

# SESE SECONDED EUROPEAN STANDARDIZATION - EXPERT IN INDIA Newsletters —







European Committee for Electro Technical Standardization



European Telecommunications Standards Institute



European Commission



European Free Trade Association

Dear Readers

As we step into the new phase of SESEI Project, we are excited to release the latest edition of "SESEI Newsletter – India" for the month of December 2024. This Newsletter carries key updates on EU's standardization efforts covering topics Digitalisation, Clean & Green Technologies, including international collaborations, as well as the drive for innovation through initiatives like 6G research and Al integration.

Standards based research are integral to industry and businesses. CEN & CENELEC's <u>Guide 17</u> provides awareness on the issues that are important to SMEs in the development of standards and on this a video to help SMEs was released on the <u>World Standards Day</u>. Another important initiative taken by CEN-CENELEC is to grant access to the bibliographies of their homegrown standards and their publications as part of the overall information available on the <u>CEN and CENELEC</u> website.

For boosting the cyber resilience and security of critical digital infrastructure, the EU Commission has adopted the rules on cybersecurity for critical entities and networks. Also, for ensuring security for Consumer IoT devices, ETSI has released a updated guidelines through ETSI EN 303 645 V3.1.3 (2024-09) outlining high-level security provisions for consumer IoT devices. ETSI has also announced the release of 4th edition of TeraFlowSDN, adding new features for Quantum Key Distribution (QKD) integration, OSM Release Sixteen - Long-Term-Support (LTS), and Release 3 specifications on Fifth Generation Advanced Fixed Network (F5G-A). New joint Technical Committee, JTC 25 'Data management, Dataspaces, Cloud and Edge', has been launched by CEN-CENELEC to develop standards in support of widespread adoption of digitalization by making data accessible to all, while ensuring its security.

As per latest climate action progress report published by the European Commission, the net greenhouse gas emissions are now 37% below 1990 levels, whereas the EU Gross Domestic Product (GDP) grew by 68%, proving that reducing emissions and economic growth are compatible. CEN-CENELEC has created a coordination group on Hydrogen (CEN-CLC/COG H2) to ensure more coherence across the whole set of hydrogen standards. CEN-CENELEC JTC 14 has published EN 17669:2022 'Energy Performance Contracts-Minimum requirements', to support the EU's energy transition, focusing on efficiency and climate change mitigation.

Information and links of important White Papers and reports released on Artificial Intelligence, Smart Manufacturing, are part of this newsletter. The newsletter also provides details of upcoming events organised by European Standardization bodies which could be of interest to you. We would like to conclude by conveying Merry Christmas, Happy New Year 2025 with the hope that you will find this newsletter informative.

Happy Reading!!

Best regards,
Dinesh Chand Sharma
Director Standards & Public Policy

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# ル Generic/ Standards



## Visit of DG and CTO, ETSI to India

Mr. Jan Ellsberger, the new Director-General of ETSI visited India on 11th October 2024, together with Mr. Issam Toufik, CTO at ETSI. During their visit they had formal meetings with the Telecom Standardisation Development Society of India (TSDSI), the Bureau of Indian Standards (BIS) and the Telecom Engineering Centre (TEC). These meetings were facilitated by the SESEI project (Seconded European Standardisation Expert in India).

Mr. Jan Ellsberger shared the ETSI vision, new strategy and initiatives with the Indian stakeholders. While elaborating on the new scope of activities, DG ETSI stated that AI. Data. Quantum Computing, Sustainability and collaboration with Research Programs are key areas for expansion. He reaffirmed ETS's commitment to developing world-class global standards and to further strengthening its role as a European Standards Organisation (ESO). Increased global cooperation with focus on India, Southeast Asia, Middle East & Africa is also an element of new strategy at FTSI.

As the new Director-General of ETSI, Mr. Ellsberger appreciated India's vibrant and rapidly growing technology landscape, noting the immense opportunities for collaboration for Europe and India, as technology partners. He suggested that they are ideally positioned to explore the potential of 6G, and unlock the possibilities of AI, IoT/M2M, and smart infrastructure.

Mr. Jan Ellsberger declared "I firmly believe that by working together - combining India's innovative spirit with Europe's expertise in standardization - we can shape the global future of connectivity, security, and sustainability."

# Dive into Guide 17 to better understand SME standardization

Guide 17 is an important CEN and CENELEC document that aims to raise awareness on the issues that are important to SMEs in the development of standards. For

<u>World Standards Day</u> on 14 October 2024, CEN and CENELEC, together with <u>SBS</u>, the European association representing SMEs in standardization, produced a video to facilitate-

the participation of SMEs in standardization by promoting Guide 17. <u>Guide 17</u> proposes several strategies to address SMEs' needs in the standards drafting process. It features:

- information on the preparation of new work items;
- issues to be considered when drafting a standard;
- developing the content of the standard;
- the structure and presentation of the content;
- the implications resulting from standards;
- a final checklist helping standard writers to take into account SME needs.

To make is easier to use Guide 17, various language versions are available for free on the CEN and CENELEC website.

# Access to bibliographies of CEN and CENELEC homegrown standards

From now on, CEN and CENELEC grant access to the bibliographies of their homegrown standards and standard publications, thus complementing the bibliographic information that is already available on the ISO website for international standards.

The <u>Code of Practice (CoP) on standardization for researchers</u>, adopted on 1 March 2023 by the European Commission (Commission Recommendation (EU) 2023/498), recommends promoting standardization as a means of knowledge valorisation at the national and regional level. Having a scientific publication referenced in a standard's bibliography proves the importance of the scientific publication for standardization.

Following the STDBIBLIO project financed by the European Commission and the European Free Trade Association (EFTA), CEN and CENELEC now offer access to the bibliographies of their homegrown standards and standard publications as part of the overall information available on the CEN and CENELEC website.

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# Digitization



# New rules to boost cybersecurity of EU's critical entities and networks

The Commission has adopted the first implementing rules on cybersecurity of critical entities and networks under the Directive on measures for high common level of cybersecurity across the Union (NIS2 Directive).

This implementing act details cybersecurity risk management measures as well as the cases in which an incident should be considered significant companies providing digital infrastructures and services should report it to national authorities. This is another major step in boosting the cyber resilience of Europe's critical digital infrastructure.

This adopted implementing regulation will apply to specific categories of companies providing digital services, such as cloud computing service providers, data centre service providers, online marketplaces, online search engines and social networking platforms, to name a few. For each category of service providers, the implementing act specifies when an incident is considered significant, to whom it needs to be reported and in which timeframe.

The adoption of the implementing regulation coincided with the deadline for Member States to transpose the NIS2 Directive into national law. From 18 October 2024, all Member States must apply the measures necessary to comply with the NIS2 cybersecurity rules, including supervisory and enforcement measures.

Read Full Press Release >

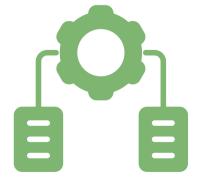
## **ETSI announces TeraFlowSDN Release 4**

ETSI is pleased to announce the 4th Release of TeraFlowSDN, the Software-Defined Networking (SDN) controller developed by Software Development Group TFS. Release 4 brings a large suite of new features designed to provide Quantum Key Distribution (QKD) - -integration, end-to-end Network Automation Monitoring, and significant improvements in Network Management, Optical Networks, Security and Blockchain Integration, among others.

- Quantum Key Distribution: In response to the growing need for secure communication in the quantum era, TeraFlowSDN Release 4 includes support for Quantum Key Distribution (QKD).
- **End-to-end Network Automation and Monitoring:** TeraFlowSDN has significantly improved its network automation and monitoring capabilities by aligning with the ETSI Zero-touch network and Service Management (ZSM) architecture.
- Network Management: TeraFlowSDN Release 4 includes functionality to retrieve logical inventory from network devices, including detailed information such as ACLs, interfaces, routing policies, and VRFs using NETCONF and OpenConfig data models via the device driver
- Optical Networks: The TeraFlowSDN Controller now supports the complete life cycle management of both optical band and media-channel configurations with emulated NETCONF devices.
- Security and Blockchain Integration: The existing Distributed Ledger Technology (DLT) Gateway functionality has been replaced with a new opensource component compliant with Hyperledger Fabric v2.4+.

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# ETSI Releases New Guidelines to Enhance **Cyber-security for Consumer IoT Devices**

In response to the growing concern over cybersecurity and data protection on the Internet of Things (IoT) landscape, ETSI has released a comprehensive document ETSI EN 303 645 V3.1.3 (2024-09) outlining high-level security provisions for consumer IoT devices. As more household devices connect to the internet, safeguarding personal data has become a paramount issue for manufacturers and consumers alike.

The newly introduced guidelines are designed to support stakeholders involved in the development and manufacturing of IoT devices, providing a flexible framework to innovate while ensuring a baseline level of security. The document emphasizes outcome-focused provisions, steering clear of overly prescriptive measures, allowing organizations the freedom to tailor security solutions for specific products. Key features of the document include:

- Baseline Provisions: Establishing fundamental security requirements applicable to all consumer IoT devices.
- Guidance for Implementation: Providing organizations with clear examples and explanatory text on how to apply the provisions.
- Compliance with GDPR: Ensuring that IoT devices processing personal data align with General Data Protection Regulation standards.
- Future proofing: Anticipating that future revisions will transition current recommendations into mandatory provisions.

The document encompasses a wide array of consumer IoT devices, including smart home assistants, connected appliances, health trackers, and more. It also considers the unique resource constraints that these devices may face, such as limited processing power and energy supply. For more information on the guidelines and their implications for the future of consumer IoT, please

Click Here (>)

# **ETSI Open-Source MANO announces Release** SIXTEEN, enabling cloud-native orchestration of cloud infrastructure and applications

The ETSI Open-Source MANO community is proud to announce OSM Release SIXTEEN, a Long-Term-Support (LTS) release of ETSI OSM, which becomes the most innovative and feature-packed release shipped by OSM to date.

This release brings a revolution in OSM's functionality, positioning OSM as a generalized cloud-native orchestrator for infrastructure, platforms and services, which extends significantly its former scope. Full cloudnative management of Kubernetes clusters in public clouds, together with the applications or software units-running on them, is now possible with Release SIXTEEN. Every operation related to the cluster management (creation, upgrading, scaling, deletion) or the applications running on them is reflected in Git repositories, following the GitOps model. This has been possible thanks to a major change in the internal architecture of OSM.

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### CEN and CENELEC launch a new technical committee on Data management, Dataspaces, Cloud and Edge

Data is the fuel driving innovation, transforming industries, and shaping the future of Europe's digital economy. With data at the core of this transformation, it is crucial to make data accessible to all, while ensuring its security. In support of this vision, CEN and CENELEC have announced the creation of a new joint Technical Committee, JTC 25 'Data management, Dataspaces, Cloud and Edge'.

The newly established JTC 25 will develop standards to support the widespread adoption of digitalization and the establishment of a fully functioning Single Digital Market for the EU. The goal is to ensure the European industry is more efficient, productive, competitive, and fully integrated in the global digital market.

The JTC's work will help reduce compliance costs and market entry barriers, enhance innovation and competitiveness, facilitate seamless data exchange and create business opportunities. Special focus will be placed on ensuring interoperability. Furthermore, data-driven innovation can benefit a range of areas, such as healthcare, transport, and environmental sustainability.

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# ETSI completes F5G Advanced Release 3 enabling 10Gbits to everybody

ETSI announced the completion of its Release 3 specifications on Fifth Generation Advanced Fixed Network (F5G-A). Building on the achievements of the Release 1 and Release 2, the ETSI ISG F5G has specified a series of new features and capabilities, further elevating fixed fiber networks to a new level:

Specification of F5G Advanced: ETSI ISG F5G unveiled the "F5G Advanced Generation Definition", which not only further enhances existing three foundational features of F5G-Enhanced Fixed Broadband (eFBB), Full Fiber Connectivity (FFC), and Guaranteed Reliable Experience (GRE), but also introduces three new key features: Realtime Resilient Link (RRL), Optical Sensing and Visualization (OSV), and Green Agile Optical network (GAO).







In terms of quantitative advancements, F5G-A delivers substantial improvements over F5G, including:

- A tenfold increase in bandwidth (from Gigabit/s to 10 Gigabit/s)
- A tenfold increase in fiber connection density
- Tenfold improvement in energy efficiency
- Enhanced reliability from five nines (99.999%) to six nines (99.9999%)
- Improved quality of experience, L4 autonomous network

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# ETSI NFV Release 5 (Version 5.1.1) is now available!

The ETSI Industry Specification Group for Network Functions Virtualization (ISG NFV) has published its specifications of Release 5 first drop as version 5.1.1. In this version, many study reports to enhance NFV framework have been completed, such as support for virtualized RAN (ETSI GR NFV-IFA 046), multi-tenancy in NFV (ETSI GR NFV EVE 018), and Green NFV (ETSI GR NFV-EVE 021).

These features are expected to extend the ETSI NFV framework with additional capabilities and ETSI NFV specifications will be enhanced accordingly in subsequent versions in Release 5.

Enhancements in Release 5 enable several new capabilities and features in NFV and extend Release 4 features, for example enhancements to support NFV for vRAN, extending the possible VNF configuration options, study the applicability of the SBA design in NFV-MANO, gap analysis regarding the relationship with open source activities, like also enhancements in the NFV framework to support Physical Infrastructure Management (PIM) (ETSI GS NFV IFA 053).

PIM and Container Infrastructure Service (CIS) Cluster Management (CCM) can support the management of CIS clusters which serve as the underlay of both cloudenvironments and virtualized native resource environments. In addition, in Release 5 additional topics have been investigated to further support both virtualized and containerized deployments (like e.g., 5GC), NFV connectivity, NFV for 5G, VNF generic OAM and PaaS Services, and certificate management.

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# EU allocates €500 million in funding for 6G research

In its third call for proposals, SNS JU allocated an additional €130 million, selecting 16 innovative projects aimed at developing 6G network infrastructure, platforms, and services. With a robust response, the call attracted applications from 1,874 participants across 33 countries, underscoring Europe's strategic focus on advancing telecommunications. The SNS-JU is a publicprivate partnership funded by the European Commission.

Key projects include:

- FLECON-6G: Developing an intelligent, flexible, and secure 6G architecture.
- UNITY-6G: Crafting an Al-based, sustainable network architecture.
- 6G-LEADER: Enhancing radio access networks with Aldriven algorithms.
- AMBIENT-6G: Introducing energy-neutral IoT devices powered by ambient energy.
- XTRUST-6G: Establishing a quantum-safe, zero-trust security framework.
- AMAZING-6G: Conducting large-scale trials in sectors like healthcare and energy.

Meanwhile, SNS JU has selected Nokia to be the coordinator of the SUSTAIN-6G lighthouse project. Nokia will lead a consortium of innovators that will identify how 6G can play a key role in building a sustainable future.

Telecom Lead 😥



# World Standards Day 2024: Standards contribute to trustworthy Al

On 14 October, CEN and CENELEC joined the international standardization community to celebrate World Standards Day. Under the motto "Shared visions for a better world", to highlight the many ways in which international standards contribute to building a sustainable future.

For the past few years, World Standards Day has been dedicated to raising awareness on how standards support the **Sustainable Development Goals (SDGs)**. This year, the spotlight is put on SDG 9 on Industry, Innovation, and Infrastructure in the age of Artificial Intelligence (AI).

In the age of AI, with many questions and uncertainties, standards are more important than ever. Voluntary, consensus-based standards offer shared rules of behaviour, facilitate the dissemination of best practices, contribute to the fast transmission of innovation, and foster global trade. Here is a list of a few specific examples of how standards can help shape the future of AI:

- EN ISO/IEC 23894:2024 Guidance on risk management: This standard provides guidance on how organizations that develop, produce deploy or use products, systems and services that utilize artificial intelligence (AI) can manage risk specifically related to
- CEN/CLC ISO/IEC/TR 24027:2023 Bias in AI systems and Al-aided decision making: This technical report addresses bias in relation to AI systems, especially with regards to Al-aided decision-making.
- EN ISO/IEC 8183:2024 Data life cycle framework: This document defines the stages and identifies associated actions for data processing throughout the artificial intelligence (AI) system life cycle, including acquisition, creation, development, deployment, maintenance and decommissioning.

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# Green and Clean Technologies



# CEN and CENELEC established a new coordination group on Hydrogen



The CEN and CENELEC Technical Boards (BTs) decided to create a CEN and CENELEC Coordination Group on Hydrogen (CEN-CLC/COG H2). The aim is to ensure more coherence across the whole set of hydrogen standards.

The primary objective of establishing the CEN and CENELEC Coordination Group on Hydrogen is to have more coordination on hydrogen standardization across the entire value chain, while considering the effective structures already in place. Comprehensive coordination is essential in order to avoid overlaps and duplication of work, identify gaps, and allocate work where needed.

The group aims to establish coordination mechanisms between technical bodies to enable the effective running and allocation of standardization activities on hydrogen. The activities will foster and contribute to the implementation of the <u>EU Hydrogen Strategy</u>, supporting the further development of hydrogen production, transmission, storage and distribution infrastructures, as well as industry use and end-use appliances throughout the EU.

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# CEN-CENELEC JTC 14 published new standard EN 17669:2022 'Energy Performance Contracts-Minimum requirements'

The CEN and CENELEC Joint Technical Committee 14 'Energy management and energy efficiency in the framework of energy transition' announced the publication of the new standard EN 17669:2022 'Energy Performance Contracts-Minimum requirements' developed by their Working Group 4 'Energy financial aspects'. Energy efficiency and energy performance improvement are the pillars of the energy transition and are the two most cost-effective ways to address a growing demand for energy, climate change mitigation, energy security and increased competitiveness.

Energy Performance Contracts (EPCs), defined in the Energy Efficiency Directive (EED) 2012/27/EU, have been analyzed from many organizations (private and Public Administrations) to proper define the contractual arrangement between the beneficiary and the provider of energy performance improvement measures. The implementation of the new Energy Efficiency Directive (EU) 2018/2002 and the Fit for 55 Plan has the goal to reach an ambitious energy efficiency target. This requires barriers to be removed in order to facilitate investment in energy performance improvement actions. The new EED recast that will be approved in the coming months endorses the energy first principle and EPC relevance.

EN 17669:2022 has been developed to meet those needs. It is applicable to private and Public Administration organizations, regardless of their size and specifies the minimum requirements of the EPCs that matches the demand of:

**EN 17669:2022** is a de-risking and value generating tool as it provides a general framework from energy audit to measurement and verification of the guaranteed energy performance improvement measures for the whole term of the contract.







EN 17669:2022 is a de-risking and value generating tool as it provides a general framework from energy audit to measurement and verification of the guaranteed energy performance improvement measures for the whole term of the contract.

The standard can play an important role enabling the scale up of the European energy service market to meet the "EU Fit for 55" commitments of 38% energy efficiency improvement for final consumption by 2030.

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# Climate report shows the largest annual drop in EU greenhouse gas emissions for decades

EU greenhouse gas emissions fell by 8.3% in 2023, compared to 2022, reveals the latest climate action progress report by the European Commission. The report states that net greenhouse gas emissions are now 37% below 1990 levels. Over the same period, EU Gross Domestic Product (GDP) grew by 68%. This points to the fact that reducing emissions and economic growth are compatible. It also confirms that the EU remains on track to reach its goal of reducing emissions by at least 55% by 2030.

- a record 16.5% decrease in 2023 emissions from power and industrial installations that are listed under the EU Emissions Trading System.
- a 24% decrease in emissions from electricity production and heating, under the EU Emissions Trading System, driven by the growth of renewable energy sources, in particular wind and solar energy.
- the EU Emissions Trading System generated revenues of €43.6 billion in 2023 for climate action investments.
- around a 2% decrease in 2023 of overall buildings, agriculture, domestic transport, small industry and waste emissions.
- an 8.5% increase in 2023 in the EU's natural carbon absorption, reversing the recent declining trend in the land use and forestry sector.

During the past 5 years, the EU has led the way on climate tackling change and environmental degradation under its European Green Deal. It has adopted a set of proposals to make the EU's climate, energy, transport and taxation policies fit for reducing net greenhouse gas emissions by at least 55% by 2030, compared to 1990 levels. It is also working towards the goal of no net greenhouse gas emissions by 2050. Work in this area will remain a priority under the new Commission mandate.

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## Hydrogen Europe and GH2 India sign MoU at EUH2Week

At the European Hydrogen Week, where India is the exclusive partner country, Hydrogen Europe and the Green Hydrogen Association (GH2 India) signed a Memorandum of Understanding (MoU) to foster collaboration and mutual support, strengthening knowledge exchange to promote the advancement of the hydrogen sector across Europe and India. This strategic partnership aims to develop common initiatives for the benefit of both regions, providing a contribution to the sector at global level and increasing the regular exchanges of best-practices relevant to both markets. The associations' shared objectives of enhancing industry standards and promote sustainable development will be facilitated by this initiative, supporting a favourable framework for the scaling up of the clean hydrogen supply chain in both Europe and India. The partnership between Hydrogen Europe and GH2 India underscores both regions' dedication to fostering a robust, resilient, and sustainable hydrogen economy that supports the transition to clean energy on a global scale. Designated as one of the EU's strategic partners, India shares the European commitments to effective multilateralism and sustainable development.

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# Whitepaper/Publication



ETSI whitepaper on "AI Technologies in Experiential Networked Intelligence to Increase Autonomous Operation"

ISG ENI focuses on defining the functionalities and architecture to increase the Autonomous operation of a communication network, thereby enhancing the overall operator experience. Artificial Intelligence (AI) technologies in ENI can be used throughout the lifecycle of the various domains making up the infrastructure (e.g., Campus, Radio, Fixed Access, Backbone, Core, Data centre) as well as the lifecycle of the services provided to the end users (e.g., VPN, IoT, mobile, customized slices of application-specific functionality, and fixed access).

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ETSI White Paper on "Standards in support of Europe's Digital Infrastructure Needs"

The whitepaper "How to master Europe's digital infrastructure needs?" highlights the critical role of cutting-edge digital network infrastructure in driving economic growth, societal development, and innovation within the European Union (EU). Emphasizing secure and sustainable digital infrastructures as a key pillar of the EU's Digital Decade Policy Programme 2030, it underscores the importance of advanced connectivity for various sectors, including healthcare, agriculture, and manufacturing.

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CEN, CENELEC and ETSI Coordination Group on Smart Manufacturing -Recommendation Paper CEN, CENELEC and ETSI have prepared a recommendation paper on Industrial Data, which was developed by the CEN-CENELEC-ETSI Coordination Group on Smart Manufacturing.

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New reports and recommendations from several HLF workstreams are now available

The European Commission continues to publish new reports from the High-Level Forum on European Standardization's workstreams. The new reports include recommendations on standardization in different fields and how they can support the relevant sectors across Europe.

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Clean Industrial Deal -ECOS recommendations This new deal should include a focus on zero pollution, including the effects of toxic pollution on human health and the environment, and clean material streams in the circular economy, with a priority on conserving natural resources and contributing to ecosystem restoration.

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# Upcoming Events



ETSITC DECT DECT-2020 NR technology introduction and release 2 functionality and application information

When: 28 January 2025

Where: Online

This event will provide information on DECT-2020 NR technology and standards proceeding and activities in ETSI TC DECT. We will introduce the technology design principles on radio access and how it is optimized for local networks operation and shared spectrum use. We will also provide information on first application utilizing DECT-2020 NR in their design

**More Information** >



ETSI AI Conference - How Standardization is Shaping the Future of Al

When: 10-12 February 2025

Where: ETSI, Sophia Antipolis, France

The ETSI AI Conference has been designed to provide attendees with the unique opportunity to exchange with AI subject-experts and learn about the state of the art work that is being done in Al-related standardization, regulation and service deployments.

**More Information >** 



NGSI-LD Plugtests

When: 24-28 February 2025

Where: Sophia Antipolis, France

The ETSI NGSI-LD Plugtests event will enable implementers of the NGSI-LD protocol and the associated API to run interoperability and conformance test sessions to assess the level of interoperability of their implementation and validate the understanding of the standards.

**More Information >** 







# **ABOUT PROJECT**

The SESEI project (Seconded European Standardization Expert in India) is a project cofunded 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 (<a href="http://sesei.eu/">http://sesei.eu/</a>) is managed by the European Telecommunications Standards Institute (ETSI - <a href="http://www.etsi.org/">http://www.etsi.org/</a> 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) - <a href="http://www.cencenelec.eu">http://www.cencenelec.eu</a>, as well as by the European Commission (<a href="www.ec.europa.eu">www.ec.europa.eu</a>) and the European Free Trade Association (<a href="http://www.efta.int/">http://www.efta.int/</a>). It is a Standardization focused project, with a priority emphasis on the sectors falling under Digitization and Clean & Green Technologies etc.



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