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European Committee for Standardization



European Committee for Electro Technical Standardization



European Telecommunications Standards Institute



European Commission



European Free Trade Association

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Greeting from SESEI!



Dear Readers,

On behalf of the SESEI Project, we extend a very warm welcome to all of you while presenting this "SESEI Newsletter – India" 12th edition covering important information and latest updates on emerging and new technologies and standardisation work carried out by the European Standards Organisations & Policy Makers for the period of April to June 2022 concerning our project priority sectors.

This quarter has been exciting for both India and The European Union (EU) as they resumed talks for the India-EU Free Trade Agreement (FTA) negotiations after a gap of nine long years. The talks were formally re-launched at an event held at the European Union headquarters in Brussels on June 17 by the India's Commerce and Industry Minister Shri Piyush Goyal, and Mr. Valdis Dombrovskis, Executive Vice-President of the European Commission.

Another important update this quarter has been regarding the establishment of EU-India Trade and Technology Council. This strategic coordination mechanism will allow both partners to tackle challenges at the nexus of trade, trusted technology, and security, and thus deepen cooperation in these fields between the EU and India.

Following the signing of MoU between CEN-CENELEC and BIS, Bureau of Indian Standards (BIS) has also signed it with the ETSI with a common objective to perform & promote international standardization, adopting a complimentary approach to the standardization, fostering closer cooperation, and further strengthening their relationship. The MoU will provide an opportunity to adopt each other's standards, exchange information, knowledge and share best practices by way of organizing joint meetings, conferences while promoting topics of mutual interest. This partnership will also help partners to further promote the use of interoperable standards-based products and services.





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Under the provisions of MoU between CEN-CENELEC & BIS signed, a comprehensive study and training visit was organized by SESEI for the delegation of BIS Officials. The main objective of the study tour was to enhance the understanding of the European standardization system and process, policy making, best regulatory practices, exchange of information and experience on regional and international standardization, specifically focusing on key areas of digitization, sustainability, safety and security and inclusiveness.

It has been acknowledged that to attain and aid the sustainability, standards will play a key role and in this direction CEN-CENELEC through a new dedicated online tool, have mapped the direct contributions standards can make to the UN Sustainable Development Goals (SDGs). Similarly, CEN-CENELEC are also fully committed to the digital and green transition for the Europe and their new strategy called "CEN and CENELEC Strategy 2030" is a testimony to the same. Eurostat, the statistical office of the European Union has published the 'Sustainable development in the European Union — 2022 monitoring report" covering progress towards the SDGs in an EU context', which provides a statistical overview of progress towards the Sustainable Development Goals (SDGs) in the EU. The data included in the report shows that the EU has made progress towards most of these goals over the last five years, which is also in line with Commission's priorities of key policy areas such as the European Green Deal, the Digital Strategy, and the European Pillar of Social Rights Action Plan.

On the issue of safety and security, EU Member States, with the support of the European Commission and the EU Agency for Cybersecurity - ENISA, have published a report on the cybersecurity of Open RAN. This new type of 5G network architecture will in the coming years provide an alternative way of deploying the radio access part of 5G networks based on open interfaces. This marks another major step in the coordinated work at EU level on the cybersecurity of 5G networks, demonstrating a strong determination to continue jointly respond to the security challenges of 5G networks and to keep abreast of developments in the 5G technology and architecture. The Commission also welcomed the political agreement reached between the European Parliament and EU Member States on the Directive of "measures for a high common level of cybersecurity across the Union (NIS-2 Directive) proposed by the Commission in December 2020. To support the Cybersecurity challenges, ETSI has announced a new cyber security specification for Home Gateways, called ETSI TS 103 848 as developed by the ETSI's CYBER Technical Committee (TC). Adapted from the provisions of its first published standard to secure consumer IoT devices, EN 303 645, this technical specification will secure physical devices between the in-home network and the public network, as well as the traffic between these networks.







Further, ETSI's 5th Generation Fixed Network group (ISG F5G) has released its first specification for F5G Network Architecture ETSI GS F5G 004. This architecture will deliver a variety of services to residential and business customers over a single physical network with guaranteed SLAs (service level agreements).

ETSI has also announced the creation of a new open-source group called TeraFlowSDN. Based upon the results of the European Union funded "TeraFlow 5G PPP research project", this new group hosted by ETSI will provide a toolbox for rapid prototyping and experimentation with innovative network technologies and use cases.

The newsletter will provide you with host of information about new standards and policies. We request you to please take time out to read this interesting and informative Newsletter especially curated for Indian standardization stakeholders. We have also provided information on the new and upcoming events in which you can participate online / hybrid. With hope that you will find this newsletter informative, we wish you happy reading.

Warm Regards, Dinesh Chand Sharma

SESEI Seconded European
Standardisation
Expert in India
Enabling Europe-India Cooperation on Standards









Bureau of Indian Standards signs MoU with ETSI

Bureau of Indian Standards (BIS), India's national standards body, has signed a Memorandum of Understanding (MoU) with the European standards body ETSI with a common objective to perform & promote international standardization, which will benefit both by adopting a complimentary approach to the standardization, fostering closer cooperation, and further strengthening their relationship.

The MoU will provide an opportunity to adopt each other's standards, exchange information, knowledge and share best practices by way of organising joint meetings, conferences promoting topics of mutual interest. This partnership will also help ETSI and BIS to further promote the use of interoperable standards-based products and services.

Read more

EU-India launched the Trade and Technology Council

President of the European Commission, Ursula von der Leyen, and Prime Minister of India, Narendra Modi, agreed to launch the EU-India Trade and Technology Council at their meeting in New Delhi in April 2022. This strategic coordination mechanism will allow both partners to tackle challenges at the nexus of trade, trusted technology and security, and thus deepen cooperation in these fields between the EU and India.

Both sides agreed that rapid changes in the geopolitical environment highlight the need for joint in-depth strategic engagement. The Trade and Technology Council will provide the political steer and the necessary structure to operationalise political decisions, coordinate technical work, and report to the political level to ensure implementation and follow-up in areas that are important for the sustainable progress of European and Indian economies.

The decision to set up a Trade and Technology Council will be the first for India with any of its partners and second for the European Union following the first one it has set up with the US. Establishing the EU-India Trade and Technology Council is a key step towards a strengthened strategic partnership for the benefit of all peoples in the EU and India.

Read more

ETSI'S world-first standard to secure consumer IoT devices is extended to home gateways



ETSI has announced a new cyber security specification for Home Gateways, called ETSI TS 103 848 and developed by the CYBER Technical Committee. Adapted from the provisions of the world-first standard to secure consumer IoT devices, EN 303 645, this technical specification will secure physical devices between the in-home network and the public network, as well as the traffic between these networks.

The Home Gateway (HG) is connected, on one side, to the Internet service provider's network and, on the other side, to the user's Local Area Network (LAN). On the Internet service provider's network side, the HG is exposed to other risks and attacks from a consumer IoT device. The committee has therefore added provisions to ETSI EN 303 645.

Read more

ETSI report on the role of the hardware in the security of AI

ETSI recently released a Group Report, ETSI GR SAI 006, outlining the role of hardware in the security of artificial intelligence (AI).









Al hardware provides the platform that supports and accelerates Al-related operations. Aside from general security requirements, the hardware used in artificial intelligence and machine learning (AI/ML) applications features additional security requirements to protect hardware in AI/ML specific use cases, including those in which AI/ML is used to attack generic, or specific, computing, storage, and communication hardware.

ETSI GR SAI 006, ETSI's newly published report, gives an overview of the roles of general-purpose and specialized hardware, such as neural processors and neural networks, in enabling the security of AI. The report identifies hardware vulnerabilities and common weaknesses in AI systems and outlines the mitigations available in hardware to prevent attacks, as well as the general requirements on hardware to support the security of AI (SAI).

Read more

ETSI ISG IPE releases the latest IPV6 enhanced innovation report

ETSI has published a new Group Report (GR), ETSI GR IPE 002, entitled "IPv6 based Data Centres, Network and Cloud Integration" "IPv6 based Data Centres, Network and Cloud Integration". Developed by the ETSI IPv6 enhanced group (ISG IPE), this Report comprehensively illustrates Network-Cloud convergence architecture and the requirements to the underlying network. In addition, it highlights the role of IPv6 and its enhanced features in Network-Cloud convergence.

The architectural transition to Network-Cloud convergence is mainly driven by the rapid development of Cloud and data centres. As more and more enterprises put their applications and data assets into Cloud, Cloud is becoming the centre of the infrastructure, and is creating the need for the network to be built around the Cloud. This GR identifies several typical use cases of Network-Cloud convergence, including virtual private clouds, enterprise site to DCs, inter-connection of Clouds, Data Centre network, and telecom cloud network. For each use case, the advantages of IPv6 are illustrated from multiple dimensions, including a larger address space and more advanced features compared to IPv4, such as Segment Routing over IPv6 (SRv6).

Read more

ETSI launches a new Open-Source Group: TERAFLOWSDN

ETSI has announced the creation of a new open-source group called TeraFlowSDN. Based upon the results of the European Union-funded <u>TeraFlow 5G PPP</u> research project, this new group hosted by ETSI will provide a toolbox for rapid prototyping and experimentation with innovative network technologies and use cases.

TeraFlowSDN will develop an open-source, cloudnative SDN controller for high-capacity IP and optical networks and will support use cases, such as autonomous networks and cybersecurity, helping service providers and telecommunication operators to meet the challenges of future networks.

The software developed by the TeraFlowSDN group will be a valuable tool for several ETSI industry specification groups working on network transformation. Collaboration around the software will enable the alignment of goals, mutual feedback and help to accelerate standardization cycles at ETSI.

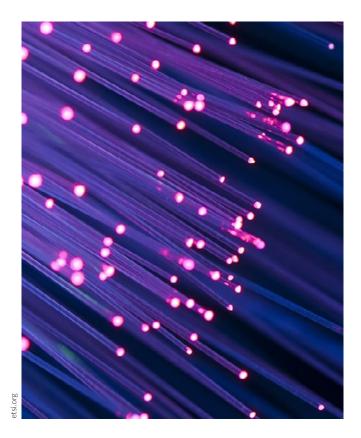
TeraFlowSDN will be able to integrate with current Network Function Virtualization (NFV) and Multi-access Edge Computing (MEC) frameworks and interoperate with ETSI OSM (Open- Source MANO).

Building on the success of ETSI OSM, which has been adopted by over 25 EU-funded research projects, TeraFlowSDN also aims to gain support and trigger collaboration with existing and future research projects in the 5G PPP or the Smart Networks and Services Joint Undertaking (SNS JU).









ETSI releases 1st specification on the 5G Fixed Network (F5G) architecture

ETSI's 5th Generation Fixed Network group (ISG F5G) has released its first specification for F5G Network Architecture ETSI GS F5G 004. This architecture will deliver a variety of services to residential and business customers over a single physical network with guaranteed SLAs (service level agreements).

The new ETSI specification defines the F5G end-toend network architecture and the related requirements for the network nodes, including Customer Premise Network (CPN), Access Network and Aggregation Network. The F5G architecture takes SDN/NFV into account for the network's control layer and Autonomous Network principles for the network's management layer. It explores new network features such as a seamless connection between Optical Transport Network and Access Network, E2E full-stack slicing and AI embedded features, among others.

The F5G network offers three main features for extending and enhancing fixed networks - eFBB (enhanced Fixed Broadband), FFC (Full Fibre Connection) and GRE (Guaranteed Reliable Experience).

Read more

Cybersecurity of 5G networks: EU publishes report on the security of Open RAN

EU Member States, with the support of the European Commission and ENISA, the EU Agency for Cybersecurity, published a <u>report on the cybersecurity of Open RAN</u>. This new type of 5G network architecture will in the coming years provide an alternative way of deploying the radio access part of 5G networks based on open interfaces. This marks another major step in the coordinated work at EU level on the cybersecurity of 5G networks, demonstrating a strong determination to continue to jointly respond to the security challenges of 5G networks and to keep abreast of developments in the 5G technology and architecture.

EU citizens and companies using advanced and innovative applications enabled by 5G and future generations of mobile communication networks should benefit from the highest security standard. Following up on the coordinated work already done at EU level to strengthen the security of 5G networks with the EU Toolbox on 5G Cybersecurity, Member States have analysed the security implications of Open RAN.

Read more

European Standards for the SDGs: CEN and CENELEC developed a new mapping tool

European standards are key to support the transition to a more sustainable future for all. Through a new dedicated online tool, CEN and CENELEC have mapped the direct contributions standards make to the UN Sustainable Development Goals (SDGs).

CEN and CENELEC develop European Standards that contribute to the three pillars of economic, environmental, and societal sustainability. In the framework of the twin digital and green transition for Europe, CEN and CENELEC are fully committed to the global implementation of the SDGs. This engagement is testified by its inclusion among the priorities of the CEN and CENELEC Strategy 2030, but also by the signature of the London Declaration on the commitment of international standards to climate action, spearheaded by ISO.

To provide a thorough overview of how standards help achieve the SDGs, CEN and CENELEC developed <u>a new dedicated website</u>. Through months of work involving







high-level experts and technical committees, in line with the parallel international work of ISO and IEC, the two organizations realised a comprehensive mapping of the standards that make the most significant contribution to the SDGs in the European context.

At the moment, the website accounts for 4783 deliverables. This is a living list: it is expected to be continually updated in the upcoming months and years to contribute to the ever-growing inclusion of sustainability issues in standardization across the board.

Read more



The European Cyber Security Organisation (ECSO) and the European Telecommunications Standards Institute (ETSI) are pleased to strengthen their relationship and foster a close co-operation in the field of cybersecurity and standardization.

The Memorandum of Understanding (MoU) formalises the mutual cooperation in exchanging information and experience on regional and international standardization, specifically focusing on ICT security and interoperability areas.

ECSO and ETSI have a shared objective of advancing standardization, certification and supply management in different areas connected to ICT Systems which include electronic signatures, secure element technologies and cybersecurity.

Read more

Standards For Climate - CEN and CENELEC held a workshop on naturebased solutions

Nature-based solutions are promising tools to help reduce the impact of climate change and contribute to the EU's environmental objectives. A stakeholders' workshop organised by CEN and CENELEC explored their many challenges and opportunities and discussed how standardization can support their successful implementation.

According to the United Nations Environment Assembly (UNEA), in a March 2022 resolution, "nature-based solutions are actions to protect, conserve, restore, sustainably use and manage natural or modified



terrestrial, freshwater, coastal and marine ecosystems which address social, economic and environmental challenges effectively and adaptively, simultaneously providing human well-being, ecosystem services, resilience and biodiversity benefits". They have an enormous - even if still under-analysed - potential to address climate change.

In this context, standardization plays a key role to boost the uptake of nature-based solutions. To fully grasp and benefit from them, European stakeholders need up-todate standards that can provide a common approach enabling trust, quality and coherence across sectors and applications, while targeting relevant solutions to specific conditions at the local level.

Read more

CEN and CENELEC's response to the European Commission's consultation and call for evidence on standard essential patents

As a preliminary remark, it should be reminded that CEN and CENELEC are not involved in evaluating the relevance or essentiality of patents with regard to standards under development, interfering with licensing negotiations, or engaging in settling patent disputes. Notwithstanding this, CEN and CENELEC responded to







this consultation, to clarify several points found in the European Commission's introductory document (Ref. Ares(2022)1076263 - 14/02/2022). The full text of CEN and CENELEC's response can be found here.

In relation to standard essential patents, CEN and CENELEC relentlessly strive for a balanced approach to help ensure a reasonable return to those innovators that bring their contribution to standards whilst allowing a fair access to the patented technology for the implementers of the standards.

Read more

CEN and CENELEC's response on European Commision's consultation on the new European Innovation Agenda

CEN-CENELEC/BTWG 3 'STAIR' is the focal point within CEN and CENELEC for any matter related with integrating standardization with innovation and research. Members of the working group have directly contributed to this position paper.

Innovation is paramount in the world of today and tomorrow: the ability to develop new technologies and have them quickly access the market determines the ability to influence the global economy. In this rapidly changing technological environment, standardization has a fundamental role to play. Standards and standardization are recognized as tools for promoting innovation for both policymakers and businesses, as standards allow to codify knowledge and make it accessible to a wide range of stakeholders. This is even more reinforced by the EU Strategy on Standardisation, Setting global standards in support of a resilient, green and digital EU single market, from February 2022.

CEN CENELEC, therefore, believe that standardization should be seen as a tool to reinforce European capacity to accelerate and master innovative solutions, which should be considered in the development of the new European Innovation Agenda.

Read full text here.

ASTM and CEN extend and expand Cooperation Agreement

CEN, the European Committee for Standardization, and ASTM International have agreed to extend and expand



a Technical Cooperation Agreement from 2019 with the objective to broaden and facilitate global dialogue and coordination in specific standardization areas of mutual interest.

The updated Agreement affirms and reinvigorates a framework agreed in 2019 for technical cooperation and information exchange between the two standardization organizations, thus facilitating dialogue and convergence on the technical requirements and related attributes of standards development, and preventing duplication of efforts, for the benefit of their respective stakeholders.

By extending and expanding this important Agreement, ASTM International and CEN reaffirm their commitment to a series of practical actions to implement their cooperation, specifically in the technical areas of common interest between ASTM International and CEN:

- Explore opportunities to collaborate within their respective standards development process;
- Facilitate technical standardization dialogue between their technical bodies;
- Share information on their standards development activities and emerging technologies, trends, or regulatory drivers of mutual interest for the benefit of the stakeholders.







EU budget 2023: Empowering Europe to continue shaping a changing world

The Commission has proposed an annual EU budget of €185.6 billion for 2023, to be complemented by an estimated €113.9 billion in grants under NextGenerationEU. The EU budget will continue to mobilise significant investments to boost Europe's strategic autonomy, the ongoing economic recovery, safeguard sustainability and create jobs. The Commission will continue to prioritise green and digital investments while addressing pressing needs arising from recent and current crises.

The draft budget 2023, boosted by NextGenerationEU, is designed to respond to the most crucial recovery needs of EU Member States and our partners around the world. These financial means will continue to rebuild and modernise the European Union and strengthen Europe's status as a strong global actor and reliable partner.

Read more



Commission (Eurostat) publishes 2022 report on Sustainable Development Goals in the European Union

Eurostat, the statistical office of the European Union, published the 'Sustainable development in the European Union — 2022 monitoring report on progress towards the SDGs in an EU context', which provides a statistical overview of progress towards the Sustainable Development Goals (SDGs) in the EU.

The data included in the report show that the EU has

made progress towards most goals over the last five years, in line with Commission's priorities in key policy areas such as the European Green Deal, the Digital Strategy and the European Pillar of Social Rights Action Plan. While progress towards reaching some goals was faster than for others, movement away from the sustainable development objectives occurred only in few specific areas.

The unprecedented instrument of NextGenerationEU adopted by the Commission in response to the pandemic, and the reforms and investments envisaged by Member States in their Recovery and Resilience Plans, will make a major contribution to achieving the SDGs in the EU in the future.

Read more

Commission welcomes political agreement on new rules on cybersecurity of network and information systems

The Commission welcomes the political agreement reached between the European Parliament and EU Member States on the Directive on measures for a high common level of cybersecurity across the Union (NIS 2 Directive) proposed by the Commission in December 2020.

The existing rules on the security of network and information systems (NIS Directive), have been the first piece of EU-wide legislation on cybersecurity and paved the way for a significant change in mind-set, institutional and regulatory approach to cybersecurity in many Member States. In spite of their notable achievements and positive impact, they had to be updated because of the increasing degree of digitalisation and interconnectedness of our society and the rising number of cyber malicious activities at global level.

To respond to this increased exposure of Europe to cyber threats, the NIS 2 Directive now covers medium and large entities from more sectors that are critical for the economy and society, including providers of public electronic communications services, digital services, waste water and waste management, manufacturing of critical products, postal and courier services and public administration, both at central and regional level.









Whitepapers/Publications





ETSI releases its Annual Report and Work Programme 2022-2023

ETSI has just released its two activity documents, the Annual Report that looks back on 2021 achievements and the forward looking 2022-2023 Work Programme.

The Work Programme highlights the upcoming activities of our Technical Committees, Industry Specification Groups and other bodies that create standards and associated deliverables for a vast range of technologies, market sectors and user needs.

Download Annual Report

Download Work Programme

On the spot - Issue 33 · April/May 2022

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









Events Calendar 2022

ETSI/Linux Foundation – Edge Hackathon 2022

When: 29 June -23 September 2022

ETSI is pleased to endorse the event which is driven by LF Edge Akraino and ETSI ISG MEC. The Edge Hackathon will run remotely from 29 June to 23 September with a short-list of best teams invited to complete with demonstrations and a Hackathon "pitchoff" at the Edge Computing World Global event in Santa Clara in the Silicon Valley on October 10th-12th.

Read more

9th UCAAT – User Conference on Advanced Automated Testing

When: 13-15 September 2022

Where- Munich, Germany

Our society becomes increasingly dependent on complex software systems and widely interconnected systems of systems that take over more and more crucial tasks of our daily lives. These systems will be only accepted by their users if they offer a high level of trust in various facets reaching from safety, availability, business integrity, to robustness, security, and other areas. For more information, please click here

ETSI Security Conference 2022 (ETSI Security Week 2022)

When: 3-5 October 2022

The ETSI Security Conference 2022 (previously ETSI Security Week), running over three days, will debate EU and Global Cyber Security Regulation, Policy, Security Innovation and Standardisation.

Each day will have a dedicated theme:

- Day 1: Global Regulation and Certification Landscape
- Day 2: Security Verticals
- Day 3: Technology Day (Horizontals & Toolboxes)

Agenda topics will include: 5G, Al, Cyber Security Act (CSA), IoT / Connected Device Security, Post Quantum and Co-ordinated Vulnerability Disclosure (CVD).

Read more

eSignature Validation Plugtests 2022

When: 16-05-2022 to 10-06-2022 (online)

ETSI Centre for Testing and Interoperability (CTI) on behalf of TC ESI, ETSI's Technical Committee for Electronic Signatures and Infrastructures is organizing a remote Plugtests interoperability event on Electronic Signature Validation. This event will be run remotely from 16 May to 10 June 2022 using a dedicated web portal. The aim of the event is to check the interoperability of ETSI advanced digital signatures and the validation capacities of the participants in order to help them detect possible issues which may lead to different validation results.

More information









Events Calendar 2022

Forming the Next Generation of ICT Standards People: A Day of Teaching Standardization

When: 6 October

Where: Sophia Antipolis, France

ETSI is pleased to invite the international teaching community to its first face-to-face seminar on teaching ICT standardization. Professors, lecturers, and other teaching professionals will gather at ETSI on 6 October with the aim of forming the next generation of ICT Standards People.

Read more

ETSI IoT Week 2022

When: 10-14 October 2022
Where: Sophia Antipolis, France

The 2022 edition of the ETSI IoT Week, "Pursuing Digital and Green Transformation", will take place in ETSI premises, Sophia Antipolis, France, on 10-14 October 2022. The ETSI IoT Week consists of a series of events: a tutorial on ontologies and semantic interoperability for IoT on 10 October, the ETSI IoT Conference on 11-14 October with demonstrations on 11-13 October.

Read more

Webinar 'The potential of European Standards to support the European strategy towards a Green and Sustainable Environment'

When: 12-09-2022

The EU has a clear expectation that the European Green Deal will be systematically supported by suitable standardization activities. The objective of this webinar is to discuss with relevant stakeholders how this expectation can be met by the European Standardization Organizations (ESOs).

Read more

CEN and CENELEC workshop on Personal Protective Equipment (PPE) – Medical Devices (MD) dual use products

When: 05-19-2022

The workshop will feature presentations on the key legislative requirements, existing work in technical committees and a discussion on how we could potentially generate an approach to integrate the requirements for PPE, medical products, and dual use products. Therefore, we hope to bring together stakeholders from different perspectives.

Read more

Webinar: Informative Annex ZA/ZZ for Machinery Directive

When: 06-10-2022

This webinar will provide participants with practical information regarding the preparation of CEN and CENELEC harmonized standards to be cited in the Official Journal of the European Union (OJEU) under the Machinery Directive.





About Project

SESEI SE

Seconded European
Standardisation
Expert in India

Enabling Europe-India Cooperation on Standards

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 (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 Electrotechnical Standardization (CENELEC) http://www.cencenelec.eu- which develop and adopt European standards in a wide range of products, services and processes, as well as by the European Commission (www.ec.europa.eu) and the European Free Trade Association (http:// www.efta.int/). It is a Standardization focused project, with a priority emphasis on the sectors of ICT, Automotive, Electronic Appliances including Consumer Electronics and Smart Cities etc.

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ETSI

European Telecommunications Standards Institute

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EC

European Commission www.ec.europa.eu



EFTA

European Free Trade Association www.efta.int

