be managed [CLC/TS 50701 'Railway applications – Cybersecurity'](#) which was developed by '[CLC/TC 9X - Electrical and electronic applications for railways](#)'. This Technical Specification is a major landmark for the European railway sector, as it aims to provide requirements and recommendations to handle cybersecurity in a unified way for the railway sector.

European Commission is also committed towards taking proactive approach to tackle the threats posed by Cybersecurity related issues and robust cybersecurity laws and policies are being introduced. A Joint Cyber Unit established by the European Commission is another important step towards completing the European cybersecurity crisis management framework. It is a concrete deliverable of the [EU Cybersecurity Strategy](#) and the [EU Security Union Strategy](#), contributing to a safe digital economy and society. [CEN and CENELEC's Joint Committee 13 'Cybersecurity and Data Protection' \(CEN-CLC/JTC 13\)](#) has also started a new project, which aims to develop guidelines that organisations will be able to use for the purpose of demonstrating compliance with their obligations relating to GDPR.

At ETSI Many new White papers and standards have been released in the last quarter. ETSI released IoT Testing Specifications for MQTT, COAP, Industrial Automation and Control Systems. The Open Source MANO celebrated its 5th year and introduced [OSM Release TEN](#), bringing with it , a new design that allows OSM modules to be decoupled and distributed across the network for higher resilience, facilitating edge and geo-redundant deployments. A white paper titled [MEC security: Status of standards support and future evolutions](#) focusing on the MEC (Multi-access Edge Computing) technologies intends to explore 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.

Many other important developments, new concepts and standards released by the Project partners are highlighted through this newsletter. White Papers/ Strategy documents as released by the European standardization bodies and upcoming events/seminars also form an integral part of our newsletter.

We are hopeful that you will find this 8<sup>th</sup> edition of our newsletter, interesting and informative read for all of you. Stay Safe and Blessed.

Warm regards,

Dinesh Chand Sharma

**(Seconded European Standardization Expert in India)**

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## Principles, Partnership, Prosperity: EU and India launch collaboration on sustainable connectivity

On the occasion of the EU-India Leaders' Meeting in Porto and via video conference, the EU and India have concluded a comprehensive [Connectivity Partnership](#), confirming their commitment to collaborate on supporting resilient and sustainable connectivity both in India and in third countries and regions.

The EU-India Connectivity Partnership is the second such partnership. EU-India Connectivity Partnership covers cooperation in the digital, energy, transport, and people-to-people sectors. It is fundamentally rooted in support for the twin digital and green transitions, adherence to and development of international standards, as well as the shared norms and values of social, environmental, economic and fiscal sustainability and level playing field.

The EU and India represent a combined market of 1.8 billion people with a combined GDP of €16.5 trillion per year. By 2030, India will be the most populous country in the world with a median age of just 31. Studies point to growth of over 250% in India's core digital economy between 2019 and 2025. The new Connectivity Partnership therefore aims at pooling resources, norms and expertise to serve the needs for the next generation of sustainable and quality infrastructure. It includes joint work on standards and the regulatory environment, as well as on concrete infrastructure projects.

[Download Joint Statement EU-India Leaders' Meeting, 8 May 2021](#)

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## European Standards support the EU Ambitions on Artificial Intelligence

The European Commission is presenting its new, long-awaited regulation on Artificial Intelligence (AI). This focus on AI on the part of the European Commission brings forward not only valuable questions for the continued evolution and safe deployment of this technology, but opportunities for ensuring the digital sovereignty of Europe for the future. To help address these questions and provide support to the deployment of AI in Europe, European standards play a key role. To organise and develop standardization work on this issue, CEN and CENELEC have established the [CEN-CENELEC Joint Technical Committee 21 'Artificial Intelligence'](#).

This group brings together experts that will implement and lead the recommendations available in [CEN and CENELEC's response](#) to the [EC White Paper on AI](#) and [CEN and CENELEC's Road Map on AI](#). The Joint Technical Committee, whose Secretariat is held by [DS](#), the Danish Standardization Body, will be responsible for the development and adoption of standards for AI and related data, as well as provide guidance to other Technical Committees concerned with AI. Standards are relevant for the evolution of AI for a variety of reasons:

- they provide expertise to an emerging technology, ensuring safety and security for products and services;
- they are intrinsically designed to be an inclusive and market-driven instrument of support for European regulation through the New Legislative Framework, benefitting the Single Market and reducing barriers to trade.

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## ETSI Releases IoT Testing Specifications for MQTT, COAP, Industrial Automation and Control Systems

The ETSI committee on Methods for Testing and Specifications (TC MTS) has recently completed a first set of seven standards addressing the testing of the IoT MQTT and CoAP protocols, and the foundational security IoT-Profile.

The [ETSI TS 103 596](#) series provides an overall test suite structure and catalogue of test purposes for the Constrained Application Protocol (CoAP). It can serve as a reference for both client-side test campaigns and server-side test campaigns. [Part 1](#) specifies the conformance issues, [part 2](#) the security issues and [part 3](#) the performance issues.

The [ETSI TS 103 597](#) series provides an overall test suite structure and catalogue of test purposes for the MQ Telemetry Transport (MQTT). It is also divided into three different parts for [conformance](#), [security](#) and [performance](#) testing.

[ETSI TS 103 646](#) specifies testing for selected security requirements as known in the IEC 6244-4-2 standard. The chosen requirements have been collected by defining a dedicated IoT profile. The resulting IoT profile represents a generic minimum level of security for IoT devices.

All Test purpose catalogues have been produced using the Test Description Language (TDL-TO) specified in ETSI [ES 203 119-4](#). The TDL-TO library modules corresponding to the Test purpose catalogue are contained in an archive which accompanies the standards. The TDL-TO developments have been achieved using the TDL Open Source Project (TOP), which is a free tool supported by ETSI members to write and validate TDL code.

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## Designing Tomorrow's World: ETSI's New Strategy in Line with its Ambitious Vision

Titled 'Designing tomorrow's world', the strategy builds on a recognition of the global importance of Information and Communication Technology (ICT) for a sustainable development and to support the digital transformation of society. Supported by ETSI's innovative, market driven community, ETSI's vision is to be at the forefront of new Information and Communication Technology and to lead the development of standards that enable a sustainable and securely connected society. To deliver this vision, ETSI will follow a path marked by 5 Key Strategic Directions:

- Being at the Heart of Digital
- Being an Enabler of Standards
- Being Global
- Being Versatile
- Being Inclusive

Learn more about ETSI's Strategy at: <https://www.etsi.org/about/our-strategy>

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## A Major Step for Railways Cybersecurity: The New CLC/TS 50701

Cybersecurity is crucial in today's world, as our society increasingly relies on connected infrastructure and devices. In the field of railways, connected trains and infrastructure are seen as a major source of improvement for the management of traffic and capacity, energy efficiency, and network communication. But this trend also means

more potential threats of cyber-attacks. To protect the rolling stock and fixed installations, the support of adequate tools and requirements is needed.

CENELEC contributes to providing this protection with the brand new [CLC/TS 50701 'Railway applications – Cybersecurity'](#) developed by '[CLC/TC 9X - Electrical and electronic applications for railways](#)'. This Technical Specification is a major landmark for the European railway sector, as it aims to provide requirements and recommendations to handle cybersecurity in a unified way for the railway sector.

This Technical Specification applies to communications, signalling and processing domain, to rolling stock and to fixed installations domains. It provides references to models and concepts from which requirements and recommendations can be derived and that are suitable to ensure that the residual risk from security threats is identified, supervised and managed to an acceptable level by the railway system duty holder. CLC/TS 50701 takes into consideration relevant safety related aspects ([EN 50126](#)) and takes inspiration from different sources (IEC 62443-3-3, CSM-RA), adapting them to the railway context.

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## Europe's global approach to cooperation in research and innovation: strategic, open, and reciprocal

The Commission adopted a Communication on its Global Approach to Research and Innovation, Europe's strategy for international cooperation in a changing world. With this, the EU aims to take a leading role in supporting international research and innovation partnerships, and to deliver innovative solutions to make our societies green, digital and healthy.

The global approach to research and innovation reconfirms Europe's commitment to a level of global openness that is needed to drive excellence, pool resources to achieve scientific progress and develop vibrant innovation ecosystems. In view of this goal, the EU will work with international partners to create a common understanding of **fundamental principles and values** in research and innovation, such as academic freedom, gender equality, research ethics, open science and evidence-based policymaking.

The new strategy builds on two principal objectives that come together in a balanced way. First, it aims for a **research and innovation environment that is based on rules and values, and it is also open by default**, to help researchers and innovators around the world work together in multilateral partnerships and find solutions to global challenges. Second, it aims to ensure **reciprocity and a level-playing field in international cooperation in research and innovation**. Besides, the EU's global response to fight the coronavirus pandemic, including through multilateral platforms and Horizon 2020 projects, has shown how we can maximise access to scientific knowledge and international value chains when we join forces.

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## **New CEN-CENELEC standardization project to offer refinements in a European context for Privacy Information Management Systems**

EN ISO/IEC 27701 “Security techniques. Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management. Requirements and guidelines” sets out generic requirements for a Privacy Information Management System whose guidance can be adapted by organisations according to their context and applicable obligations. It can be considered as an international framework, in which it is possible to define more particular, regional refinements.

[CEN and CENELEC’s Joint Committee 13 ‘Cybersecurity and Data Protection’ \(CEN-CLC/JTC 13\)](#) has now started a new project, which aims at developing a standard that offers such refinements for a European context: the aim is to develop guidelines that organisations will be able to use for the purpose of demonstrating compliance with their obligations relating to GDPR.

The refinements that will be set out in the new document relate to processing operations as part of products, processes, and services. Certification bodies will be able to use these requirements and refinements to assess the conformity of both a privacy information management system per ISO/IEC 17021 and the processing operations of a product, process or service per ISO/IEC 17065. Provisions of this document may be considered for the creation of a certification mechanism as per GDPR’s article 42, which establishes this possibility.

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## **Integrating Standardization in Research and Innovation**

CEN and CENELEC are putting significant effort towards integrating standardization with innovation and research in Europe. This strategic initiative was originally conceived in the CEN-CENELEC Innovation Plan (2018) and now supports [Strategy 2030](#) objectives. The projects and actions to achieve this integration are focused towards 3 dimensions:

1. New topics for standardization – deploying and reinforcing existing channels and sources to identify new standardization areas for CEN and CENELEC. Activities include working with the EC DG JRC (Joint Research Centre) later this year to identify possible upcoming topics for the common CEN-CENELEC – JRC action “Putting Science into Standards 2022” that will involve engaging with stakeholders (researchers, industry, policy makers, standardizers...) to initiate a discussion on opportunities and needs for which CEN and CENELEC can enable the development of the necessary standards.
2. Integrating standardization and research – bringing standardization closer to researchers and research activities, seizing opportunities for standardization to bridge the gap between research outcomes and the market. Planned activities include, following the imminent launch of Horizon Europe, identifying opportunities for the early linkage of relevant research actions with standardization through Members’ participation in new research projects to guide project outcomes towards standardization. The CEN-CENELEC Management Centre will support this through systematic screening of calls for research project calls for proposals and share the results with Members.
3. Building capacity and connections – ensuring the CEN and CENELEC system, national Members and internal process are equipped and fit-for-purpose to engage research and innovation.

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## ETSI Releases Mitigation Strategy Report on Securing Artificial Intelligence

ETSI has recently released [ETSI GR SAI 005](#), a report which summarizes and analyses existing and potential mitigation against threats for AI-based systems. Setting a baseline for a common understanding of relevant AI cyber security threats and mitigations will be key for widespread deployment and acceptance of AI systems and applications. This report sheds light on the available methods for securing AI-based systems by mitigating known or potential security threats identified in the recent ENISA threat landscape publication and ETSI GR SAI 004 Problem Statement Report. It also addresses security capabilities, challenges, and limitations when adopting mitigation for AI-based systems in certain potential use cases.

Artificial intelligence has been driven by the rapid progress of deep learning and its wide applications, such as image classification, object detection, speech recognition and language translation. Therefore, [ETSI GR SAI 005](#) focuses on deep learning and explores the existing mitigating countermeasure attacks. [ETSI GR SAI 005](#) describes the workflow of machine learning models where the model life cycle includes both development and deployment stages. Based on this workflow, the report summarizes existing and potential mitigation approaches against training attacks (i.e. mitigations to protect the machine learning model from poisoning and backdoor attacks) and against inference attacks, including those from evasion, model stealing, and data extraction. Mitigation approaches are firstly summarized as model enhancement and model-agnostic, and then grouped by their rationales.

Download the report [CLICKING ON THIS LINK](#).

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## EU Cybersecurity: Commission proposes a Joint Cyber Unit to step up response to large-scale security incidents

The Commission is laying out a vision to build a new **Joint Cyber Unit** to tackle the rising number of serious cyber incidents impacting public services, as well as the life of businesses and citizens across the European Union. Advanced and coordinated responses in the field of cybersecurity have become increasingly necessary, as cyberattacks grow in number, scale and consequences, impacting heavily our security. All relevant actors in the EU need to be prepared to respond collectively and exchange relevant information on a 'need to share', rather than only 'need to know', basis.

The Recommendation on the creation of the Joint Cyber Unit is an important step towards completing the European cybersecurity crisis management framework. It is a concrete deliverable of the [EU Cybersecurity Strategy](#) and the [EU Security Union Strategy](#), contributing to a safe digital economy and society. The Joint Cyber Unit will act as a platform to ensure an **EU coordinated response** to large-scale cyber incidents and crises, as well as to offer **assistance** in recovering from these attacks.

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## Global Accessibility Awareness Day: new brochure on accessibility in standardization



Accessibility prevents or removes barriers to the use of mainstream products and services. CEN and CENELEC, as two of the officially recognised European Standardization Bodies, are on the frontline to achieve [accessibility](#) in Europe: standards are powerful tools to integrate and strengthen accessibility aspects providing a framework, requirements and specifications for accessible products and services.

To steer and streamline its work on accessibility across all relevant sectors, CEN's [Strategic Advisory Group on Accessibility \(SAGA\)](#) recently developed the brochure "[How to address accessibility in standardization](#)": this information leaflet provides guidelines to CEN and CENELEC's technical bodies on how to include accessibility aspects in their standards development work. The brochure is an important tool to foster the adoption and understanding of accessibility in standardization, and also provides a series of examples of good practice showing the wide range of sectors impacted by accessibility.

[Read the full brochure](#)

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## ETSI Open Source MANO Launches Release Ten: Celebrates OSM 5<sup>th</sup> Anniversary

ETSI introduced [OSM Release TEN](#), the 11th Release of an Open-Source project which first announced its [Release ZERO](#) in 2016 with the vision of closing the gap between the traditional way of building telecom networks, and the use of cloud technologies in telcos emerging at that time. Release TEN defines an inflection point in OSM evolution, shifting the main goal from the implementation of a vision to the operation of production deployments. The co-operation agreement [recently signed](#) between ETSI and the O-RAN Alliance is a new and significant step towards positioning OSM as the optimized open solution for the Service Management and Orchestration Framework.

This new OSM Release brings, among other improvements, a new design that allows OSM modules to be decoupled and distributed across the network for higher resilience, facilitating edge and geo-redundant deployments. In addition, OSM Release TEN extends its support of options for public and hybrid cloud deployments with a new connector for Microsoft Azure. This fulfils the promise of orchestrating all major VIMs including OpenStack, OpenVIM, VMWare, Amazon Web Services and Eclipse fog05, as well as Kubernetes clusters.

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## New CWA 17675 Provides a Clear Mapping of Tools for Carbon Management in Europe

Many initiatives have been launched both at national and European level to achieve the [European objectives for climate and energy](#) by 2030 and for the Paris Agreement. One of these is now a reference about environmental policies and governmental actions: [CEN Workshop Agreement 17675 'Mapping of the mandatory and voluntary Carbon Management framework in the EU'](#). Published last 17 March, it is based on proposal by [UNI](#), the Italian National Standardization Body, that involved European companies such as JRC, ADEME, CLEOPA, in addition to other National Standardization Bodies such as [DIN](#) and [BSI](#).

The document collects the regulatory (voluntary) and legislative (mandatory) tools existing in Europe for carbon management, clarifying the relationships and increasing their synergy, in order to maximise the effectiveness of the mitigation actions of greenhouse gases (GHG), facilitating adaptation to climate change and making the path established by EU policies interacting with market dynamics. From the Kyoto Protocol to the Emissions Trading System (EU ETS) and the Green Deal, from the Environmental Footprint of products and organizations (PEF/OEF)

to Sustainable Finance as mandatory policies, this document identifies possible synergies with [EN ISO 14064](#), [EN ISO 14065](#) and [EN ISO 14067](#) on greenhouse gases, after providing a mapping of greenhouse gas emissions in Europe by sector.

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## ETSI Non-IP Networks Releases First Reports

The ETSI Non-IP Networking group (ISG [NIN](#)) has just released its first three Group Reports. The first one, ETSI [GR NIN 001](#), details the shortcomings of TCP/IP for fixed and mobile networks; the second Report, ETSI [GR NIN 002](#), considers testing Non-IP Networking over 5G cellular Radio Access Networks; and ETSI [GR NIN 003](#) describes the networking model that is the foundation for the new technology.

The Report [GR NIN 001](#), titled problem statement: networking with TCP/IP in the 2020s, describes the challenges of IP-based networking for fixed and mobile networks and ways in which new network protocols can result in improved performance and more efficient operation. ETSI [GR NIN 002](#), implementing Non-IP networking over 3GPP cellular access, describes and recommends approaches to test Non-IP Networking (NIN) using mobile radio access. This includes existing mechanisms specified by 3GPP for both LTE and 5G Radio Access Networks, as well as guidance on enabling a non-IP protocol stack directly atop the 3GPP PHY (physical) radio layer. The third Report, ETSI [GR NIN 003](#), illustrates how the Flexilink technology described in another ETSI Specification, ETSI [GS NGP 013](#), can carry multiple services, using as examples RINA, TCP/IP, and digital audio and video, including example packet formats and requirements for the control plane protocols.

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## France invests 1.2 million Euro to Support Standardization of Artificial Intelligence

The French government intends to support French players in the field of artificial intelligence (AI) by creating, through the influence of voluntary standardization, the conditions for access to and success of their solutions and products in France and internationally. This action is part of the 'Invest for the Future' national plan and France's recovery plan. In the future, all critical systems using artificial intelligence will have to be certified. This need for trust in order to access markets is progressively becoming established, judging by the outlines of the European Commission's future regulation on the subject. In addition to this, digital sovereignty issues are increasingly considered important at the highest levels of governments.

**Influencing European and international standards:** Securing the use of AI is fundamental. This is why the French government has decided to commit 1.2 million euro to facilitate the creation of globally accepted consensus standards, under the 'Invest for the Future' national plan and France's recovery plan. AFNOR, which already brings together numerous players representing the AI ecosystem, is charged with leading this mission. This is part of the 'Invest for Future' national program. The objective is to create synergies in France, with other countries within the framework of the International Organization for Standardization (ISO) and other international consortiums.

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## ETSI Releases a White Paper on MEC Security, First Initiative in this Domain

ETSI published a White Paper titled [MEC security: Status of standards support and future evolutions](#) written by several authors participating in MEC and other related ETSI groups. This White Paper, the very first initiative in this domain, aims to identify aspects of security where the nature of edge computing leaves typical industry approaches to cloud security insufficient.

Edge computing environments are by nature characterized by a complex multi-vendor, multi-supplier, multi-stakeholder ecosystem of equipment and both HW and SW devices. Given this overall level of system heterogeneity, security, trust and privacy are key topics for the edge environments. The advent of edge cloud federations and the presence of (far) edge devices e.g. in Internet-of-Things environments, imposes to tackle MEC security in an end-to-end (E2E) approach, by leveraging existing standards relevant in the area. In this heterogeneous scenario, talking about end-to-end MEC security implies to consider the impact on the elements coming from all stakeholders involved in the system. In this perspective, the paper provides an overview of ETSI MEC standards and current support for security, also complemented by a description of other relevant standards in the domain (e.g. ETSI TC CYBER, ETSI ISG NFV, 3GPP SA3) and cybersecurity regulation potentially applicable to edge computing. The White Paper concludes on a general perspective of future evolutions and standard directions on MEC security.

Download the [MEC security: status of standards support and future evolutions](#) White Paper [HERE](#)

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## Standards@Rail: CEN and CENELEC celebrate the European Year of Rail

2021 is the [European Year of Rail](#). On this occasion, CEN and CENELEC are proud to highlight the important role European standards play to ensure the well-functioning of a key sector for the future of Europe. Standardization on railways application is part of CEN and CENELEC's wider work on [transportation](#), a complex and large portfolio: it includes 1234 standards from CEN and CENELEC. These standards are mainly developed by two Technical Committees (TCs), [CEN/TC 256 'Railway Applications'](#) and [CLC/TC 9X 'Electrical and electronic applications for railways'](#). In particular, standards on rail cover a wide range of topics specifically related to railways applications (products, processes and services), such as, among others, safety, rolling stock capacity, system efficiency, as well as cybersecurity, digitalisation, and automatic couplings. This work on rail contributes massively to the development of safe, innovative and efficient railway systems infrastructure, rolling stock and systems, and supports the EU in its strategic ambitions.

The many (and surprising ways) in which European standards support rail transport are showcased in the new cartoon "[Standards@Rail](#)", developed by CEN and CENELEC to celebrate the European Year of Rail. You can download it [here](#).

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## [EMPIR MeterEMI project - Report on current waveforms for static meter testing](#)

EMPIR MeterEMI project has released a report on current waveforms for static meter testing. In the report on the selection of recommended test waveforms for meters, in which is explained the rationale for the waveforms and methods used to accurately and efficiently specify these waveforms. In summary:

- Most recommended waveforms are based on recordings on-site at real meter connection points. The waveforms have been simplified using a set of parameters, so they can be written down accurately and efficiently, suitable for inclusion in a future standard.
- All recommended simplified waveforms have been generated on an arbitrary-waveform testbed and several produce gross meter errors on “faulty” meters similar to the original on-site recordings.

The appendix of the report is a good starting point to consider possible future test waveforms in which seven of the most severe type of current waveforms are shown together with their parameters. In the end a combination of different types of waveforms would be recommended. Given the on-going situation with some models of electricity meter, it is the strong recommendation from this research project that some future immunity testing to this type of waveform is introduced to international standards.

This report and other relevant material will shortly be available at: <http://empir.npl.co.uk/meteremi/publications/>

## [Whitepapers/Publications](#)

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### [ETSI white paper on Future ICT Technology Trends](#)

ETSI White Paper describing the ETSI Technology Radar, that highlights the probable technology trends that may influence ETSI's quest to remain at the forefront of ICT standardization. The document is intended to promote the awareness and discussion of the impact and evolution of such technology trends among ETSI members and the ICT community as a whole.

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### [The CEN and CENELEC Annual Reports 2020 are out!](#)

The document provides an overview of the relevant and diverse standardization activities that the CEN and CENELEC community implemented over the course of 2020, a challenging but successful year.

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### [ETSI Magazine enjoy! – April 2021](#)

ETSI magazine is issued four times per year and it covers articles about technologies and standardization.

Download ETSI magazine [here](#)

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### [The new CEN and CENELEC Global Outreach Report](#)

This report provides a summary of CEN and CENELEC's level of harmonisation with ISO and IEC, their partnerships outside Europe, as well as the adoptions of CEN and CENELEC standards around the world, including evolutions and trends. It also includes a dedicated section on the adoptions by partners outside CEN membership of several

CEN standards in the medical devices and personal protective equipment (PPE) sectors and which were made freely available by CEN members in the context of the COVID-19 pandemic.

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### **EFTA 60th Annual Report**

The [60<sup>th</sup> Annual Report](#) of the European Free Trade Association has been published. The report gives an overview of EFTA's activities and duties throughout 2020 in the areas of managing the EEA Agreement, EFTA's worldwide network of Free Trade Agreements (FTAs), and the EFTA Convention.

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## **Events Calendar 2021**

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### **oneM2M Webinar: Sustainable IoT – Low-Code, Low-Maintenance and Ultra Low-Power Approaches**

**When: 20 July 2021**

**Where: Online**

The Internet of Things (IoT) is a fundamental enabler of sustainability through its remote sensing and control capabilities in 'green' ICT solutions. Wider adoption, however, depends on using technology sustainably.. For more information, please [click here](#)

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### **Webinar: Getting Value from the EC Rolling Plan for ICT Standardization**

**When: 22 July 2021**

**Where: Online**

The ETSI webinar will provide understanding of the strategic importance and overall purpose of the annual EC ICT Rolling Plan for ICT standardization. For more information, please [click here](#)

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### **Webinar: Intelligent Energy Management of DC**

**When: 27 July 2021**

**Where: Chinnappa Associates, Bengaluru, India**

This webinar for the ENI Proof of Concept (PoC) will provide viable solutions and methodologies for the energy management of DCs (Data Centre) through the use of a set of AI algorithms based on DC dynamic environment data, focusing on techniques such as Machine Learning and Data Mining. DC energy management policies will be based on general and specific AI models to help DCs achieve a better PUE (Power Usage Effectiveness) and reduce OPEX for telecom operators. For more information, please [click here](#)

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### **NFV Plugtests Programme**

**When: 01-15 October 2021**

**Where: Virtual**

The NFV&MEC IOP Plugtests 2021 will be offering NFV and MEC solution providers and open source projects an opportunity to meet and assess the level of interoperability of their NFV and MEC solutions. For more information, please [click here](#)

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### **10-10 webinar: Presentation of the changes introduced in the CEN and CENELEC bylaws**

**When: Friday 10 September, 2021**

**Where:Online**

This webinar will address important changes that will be introduced in the CEN & CENELEC Statutes, Articles of Association, as well as the Internal Regulations, in order to comply with the new Belgian Code on Companies and Associations. For more information, please [click here](#)

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**Standards in support of the industrial data value chain****When: 28 Sep 2021****Where: Online event (BELGIUM)**

The use of data has changed the way most businesses operate worldwide, ranging from traditional sectors to new emerging technologies, by supporting core processes or delivering insights to improve efficiency. For more information, please [click here](#)

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**Webinar 'Biodiversity – harmonization through voluntary standards'****When: 1 October 2021, 10:00 - 11:00 CEST****Where: Virtual**

This webinar will introduce the importance of biodiversity, related European policy and legislative priorities For more information, please [click here](#)

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**TECHNICAL PLENARY 51 (VIRTUAL)****When: 30 August 2021****Where: Virtual**

Due to the global sanitary situation it was decided to hold a virtual meeting. For practical reasons it will be held for a longer period. Further details will be published in due time. For more information, please [click here](#)

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**External Event - Future of Communication Conference****When: 27 September 2021****Where: Virtual**

oneM2M is a partner of this conference that will address how service providers, content providers and data centers envision the future of their respective online and mobile services, whether it be 5G or other platforms and what they need. For more information, please [click here](#)

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## About Project SESEI

*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)